WKAS_89.DBF

TABLE 3.7(25)

	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH
46	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	4.6	25	0.00	6.62	110	18.0	160000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Jernih.
47	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	4.8	25	0.00	6.16	100	14.0	160000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Jernih.
48	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.9	24	0.00	6.81	90	65.0	35000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Kelabu,bersih.
49	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.5	25	0.00	6.10	100	0.0	90000	90000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
50	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.8	24	0.00	6.20	90	0.0	55000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih,jernih.
51	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.2	24	0.00	6.82	75	17.0	25000	180000	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
52	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.0	21	0.00	0.00	84	28.0	25000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
53	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.2	23	0.00	6.00	90	6.3	130000	250000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
54	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.5	27	0.00	6.00	80	0.0	55000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
55	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.3	26	0.00	6.00	70	41.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
56	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.5	25	0.00	6.00	60	336.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
57	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.5	25	0.00	6.00	60	144.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
58	0.000	0.00	0.00	0.00	0.00	2.00	0.00	0.000	0.00	0.0	0.00	7.5	24	0.00	6.72	100	19.0	25000	18000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Jernih.
59	0.000	0.00	0.00	0.60	0.00	6.00	0.00	0.000	0.00	0.0	0.00	7.2	25	0.00	6.57	110	7.3	180000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Jernih.
60	0.000	0.00	0.00	0.80	0.00	2.00	0.00	0.000	0.00	0.0	0.00	8.1	24	0.00	6.60	98	58.0	180000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Kelabu.
61	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.3	25	0.00	7.02	100	0.0	180000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
62	0.000	0.00	0.00	0.40	0.00	2.00	0.00	0.000	0.00	0.0	0.00	7.5	23	0.00	7.15	100	0.0	180000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih,jernih.
63	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.9	24	0.00	6.73	100	15.0	180000	180000	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
64	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.9	23	0.00	0.00	93	13.0	160000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
65	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.0	21	0.00	6.00	110	6.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
66	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.1	26	0.00	6.00	60	0.0	160000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
67	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.5	26	0.00	6.00	70	57.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
68	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.5	28	0.00	6.60	50	33.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Keroh.
69	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.1	29	0.00	6.20	50	52.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Keruh.
70	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.6	29	0.00	6.47	50	16.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Jernih,byksampah.
71	0.000	0.00	0.00	1.00	0.00	1.00	0.00	0.000	0.00	0.0	0.00	5.5	29	0.00	6.66	50	0.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
72	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.2	25	0.00	6.56	40	0.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih,jernih.
73	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.2	26	0.00	6.93	40	46.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
74	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.9	22	0.00	0.00	59	29.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
75	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	4.7	25	0.00	6.00	50	39.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
76	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.9	28	0.00	5.00	30	0.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
77	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.1	27	0.00	7.00	30	92.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
78	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.2	26	0.00	6.00	30	140.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
79	0.000	0.00	0.00	0.20	0.00	2.00	0.00	0.000	0.00	0.0	0.00	7.1	28	0.00	6.70	60	35.0	55000	55000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
80	0.000	0.00	0.00	1.40	0.00	2.00	0.00	0.000	0.00	0.0	0.00	4.8	30	0.00	6.44	65	90.0	25000	25000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	keruh.
81	0.000	0.00	0.00	1.10	0.00	2.00	0.00	0.000	0.00	0.0	0.00	6.6	29	0.00	6.84	60	0.0	8000	25000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Kelabu,bersih.
82	0.000	0.00	0.00	0.30	0.00	3.00	0.00	0.000	0.00	0.0	0.00	7.0	25	0.00	6.72	50	0.0	3500	3500	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
83	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.5	26	0.00	6.56	60	25.0	5000	25000	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
84	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.4	27	0.00	0.00	58	27.0	7000	35000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
85	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.3	23	0.00	6.00	60	28.0	5000	17000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
86	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.4	28	0.00	5.00	30	0.0	13000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
87	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.4	27	0.00	6.00	40	66.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
88	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.1	26	0.00	6.00	40	95.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	

WKAS_90.DBF

TABLE 3.7(26)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF
1	YEAR	WKA	SNO	SUNGAI	DT	TIME	COL	TUR	CONDU	PHL	BOD	COD	ALN	AN	NAN	NO2	TN	CL	F	CN	SO4	P	HARD	SS	DS	TS	OG	PHE	MBAS	AS	B	CA
2	1990	05	S504602	MUDA	900117	1020	15	5.0	0	6.9	3.0	30.0	0.00	0.03	0.20	0.00	0.00	7.0	0.00	0.0	2.00	0.21	0.0	30	50	80	0.0	0.000	0.00	0.000	0.00	0.0
3	1990	05	S504602	MUDA	900221	930	15	15.0	0	7.3	1.0	20.0	0.00	0.18	0.20	0.00	0.00	4.0	0.00	0.0	10.00	0.01	0.0	70	60	130	0.0	0.000	0.00	0.000	0.00	0.0
4	1990	05	S504602	MUDA	900322	945	-25	-25.0	0	7.5	2.0	20.0	0.00	0.25	0.05	0.00	0.00	5.0	0.00	0.0	5.00	0.03	18.0	20	45	65	0.0	0.000	0.00	0.000	0.00	0.0
5	1990	05	S504602	MUDA	900419	1005	70	38.0	0	7.7	3.0	30.0	0.00	0.35	0.15	0.00	0.00	10.0	0.00	0.0	2.00	0.01	15.0	10	45	55	0.0	0.000	0.00	0.000	0.00	0.0
6	1990	05	S504602	MUDA	900528	1000	70	32.0	0	7.9	3.0	30.0	0.00	0.13	0.10	0.00	0.00	12.0	0.00	0.0	4.00	0.05	15.0	20	50	70	0.0	0.000	0.00	0.000	0.00	0.0
7	1990	05	S504602	MUDA	900690	1000	70	0.0	0	6.9	1.0	20.0	0.00	0.43	0.15	0.00	0.00	9.0	0.00	0.0	3.00	0.04	16.0	30	45	75	0.0	0.000	0.00	0.000	0.00	0.0
8	1990	05	S504602	MUDA	900724	1030	70	0.0	0	6.8	1.0	25.0	0.00	0.25	0.15	0.00	0.00	6.0	0.00	0.0	5.00	0.04	15.0	100	95	195	0.0	0.000	0.00	0.000	0.00	0.0
9	1990	05	S504602	MUDA	900820	1000	70	0.0	0	6.7	1.0	20.0	0.00	0.31	0.20	0.00	0.00	11.0	0.00	0.0	3.00	-1.00	18.0	35	80	115	0.0	0.000	0.00	0.000	0.00	0.0
10	1990	05	S504602	MUDA	900911	945	70	0.0	0	6.4	1.0	20.0	0.00	0.31	0.15	0.00	0.00	6.0	0.00	0.0	30.00	0.09	17.0	25	70	95	0.0	0.000	0.00	0.000	0.00	0.0
11	1990	05	S504602	MUDA	900918	1430	70	35.0	0	6.4	1.0	30.0	0.00	0.17	0.35	0.00	0.00	9.0	9.00	0.0	30.00	0.00	12.0	45	135	180	0.0	0.000	0.00	0.000	0.00	0.0
12	1990	05	S504602	MUDA	901015	1000	-370	0.0	0	6.7	1.0	25.0	0.00	0.44	0.15	0.00	0.00	10.0	0.00	0.0	30.00	0.09	14.0	100	125	225	0.0	0.000	0.00	0.000	0.00	0.0
13	1990	05	S505603	MUDA	900117	1110	10	5.0	0	6.9	1.0	25.0	0.00	0.13	0.15	0.00	0.00	11.0	0.00	0.0	2.00	0.16	6.0	20	65	85	35.0	0.000	0.00	-0.100	0.00	4.0
14	1990	05	S505603	MUDA	900221	950	15	15.0	0	7.2	1.0	20.0	0.00	0.38	0.25	0.00	0.00	7.0	0.00	0.0	11.00	0.15	0.0	40	50	90	0.0	0.000	0.00	-0.100	0.00	4.0
15	1990	05	S505603	MUDA	900322	1040	-25	-25.0	0	8.6	2.0	20.0	0.00	0.29	0.10	0.00	0.00	7.0	0.00	0.0	7.00	0.05	22.0	40	55	95	0.0	0.000	0.00	-0.100	0.00	5.0
16	1990	05	S505603	MUDA	900419	1035	10	42.0	0	7.6	3.0	30.0	0.00	0.15	0.05	0.00	0.00	11.0	0.00	0.0	1.00	0.24	14.0	35	50	85	0.0	0.000	0.00	0.000	0.00	5.0
17	1990	05	S505603	MUDA	900528	1050	70	35.0	0	7.8	2.0	20.0	0.00	0.10	0.10	0.00	0.00	8.0	0.00	0.0	5.00	0.04	20.0	35	45	80	0.0	0.000	0.00	0.000	0.00	5.0
18	1990	05	S505603	MUDA	900628	1030	70	0.0	0	6.9	-21.0	15.0	0.00	0.22	0.25	0.00	0.00	10.0	0.00	0.0	2.00	0.04	15.0	25	50	75	0.0	0.000	0.00	0.000	0.00	0.0
19	1990	05	S505603	MUDA	900724	1145	70	0.0	0	6.5	2.0	30.0	0.00	0.10	0.25	0.00	0.00	11.0	1.00	0.0	1.00	0.03	15.0	90	95	185	0.0	0.000	0.00	0.000	0.00	0.0
20	1990	05	S505603	MUDA	900820	1140	70	0.0	0	6.6	1.0	25.0	0.00	0.17	0.35	0.00	0.00	8.0	0.00	0.0	2.00	-1.00	31.0	90	45	45	0.0	0.000	0.00	0.000	0.00	0.0
21	1990	05	S505603	MUDA	900918	1300	70	60.0	0	6.5	1.0	20.0	0.00	0.15	0.35	0.00	0.00	8.0	0.00	0.0	18.00	-1.00	10.0	120	190	310	0.0	0.000	0.00	0.000	0.00	0.0
22	1990	05	S505603	MUDA	901015	1030	-370	0.0	0	6.8	2.0	35.0	0.00	0.23	0.20	0.00	0.00	13.0	0.00	0.0	20.00	0.14	10.0	115	135	250	0.0	0.000	0.00	0.000	0.00	0.0
23	1990	05	S505603	MUDA	901109	1020	70	0.0	0	6.3	2.0	30.0	0.00	0.29	0.20	0.00	0.00	8.0	0.00	0.0	36.00	0.14	12.0	55	70	125	0.0	0.000	0.00	0.000	0.00	0.0
24	1990	05	S506604	MUDA	900118	950	10	5.0	0	7.1	11.0	25.0	0.00	0.08	0.10	0.00	0.00	11.0	0.00	0.0	7.00	0.13	30.0	10	120	130	0.0	0.000	0.00	0.000	0.00	0.0
25	1990	05	S506604	MUDA	900221	1030	5	-25.0	0	7.3	1.0	15.0	0.00	0.20	0.10	0.00	0.00	6.0	0.00	0.0	8.00	0.01	0.0	75	50	125	0.0	0.000	0.00	0.000	0.00	0.0
26	1990	05	S506604	MUDA	900323	1010	-25	-25.0	0	7.6	2.0	20.0	0.00	0.18	0.15	0.00	0.00	10.0	0.00	0.0	6.00	0.16	30.0	20	65	85	0.0	0.000	0.00	0.000	0.00	0.0
27	1990	05	S506604	MUDA	900419	1130	70	68.0	0	7.4	3.0	35.0	0.00	0.08	0.10	0.00	0.00	13.0	0.00	0.0	2.00	0.02	17.0	45	55	100	0.0	0.000	0.00	0.000	0.00	0.0
28	1990	05	S506604	MUDA	900529	1000	20	23.0	0	7.7	3.0	30.0	0.00	0.13	0.10	0.00	0.00	9.0	0.00	0.0	1.00	0.09	22.0	40	55	95	0.0	0.000	0.00	0.000	0.00	0.0
29	1990	05	S506604	MUDA	900628	1145	70	0.0	0	7.0	1.0	20.0	0.00	0.33	0.25	0.00	0.00	9.0	0.00	0.0	3.00	0.07	20.0	25	95	120	0.0	0.000	0.00	0.000	0.00	0.0
30	1990	05	S506604	MUDA	900725	1445	70	0.0	0	6.6	1.0	25.0	0.00	0.10	0.25	0.00	0.00	7.0	0.00	0.0	1.00	0.04	21.0	100	60	160	0.0	0.000	0.00	0.000	0.00	0.0
31	1990	05	S506604	MUDA	900820	1220	70	0.0	0	6.6	1.0	20.0	0.00	0.40	0.40	0.00	0.00	7.0	0.00	0.0	4.00	0.13	24.0	25	70	95	0.0	0.000	0.00	0.000	0.00	0.0
32	1990	05	S506604	MUDA	900917	1030	70	84.0	0	6.7	1.0	20.0	0.00	0.08	0.75	0.00	0.00	9.0	0.00	0.0	26.00	0.61	13.0	65	70	135	0.0	0.000	0.00	0.000	0.00	0.0
33	1990	05	S506604	MUDA	901015	1145	-370	0.0	0	6.7	1.0	25.0	0.00	0.17	0.15	0.00	0.00	8.0	0.00	0.0	18.00	0.23	12.0	60	135	195	0.0	0.000	0.00	0.000	0.00	0.0
34	1990	05	S506604	MUDA	901109	1110	70	0.0	0	6.6	2.0	20.0	0.00	0.32	0.30	0.00	0.00	9.0	0.00	0.0	18.00	0.23	15.0	50	105	155	0.0	0.000	0.00	0.000	0.00	0.0
35	1990	05	S607606	TAWAR	900118	1035	5	-25.0	0	6.9	6.0	25.0	0.00	0.32	0.70	0.00	0.00	20.0	0.00	0.0	3.00	0.09	45.0	10	90	100	0.0	0.000	0.00	0.000	0.00	0.0
36	1990	05	S607606	TAWAR	900221	1055	5	-25.0	0	7.5	1.0	15.0	0.00	1.95	0.25	0.00	0.00	7.0	0.00	0.0	4.00	0.42	0.0	20	60	80	0.0	0.000	0.00	0.000	0.00	0.0
37	1990	05	S607606	TAWAR	900323	1040	-370	20.0	0	7.5	-21.0	30.0	0.00	0.26	0.80	0.00	0.00	8.0	0.00	0.0	7.00	0.26	13.0	50	90	140	0.0	0.000	0.00	0.000	0.00	0.0
38	1990	05	S607606	TAWAR	900419	1215	5	26.0	0	7.4	3.0	20.0	0.00	0.58	0.45	0.00	0.00	8.0	0.00	0.0	0.00	0.30	22.0	20	40	60	0.0	0.000	0.00	0.000	0.00	0.0
39	1990	05	S607606	TAWAR	900529	1030	40	14.0	0	7.6	1.0	15.0	0.00	0.34	0.20	0.00	0.00	7.0	0.00	0.0	0.00	0.37	20.0	35	50	85	0.0	0.000	0.00	0.000	0.00	0.0
40	1990	05	S607606	TAWAR	900628	1220	40	0.0	0	7.1	1.0	20.0	0.00	0.42	0.40	0.00	0.00	9.0	0.00	0.0	2.00	0.34	34.0	30	50	80	0.0	0.000	0.00	0.000	0.00	0.0
41	1990	05	S607606	TAWAR	900725	1415	70	0.0	0	6.8	1.0	25.0	0.00	0.46	0.30	0.00	0.00	7.0	0.00	0.0	12.00	0.20	15.0	65	90	155	0.0	0.000	0.00	0.000	0.00	0.0
42	1990	05	S607606	TAWAR	900820	1300	5	0.0	0	6.8	3.0	25.0	0.00	0.89	0.75	0.00	0.00	8.0	0.00	0.0	1.00	0.16	16.0	30	45	75	0.0	0.000	0.00	0.000	0.00	0.0
43	1990	05	S607606	TAWAR	900917	1100	40	15.0	0	6.6	1.0	20.0	0.00	0.34	0.75	0.00	0.00	6.0	0.00	0.0	18.00	0.09	14.0	25	55	80	0.0	0.000	0.00	0.000	0.00	0.0
44	1990	05	S607606	TAWAR	901015	1210	60	0.0	0	6.7	1.0	20.0	0.00	0.42	0.30	0.00	0.00	10.0	0.00	0.0	18.00	1.10	15.0	15	65	80	0.0	0.000	0.00	0.000	0.00	0.0
45	1990	05	S607606	TAWAR	901109	1145	70	0.0	0	6.0	2.0	30.0	0.00	0.31	0.25	0.00	0.00	10.0	0.00	0.0	30.00	1.08	10.0	100	335	435	0.0	0.000	0.00	0.000	0.00	0.0

TABLE 3.7(27)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF
46	1990	05	S608605	KETIL	900118	1110	5	-25.0	0	7.4	1.0	20.0	0.00	0.30	0.05	0.00	0.00	13.0	0.00	0.0	3.00	0.09	45.0	10	90	100	0.0	0.000	0.00	0.000	0.00	0.0
47	1990	05	S608605	KETIL	900221	1130	-25	-25.0	0	7.6	2.0	20.0	0.00	0.37	0.20	0.00	0.00	6.0	0.00	0.0	5.00	0.08	0.0	55	95	150	0.0	0.000	0.00	0.000	0.00	0.0
48	1990	05	S608605	KETIL	900323	1100	-25	10.0	0	7.6	2.0	20.0	0.00	0.35	0.15	0.00	0.00	7.0	0.00	0.0	5.00	0.15	40.0	50	60	110	0.0	0.000	0.00	0.000	0.00	0.0
49	1990	05	S608605	KETIL	900419	1230	10	30.0	0	7.2	4.0	30.0	0.00	0.32	0.10	0.00	0.00	12.0	0.00	0.0	0.00	0.07	35.0	40	40	80	0.0	0.000	0.00	0.000	0.00	0.0
50	1990	05	S608605	KETIL	900529	1100	10	16.0	0	7.5	4.0	30.0	0.00	0.20	0.05	0.00	0.00	12.0	0.00	0.0	0.00	0.07	41.0	35	75	110	0.0	0.000	0.00	0.000	0.00	0.0
51	1990	05	S608605	KETIL	900628	1245	10	0.0	0	7.1	1.0	20.0	0.00	0.32	0.10	0.00	0.00	8.0	0.00	0.0	-21.00	0.15	39.0	20	85	105	0.0	0.000	0.00	0.000	0.00	0.0
52	1990	05	S608605	KETIL	900725	1350	70	0.0	0	6.6	2.0	30.0	0.00	0.22	0.10	0.00	0.00	9.0	0.00	0.0	-1.00	0.06	39.0	70	45	115	0.0	0.000	0.00	0.000	0.00	0.0
53	1990	05	S608605	KETIL	900820	1330	15	0.0	0	6.7	1.0	20.0	0.00	0.53	0.05	0.00	0.00	6.0	0.00	0.0	4.00	-1.00	38.0	30	45	75	0.0	0.000	0.00	0.000	0.00	0.0
54	1990	05	S608605	KETIL	900917	1130	70	94.0	0	6.7	2.0	15.0	0.00	0.22	0.15	0.00	0.00	8.0	0.00	0.0	16.00	0.09	35.0	110	165	275	0.0	0.000	0.00	0.000	0.00	0.0
55	1990	05	S608605	KETIL	901015	1240	30	0.0	0	7.2	2.0	25.0	0.00	0.12	0.10	0.00	0.00	10.0	0.00	0.0	6.00	0.48	27.0	30	75	105	0.0	0.000	0.00	0.000	0.00	0.0
56	1990	05	S608605	KETIL	901109	1210	70	0.0	0	6.7	2.0	30.0	0.00	0.33	0.15	0.00	0.00	10.0	0.00	0.0	4.00	0.48	18.0	70	395	465	0.0	0.000	0.00	0.000	0.00	0.0
57	1990	05	S609609	KETIL	901109	1240	70	0.0	0	6.7	2.0	20.0	0.00	0.40	0.15	0.00	0.00	10.0	0.00	0.0	3.00	0.15	24.0	115	95	210	0.0	0.000	0.00	0.000	0.00	0.0
58	1990	05	S609609	KETIL	900118	1145	-25	-25.0	0	7.3	1.0	20.0	0.00	0.13	0.10	0.00	0.00	6.0	0.00	0.0	4.00	0.34	55.0	60	95	155	0.0	0.000	0.00	-0.100	0.00	20.0
59	1990	05	S609609	KETIL	900221	1210	5	-25.0	0	7.3	1.0	15.0	0.00	0.12	0.10	0.00	0.00	17.0	0.00	0.0	2.00	0.07	0.0	20	50	70	0.0	0.000	0.00	-0.100	0.00	16.0
60	1990	05	S609609	KETIL	900323	1130	-370	10.0	0	8.8	1.0	20.0	0.00	0.20	0.15	0.00	0.00	9.0	0.00	0.0	6.00	0.09	39.0	55	60	115	0.0	0.000	0.00	-0.100	0.00	13.0
61	1990	05	S609609	KETIL	900419	1300	70	57.0	0	7.5	4.0	30.0	0.00	0.05	0.15	0.00	0.00	10.0	0.00	0.0	7.00	0.33	11.0	40	40	80	0.0	0.000	0.00	0.000	0.00	0.0
62	1990	05	S609609	KETIL	900529	1200	5	14.0	0	7.3	4.0	30.0	0.00	0.13	0.01	0.00	0.00	14.0	0.00	0.0	0.00	0.05	48.0	30	75	105	0.0	0.000	0.00	0.000	0.00	16.0
63	1990	05	S609609	KETIL	900628	1300	15	0.0	0	7.1	1.0	20.0	0.00	0.23	0.15	0.00	0.00	8.0	0.00	0.0	2.00	0.05	51.0	40	50	75	0.0	0.000	0.00	0.000	0.00	0.0
64	1990	05	S609609	KETIL	900725	1140	70	0.0	0	6.9	-21.0	25.0	0.00	0.10	0.15	0.00	0.00	8.0	0.00	0.0	-1.00	0.06	13.0	20	55	75	0.0	0.000	0.00	0.000	0.00	0.0
65	1990	05	S609609	KETIL	900820	1430	5	0.0	0	6.8	2.0	30.0	0.00	0.07	0.10	0.00	0.00	11.0	0.00	0.0	1.00	0.01	54.0	30	75	105	0.0	0.000	0.00	0.000	0.00	0.0
66	1990	05	S609609	KETIL	900917	1230	70	94.0	0	6.7	1.0	30.0	0.00	0.25	0.30	0.00	0.00	8.0	0.00	0.0	12.00	0.03	24.0	520	495	1015	0.0	0.000	0.00	0.000	0.00	0.0
67	1990	05	S609609	KETIL	901015	1320	15	0.0	0	7.4	1.0	25.0	0.00	0.18	0.05	0.00	0.00	9.0	0.00	0.0	7.00	0.15	33.0	65	60	125	0.0	0.000	0.00	0.000	0.00	0.0
68	1990	05	S806614	MUDA	900118	1430	10	10.0	0	6.9	7.0	30.0	0.00	0.07	0.05	0.00	0.00	22.0	0.00	0.0	8.00	0.32	20.0	35	70	105	0.0	0.000	0.00	0.000	0.00	0.0
69	1990	05	S806614	MUDA	900221	1430	-370	20.0	0	7.2	1.0	25.0	0.00	0.13	0.20	0.00	0.00	9.0	0.00	0.0	6.00	0.30	0.0	75	110	185	0.0	0.000	0.00	0.000	0.00	0.0
70	1990	05	S806614	MUDA	900323	1430	-25	-25.0	0	7.8	2.0	20.0	0.00	0.07	0.05	0.00	0.00	9.0	0.00	0.0	7.00	0.32	12.0	20	120	140	0.0	0.000	0.00	0.000	0.00	0.0
71	1990	05	S806614	MUDA	900419	1510	15	73.0	0	7.2	3.0	30.0	0.00	0.04	0.10	0.00	0.00	15.0	0.00	0.0	1.00	0.17	47.0	50	60	110	0.0	0.000	0.00	0.000	0.00	16.0
72	1990	05	S806614	MUDA	900529	1530	5	38.0	0	7.5	4.0	25.0	0.00	0.07	0.05	0.00	0.00	13.0	0.00	0.0	0.00	0.17	12.0	45	85	130	0.0	0.000	0.00	0.000	0.00	0.0
73	1990	05	S806614	MUDA	900628	1500	70	0.0	0	7.3	-21.0	15.0	0.00	0.34	0.15	0.00	0.00	8.0	0.00	0.0	1.00	0.19	11.0	25	60	85	0.0	0.000	0.00	0.000	0.00	0.0
74	1990	05	S806614	MUDA	900725	1020	70	0.0	0	6.8	1.0	20.0	0.00	0.12	0.12	0.00	0.00	7.0	0.00	0.0	-1.00	0.04	20.0	75	20	55	0.0	0.000	0.00	0.000	0.00	0.0
75	1990	05	S806614	MUDA	900820	1530	70	0.0	0	6.9	1.0	25.0	0.00	0.18	0.15	0.00	0.00	9.0	0.00	0.0	3.00	-1.00	13.0	45	60	105	0.0	0.000	0.00	0.000	0.00	0.0
76	1990	05	S806614	MUDA	900917	1400	70	95.0	0	6.9	1.0	15.0	0.00	0.23	0.25	0.00	0.00	7.0	0.00	0.0	24.00	1.20	9.0	110	125	235	0.0	0.000	0.00	0.000	0.00	0.0
77	1990	05	S806614	MUDA	901015	1430	-370	0.0	0	7.2	2.0	30.0	0.00	0.15	0.20	0.00	0.00	11.0	0.00	0.0	14.00	1.50	21.0	55	50	105	0.0	0.000	0.00	0.000	0.00	0.0
78	1990	05	S806614	MUDA	901109	1430	70	0.0	0	6.5	2.0	30.0	0.00	0.08	0.15	0.00	0.00	11.0	0.00	0.0	24.00	1.50	10.0	90	90	180	0.0	0.000	0.00	0.000	0.00	0.0
79	1990	05	6007608	MUDA	900118	1550	10	5.0	0	7.1	1.0	25.0	0.00	0.13	0.10	0.00	0.00	7.0	0.00	0.0	5.00	0.08	25.0	25	55	80	0.0	0.000	0.00	-0.100	0.00	6.0
80	1990	05	6007608	MUDA	900221	1540	5	-25.0	0	7.3	1.0	20.0	0.00	0.24	0.10	0.00	0.00	8.0	0.00	0.0	17.00	-1.00	0.0	60	100	160	0.0	0.000	0.00	-0.100	0.00	4.0
81	1990	05	6007608	MUDA	900419	1600	70	72.0	0	7.3	4.0	30.0	0.00	0.15	0.10	0.00	0.00	7.0	0.00	0.0	3.00	0.01	17.0	30	65	95	0.0	0.000	0.00	0.000	0.00	2.0
82	1990	05	6007608	MUDA	900529	1615	5	33.0	0	7.5	5.0	25.0	0.00	0.15	0.15	0.00	0.00	11.0	0.00	0.0	0.00	0.03	24.0	25	50	75	0.0	0.000	0.00	0.000	0.00	4.0
83	1990	05	6007608	MUDA	900628	1545	10	0.0	0	7.1	1.0	20.0	0.00	0.25	0.10	0.00	0.00	10.0	0.00	0.0	2.00	0.05	51.0	40	70	110	0.0	0.000	0.00	0.000	0.00	0.0
84	1990	05	6007608	MUDA	900725	920	15	0.0	0	6.6	1.0	20.0	0.00	0.17	0.20	0.00	0.00	10.0	0.00	0.0	-21.00	0.03	48.0	20	55	75	0.0	0.000	0.00	0.000	0.00	0.0
85	1990	05	6007608	MUDA	900821	1000	70	0.0	0	6.7	2.0	20.0	0.00	0.17	0.20	0.00	0.00	10.0	0.00	0.0	2.00	-1.00	20.0	25	45	70	0.0	0.000	0.00	0.000	0.00	0.0
86	1990	05	6007608	MUDA	900917	1440	70	80.0	0	6.8	1.0	30.0	0.00	0.22	0.20	0.00	0.00	5.0	0.00	0.0	16.00	0.95	13.0	100	125	225	0.0	0.000	0.00	0.000	0.00	0.0
87	1990	05	6007608	MUDA	901015	1540	-370	0.0	0	7.2	2.0	30.0	0.00	0.17	0.10	0.00	0.00	13.0	0.00	0.0	12.00	0.26	13.0	15	70	85	0.0	0.000	0.00	0.000	0.00	0.0
88	1990	05	6007608	MUDA	901109	1540	70	0.0	0	6.3	1.0	20.0	0.00	0.20	0.25	0.00	0.00	17.0	0.00	0.0	16.00	0.26	11.0	40	100	140	0.0	0.000	0.00	0.000	0.00	0.0

TABLE 3.7(28)

	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH
1	CD	CR	CU	FE	PB	MG	MN	HG	NI	NA	ZN	DO	TEMP	SAL	PH	COND	TURS	COLI	COF	ALK	TKN	SI	NO3	K	AL	PEST	FCOF	SMPH
2	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	4.2	26	0.00	6.44	80	18.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Kelabu.
3	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.5	26	0.00	5.87	55	50.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Air kelabu.
4	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.6	25	0.00	6.33	110	11.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih, jernih.
5	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	4.2	27	0.00	6.44	50	0.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
6	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.5	24	0.00	6.60	50	0.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
7	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	4.2	25	0.00	6.83	48	26.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
8	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.6	23	0.00	0.00	50	44.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
9	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	4.5	23	0.00	6.00	60	28.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
10	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	4.8	27	0.00	6.00	50	48.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
11	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	4.8	28	0.00	5.00	40	0.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
12	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.1	27	0.00	6.00	40	144.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
13	0.000	0.00	0.00	0.00	0.00	1.40	0.00	-0.100	0.00	0.0	0.00	7.6	26	0.00	6.36	60	17.0	180000	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Kelabu.
14	0.000	0.00	0.00	0.60	0.00	2.00	0.00	0.000	0.00	0.0	0.00	7.5	25	0.00	5.65	55	53.0	25000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Kelabu.
15	0.000	0.00	0.00	-2.10	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.5	28	0.00	6.64	70	20.0	800	3500	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih, jernih.
16	0.000	0.00	0.00	0.80	0.00	1.00	0.00	0.000	0.00	0.0	0.00	5.2	27	0.00	6.62	60	0.0	13000	55000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
17	0.000	0.00	0.00	0.70	0.00	2.00	0.00	0.000	0.00	0.0	0.00	6.2	25	0.00	6.70	50	0.0	8000	25000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
18	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.2	25	0.00	6.85	50	33.0	25000	180000	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
19	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.0	23	0.00	0.00	50	35.0	35000	90000	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.4	23	0.00	6.00	60	38.0	900000	1800000	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
21	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	3.8	27	0.00	5.00	40	0.0	55000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
22	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.1	27	0.00	6.00	40	92.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
23	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.5	26	0.00	6.00	40	43.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
24	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.9	25	0.00	6.39	80	26.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Air kelabu.
25	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	3.8	26	0.00	6.75	50	30.0	8000	35000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Kelabu.
26	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.1	25	0.00	6.44	100	23.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	kelabu, bersih.
27	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.1	27	0.00	6.96	60	0.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
28	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.7	24	0.00	6.80	50	0.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih, jernih.
29	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.8	25	0.00	6.92	50	37.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
30	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.3	21	0.00	0.00	62	48.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
31	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.5	23	0.00	6.00	70	21.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
32	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	4.5	27	0.00	5.00	45	0.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
33	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.2	27	0.00	6.00	40	160.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
34	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.5	26	0.00	6.00	50	79.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
35	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.0	24	0.00	6.32	70	25.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Jernih.
36	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.2	23	0.00	6.16	70	23.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Kelabu.
37	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.8	23	0.00	6.80	70	134.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Keruh.
38	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.8	24	0.00	6.82	40	0.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
39	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.8	22	0.00	6.96	50	0.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih, jernih.
40	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.5	23	0.00	6.89	50	17.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
41	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.1	24	0.00	0.00	40	100.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
42	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.4	20	0.00	6.00	50	6.7	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
43	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.0	25	0.00	5.00	50	0.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
44	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.1	25	0.00	6.00	40	46.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
45	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	8.2	25	0.00	6.00	30	592.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	

WKAS_90.DBF

TABLE 3.7 (29)

	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH
46	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	4.6	25	0.00	6.62	110	18.0	160000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Jernih.
47	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	4.8	25	0.00	6.16	100	14.0	160000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Jernih.
48	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.9	24	0.00	6.81	90	65.0	35000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Kelabu,bersih.
49	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.5	25	0.00	6.10	100	0.0	90000	90000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
50	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.8	24	0.00	6.20	90	0.0	55000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih,jernih.
51	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.2	24	0.00	6.82	75	17.0	25000	180000	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
52	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.0	21	0.00	0.00	84	28.0	25000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
53	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.2	23	0.00	6.00	90	6.3	130000	250000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
54	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.5	27	0.00	6.00	80	0.0	55000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
55	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.3	26	0.00	6.00	70	41.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
56	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.5	25	0.00	6.00	60	336.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
57	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.5	25	0.00	6.00	60	144.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
58	0.000	0.00	0.00	0.00	0.00	2.00	0.00	0.000	0.00	0.0	0.00	7.5	24	0.00	6.72	100	19.0	25000	18000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Jernih.
59	0.000	0.00	0.00	0.60	0.00	6.00	0.00	0.000	0.00	0.0	0.00	7.2	25	0.00	6.57	110	7.3	180000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Jernih.
60	0.000	0.00	0.00	0.80	0.00	2.00	0.00	0.000	0.00	0.0	0.00	8.1	24	0.00	6.60	98	58.0	180000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Kelabu.
61	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.3	25	0.00	7.02	100	0.0	180000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
62	0.000	0.00	0.00	0.40	0.00	2.00	0.00	0.000	0.00	0.0	0.00	7.5	23	0.00	7.15	100	0.0	180000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih,jernih.
63	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.9	24	0.00	6.73	100	15.0	180000	180000	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
64	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.9	23	0.00	0.00	93	13.0	160000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
65	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.0	21	0.00	6.00	110	6.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
66	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.1	26	0.00	6.00	60	0.0	160000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
67	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.5	26	0.00	6.00	70	57.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
68	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.5	28	0.00	6.60	50	33.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Keroh.
69	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.1	29	0.00	6.20	50	52.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Keruh.
70	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.6	29	0.00	6.47	50	16.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Jernih,byksampah.
71	0.000	0.00	0.00	1.00	0.00	1.00	0.00	0.000	0.00	0.0	0.00	5.5	29	0.00	6.66	50	0.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
72	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.2	25	0.00	6.56	40	0.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih,jernih.
73	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.2	26	0.00	6.93	40	46.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
74	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.9	22	0.00	0.00	59	29.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
75	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	4.7	25	0.00	6.00	50	39.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
76	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.9	28	0.00	5.00	30	0.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
77	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.1	27	0.00	7.00	30	92.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
78	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.2	26	0.00	6.00	30	140.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
79	0.000	0.00	0.00	0.20	0.00	2.00	0.00	0.000	0.00	0.0	0.00	7.1	28	0.00	6.70	60	35.0	55000	55000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
80	0.000	0.00	0.00	1.40	0.00	2.00	0.00	0.000	0.00	0.0	0.00	4.8	30	0.00	6.44	65	90.0	25000	25000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	keruh.
81	0.000	0.00	0.00	1.10	0.00	2.00	0.00	0.000	0.00	0.0	0.00	6.6	29	0.00	6.84	60	0.0	8000	25000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Kelabu,bersih.
82	0.000	0.00	0.00	0.30	0.00	3.00	0.00	0.000	0.00	0.0	0.00	7.0	25	0.00	6.72	50	0.0	3500	3500	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	Bersih.
83	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.5	26	0.00	6.56	60	25.0	5000	25000	0.0	0.00	0.0	0.00	0.0	0.00	-0.100	0	
84	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.4	27	0.00	0.00	58	27.0	7000	35000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
85	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.3	23	0.00	6.00	60	28.0	5000	17000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
86	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.4	28	0.00	5.00	30	0.0	13000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
87	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.4	27	0.00	6.00	40	66.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	
88	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.1	26	0.00	6.00	40	95.0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	0	

WKAS_91.DBF

TABLE 3.7 (30)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1	WKA	SNO	SUNGAI	DT	TIME	COL	TUR	CONDL	PHL	BOD	COD	ALN	AN	NAN	NO2	TN	CL	F	CN	SO4	P	HARD	SS	DS	TS	OG	PHE	MBAS	AS
2	05	5504602	MUDA	910121	1100	10	0.0	0	7.2	2.0	20.0	0.00	0.08	0.25	0.00	0.00	10.0	14.00	0.0	14.00	0.07	25.0	80	410	490	0.0	0.000	0.00	0.000
3	05	5504602	MUDA	910211	1145	5	21.0	0	6.9	2.0	20.0	0.00	0.25	0.15	0.00	0.00	10.0	0.00	0.0	15.00	0.04	20.0	10	100	110	0.0	0.000	0.00	0.000
4	05	5504602	MUDA	910311	1130	10	25.0	0	7.4	2.0	30.0	0.00	0.13	0.40	0.00	0.00	7.0	0.00	0.0	20.00	-1.00	20.0	100	510	610	0.0	0.000	0.00	0.000
5	05	5504602	MUDA	910425	1010	70	0.0	0	7.5	1.0	20.0	0.00	0.15	0.30	0.00	0.00	4.0	0.00	0.0	19.00	0.00	25.0	45	65	110	0.0	0.000	0.00	0.000
6	05	5504602	MUDA	910522	950	70	0.0	0	7.6	1.0	20.0	0.00	0.17	0.35	0.00	0.00	10.0	0.00	0.0	20.00	0.43	15.0	125	145	270	0.0	0.000	0.00	0.000
7	05	5504602	MUDA	910611	1010	25	0.0	0	7.3	1.0	20.0	0.00	0.20	0.25	0.00	0.00	10.0	0.00	0.0	10.00	0.63	20.0	30	80	110	0.0	0.000	0.00	0.000
8	05	5504602	MUDA	910815	1100	5	0.0	0	7.1	2.0	30.0	0.00	0.17	0.30	0.00	0.00	4.0	0.00	0.0	16.00	0.13	20.0	30	60	90	0.0	0.000	0.00	0.000
9	05	5505603	MUDA	910121	1150	5	0.0	0	7.3	2.0	20.0	0.00	0.18	0.25	0.00	0.00	6.0	0.00	0.0	18.00	0.03	20.0	15	45	60	0.0	0.000	0.00	0.000
10	05	5505603	MUDA	910211	1225	5	22.0	0	7.0	3.0	30.0	0.00	0.43	0.10	0.00	0.00	9.0	0.00	0.0	11.00	0.13	15.0	10	120	130	0.0	0.000	0.00	-0.100
11	05	5505603	MUDA	910311	1030	10	32.0	0	7.4	1.0	20.0	0.00	0.19	0.35	0.00	0.00	5.0	0.00	0.0	24.00	0.02	15.0	40	110	150	0.0	0.000	0.00	0.000
12	05	5505603	MUDA	910425	1045	70	0.0	0	7.3	1.0	20.0	0.00	0.24	0.25	0.00	0.00	4.0	0.00	0.0	25.00	0.04	20.0	40	75	115	0.0	0.000	0.00	0.000
13	05	5505603	MUDA	910523	1455	70	0.0	0	7.6	1.0	25.0	0.00	0.26	0.30	0.00	0.00	3.0	0.00	0.0	26.00	0.02	10.0	115	120	235	0.0	0.000	0.00	0.000
14	05	5505603	MUDA	910611	1030	15	0.0	0	7.4	2.0	30.0	0.00	0.26	0.25	0.00	0.00	5.0	0.00	0.0	15.00	0.05	20.0	20	70	90	0.0	0.000	0.00	0.000
15	05	5505603	MUDA	910815	1125	5	0.0	0	6.8	1.0	20.0	0.00	0.25	0.01	0.00	0.00	60.0	0.00	0.0	1.00	1.00	15.0	95	85	180	0.0	0.000	0.00	0.000
16	05	5506604	MUDA	910122	1610	5	0.0	0	7.2	1.0	20.0	0.00	0.23	0.20	0.00	0.00	4.0	0.00	0.0	11.00	0.23	20.0	15	45	60	0.0	0.000	0.00	0.000
17	05	5506604	MUDA	910211	1325	5	0.0	0	7.1	1.0	15.0	0.00	0.19	0.20	0.00	0.00	8.0	0.00	0.0	11.00	0.04	15.0	20	115	135	0.0	0.000	0.00	0.000
18	05	5506604	MUDA	910312	1220	5	18.0	0	7.5	5.0	20.0	0.00	0.12	0.00	0.30	0.00	4.0	0.00	0.0	28.00	0.00	20.0	40	115	155	0.0	0.000	0.00	0.000
19	05	5506604	MUDA	910425	1115	70	0.0	0	7.3	1.0	25.0	0.00	0.26	0.30	0.00	0.00	4.0	0.00	0.0	27.00	0.01	25.0	25	170	195	0.0	0.000	0.00	0.000
20	05	5506604	MUDA	910523	330	70	0.0	0	7.4	1.0	25.0	0.00	0.23	0.25	0.00	0.00	6.0	0.00	0.0	30.00	0.00	15.0	65	75	140	0.0	0.000	0.00	0.000
21	05	5506604	MUDA	910611	1115	30	0.0	0	7.3	1.0	20.0	0.00	0.30	0.30	0.00	0.00	6.0	0.00	0.0	15.00	0.09	15.0	15	65	80	0.0	0.000	0.00	0.000
22	05	5506604	MUDA	910815	440	5	0.0	0	7.0	1.0	30.0	0.00	0.13	0.35	0.00	0.00	50.0	0.00	0.0	0.00	0.11	20.0	95	85	180	0.0	0.000	0.00	0.000
23	05	5607606	TAWAR	910122	1530	30	0.0	0	7.3	2.0	20.0	0.00	0.46	0.80	0.00	0.00	4.0	0.00	0.0	11.00	0.15	10.0	25	60	85	0.0	0.000	0.00	0.000
24	05	5607606	TAWAR	910211	1350	5	14.0	0	7.3	2.0	25.0	0.00	1.30	0.90	0.00	0.00	10.0	0.00	0.0	9.00	0.28	15.0	20	105	125	0.0	0.000	0.00	0.000
25	05	5607606	TAWAR	910312	100	5	16.0	0	9.2	2.0	20.0	0.00	1.40	0.90	0.00	0.00	4.0	0.00	0.0	27.00	0.18	20.0	15	915	930	0.0	0.000	0.00	0.000
26	05	5607606	TAWAR	910425	1150	70	0.0	0	7.2	1.0	20.0	0.00	0.85	0.35	0.00	0.00	6.0	0.00	0.0	21.00	0.03	20.0	100	85	185	0.0	0.000	0.00	0.000
27	05	5607606	TAWAR	910523	250	5	0.0	0	7.3	1.0	20.0	0.00	0.22	0.25	0.00	0.00	1.0	0.00	0.0	21.00	0.16	15.0	95	50	145	0.0	0.000	0.00	0.000
28	05	5607606	TAWAR	910611	350	15	0.0	0	7.3	1.0	20.0	0.00	0.40	0.25	0.00	0.00	5.0	0.00	0.0	10.00	0.17	20.0	50	110	160	0.0	0.000	0.00	0.000
29	05	5607606	TAWAR	910815	1605	5	0.0	0	7.2	1.0	40.0	0.00	1.20	0.70	0.00	0.00	8.0	0.00	0.0	26.00	0.13	15.0	40	65	105	0.0	0.000	0.00	0.000
30	05	5608605	KETIL	910122	1500	5	0.0	0	7.3	2.0	30.0	0.00	0.10	0.15	0.00	0.00	5.0	0.00	0.0	12.00	0.48	35.0	35	80	115	0.0	0.000	0.00	0.000
31	05	5608605	KETIL	910211	1400	5	8.7	0	7.2	1.0	20.0	0.00	0.28	0.20	0.00	0.00	9.0	0.00	0.0	16.00	0.23	40.0	45	120	165	0.0	0.000	0.00	0.000
32	05	5608605	KETIL	910312	125	5	6.9	0	7.6	2.0	20.0	0.00	0.58	0.20	0.00	0.00	6.0	0.00	0.0	27.00	0.01	30.0	20	95	115	0.0	0.000	0.00	0.000
33	05	5608605	KETIL	910425	1200	70	0.0	0	7.1	1.0	30.0	0.00	0.23	0.25	0.00	0.00	6.0	0.00	0.0	19.00	0.17	25.0	50	60	110	0.0	0.000	0.00	0.000
34	05	5608605	KETIL	910523	1425	60	0.0	0	7.3	2.0	45.0	0.91	0.40	0.00	0.00	0.00	4.0	0.00	2.4	0.00	0.04	35.0	45	90	135	0.0	0.000	0.00	0.000
35	05	5608605	KETIL	910611	310	5	0.0	0	7.3	2.0	40.0	0.00	0.90	0.35	0.00	0.00	8.0	0.00	0.0	10.00	0.04	30.0	20	70	90	0.0	0.000	0.00	0.000
36	05	5608605	KETIL	910815	1530	5	0.0	0	7.3	2.0	30.0	0.00	0.13	0.10	0.00	0.00	4.0	0.00	0.0	15.00	0.12	40.0	80	65	145	0.0	0.000	0.00	0.000
37	05	5608605	KETIL	910815	1530	5	0.0	0	7.1	5.0	30.0	0.00	0.66	0.25	0.00	0.00	5.0	0.00	0.0	1.00	0.12	30.0	70	80	150	0.0	0.000	0.00	0.000
38	05	5609609	KETIL	910122	1415	5	0.0	0	7.4	1.0	20.0	0.00	0.20	0.05	0.00	0.00	3.0	0.00	0.0	16.00	0.36	50.0	30	100	130	0.0	0.000	0.00	0.000
39	05	5609609	KETIL	910211	1430	5	6.5	0	7.2	1.0	20.0	0.00	0.40	0.10	0.00	0.00	10.0	0.00	0.0	11.00	0.09	25.0	65	145	210	0.0	0.000	0.00	-0.100

TABLE 3.7 (51)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
40	05	5609609	KETIL	910312	200	5	6.8	0	8.2	2.0	20.0	0.00	0.13	0.10	0.00	0.00	6.0	0.00	0.0	26.00	0.04	25.0	30	65	95	0.0	0.000	0.00	0.000
41	05	5609609	KETIL	910425	1250	70	0.0	0	7.2	1.0	30.0	0.00	0.33	0.20	0.00	0.00	8.0	0.00	0.0	29.00	0.02	35.0	30	155	185	0.0	0.000	0.00	0.000
42	05	5609609	KETIL	910523	1255	10	0.0	0	7.1	1.0	20.0	0.00	0.12	0.15	0.00	0.00	4.0	0.00	0.0	48.00	0.04	30.0	60	85	145	0.0	0.000	0.00	0.000
43	05	5609609	KETIL	910611	1440	10	0.0	0	7.2	1.0	20.0	0.00	0.15	0.20	0.00	0.00	5.0	0.00	0.0	19.00	0.06	25.0	30	105	135	0.0	0.000	0.00	0.000
44	05	5806614	MUDA	0	1140	70	0.0	0	7.3	1.0	25.0	0.00	0.23	0.20	0.00	0.00	4.0	0.00	0.0	44.00	0.02	10.0	90	105	195	0.0	0.000	0.00	0.000
45	05	5806614	MUDA	910122	1310	10	0.0	0	7.6	1.0	15.0	0.00	0.08	0.15	0.00	0.00	5.0	0.00	0.0	16.00	0.29	10.0	30	85	115	0.0	0.000	0.00	0.000
46	05	5806614	MUDA	910211	1600	10	39.0	0	7.5	2.0	25.0	0.00	0.12	0.15	0.00	0.00	7.0	0.00	0.0	9.00	0.02	15.0	60	115	175	0.0	0.000	0.00	0.000
47	05	5806614	MUDA	910312	345	5	25.0	0	8.0	1.0	20.0	0.00	0.13	0.10	0.00	0.00	3.0	0.00	0.0	27.00	0.01	15.0	20	65	85	0.0	0.000	0.00	0.000
48	05	5806614	MUDA	910425	150	0	0.0	0	7.2	2.0	20.0	0.00	0.10	0.15	0.00	0.00	5.0	0.00	0.0	19.00	0.04	25.0	50	75	100	0.0	0.000	0.00	0.000
49	05	5806614	MUDA	910611	145	15	0.0	0	6.9	1.0	30.0	0.00	0.26	0.25	0.00	0.00	8.0	0.00	0.0	20.00	0.09	15.0	20	15	85	0.0	0.000	0.00	0.000
50	05	5806614	MUDA	910815	1350	5	0.0	0	7.6	1.0	20.0	0.00	0.12	0.10	0.00	0.00	4.0	0.00	0.0	18.00	0.12	20.0	75	65	140	0.0	0.000	0.00	0.000
51	05	6007608	MUDA	910122	1100	10	0.0	0	7.3	1.0	20.0	0.00	0.74	0.20	0.00	0.00	7.0	0.00	0.0	11.00	0.26	20.0	125	470	595	0.0	0.000	0.00	0.000
52	05	6007608	MUDA	910211	1645	10	40.0	0	7.4	2.0	30.0	0.00	0.15	0.20	0.00	0.00	7.0	0.00	0.0	9.00	0.02	20.0	70	110	180	0.0	0.000	0.00	0.000
53	05	6007608	MUDA	910312	430	5	9.0	0	7.9	3.0	30.0	0.00	1.40	0.90	0.00	0.00	7.0	0.00	0.0	29.00	0.18	15.0	30	50	80	0.0	0.000	0.00	0.000
54	05	6007608	MUDA	910425	305	70	0.0	0	7.2	1.0	25.0	0.00	0.23	0.20	0.00	0.00	6.0	0.00	0.0	29.00	0.63	25.0	45	80	125	0.0	0.000	0.00	0.000
55	05	6007608	MUDA	910523	1050	60	0.0	0	7.4	1.0	20.0	0.00	0.33	0.25	0.00	0.00	3.0	0.00	0.0	51.00	0.05	10.0	40	100	140	0.0	0.000	0.00	0.000
56	05	6007608	MUDA	910611	1250	15	0.0	0	6.9	1.0	20.0	0.00	0.38	0.25	0.00	0.00	10.0	0.00	0.0	16.00	0.50	15.0	50	65	115	0.0	0.000	0.00	0.000
57	05	6007608	MUDA	910815	1300	5	0.0	0	7.2	1.0	20.0	0.00	0.17	0.15	0.00	0.00	4.0	0.00	0.0	1.00	0.12	20.0	50	45	95	0.0	0.000	0.00	0.000
58	05	5504602	MUDA	910717	1000	30			7.6	1.0	30.0		0.10	0.15			7.0			19.00	0.66	20.0	30	70	100				
59	05	5505603	MUDA	910718	330	20			7.5	1.0	25.0		0.12	0.15			5.0			25.00	0.06	20.0	20	215	235				
60	05	5506604	MUDA	910718	245	10			7.5	2.0	20.0		0.08	0.15			5.0			13.00	0.07	15.0	10	305	315				
61	05	5608605	KETIL	910718	125	5			7.3	1.0	20.0		0.20	0.20	0.00					21.00	0.44	25.0	45	200	245				
62	05	5607606	TAWAR	910718	200	10			7.4	1.0	50.0	1.30	0.30				7.0			19.00	0.04	20.0	35	130	165				
63	05	6007608	MUDA	910718	1015	70			7.5	5.0	30.0		0.10	0.15			9.0	0.00		29.00	0.18	15.0	65	95	160				
64	05	5690605	KETIL	910718	1240	10			7.7	2.0	30.0		0.13	0.10			6.0			19.00	0.06	25.0	115	235	350				
65	05	5806614	MUDA	910718	1200	70			8.0	1.0	20.0		0.10	0.15			3.0			29.00	0.05	15.0	20	220	240				

TABLE 3.7 (52)

	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
1	B	CA	CD	CR	CU	FE	PB	MG	MN	HG	NI	NA	ZN	DO	TEMP	SAL	PH	TURS	COND	COLI	COF	ALK	TKN	SI	NO3	K	AL	PEST	SMPH
2	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	5.4	29	0.00	5.00	24.0	90	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
3	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.3	31	0.00	6.00	0.0	410	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
4	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.5	31	0.00	7.74	25.0	60	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
5	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
6	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
7	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
8	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
9	0.00	0.0	0.000	0.04	0.00	0.60	0.40	0.00	0.00	0.000	0.00	0.0	0.00	5.4	29	0.00	5.00	18.0	80	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
10	0.00	3.0	0.000	0.00	0.00	0.60	0.00	2.00	0.00	-0.100	0.00	0.0	0.00	5.4	30	0.00	6.00	0.0	80	5500	5500	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
11	0.00	4.0	0.000	0.00	0.00	0.40	0.00	2.00	0.00	0.000	0.00	0.0	0.00	6.0	29	0.00	7.26	0.0	60	1300	2250	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
12	0.00	5.0	0.010	0.00	0.00	0.10	0.00	2.00	0.00	0.010	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	25000	35000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
13	0.00	2.0	0.010	0.01	0.00	0.60	0.03	1.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	1700	13000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
14	0.00	6.0	0.010	0.01	0.00	0.60	0.02	2.00	0.00	0.010	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	3500	25000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
15	0.00	3.0	0.010	0.01	0.00	0.40	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
16	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.5	30	0.00	6.00	21.0	70	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
17	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.4	30	0.00	6.00	0.0	100	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
18	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.2	29	0.00	8.13	0.0	70	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
19	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
20	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
21	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
22	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
23	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.2	27	0.00	5.00	51.0	40	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
24	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.1	28	0.00	6.00	0.0	70	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
25	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.8	27	0.00	7.32	0.0	70	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
26	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
27	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
28	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
29	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
30	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.8	28	0.00	5.00	33.0	90	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
31	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.1	29	0.00	6.00	0.0	120	18000	18000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
32	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.6	29	0.00	7.78	0.0	120	170	200	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
33	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	160000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
34	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	5000	2500	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
35	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
36	0.00	14.0	0.010	0.01	0.00	0.10	0.01	1.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
37	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
38	0.00	0.0	0.000	0.04	0.00	0.40	0.80	0.00	0.00	0.000	0.00	0.0	0.00	8.0	27	0.00	5.00	7.5	120	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
39	0.00	10.0	0.000	0.00	0.00	0.60	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.0	29	0.00	6.00	0.0	140	18000	18000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	

WKA5_91.DBF

TABLE 3.7(33)

	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
40	0.00	9.0	0.000	0.00	0.00	0.40	0.01	2.00	0.00	0.001	0.00	0.0	0.00	7.8	29	0.00	7.00	0.0	140	18000	18000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
41	0.00	10.0	0.010	0.01	0.00	0.60	0.00	2.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	180000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
42	0.00	5.0	0.010	0.01	0.00	0.60	0.02	4.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	35000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
43	0.00	5.0	0.000	0.01	0.00	0.60	0.00	3.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	160000	180000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
44	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
45	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.2	29	0.00	6.00	19.0	60	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
46	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.2	31	0.00	6.00	0.0	45	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
47	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	7.5	30	0.00	7.00	0.0	70	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
48	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
49	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
50	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
51	0.00	0.0	0.000	0.04	0.00	0.40	0.20	0.00	0.00	0.000	0.00	0.0	0.00	7.4	28	0.00	5.00	10.0	80	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
52	0.00	0.0	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.0	0.00	6.8	30	0.00	6.00	0.0	50	9000	9000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
53	0.00	4.0	0.000	0.00	0.00	0.40	0.03	2.00	0.00	0.004	0.00	0.0	0.00	7.8	29	0.00	7.00	70.0	70	50	50	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
54	0.00	6.0	0.010	0.01	0.00	0.20	0.00	2.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	25000	90000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
55	0.00	1.0	0.010	0.01	0.00	0.30	0.02	2.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	3500	8000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
56	0.00	4.0	0.010	0.01	0.00	0.40	0.03	2.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	8000	35000	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
57	0.00	4.0	0.010	0.01	0.00	0.40	0.01	2.00	0.00	0.000	0.00	0.0	0.00	0.0	0	0.00	0.00	0.0	0	0	0	0.0	0.00	0.0	0.00	0.0	0.00	0.000	
58																													
59		5.0	0.010	0.01		1.00	0.03	2.00																					
60																													
61																													
62																													
63		4.0	0.010	0.01		1.40	0.02	1.00																					
64		4.0	0.010	0.03		2.80	0.02	3.00																					
65																													

WKA5_92.DBF

TABLE 3.7(34)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	NEGERI	WKA	SNO	SUNGAI	SMP_DATE	DT	TIME	COL	TUR_L	CONDL	PHL	BOD	COD	ALN	AN	NAN	NO2	TN	CL	F	CN	SO2	SO4	P	HARD	SS
2	KEDAH	05	5504602	MUDA	4/21/92	920421	1230	5.000	0.000	0.000	6.000	1.000	40.000	0.000	0.190	0.300	0.000	0.000	5.000	0.000	0.000	0.000	18.000	0.4300	20.000	20.000
3	KEDAH	05	5504602	MUDA	5/26/92	920526	1425	70.000	0.000	0.000	5.500	1.000	20.000	0.000	0.020	0.300	0.000	0.000	6.000	0.000	0.000	0.000	16.000	0.1900	20.000	40.000
4	KEDAH	05	5504602	MUDA	6/16/92	920616	1340	60.000	0.000	0.000	6.000	1.000	20.000	0.000	0.060	0.300	0.000	0.000	5.000	0.000	0.000	0.000	20.000	0.1300	20.000	40.000
5	KEDAH	05	5504602	MUDA	7/25/92	920725	1630	15.000	0.000	0.000	5.500	1.000	25.000	0.000	0.050	0.500	0.000	0.000	5.000	0.000	0.000	0.000	7.000	0.2500	19.000	40.000
6	KEDAH	05	5504602	MUDA	8/28/92	920928	1830	70.000	0.000	0.000	6.000	1.000	20.000	0.000	0.130	0.550	0.000	0.000	2.000	0.000	0.000	0.000	18.000	0.1000	10.000	225.000
7	KEDAH	05	5504602	MUDA	9/14/92	920914	905	70.000	0.000	0.000	6.000	1.000	15.000	0.000	0.150	0.500	0.000	0.000	4.000	0.000	0.000	0.000	23.000	0.1400	15.000	25.000
8	KEDAH	05	5505603	MUDA	4/21/92	920421	1145	5.000	0.000	0.000	6.000	1.000	30.000	0.000	0.150	0.450	0.000	0.000	5.000	0.000	0.000	0.000	18.000	0.2600	15.000	20.000
9	KEDAH	05	5505603	MUDA	5/26/92	920526	1330	70.000	0.000	0.000	6.500	1.000	15.000	0.000	0.080	0.500	0.000	0.000	8.000	0.000	0.000	0.000	16.000	0.4200	20.000	50.000
10	KEDAH	05	5505603	MUDA	6/16/92	920616	1250	50.000	0.000	0.000	6.000	1.000	20.000	0.000	0.140	0.500	0.000	0.000	5.000	0.000	0.000	0.000	21.000	0.1000	20.000	95.000
11	KEDAH	05	5505603	MUDA	7/25/92	920725	1530	20.000	0.000	0.000	5.000	1.000	20.000	0.000	0.070	0.400	0.000	0.000	2.000	0.000	0.000	0.000	10.000	0.0100	20.000	35.000
12	KEDAH	05	5505603	MUDA	8/28/92	920928	1715	70.000	0.000	0.000	6.000	1.000	20.000	0.000	0.090	0.950	0.000	0.000	7.000	0.000	0.000	0.000	18.000	0.1700	10.000	255.000
13	KEDAH	05	5505603	MUDA	9/14/92	920914	830	50.000	0.000	0.000	6.000	1.000	20.000	0.000	0.090	0.900	0.000	0.000	3.000	0.000	0.000	0.000	24.000	0.1300	20.000	35.000
14	KEDAH	05	5506604	MUDA	4/21/92	920421	1030	10.000	0.000	0.000	5.500	1.000	40.000	0.000	0.080	0.500	0.000	0.000	3.000	0.000	0.000	0.000	18.000	0.1900	55.000	35.000
15	KEDAH	05	5506604	MUDA	5/26/92	920526	1215	0.000	0.000	0.000	6.000	1.000	20.000	0.000	0.030	0.350	0.000	0.000	3.000	0.000	0.000	0.000	15.000	0.3100	40.000	35.000
16	KEDAH	05	5506604	MUDA	6/16/92	920616	1110	70.000	0.000	0.000	6.000	1.000	20.000	0.000	0.060	0.600	0.000	0.000	2.000	0.000	0.000	0.000	21.000	0.1000	15.000	180.000
17	KEDAH	05	5506604	MUDA	7/25/92	920725	1155	20.000	0.000	0.000	5.500	1.000	20.000	0.000	0.050	0.450	0.000	0.000	4.000	0.000	0.000	0.000	13.000	0.2600	27.000	30.000
18	KEDAH	05	5506604	MUDA	8/28/92	920828	1615	70.000	0.000	0.000	6.000	1.000	20.000	0.000	0.140	0.150	0.000	0.000	3.000	0.000	0.000	0.000	17.000	0.1700	10.000	140.000
19	KEDAH	05	5506604	MUDA	9/13/92	920913	1720	50.000	0.000	0.000	6.000	1.000	15.000	0.000	0.150	0.200	0.000	0.000	2.000	0.000	0.000	0.000	24.000	0.1900	20.000	30.000
20	KEDAH	05	5506604	MUDA	11/7/92	921107	1915	60.000	0.000	0.000	6.000	1.000	15.000	0.000	0.030	0.200	0.000	0.000	3.000	0.000	0.000	0.000	8.000	0.0600	20.000	25.000
21	KEDAH	05	5607606	TAWAR	4/21/92	920421	945	10.000	0.000	0.000	5.500	1.000	40.000	0.000	0.230	0.300	0.000	0.000	3.000	0.000	0.000	0.000	18.000	0.4900	10.000	15.000
22	KEDAH	05	5607606	TAWAR	5/26/92	920526	1120	40.000	0.000	0.000	6.000	2.000	30.000	0.000	0.030	1.800	0.000	0.000	4.000	0.000	0.000	0.000	17.000	0.5100	20.000	15.000
23	KEDAH	05	5607606	TAWAR	6/14/92	920614	1615	15.000	0.000	0.000	6.000	0.050	1.000	0.000	2.200	2.200	0.000	0.000	4.000	0.000	0.000	0.000	19.000	0.1000	15.000	30.000
24	KEDAH	05	5607606	TAWAR	7/25/92	920725	1315	15.000	0.000	0.000	6.000	2.000	40.000	0.000	1.100	1.600	0.000	0.000	4.000	0.000	0.000	0.000	12.000	0.2600	24.000	25.000
25	KEDAH	05	5607606	TAWAR	8/28/92	920928	1530	70.000	0.000	0.000	6.000	2.000	20.000	0.000	0.190	0.350	0.000	0.000	3.000	0.000	0.000	0.000	19.000	0.1900	10.000	255.000
26	KEDAH	05	5607606	TAWAR	9/13/92	920913	1640	35.000	0.000	0.000	6.500	3.000	30.000	0.000	0.200	0.350	0.000	0.000	1.000	0.000	0.000	0.000	21.000	0.0500	15.000	10.000
27	KEDAH	05	5607606	TAWAR	11/7/92	921107	1830	30.000	0.000	0.000	6.000	1.000	15.000	0.000	0.180	0.200	0.000	0.000	5.000	0.000	0.000	0.000	6.000	0.2200	15.000	25.000
28	KEDAH	05	5608605	KETIL	4/21/92	920421	1415	5.000	0.000	0.000	6.000	1.000	30.000	0.000	0.300	2.200	0.000	0.000	4.000	0.000	0.000	0.000	17.000	0.2900	20.000	15.000
29	KEDAH	05	5608605	KETIL	5/25/92	920525	1430	50.000	0.000	0.000	6.500	1.000	20.000	0.000	0.020	0.100	0.000	0.000	3.000	0.000	0.000	0.000	17.000	0.6000	45.000	0.000
30	KEDAH	05	5608605	KETIL	6/14/92	920614	1545	10.000	0.000	0.000	6.000	1.000	20.000	0.000	0.030	0.350	0.000	0.000	3.000	0.000	0.000	0.000	19.000	0.0800	20.000	30.000
31	KEDAH	05	5608605	KETIL	7/25/92	920725	1530	10.000	0.000	0.000	5.500	1.000	25.000	0.000	0.070	0.200	0.000	0.000	3.000	0.000	0.000	0.000	10.000	0.3400	53.000	30.000
32	KEDAH	05	5608605	KETIL	8/28/92	920928	1500	70.000	0.000	0.000	6.000	1.000	20.000	0.000	0.060	0.400	0.000	0.000	3.000	0.000	0.000	0.000	19.000	0.2500	20.000	195.000
33	KEDAH	05	5608605	KETIL	9/13/92	920913	1600	50.000	0.000	0.000	6.000	1.000	20.000	0.000	0.070	0.400	0.000	0.000	2.000	0.000	0.000	0.000	20.000	0.0500	40.000	45.000
34	KEDAH	05	5608605	KETIL	11/7/92	921107	1800	30.000	0.000	0.000	6.000	1.000	15.000	0.000	0.030	0.100	0.000	0.000	3.000	0.000	0.000	0.000	6.000	0.1500	35.000	40.000
35	KEDAH	05	5609609	KETIL	4/20/92	920420	1315	15.000	0.000	0.000	6.000	1.000	20.000	0.000	0.100	0.100	0.000	0.000	3.000	0.000	0.000	0.000	17.000	0.4100	20.000	25.000
36	KEDAH	05	5609609	KETIL	5/25/92	920525	1500	50.000	0.000	0.000	6.500	1.000	25.000	0.000	0.020	0.600	0.000	0.000	3.000	0.000	0.000	0.000	17.000	0.1900	11.000	20.000
37	KEDAH	05	5609609	KETIL	6/14/92	920614	1410	5.000	0.000	0.000	6.000	1.000	15.000	0.000	0.050	0.600	0.000	0.000	2.000	0.000	0.000	0.000	19.000	0.1100	45.000	10.000
38	KEDAH	05	5609609	KETIL	7/25/92	920725	1430	10.000	0.000	0.000	5.000	1.000	30.000	0.000	0.110	0.100	0.000	0.000	3.000	0.000	0.000	0.000	10.000	0.1900	55.000	25.000
39	KEDAH	05	5609609	KETIL	8/28/92	920928	1430	70.000	0.000	0.000	6.000	1.000	20.000	0.000	0.040	0.350	0.000	0.000	3.000	0.000	0.000	0.000	18.000	0.1800	20.000	230.000
40	KEDAH	05	5609609	KETIL	9/13/92	920913	1400	40.000	0.000	0.000	7.000	1.000	15.000	0.000	0.050	0.300	0.000	0.000	3.000	0.000	0.000	0.000	21.000	0.0600	45.000	25.000
41	KEDAH	05	5609609	KETIL	11/7/92	921107	1700	20.000	0.000	0.000	6.000	1.000	15.000	0.000	0.090	0.100	0.000	0.000	3.000	0.000	0.000	0.000	4.000	0.1900	45.000	30.000
42	KEDAH	05	5806614	MUDA	4/20/92	920420	1140	10.000	0.000	0.000	5.500	3.000	30.000	0.000	0.120	0.300	0.000	0.000	6.000	0.000	0.000	0.000	18.000	0.3200	45.000	50.000
43	KEDAH	05	5806614	MUDA	5/25/92	920525	1330	20.000	0.000	0.000	5.500	1.000	20.000	0.000	0.040	0.200	0.000	0.000	5.000	0.000	0.000	0.000	17.000	0.2500	35.000	35.000
44	KEDAH	05	5806614	MUDA	6/14/92	920614	1305	15.000	0.000	0.000	7.000	1.000	20.000	0.000	0.120	0.250	0.000	0.000	2.000	0.000	0.000	0.000	23.000	0.1900	15.000	35.000
45	KEDAH	05	5806614	MUDA	7/25/92	920725	1120	20.000	0.000	0.000	5.000	1.000	30.000	0.000	0.030	0.100	0.000	0.000	4.000	0.000	0.000	0.000	9.000	0.1000	19.000	20.000

TABLE 3.7(35)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
46	KEDAH	05	5806614	MUDA	8/28/92	920928	1230	70.000	0.000	0.000	6.000	2.000	30.000	0.000	0.090	0.150	0.000	0.000	4.000	0.000	0.000	0.000	19.000	0.2100	10.000	130.000
47	KEDAH	05	5806614	MUDA	9/13/92	920913	1250	40.000	0.000	0.000	6.000	1.000	20.000	0.000	0.120	0.300	0.000	0.000	3.000	0.000	0.000	0.000	23.000	0.0500	10.000	10.000
48	KEDAH	05	5806614	MUDA	11/7/92	921107	1540	60.000	0.000	0.000	6.000	1.000	15.000	0.000	0.180	0.250	0.000	0.000	3.000	0.000	0.000	0.000	3.000	0.2000	15.000	35.000
49	KEDAH	05	6007608	MUDA	4/20/92	920420	1040	15.000	0.000	0.000	6.000	1.000	30.000	0.000	0.310	0.200	0.000	0.000	3.000	0.000	0.000	0.000	17.000	0.2900	20.000	15.000
50	KEDAH	05	6007608	MUDA	5/25/92	920525	1230	40.000	0.000	0.000	6.000	1.000	20.000	0.000	0.030	0.050	0.000	0.000	5.000	0.000	0.000	0.000	18.000	0.5900	20.000	10.000
51	KEDAH	05	6007608	MUDA	6/14/92	920614	1105	10.000	0.000	0.000	7.000	1.000	15.000	0.000	0.130	0.200	0.000	0.000	3.000	0.000	0.000	0.000	28.000	0.2500	15.000	20.000
52	KEDAH	05	6007608	MUDA	7/25/92	920725	1220	10.000	0.000	0.000	6.000	1.000	20.000	0.000	0.020	0.150	0.000	0.000	7.000	0.000	0.000	0.000	13.000	0.1300	25.000	20.000
53	KEDAH	05	6007608	MUDA	8/28/92	920828	1030	70.000	0.000	0.000	6.000	2.000	30.000	0.000	0.040	0.350	0.000	0.000	30.000	0.000	0.000	0.000	16.000	0.2000	20.000	70.000
54	KEDAH	05	6007608	MUDA	9/13/92	920913	1115	35.000	0.000	0.000	6.000	1.000	20.000	0.000	0.050	0.300	0.000	0.000	2.000	0.000	0.000	0.000	30.000	0.0600	15.000	30.000
55	KEDAH	05	6007608	MUDA	11/7/92	921107	1330	60.000	0.000	0.000	6.000	1.000	15.000	0.000	0.030	0.150	0.000	0.000	15.000	0.000	0.000	0.000	6.000	0.0000	15.000	15.000

TABLE 3.7(36)

	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU
1	DS	TS	OG	PHE	MBAS	AS	B	CA	CD	CR	CU	FE	PB	MG	MN	HG	NI	NA	ZN	DO	TEMP
2	115.000	135.000	0.000	0.0000000	0.000	-2.00000	0.00000	-2.00000	0.00000	0.00000	0.00000	-2.00000	0.00000	-2.00000	0.00000	0.00000	0.00000	0.00000	0.00000	3.600	33.000
3	85.000	125.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	5.000	32.000
4	185.000	225.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	4.200	30.000
5	30.000	70.000	-2.000	-2.0000000	0.000	-2.00000	0.00000	-2.00000	-2.00000	-2.00000	0.00000	-2.00000	-2.00000	-2.00000	0.00000	-2.00000	0.00000	0.00000	0.00000	4.300	28.000
6	230.000	455.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	3.800	26.000
7	70.000	95.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	4.200	29.000
8	100.000	120.000	0.000	0.0000000	0.000	-1.00000	0.00000	2.00000	-1.01000	0.01000	0.00000	0.60000	0.03000	2.00000	0.00000	0.05000	0.00000	0.00000	0.00000	3.500	32.000
9	100.000	150.000	0.000	0.0000000	0.000	-1.00000	0.00000	2.00000	-1.00000	-1.00000	0.00000	0.40000	-1.00000	3.00000	0.00000	-1.00000	0.00000	0.00000	0.00000	5.100	30.000
10	70.000	165.000	0.000	0.0000000	0.000	-1.00000	0.00000	0.00000	-1.01000	-1.01000	0.00000	1.00000	-1.01000	0.00000	0.00000	-1.01000	0.00000	0.00000	0.00000	4.800	29.000
11	40.000	75.000	-2.000	-2.0000000	0.000	-1.00000	0.00000	-2.00000	-1.00000	-1.00000	0.00000	0.60000	-1.01000	5.00000	0.00000	-1.00000	0.00000	0.00000	0.00000	3.900	28.000
12	70.000	325.000	0.000	0.0000000	0.000	-1.00000	0.00000	2.00000	-1.00000	-1.01000	0.00000	0.25000	-1.01000	1.00000	0.00000	-1.01000	0.00000	0.00000	0.00000	3.700	27.000
13	55.000	90.000	0.000	0.0000000	0.000	-1.00000	0.00000	5.00000	-1.00000	-1.01000	0.00000	0.60000	-1.00000	2.00000	0.00000	-1.00100	0.00000	0.00000	0.00000	4.100	28.000
14	80.000	115.000	0.000	0.0000000	0.000	-2.00000	0.00000	-2.00000	0.00000	0.00000	0.00000	-2.00000	0.00000	-2.00000	0.00000	0.00000	0.00000	0.00000	0.00000	3.600	32.000
15	95.000	130.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	4.600	29.000
16	270.000	450.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	4.600	28.000
17	35.000	65.000	-2.000	-2.0000000	0.000	-2.00000	0.00000	-2.00000	-2.00000	-2.00000	0.00000	-2.00000	-2.00000	-2.00000	0.00000	-2.00000	0.00000	0.00000	0.00000	4.200	27.000
18	125.000	265.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	4.200	26.000
19	70.000	100.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	4.500	30.000
20	45.000	70.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-2.000	31.000
21	275.000	290.000	0.000	0.0000000	0.000	-2.00000	0.00000	-2.00000	0.00000	0.00000	0.00000	-2.00000	0.00000	-2.00000	0.00000	0.00000	0.00000	0.00000	0.00000	4.000	29.000
22	105.000	120.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	5.400	27.000
23	120.000	25.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	4.900	27.000
24	30.000	55.000	-2.000	-2.0000000	0.000	-2.00000	0.00000	-2.00000	-2.00000	-2.00000	0.00000	-2.00000	-2.00000	-2.00000	0.00000	-2.00000	0.00000	0.00000	0.00000	5.000	24.000
25	165.000	420.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	4.700	26.000
26	60.000	70.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	4.700	28.000
27	30.000	55.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-2.000	31.000
28	75.000	90.000	0.000	0.0000000	0.000	-2.00000	0.00000	-2.00000	0.00000	0.00000	0.00000	-2.00000	0.00000	-2.00000	0.00000	0.00000	0.00000	0.00000	0.00000	3.800	30.000
29	0.000	0.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	5.600	29.000
30	100.000	130.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	4.400	29.000
31	50.000	80.000	-2.000	-2.0000000	0.000	-2.00000	0.00000	-2.00000	-2.00000	-2.00000	0.00000	-2.00000	-2.00000	-2.00000	0.00000	-2.00000	0.00000	0.00000	0.00000	4.700	26.000
32	100.000	295.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	5.100	26.000
33	45.000	90.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	4.700	30.000
34	45.000	85.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-2.000	31.000
35	125.000	150.000	0.000	0.0000000	0.000	-1.00000	0.00000	3.00000	-1.00000	-1.01000	0.00000	0.40000	-1.01000	2.00000	0.00000	-1.01000	0.00000	0.00000	0.00000	4.700	30.000
36	110.000	130.000	0.000	0.0000000	0.000	-1.00000	0.00000	11.00000	-1.00000	-0.01000	0.00000	0.40000	-1.00000	10.00000	0.00000	-1.00000	0.00000	0.00000	0.00000	5.300	29.000
37	120.000	130.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	5.200	31.000
38	65.000	90.000	-2.000	-2.0000000	0.000	-1.00000	0.00000	17.00000	-1.00000	-1.01000	0.00000	0.60000	-1.01000	3.00000	0.00000	-1.00000	0.00000	0.00000	0.00000	6.100	25.000
39	85.000	315.000	0.000	0.0000000	0.000	-1.00000	0.00000	5.00000	-1.01000	-1.01000	0.00000	0.10000	0.02000	0.00000	0.00000	0.02000	0.00000	0.00000	0.00000	5.500	25.000
40	70.000	95.000	0.000	0.0000000	0.000	-1.00000	0.00000	4.00000	-1.00000	-1.01000	0.00000	0.40000	-1.01000	1.00000	0.00000	-1.00000	0.00000	0.00000	0.00000	5.000	28.000
41	50.000	80.000	0.000	0.0000000	0.000	-1.00000	0.00000	12.00000	-1.00000	-1.01000	0.00000	0.40000	-1.00000	3.00000	0.00000	-1.01000	0.00000	0.00000	0.00000	-2.000	31.000
42	85.000	135.000	0.000	0.0000000	0.000	-2.00000	0.00000	-2.00000	0.00000	0.00000	0.00000	-2.00000	0.00000	-2.00000	0.00000	0.00000	0.00000	0.00000	0.00000	3.700	32.000
43	105.000	140.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	5.100	30.000
44	80.000	115.000	0.000	0.0000000	0.000	-1.00000	0.00000	0.00000	-1.00000	-1.01000	0.00000	0.00000	-1.00000	0.00000	0.00000	-1.01000	0.00000	0.00000	0.00000	4.600	31.000
45	35.000	55.000	-2.000	-2.0000000	0.000	-2.00000	0.00000	-2.00000	-2.00000	-2.00000	0.00000	-2.00000	-2.00000	-2.00000	0.00000	-2.00000	0.00000	0.00000	0.00000	4.100	30.000

TABLE 3.7 (37)

	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU
46	95.000	225.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	4.500	25.000
47	60.000	70.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	5.000	30.000
48	30.000	65.000	0.000	0.0000000	0.000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-2.000	33.000
49	105.000	120.000	0.000	0.0000000	0.000	-1.00000	0.00000	4.00000	-1.00000	-1.00000	0.00000	0.80000	-1.00000	2.00000	0.00000	-1.00000	0.00000	0.00000	0.00000	4.000	30.000
50	100.000	110.000	0.000	0.0000000	0.000	-1.00000	0.00000	3.00000	-0.01000	-0.01000	0.00000	0.60000	0.01000	3.00000	0.00000	-0.01000	0.00000	0.00000	0.00000	5.300	30.000
51	80.000	100.000	0.000	0.0000000	0.000	-1.01000	0.00000	0.00000	-1.01000	0.08000	0.00000	0.60000	-1.01000	0.00000	0.00000	-1.01000	0.00000	0.00000	0.00000	4.600	28.000
52	40.000	60.000	-2.000	-2.0000000	0.000	-1.00000	0.00000	4.00000	-1.00000	-1.01000	0.00000	0.20000	-1.01000	4.00000	0.00000	-1.00000	0.00000	0.00000	0.00000	5.100	29.000
53	80.000	150.000	0.000	0.0000000	0.000	-1.00000	0.00000	3.00000	-1.00000	-1.01000	0.00000	0.10000	-1.00000	3.00000	0.00000	0.01000	0.00000	0.00000	0.00000	4.700	25.000
54	45.000	75.000	0.000	0.0000000	0.000	-1.00000	0.00000	3.00000	-1.00000	-1.01000	0.00000	0.60000	-1.01000	2.00000	0.00000	-1.00000	0.00000	0.00000	0.00000	4.800	29.000
55	50.000	65.000	0.000	0.1300000	0.000	-1.00000	0.00000	4.00000	-1.01000	-1.01000	0.00000	0.60000	0.03000	1.00000	0.00000	-1.01000	0.00000	0.00000	0.00000	4.900	27.000

TABLE 3.7 (38)

	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO
1	SAL	PH	TUR	COND	COLI	COLIFORM	ALK	TKN	SI	K	AL	PEST	ALDRIN	DIELDRIN	PCB	DDT	BHC	ORGANO_CL	ORGANO_P	DDE
2	0.000	7.800	52.000	50.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
3	-2.000	7.400	29.000	50.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
4	0.000	7.100	41.000	40.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
5	-2.000	7.200	35.000	50.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
6	-2.000	6.600	246.000	30.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
7	-2.000	7.000	42.000	40.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
8	0.000	7.700	51.000	50.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
9	-2.000	6.900	20.000	50.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
10	0.000	7.100	62.000	40.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
11	-2.000	7.100	45.000	50.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
12	-1.000	6.500	150.000	30.000	0	0	0.000	0.000	0.000	0.000	0.000	-1.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
13	-2.000	7.200	30.000	40.000	0	0	0.000	0.000	0.000	0.000	0.000	-1.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
14	0.000	7.500	51.000	70.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
15	-2.000	7.300	6.000	60.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
16	0.000	7.100	12.000	30.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
17	-2.000	7.400	29.000	60.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
18	-2.000	6.600	165.000	30.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
19	-2.000	7.000	26.000	50.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
20	-2.000	6.000	-2.000	90.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
21	0.000	7.100	60.000	51.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
22	-2.000	7.300	6.000	60.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
23	0.000	7.000	21.000	50.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
24	-2.000	7.000	15.000	60.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
25	-2.000	6.500	264.000	30.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
26	-2.000	7.100	16.000	50.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
27	-2.000	5.400	-2.000	90.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
28	0.000	7.800	12.000	125.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
29	-2.000	7.600	8.000	100.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
30	0.000	7.500	10.000	90.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
31	-2.000	7.600	10.000	90.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
32	-2.000	7.200	240.000	50.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
33	-2.000	7.500	16.000	80.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
34	-2.000	8.600	-2.000	90.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
35	0.000	7.800	16.000	130.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
36	-2.000	7.700	7.000	100.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
37	0.000	7.700	9.000	80.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
38	-2.000	7.900	15.000	90.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
39	-2.000	7.300	195.000	50.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
40	-2.000	7.600	10.000	80.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
41	-2.000	6.900	-2.000	100.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
42	0.000	7.100	72.000	60.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
43	-2.000	6.900	20.000	50.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
44	0.000	6.900	40.000	40.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
45	-2.000	7.100	36.000	40.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

TABLE 3.7 (39)

	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO
46	-2.000	6.900	168.000	30.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
47	-2.000	6.900	26.000	40.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
48	-2.000	4.000	-2.000	30.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
49	0.000	7.100	17.000	70.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
50	-2.000	7.100	17.000	70.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
51	0.000	7.200	33.000	50.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
52	-2.000	7.900	22.000	60.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
53	-2.000	7.300	87.000	40.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
54	-2.000	7.400	15.000	50.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
55	-2.000	6.980	-2.000	90.000	0	0	0.000	0.000	0.000	0.000	0.000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

TABLE 3.7 (40)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1	NEGERI	WKA	SNO	SUNGAI	SMP_DATE	DT	TIME	COL	TUR_L	CONDL	PHL	BOD	COD	ALN	AN	NAN	NO2	TN	CL	F	CN	SO2	SO4	P	HARD	SS	DS
2	KEDAH	05	S009609	KETIL	3/8/93	930308	1300	10.000			7.000	1.000	30.000		0.300	0.100			4.000				3.000	0.1700	50.000	35.000	85.000
3	KEDAH	05	S504602	MUDA	3/9/93	930309	1445	70.000			7.000	1.000	20.000		0.050	0.300			4.000				9.000	0.1500	15.000	50.000	65.000
4	KEDAH	05	S505603	MUDA	3/9/93	930309	1300	70.000			7.000	1.000	20.000		0.380	1.100			3.000				8.000	-0.0900	15.000	50.000	50.000
5	KEDAH	05	S506604	MUDA	3/9/93	930309	1145	60.000			7.000	1.000	20.000		0.070	0.350			4.000				4.000	0.1700	25.000	50.000	50.000
6	KEDAH	05	S606607	JERUNG	3/9/93	930309	1045	70.000			7.000	24.000	130.000		4.900	0.250			6.000				9.000	0.2800	30.000	65.000	65.000
7	KEDAH	05	S607606	TAWAR	3/8/93	930308	1450	60.000			7.000	1.000	55.000		1.900	1.700			4.000				12.000	0.8900	15.000	65.000	70.000
8	KEDAH	05	S608605	KETIL	3/8/93	930308	1420	10.000			7.000	1.000	30.000		0.140	0.200			4.000				3.000	0.1800	40.000	40.000	70.000
9	KEDAH	05	S706610	JERUNG	3/9/93	930309	1010	40.000			7.000	2.000	30.000		0.060	0.250			5.000				3.000	0.1700	15.000	20.000	45.000
10	KEDAH	05	S806614	MUDA	3/8/93	930308	1140	15.000			7.000	1.000	30.000		0.100	0.050			4.000				4.000	0.5300	10.000	40.000	50.000
11	KEDAH	05	6007608	MUDA	3/8/93	930308	1015	10.000			7.000	1.000	20.000		0.040	0.050			10.000				1.000	0.9000	20.000	35.000	65.000
12	KEDAH	05	S505603	MUDA	5/23/93	930812	1215				7.000	1.000	20.000		0.410	0.800										60.000	40.000
13	KEDAH	05	S609609	KETIL	5/24/93	930812	1230				7.000	1.000	15.000		0.100	0.250										60.000	130.000
14	KEDAH	05	6007608	MUDA	5/24/93	930812	1000				7.000	1.000	10.000		0.080	0.350										5.000	80.000
15	KEDAH	05	S706610	JERUNG	5/23/93	930717	1030				7.000	2.000	5.000		0.120	0.400										35.000	85.000
16	KEDAH	05	S606607	JERUNG	5/23/93	930717	1105				7.000	1.000	85.000		0.680	0.350										65.000	50.000
17	KEDAH	05	S504602	MUDA	5/23/93	930717	1300				7.000	1.000	10.000		0.130	0.250										70.000	15.000
18	KEDAH	05	S506604	MUDA	5/24/93	930717	1430				7.000	1.000	10.000		0.120	0.250										35.000	110.000
19	KEDAH	05	S607606	TAWAR	5/24/93	930717	1345				7.000	1.000	5.000		0.430	0.500										10.000	95.000
20	KEDAH	05	S608605	KETIL	5/24/93	930717	1320				7.000	2.000	15.000		0.280	0.200										15.000	195.000
21	KEDAH	05	S806614	MUDA	5/24/93	930717	1115				7.000	1.000	25.000		0.080	0.250										50.000	105.000
22	KEDAH	05	S806614	MUDA	7/19/93	930821	1115	70.000			7.000	2.000	10.000		0.070	0.200			10.000				16.000	0.3300	10.000	25.000	130.000
23	KEDAH	05	S608605	KETIL	7/19/93	930821	1355	70.000			7.000	2.000	10.000		0.410	0.250			9.000				14.000	0.4200	26.000	135.000	85.000
24	KEDAH	05	S609609	KETIL	7/19/93	930821	1420	70.000			6.500	2.000	10.000		0.460	0.500			8.000				14.000	0.5200	10.000	35.000	90.000
25	KEDAH	05	S506604	MUDA	7/19/93	930821	1500	70.000			6.500	2.000	10.000		0.050	0.250			8.000				14.000	0.7300	12.000	40.000	145.000
26	KEDAH	05	S504602	MUDA	7/20/93	930821	1410	70.000			7.000	1.000	15.000		0.120	0.250			9.000				12.000	0.3100	10.000	40.000	115.000
27	KEDAH	05	S607606	MUDA	7/20/93	930821	1130	30.000			7.000	2.000	10.000		0.570	0.150			18.000				3.000	0.6600	14.000	25.000	55.000
28	KEDAH	05	S706610	JERUNG	7/20/93	930821	1045	30.000			7.000	1.000	1.000		0.040	0.150			4.000				7.000	0.0800	14.000	35.000	40.000
29	KEDAH	05	S505603	MUDA	8/16/93	931105	1015	70.000			7.000	3.000	10.000		0.100	0.600			13.000				1.000	0.0500	14.000	35.000	50.000
30	KEDAH	05	S609609	KETIL	8/15/93	931105	1300	70.000			7.000	4.000	20.000		0.800	0.450			16.000				2.000	0.4300	48.000	35.000	80.000
31	KEDAH	05	6007608	MUDA	8/15/93	931105	1030	70.000			7.000	2.000	5.000		0.030	0.200			18.000				42.000	0.0500	18.000	70.000	100.000
32	KEDAH	05	S506604	MUDA	8/15/93	930916	1530	40.000			7.000	2.000	15.000		0.050	0.250			12.000				5.000	0.0500	16.000	70.000	100.000
33	KEDAH	05	S607606	TAWAR	8/15/93	930916	1440	40.000			7.000	3.000	15.000		0.480	0.600			11.000				2.000	0.9400	18.000	10.000	55.000
34	KEDAH	05	S608605	KETIL	8/15/93	930916	1400	70.000			7.000	2.000	20.000		0.190	1.000			13.000				4.000	0.1800	32.000	30.000	70.000
35	KEDAH	05	S606607	MUDA	8/15/93	930916	1620	70.000			7.000	136.000	150.000		9.000	0.600			28.000				50.000	11.8000	34.000	25.000	225.000
36	KEDAH	05	S806610	MUDA	8/15/93	930916	1145	70.000			7.000	2.000	10.000		0.050	0.350			17.000				1.000	0.0500	12.000	10.000	65.000
37	KEDAH	05	S504602	MUDA	8/16/93	930916	1120	50.000			7.000	2.000	15.000		0.030	0.300			12.000				2.000	1.8000	13.000	25.000	55.000
38	KEDAH	05	S706610	JERUNG	8/15/93	930916	1655	5.000			7.000	1.000	1.000		0.030	0.100			11.000				3.000	0.0500	12.000	75.000	75.000
39	KEDAH	05	S505603	MUDA	9/29/93	931118	1315					1.000	5.000		0.170	0.300										30.000	
40	KEDAH	05	S609609	KETIL	9/28/93	931118	1300					3.000	2.000		0.200	0.100										15.000	
41	KEDAH	05	6007608	MUDA	9/28/93	931118	1030					1.000	2.000		0.040	0.200										20.000	
42	KEDAH	05	S806614	MUDA	9/28/93	931105	1200					2.000	15.000		0.130	0.350										80.000	
43	KEDAH	05	S608605	KETIL	9/28/93	931105	1400					1.000	5.000		0.500	0.100										95.000	
44	KEDAH	05	S607606	TAWAR	9/28/93	931105	1430					1.000	1.000		2.600	0.650										70.000	
45	KEDAH	05	S706610	MUDA	9/29/93	931105	1045					1.000	5.000		0.120	0.200										45.000	

TABLE 3.7 (41)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
46	KEDAH	05	S606607	MUDA	9/29/93	931105	1115					21.000	30.000		14.000	0.850			0.000							80.000	
47	KEDAH	05	S506604	MUDA	9/29/93	931105	1200					1.000	10.000		0.100	0.150										60.000	
48	KEDAH	05	S504602	MUDA	9/29/93	931105	1400					1.000	15.000		0.170	0.200										40.000	
49	KEDAH	05	S606611	MERBOK	9/22/93	931118	1300	50.000				1.000	5.000		0.170	0.150							10.000	1.3000		90.000	
50	KEDAH	05	S606610	MERBOK	9/22/93	931118	1315	70.000				20.000	85.000		20.800	3.200							5.000	17.5000		15.000	
51	KEDAH	05	S505603	MUDA	7/20/93	930914	1230	70.000			7.000	2.000	10.000		0.130	0.250			14.000				16.000	0.6600	11.000	60.000	85.000
52	KEDAH	05	S609609	KETIL	7/19/93	930914	1300	70.000			7.000	3.000	40.000		0.380	0.300			10.000				12.000	0.7100	35.000	80.000	190.000
53	KEDAH	05	6007608	MUDA	7/19/93	930914	1000	70.000			7.000	2.000	50.000		0.150	0.250			13.000				17.000	0.9000	14.000	435.000	165.000
54	KEDAH	05	S706610	JERUNG	11/10/93	931211	1305	0.000	0.000		7.000	2.000	5.000		0.260	0.600										15.000	
55	KEDAH	05	S606607	JERUNG	11/10/93	931211	1325				7.000	3.000	10.000		1.800	1.300										50.000	
56	KEDAH	05	S504602	MUDA	11/10/93	931211	1510				7.000	2.000	10.000		0.370	0.300										15.000	
57	KEDAH	05	S505603	MUDA	11/10/93	931211	1430				7.000	2.000	10.000		0.170	0.350										15.000	
58	KEDAH	05	S506604	MUDA	11/10/93	931211	1225				7.000	2.000	15.000		0.200	0.300										25.000	
59	KEDAH	05	S607606	TAWAR	11/10/93	931211	1155				7.000	1.000	1.000		1.300	0.600										15.000	
60	KEDAH	05	S608605	KETIL	11/10/93	931211	1130				7.000	1.000	15.000		0.120	0.650										40.000	
61	KEDAH	05	S609609	KETIL	11/9/93	931211	1505				7.000	2.000	5.000		0.200	0.250										65.000	
62	KEDAH	05	S806614	MUDA	11/9/93	931211	1400				7.000	1.000	5.000		0.770	0.300										55.000	
63	KEDAH	05	6007608	MUDA	11/9/93	931211	1230				7.000	1.000	35.000		0.150	0.600										70.000	

TABLE 3.7 (42)

	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1	TS	OG	PHE	MBAS	AS	B	CA	CD	CR	CU	FE	PB	MG	MN	HG	NI	NA	ZN	DO	TEMP	SAL	PH	TUR	COND	COLI
2	120.000				-1.01000			-1.01000	-1.01000		0.40000	-1.01000							5.900	29.000		7.000	2.000	95.000	
3	115.000																		4.600	31.000		6.400	20.000	68.000	
4	100.000				-1.01000			-1.01000	-1.01000		0.40000	0.01000			-1.01000				4.800	31.000		6.600	18.000	68.000	
5	100.000																		4.600	28.000		6.800	11.000	85.000	
6	130.000	70.000																	0.800	26.000		5.600	9.000	153.000	
7	135.000																		5.200	28.000		7.000	25.000	100.000	
8	110.000																		6.100	30.000		7.100	2.000	30.000	
9	65.000																								
10	90.000																		5.800	30.000		6.600	10.000	73.000	
11	100.000				-1.01000			-1.01000	-1.01000		0.20000	0.01000			-1.01000				5.000	27.000		7.100	1.000	120.000	
12	100.000				0.01000		4.00000	0.01000	0.01000			0.02000			0.01000			0.02000	6.300	30.000		6.200		50.000	
13	190.000				0.01000		12.00000	0.01000	0.03000			0.05000			0.01000			0.03000	6.500	29.000		6.500		100.000	
14	85.000				0.01000		7.00000	0.01000	0.01000			0.01000			0.01000			0.01000	6.600	29.000		6.700		60.000	
15	120.000																		6.200	27.000		6.400		55.000	
16	115.000																		5.000	28.000		5.600		45.000	
17	85.000																		5.600	29.000		6.300		45.000	
18	145.000																		6.100	29.000		6.300		90.000	
19	105.000																		6.400	29.000		6.400		60.000	
20	210.000																		6.400	29.000		6.700		100.000	
21	155.000																		6.500	29.000		6.600		50.000	
22	155.000																		7.200	29.000		6.300		60.000	
23	220.000																		6.300	27.000		6.600		80.000	
24	125.000																		3.800	26.000		5.400		50.000	
25	185.000																		6.400	26.000		5.800		50.000	
26	155.000																		6.600	28.000		6.500		50.000	
27	80.000																		6.200	27.000		5.400		70.000	
28	75.000																		7.300	26.000		6.200		50.000	
29	85.000				0.01000		3.00000	0.01000	0.01000		1.00000	0.01000	2.00000						6.100	29.000		6.200		60.000	
30	115.000				0.01000		15.00000	0.01000	0.01000		0.80000	0.01000	2.00000						7.000	28.000		6.600		130.000	
31	170.000				0.01000		4.00000	0.01000	0.01000		1.00000	0.01000	2.00000						6.800	28.000		6.300		190.000	
32	170.000																		7.500	29.000		6.300		60.000	
33	65.000																		7.200	28.000		6.400		60.000	
34	100.000																		6.800	29.000		6.600		105.000	
35	250.000																		1.600	29.000		4.900		5.000	
36	75.000																		7.500	29.000		5.500		75.000	
37	80.000																		6.600	30.000		5.300		60.000	
38	150.000	0.000																	6.700	28.000		5.700		45.000	
39					0.01000			0.01000	0.01000	0.01000		0.01000			0.01000	0.01000			8.000	28.000		6.400		40.000	
40					0.01000			0.01000	0.01000	0.01000		0.01000			0.01000	0.01000			7.300	26.000		8.000		115.000	
41					0.01000			0.01000	0.01000	0.01000		0.01000			0.01000	0.01000			7.700	26.000		7.300		55.000	
42																			7.300	27.000		6.500		40.000	
43																			7.200	27.000		8.000		95.000	
44																			6.400	25.000		8.100		50.000	
45																			6.400	26.000		6.000		40.000	

TABLE 3.7 (43)

	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
46																			3.600	27.000		5.700		140.000	
47																			6.900	27.000		6.300		40.000	
48																			6.500	28.000		6.400		40.000	
49																			4.800	29.000		6.000		130.000	
50																			4.600	29.000		7.100		750.000	
51	145.000				0.01000		2.00000	0.01000	0.01000			0.01000	1.00000		0.01000				6.600	27.000		5.400		70.000	
52	270.000				0.01000		6.00000	0.01000	0.01000			0.02000	5.00000		0.01000				7.500	26.000		6.600		100.000	
53	600.000				0.01000		3.00000	0.01000	0.04000			0.09000	2.00000		0.01000				6.800	26.000		6.800		70.000	
54																			5.800	25.000		5.500		40.000	
55																			5.500	26.000		5.200		50.000	
56																			5.900	27.000		6.100		40.000	
57																			5.200	27.000		6.200		40.000	
58																			5.500	26.000		6.500		50.000	
59																			6.800	25.000		6.500		40.000	
60																			7.000	25.000		7.100		80.000	
61																			6.400	27.000		7.400		90.000	
62																			5.900	27.000		7.100		40.000	
63																			7.300	26.000		7.200		50.000	

TABLE 3.7 (44)

	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV
1	COLIFORM	ALK	TKN	SI	K	AL	PEST	ALDRIN	DIELDRIN	PCB	DDT	BHC	ORGANO_CL	ORGANO_P	DOE	WQI	WQI_RATING	RIV_CLASS	INDEX_COD	INDEX_BOD	INDEX_AN	INDEX_SS
2																80.44	SlightlyClean	2	62.2	96.1	69.0	77.2
3																85.79	SlightlyClean	2	72.4	96.1	95.3	68.7
4																79.66	SlightlyClean	2	72.4	96.1	63.0	68.7
5																85.39	SlightlyClean	2	72.4	96.1	93.2	68.7
6																38.51	Polluted	4	12.9	31.5	0.2	62.8
7																61.86	SlightlyPolluted	3	42.0	96.1	9.4	62.8
8																83.04	SlightlyClean	2	62.2	96.1	85.8	74.4
9																85.99	SlightlyClean	2	62.2	91.8	94.2	85.7
10																83.84	SlightlyClean	2	62.2	96.1	90.0	74.4
11																87.78	SlightlyClean	2	72.4	96.1	96.3	77.2
12																78.44	SlightlyClean	2	72.4	96.1	60.7	65.0
13																85.42	SlightlyClean	2	79.1	96.1	90.0	65.0
14																93.36	Clean	1	85.8	96.1	92.1	94.3
15																89.35	SlightlyClean	2	92.4	91.8	87.9	77.2
16																64.98	SlightlyPolluted	3	26.2	96.1	43.3	62.8
17																85.32	SlightlyClean	2	85.8	96.1	86.8	60.7
18																88.98	SlightlyClean	2	85.8	96.1	87.9	77.2
19																87.90	SlightlyClean	2	92.4	96.1	59.2	91.4
20																85.74	SlightlyClean	2	79.1	91.8	71.1	88.6
21																84.11	SlightlyClean	2	67.3	96.1	92.1	68.7
22																90.14	Clean	1	85.8	91.8	93.2	82.9
23																74.77	SlightlyPolluted	3	85.8	91.8	60.7	39.1
24																77.70	SlightlyClean	2	85.8	91.8	57.0	77.2
25																84.37	SlightlyClean	2	85.8	91.8	95.3	74.4
26																86.99	SlightlyClean	2	79.1	96.1	87.9	74.4
27																81.87	SlightlyClean	2	85.8	91.8	49.7	82.9
28																93.10	Clean	1	97.7	96.1	96.3	77.2
29																87.31	SlightlyClean	2	85.8	87.4	90.0	77.2
30																73.45	SlightlyPolluted	3	72.4	83.1	37.2	77.2
31																87.68	SlightlyClean	2	92.4	91.8	97.3	60.7
32																84.48	SlightlyClean	2	79.1	91.8	95.3	60.7
33																82.35	SlightlyClean	2	79.1	87.4	55.6	91.4
34																84.35	SlightlyClean	2	72.4	91.8	80.6	80.1
35																34.43	Polluted	4	9.5	0.1	0.0	82.9
36																92.33	Clean	1	85.8	91.8	95.3	91.4
37																89.54	SlightlyClean	2	79.1	91.8	97.3	82.9
38																89.41	SlightlyClean	2	97.7	96.1	97.3	58.7
39																-2.00	NA	-2	92.4	96.1	82.7	80.1
40																-2.00	NA	-2	96.4	87.4	79.5	88.6
41																-2.00	NA	-2	96.4	96.1	96.3	85.7
42																-2.00	NA	-2	79.1	91.8	86.8	56.8
43																-2.00	NA	-2	92.4	96.1	54.2	51.3
44																-2.00	NA	-2	97.7	96.1	3.9	60.7
45																-2.00	NA	-2	92.4	96.1	87.9	71.5

WKA5_93.D8F

TABLE 3.7 (45)

	BA	BB	BC	BO	BS	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV
46																-2.00	NA	-2	62.2	36.4	0.0	56.8
47																-2.00	NA	-2	85.8	96.1	90.0	65.0
48																-2.00	NA	-2	79.1	96.1	82.7	74.4
49																-2.00	NA	-2	92.4	96.1	82.7	53.1
50																-2.00	NA	-2	26.2	38.2	0.0	88.6
51																85.18	SlightlyClean	2	85.8	91.8	86.8	65.0
52																71.03	SlightlyPolluted	3	53.2	87.4	63.0	56.8
53																63.75	SlightlyPolluted	3	45.4	91.8	84.8	5.2
54																88.94	SlightlyClean	2	92.4	91.8	73.2	88.6
55																70.45	SlightlyPolluted	3	85.8	87.4	10.7	68.7
56																85.75	SlightlyClean	2	85.8	91.8	63.8	88.6
57																89.34	SlightlyClean	2	85.8	91.8	82.7	88.6
58																86.14	SlightlyClean	2	79.1	91.8	79.5	82.9
59																80.97	SlightlyClean	2	97.7	96.1	19.9	88.6
60																86.99	SlightlyClean	2	79.1	96.1	87.9	74.4
61																84.73	SlightlyClean	2	92.4	91.8	79.5	62.8
62																78.93	SlightlyClean	2	92.4	96.1	38.7	67.2
63																78.99	SlightlyClean	2	57.5	96.1	84.8	60.7

WKA5_94.D8F

TABLE 3.7 (46)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1	NEGERI	WKA	SNO	SUNGAI	SMP_DATE	DT	TIME	COL	TUR_L	CONDL	PHL	BOD	COD	ALN	AN	NAN	NO2	TN	CL	F	CN	SO2	SO4	P	HARD	SS	DS	TS	OG	PHE
2	KEDAH	05	5505603	MUDA	6/25/94	940824	1030					1.000	15.000		0.120											65.000				
3	KEDAH	05	5608603	NAKSAH	3/8/94	940530	1045					2.000	5.000		5.000											35.000				
4	KEDAH	05	5608602	TAWAR	6/26/94	940824	1300					1.000	15.000		1.100											55.000				
5	KEDAH	05	5608603	NAKSAH	6/26/94	940824	1425					1.000	20.000		0.970											65.000				
6	KEDAH	05	5608601	TAWAR	3/8/94	940530	1125					1.000	15.000		0.050											20.000				
7	KEDAH	05	5706610	JERUNG	3/7/94	940530	1220					38.000	125.000		11.100											35.000				
8	KEDAH	05	5706607	JERUNG	3/7/94	940530	1200					1.000	5.000		0.060											20.000				
9	KEDAH	05	6007608	MUDA	3/8/94	940530	1500					1.000	5.000		0.100											15.000				
10	KEDAH	05	5609609	KETIL	3/8/94	940530	1220					1.000	2.000		0.120											10.000				
11	KEDAH	05	5505604	MUDA	3/7/94	940530	1320					1.000	25.000		0.450											30.000				
12	KEDAH	05	5505603	MUDA	3/7/94	940530	1040					1.000	2.000		0.600											25.000				
13	KEDAH	05	5706610	JERUNG	6/25/94	940824	1300					41.000	425.000		15.600											150.000				
14	KEDAH	05	5706607	JERUNG	6/25/94	940824	1230					1.000	5.000		0.180											45.000				
15	KEDAH	05	5608602	TAWAR	3/8/94	940530	1145					1.000	3.000		6.900											25.000				
16	KEDAH	05	6007608	MUDA	6/26/94	940824	1015					1.000	15.000		0.310											65.000				
17	KEDAH	05	5609609	KETIL	6/26/94	940824	1200					1.000	25.000		0.220											115.000				
18	KEDAH	05	5506604	MUDA	6/25/94	940824	1400					1.000	15.000		0.360											55.000				
19	KEDAH	05	5608601	TAWAR	6/26/94	940824	1325					1.000	10.000		0.180											50.000				

TABLE 3.7 (47)

	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL
1	MBAS	AS	B	CA	CD	CR	CU	FE	PB	MG	MN	HG	NI	NA	ZN	DO	TEMP	SAL	PH	TUR	COND	COLI	COLIFORM	ALK	TKN	SI	K	AL	PEST	ALDRIN	DIELDRIN	PCB	DDT	BHC
2																7.800	27.000	0.000	7.600		75.000													
3																4.000	24.000		7.100		110.000													
4																7.000	21.000	0.000	6.800		50.000													
5																6.200	25.000	0.000	6.600		85.000													
6																6.200	23.000		7.600		40.000													
7																3.900	24.000		6.300		150.000													
8																7.900	24.000		7.400		40.000													
9																7.400	28.000		6.800		60.000													
10	0.100															6.400	25.000		7.600		120.000													
11																7.900	25.000		7.600		60.000													
12																7.700	24.000		7.300		60.000													
13																1.100	25.000	0.000	5.600		120.000													
14																7.400	23.000	0.000	6.400		45.000													
15																6.600	24.000		7.300		60.000													
16																7.700	22.000		6.600		80.000													
17																7.400	22.000		6.500		100.000													
18																7.200	25.000	0.000	6.500		55.000													
19																7.500	21.000	0.000	6.600		35.000													

TABLE 3.7 (48)

	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV
1	ORGANO_CL	ORGANO_P	DDE	WQI	WQI_RATING	RIV_CLASS	INDEX_COD	INDEX_BOD	INDEX_AN	INDEX_SS
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										

TABLE 3.8 Water Quality Records by MADA ①

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.1.14	92.1.14	92.1.14	92.1.14	92.1.14
Turbidity	Clear	Clear	Clear	Clear	Clear
Sediments	Nil	Brownish	Nil	Brownish	Brownish
Odor	Nil	Nil	Nil	Nil	Nil
PH	6	6	5.5	6	5.5
Conductivity	50	50	50	50	50
BOD5	<1	1	1	1	1
COD	20	20	20	20	15
Ammonia Nitrogen	<0.1	<0.1	0.1	0.1	0.1
NitrateNitrogen	0.3	0.25	<0.1	<0.1	0.1
Total dried solid	40	30	50	60	40
Suspended dried solid					
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	2	4	4	5	2
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

TABLE 3.8 Water Quality Records by MADA ②

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.1.28	92.1.28	92.1.28	92.1.28	92.1.28
Turbidity	Clear	Clear	Clear	Clear	Slightly clou.
Sediments	Brownish	Brownish	Nil	Nil	Nil
Odor	Nil	Nil	Nil	Nil	Nil
PH	6	6	6	6	6
Conductivity	50	50	40	50	50
BOD5	1	1	1	1	1
COD	20	20	20	20	20
Ammonia Nitrogen	<0.1	<0.1	0.12	0.1	0.1
NitrateNitrogen	0.3	0.25	<0.1	<0.1	<0.1
Total dried solid					
Suspended dried solid					
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	3	4	4	5	1
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

TABLE 3.8 Water Quality Records by MADA, (3)

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.2.25	92.2.25	92.2.25	92.2.25	92.2.25
Turbidity	Clear	Slightly clou.	Clear	Clear	Clear
Sediments	Brownish	Brownish	Brownish	Brownish	Brownish
Odor					
PH	6.5	6	6	7	6.5
Conductivity	50	60	60	50	50
BOD5	1	<1	<1	<1	<1
COD	20	20	20	20	25
Ammonia Nitrogen	<0.1	<0.1	<0.1	0.1	0.1
Nitrate Nitrogen	0.25	0.25	<0.1	<0.1	<0.1
Total dried solid	40	76	55	50	40
Suspended dried solid					
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	3	2	2	3	2
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

TABLE 8(4) Water Quality Records by MADA, (4)

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.3.24	92.3.24	92.3.24	92.3.24	92.3.24
Turbidity	Clear	Clear	Clear	Slightly clou.	Clear
Sediments	Brownish	Brownish	Brownish	Brownish	Brownish
Odor					
PH	7	7	7	6.5	7
Conductivity	60	50	50	60	50
BOD5	<1	<1	<1	<1	1
COD	10	10	15	15	15
Ammonia Nitrogen	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate Nitrogen	0.2	0.25	<0.1	<0.1	0.1
Total dried solid	160	45	60	125	168
Suspended dried solid					
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	1	6	3	4	3
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

Water Qu. Re. MADA92-5

TABLE 3.8 Water Quality Records by MADA ⑤

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.4.8	92.4.8	92.4.8	92.4.8	92.4.8
Turbidity	Clear	Clear	Clear	Clear	Clear
Sediments	Greyish	Nil	Brownish	Brownish	Nil
Odor					
PH	6	6	6.5	6	6
Conductivity	50	50	50	60	50
BOD5	1	1	<1	<1	1
COD	20	20	15	20	20
Ammonia Nitrogen	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate Nitrogen	0.15	0.15	0.25	0.3	0.45
Total dried solid	260	225	185	220	305
Suspended dried solid	25	20	30	40	70
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	5	4	4	3	3
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

Water Qu. Re. MADA92-6

TABLE 3.8 Water Quality Records by MADA ⑥

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.4.21	92.4.21	92.4.21	92.4.21	92.4.21
Turbidity	Clear	Clear	Clear	Clear	Clear
Sediments	Greyish	Greyish	Brownish	Brownish	Nil
Odor					
PH	7	7	7	6	7
Conductivity	30	30	40	40	30
BOD5	1	1	1	1	1
COD	20	20	20	20	20
Ammonia Nitrogen	<0.1	<0.1	0.1	0.1	<0.1
Nitrate Nitrogen	0.25	0.2	0.15	<0.1	<0.1
Total dried solid	80	140	130	140	90
Suspended dried solid	20	60	52	55	12
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	3	5	3	2	3
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

TABLE 3.8 Water Quality Records by MADA , (7)

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.05.05	92.05.05	92.05.05	92.05.05	92.05.05
Turbidity	Clear	Clear	Clear	Clear	Clear
Sediments	Greyish	Greyish	Brownish	Brownish	Greyish
Odor					
PH	6.5	6.5	6	6	6
Conductivity	40	40	50	40	40
BOD5	<1	<1	1	<1	1
COD	15	15	20	20	20
Ammonia Nitrogen	<0.1	<0.1	1.27	0.64	<0.1
Nitrate Nitrogen	0.15	0.15	<0.1	0.1	<0.1
Total dried solid	50	60	80	70	50
Suspended dried solid	15	15	15	10	5
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	3	4	3	4	6
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

TABLE 3.8 Water Quality Records by MADA , (8)

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.06.09	92.06.09	92.06.09	92.06.09	92.06.09
Turbidity	Clear	Clear	Clear	Clear	Clear
Sediments	Brownish	Greyish	Brownish	Brownish	Nil
Odor					
PH	7	7	7	7	7
Conductivity	30	40	20	50	20
BOD5	<1	<1	<1	<1	<1
COD	25	20	25	20	20
Ammonia Nitrogen	0.02	0.02	0.02	0.2	0.04
Nitrate Nitrogen	0.5	0.2	0.1	0.01	0.01
Total dried solid	60	70	180	60	70
Suspended dried solid	30	25	155	30	40
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	8	9	5	7	5
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

TABLE 3.8 Water Quality Records by MADA, (9)

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.07.07	92.07.07	92.07.07	92.07.07	92.07.07
Turbidity	Clear	Clear	Clear	Clear	Clear
Sediments	Greyish	Greyish	Brownish	Brownish	Greyish
Odor					
PH	6	6	6.5	6	6
Conductivity	50	49	50	55	41
BOD5	<1	<1	<1	1	<1
COD	20	20	30	20	20
Ammonia Nitrogen	0.07	0.09	0.11	0.2	0.05
Nitrate Nitrogen	0.2	0.15	0.05	0.02	0.01
Total dried solid	55	65	85	95	70
Suspended dried solid	30	25	25	40	25
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	2	3	4	2	3
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

TABLE 3.8 Water Quality Records by MADA, (10)

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.08.04	92.08.04	92.08.04	92.08.04	92.08.04
Turbidity	Clear	Clear	Clear	Clear	Clear
Sediments	Brownish	Brownish	Brownish	Greyish	Nil
Odor					
PH	6	6	6	6	6
Conductivity	50	60	50	60	30
BOD5	<1	<1	1	<1	<1
COD	20	20	20	20	25
Ammonia Nitrogen	0.41	0.38	0.08	0.18	0.02
Nitrate Nitrogen	0.05	0.05	0.05	0.05	0.01
Total dried solid	85	90	100	150	105
Suspended dried solid	75	30	40	40	25
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	4	4	3	4	3
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

TABLE 3.8 Water Quality Records by MADA, (11)

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.08.18	92.08.18	92.08.18	92.08.18	92.08.18
Turbidity	Clear	Clear	Clear	Clear	Clear
Sediments	Brownish	Brownish	Brownish	Brownish	Nil
Odor					
PH	7	7	6	6.5	7
Conductivity	60	70	50	50	50
BOD5	<1	<1	<1	<1	<1
COD	15	20	20	25	20
Ammonia Nitrogen	1.1	0.9	0.05	0.06	0.02
NitrateNitrogen	0.05	0.05	0.05	0.05	0.05
Total dried solid	125	95	125	95	65
Suspended dried solid	30	40	25	15	20
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	16	4	42	4	6
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

TABLE 3.8 Water Quality Records by MADA, (12)

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.09.01	92.09.01	92.09.01	92.09.01	92.09.01
Turbidity	Clear	Clear	Clear	Clear	Clear
Sediments	Brownish	Greyish	Greyish	Brownish	Nil
Odor					
PH	7	7	7	7	6.5
Conductivity	60	50	50	50	40
BOD5	1	1	<1	<1	<1
COD	20	20	15	15	15
Ammonia Nitrogen	0.8	0.12	0.1	0.02	0.05
NitrateNitrogen	0.05	0.6	0.1	0.02	0.05
Total dried solid	75	40	120	145	205
Suspended dried solid	25	10	30	50	50
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	3	3	3	2	3
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

TABLE 3.8 Water Quality Records by MADA (13)

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.09.15	92.09.15	92.09.15	92.09.15	92.09.15
Turbidity	Clear	Clear	Clear	Clear	Clear
Sediments	Brownish	Brownish	Greyish	Brownish	Nil
Odor					
PH	6.5	6	7	7	6.5
Conductivity	60	60	50	50	80
BOD5					1
COD	15	15	20	20	15
Ammonia Nitrogen	1.2	1.8	0.02	0.02	0.1
NitrateNitrogen	0.1	0.3	0.2	0.05	0.05
Total dried solid	55	65	60	50	50
Suspended dried solid	25	20	25	20	10
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	3	4	3	3	4
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

TABLE 3.8 Water Quality Records by MADA (14)

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.10.06	92.10.06	92.10.06	92.10.06	92.10.06
Turbidity	Clear	Clear	Clear	Clear	Clear
Sediments	Brownish	Brownish	Brownish	Greyish	Nil
Odor					
PH	7	7	7	7.5	7.5
Conductivity	100	50	50	40	40
BOD5	1	<1	<1	<1	<1
COD	15	15	15	20	15
Ammonia Nitrogen	0.2	0.34	0.17	0.07	0.03
NitrateNitrogen	0.15	0.05	0.01	0.15	0.01
Total dried solid	125	100	110	140	45
Suspended dried solid	70	40	40	40	10
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	4	4	3	3	4
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

Water Qu. Re. MADA92-15

TABLE 3.8 Water Quality Records by MADA (15)

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.10.19	92.10.19	92.10.19	92.10.19	92.10.19
Turbidity	Clear	Clear	Clear	Clear	Clear
Sediments	Greyish	Brownish	Brownish	Greyish	Greyish
Odor					
PH	6	6	6	6	6
Conductivity	40	50	40	40	40
BOD5	<1	1	3	1	1
COD	15	20	15	15	15
Ammonia Nitrogen	0.1	0.1	0.01	0.01	0.07
Nitrate Nitrogen	0.1	0.1	0.01	0.01	0.01
Total dried solid					
Suspended dried solid					
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	3	3	5	3	4
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

Water Qu. Re. MADA92-16

TABLE 3.8 Water Quality Records by MADA, (16)

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.11.02	92.11.02	92.11.02	92.11.02	92.11.02
Turbidity	Clear	Clear	Clear	Clear	Clear
Sediments	Brownish	Nil	Nil	Brownish	Nil
Odor					
PH	6.5	6	6	6.5	6
Conductivity	60	70	70	60	60
BOD5	<1	<1	1	1	<1
COD	10	10	15	10	10
Ammonia Nitrogen	0.07	0.05	0.04	0.05	0.05
Nitrate Nitrogen	0.45	0.85	0.05	0.05	0.01
Total dried solid	75	75	205	85	70
Suspended dried solid	35	25	20	35	15
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	4	3	3	4	3
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

TABLE 3.8 Water Quality Records by MADA (17)

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.11.17	92.11.17	92.11.17	92.11.17	92.11.17
Turbidity	Clear	Clear	Clear	Slightly clou.	Clear
Sediments	Brownish	Nil	Greyish	Brownish	Nil
Odor					
PH	6.5	6.5	6.5	6	6
Conductivity	50	60	50	50	50
BOD5	<1	<1	<1	<1	1
COD	15	20	20	15	15
Ammonia Nitrogen	0.03	0.02	0.1	0.05	0.03
NitrateNitrogen	0.6	0.8	0.1	0.2	0.15
Total dried solid	50	45	45	75	45
Suspended dried solid	20	10	25	35	10
Sucrose	Not detected	Not detected	Not detected	Not detected	Not detected
Florride					
Chloride Cl	3	3	3	3	5
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	Not detected
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	Not detected
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

TABLE 3.8 Water Quality Records by MADA (18)

Location	F. Pedu Dam Right V notch	F/1. Pedu Dam Left V notch	G. Muda Dam Reservoir	H. Muda dam Outfall	E. Pedu dam Reservoir
Sampling Date	92.12.01	92.12.01	92.12.01	92.12.01	92.12.01
Turbidity	Clear	Clear	Clear	Slightly clou.	
Sediments	Brownish	Greyish	Brownish	Brownish	
Odor					
PH	5.5	5.5	6	6	
Conductivity	50	60	50	50	
BOD5	<1	<1	<1	<1	
COD	15	15	20	20	
Ammonia Nitrogen	0.02	0.02	0.69	0.16	
NitrateNitrogen	0.2	0.2	0.01	0.05	
Total dried solid	55	65	55	60	
Suspended dried solid	25	30	25	25	
Sucrose	Not detected	Not detected	Not detected	Not detected	
Florride					
Chloride Cl	3	2	7	2	
Ferrous Fe					
Manganese Mg					
Alminium Al					
Arsenic As	Not detected	Not detected	Not detected	Not detected	
Sulphate SO4					
Paraquate	Not detected	Not detected	Not detected	Not detected	
Sodium Na					
Dissolved Oxygen DO					
Phasphate PO4					

Nnit is mg/l except PF and Conductivity(umhos/cm)

TABLE 3.9 Water Quality Records by MADA
(1994, Pedu Dam , Left V Notch)

Location	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch
Sampling Date	94.1.4	94.1.25	94.02.09	94.02.23	94.03.09	94.3.23	94.4.06	94.4.20	94.05.04	94.05.18	94.6.07
Turbidity											
Sediments											
Odor											
PH	6.5	6.5	6.5	6.5	5.5	5	5	5	6	5.5	5.5
Conductivity	50	50	40	55	50	50	60	35	40	55	50
Total solid	180	115	125	80	50	50	60	180	65	50	55
Dissolved solid	140	85	40	70	25	25	45	110	35	30	35
Suspende solid	40	30	85	10	25	25	15	70	30	20	20
Chloride	12	18	13	9	10	10	12	8	11	12	8
Arsenic	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
COD	10	2	5	2	15	5	10	20	5	5	5
BOD5	<1	<1	<1	<1	<1	<1	1	1	<1	<1	1
Ammonia Nitrogen	0.01	0.04	0.01	0.02	0.01	0.01	0.01	0.02	0.01	0.02	0.01
Nitrate Nitrogen	0.3	0.3	0.1	0.1	0.2	0.4	0.3	0.01	0.35	0.65	0.25
Paraquat	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte
Sucrose	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte

Unit is mg/l except PF and Conductivity(umhos/cm)

Water Qu. Re. MADA94-1

TABLE 3.9 ②

F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch	F. Pedu Dam Left V notch
94.6.21	94.07.06	94.07.19	94.8.9	94.08.25	94.09.07	94.09.21	94.10.12	94.10.26	94.11.09
5.5	5.5	5.5	6	5.5	6	5.5	5.5	5.5	6
50	55	55	55	55	45	55	55	55	55
40	90	40	60	55	50	50	55	60	60
20	50	25	35	40	30	40	40	40	40
20	40	15	25	15	20	10	15	20	20
8	5	4	5	5	6	7	6	5	5
<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10	5	5	5	10	3	5	5	1	5
<1	2	<1	<1	1	<1	<1	<1	<1	1
0.03	0.04	0.02	0.2	0.02	0.04	0.2	0.1	0.15	0.1
0.55	0.9	0.8	0.3	0.3	0.2	0.2	0.2	0.1	0.4
Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte
Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte

TABLE 3.10 Water Quality Records by MADA ①
(1994, Muda reservoir)

Location	Muda Reservoir	Muda Reservoir	Muda Reservoir	Muda Reservoir	Muda Reservoir	Muda Reservoir	Muda Reservoir	Muda Reservoir	Muda Reservoir	Muda Reservoir	Muda Reservoir
Sampling Date	94.1.4	94.1.25	94.02.08	94.02.22	94.03.08	94.3.22	94.4.05	94.4.19	94.05.03	94.05.17	94.6.07
Turbidity											
Sediments											
Odor											
PH	6.5	6.5	6.5	6.5	5.5	5	5.5	5	6	7	6
Conductivity	45	40	40	50	50	40	50	50	30	50	50
Total solid	125	140	150	40	65	65	65	170	65	60	60
Dissolved solid	80	105	25	30	30	35	50	110	10	45	45
Suspende solid	45	35	125	10	35	30	15	60	55	15	15
Chloride	8	11	11	13	10	10	22	9	9	10	9
Arsenic	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
COD	10	10	65	5	5	15	45	15	15	5	10
BOD5	1	1	1	1	1	2	1	1	1	1	1
Ammonia Nitrogen	0.21	0.67	0.11	0.02	0.01	0.04	0.01	0.15	0.01	0.04	0.15
NitrateNitrogen	0.05	0.1	0.01	0.05	0.01	0.05	0.01	0.01	0.05	0.05	0.05
Paraquat	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte
Sucrose	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte

Unit is mg/l except PF and Conductivity(umhos/cm)

Water Qu. Re. MADA94-2

TABLE 3.10 ②

Muda Reservoir	Muda Reservoir	Muda Reservoir	Muda Reservoir	Muda Reservoir	Muda Reservoir	Muda Reservoir	Muda Reservoir	Muda Reservoir	Muda Reservoir
94.6.21	94.07.05	94.07.19	94.8.9	94.08.23	94.09.06	94.09.20	94.10.11	94.10.25	94.11.08
5.5	5.5	5.5	6.5	7	6	5.5	6	6.5	5.5
50	50	50	56	50	50	45	45	40	45
60	100	50	70	60	55	55	55	45	50
20	55	30	40	35	35	35	30	30	30
40	45	20	30	25	20	20	25	15	20
7	4	3	6	4	6	5	8	6	4
<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
5	15	15	10	10	5	10	10	10	10
1	<1	1	1	1	1	1	1	1	1
0.07	0.02	0.03	0.25	0.02	0.04	0.05	0.02	0.15	0.05
0.05	0.01	0.1	0.05	0.05	0.1	0.1	0.1	0.1	0.5
Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte
Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte	Not detecte

POTENTIAL WATER POLLUTION SOURCES

TABLE 4.1 Live Stock Census of Kedah State (only major livestock)

District	Buffalo	Cow	Dairy Cattle	Goat	Sheep	Pig
PENDANG	1,502	15,067	4	2,933	2,138	546
SIK	1,357	3,763	0	907	575	91
P. TERAP	7,640	9,103	46	2,617	1,997	86
YAN	98	4,126	19	2,327	1,218	0
B. BARU	470	4,340	27	1,180	800	166
K. SETAR	3,550	15,951	240	6,610	7,170	190
K. PASU	2,371	13,535	831	4,204	4,490	0
K. MUDA	2,932	15,299	2,839	4,073	4,073	1,017
KULIM	1,245	9,027	634	4,000	3,419	1,668
LANGKAWI	3,190	2,650	0	350	500	0
BALING	2,668	15,899	116	4,656	3,304	79
TOTAL	27,023	108,760	4,756	33,857	29,684	3,843

(Data source : Veterinary Department.)

(16)

TABLE 4.2

USAGE OF PESTICIDES AGAINST TYPICAL PADDY PESTS

(1/2)

PADDY PEST	PESTICIDES		THE RATES OF USING (gm, ml, kg, l)*	REMARKS
	General Name	Trade Name		
A.PADDY DISEASES				
1. Karah daun dan tangkai (Pyricularia oryzae)	edifenphos blasticidin-s	Hinosan 50 EC Bla-S EC	500 ml/ha 500 ml/ha	MADA paddy variaties that can sufficient from this disease. If still happened, so following this :- i. Leaf sprayer Use 'edinfenphos' and blasticidin-s' when disease happened exceeding 20% and environment is suitable for spreading the disease; ii. 'Karah' rice bam controling If the area has a disease record, spray a week before a paddy stalk riped and do it 3 or 4 times in 2 weeks (a paddy stalk riped) iii. Change to sufficient paddy variaty
2. Hawar Seludang (Rhizoctonia solani)	pencycuron mepronil flutolanil	Monceren 25 WP Basitac WP Moncut 50 WP	500 gm/ha 500 gm/ha 1 liter/ha	The sprayed should do at maximum spread level and 10 days after lession (disease omen) size reach 20% from relative lesion hight (RLH). Example: If the height is 100cm, so lesion size is 5cm.

(Data Source : MADA)

TABLE 4.2

USAGE OF PESTICIDES AGAINST TYPICAL PADDY PESTS (2/2)

PADDY PEST	PESTICIDES		THE RATES OF USING (gm, ml, kg, l)*	REMARKS
	General Name	Trade Name		
B.PEST OF RICE				
1.'Pengorek Batang' Worm 'Pengorek batang kuning' worm (Scirpophaga incertulas) 'Pengorek batang kepala hitam' worm (Chilo suppressalis) 'Pengorek batang merah jambu' worm (Sesamia inferens)	endosulfan	Acmaron 35 EC Acmaron 3 G or 5 G Thiodan 5 G	1 lit/ha 30 kg/ha or 20 kg/ha 20 kg/ha	A cluster of eggs survey is important to control 'pengorek batang' worm. Poison controling must do when there are 2 cluster of eggs before diparasit
	carbofuran	Furadan 2 G or 3 G	50kg/ha or 30 kg/ha	
	cartap	Padan 4 G	25 kg/ha	
2.Lelompat Pokok Bena perang (Nilaparvata lugens) Bena belakang putih (Sogatella furcifera)	BPMC	Osbac EC or Dust 20 Bassa 50 EC or Dust Hopcin 50 EC	1 lit/ha or 30 kg/ha 1 lit/ha or 30 kg/ha 1 lit/ha	
	MIPC proposur MTMC + phenthoate buprofezin boprofezin + MIPC	Mipcin 50 WP Unden 50 WP or Dust Sogatox Dust 22 Applaud 50 WP Broadox WP Sogatox M Dust	1 kg/ha 1 kg/ha or 30 kg/ha 30 kg/ha 200 gm/ha 750 kg/ha 30kg/ha	
	etofenprox	Trebon 10 EC or Dust	1 kg/ha or 30 kg/ha	
	imidacloprid	Confidor 200 SL	125 - 175 ml/ha	
	carbaryl	Sevin 85 WP	590 gm/ha	
3.Lelompat Daun Bena hijau (Nephotettix spp.)	BPMC	Osbac EC or Dust 20 Bassa 50 EC or Dust Hopcin 50 EC	1 lit/ha or 30 kg/ha 1 lit/ha or 30 kg/ha 1 lit/ha	Poison monitoring should not carry out if not happen red virus disease. *Note: If paddy age exceeding 50 days, use motor spray pump to make sure the poison is effectiveness
	MIPC proposur MTMC + phenthoate buprofezin boprofezin + MIPC	Mipcin 50 WP Unden 50 WP or Dust Sogatox Dust 22 Applaud 50 WP Broadox WP Sogatox M Dust	1 kg/ha 1 kg/ha or 30 kg/ha 30 kg/ha 200 gm/ha 750 kg/ha 30kg/ha	
	etofenprox	Trebon 10 EC or Dust	1 kg/ha or 30 kg/ha	
	imidacloprid	Confidor 200 SL	125 - 175 ml/ha	
	carbaryl	Sevin 85 WP	590 gm/ha	
4.Penghisap Buah dan Batang Pokok Padi Kesing (Leptocorisa oratorius) Kepinding (Nezara viridula) Kutu bruang (Scotinophara coarctata)	BPMC	Bassa 50 EC or Dust Hopcin 50 EC Unden 50 WP or Dust	1 lit/ha or 30 kg/ha 1 lit/ha 1 lit/ha	'Kesing' and 'kepinding'
	proposur	Lebaycid 50 EC	1 lit/ha	
	fenthion	Orthene 75 S WP Sevin 85 WP Fastac 20 EC	650 gm/ha 590 gm/ha 250 ml/ha	
	acephate carbaryl alphacypermethrin			
5.Worm eat leaf 'Gulung daun' worm (Chaphalocrosis medinalis) 'Layar' worm (Nymphula depunctalis) 'Ratus' worm (Spodoptera mauritia)	carbaryl acephate fenitrothion cartap	Sevin 85 WP Orthene 75 S WP Sumithion 50 EC Padan 50 EC	590 gm/ha 650 gm/ha 1 lit/ha 1 lit/ha	
6.Kutu Trips (Stenchaetothrips biformis)	carbaryl acephate fenitrothion cartap	Sevin 85 WP Orthene 75 S WP Sumithion 50 EC Padan 50 EC	590 gm/ha 650 gm/ha 1 lit/ha 1 lit/ha	
C.RAT Ricefield rat (Rattus argentiventer) Large bandicoot rat (Bandicota indica)	brodifacoum counmatetralyl chlorophacinone bromadialone warfarin	Matikus Racumin Draft EC or Bait Ebor 401 Bromawax Tikumin Yasomin	1 piece / station 25 gm/ hole 100 ml/ 5 kg bait 1 piece/station 1 piece/station 25 gm/ hole 1 piece/station	

TABLE 4.3 METHOD OF USING FERTILIZER FOR PADDY

CHOSEN	FERTILIZATION LEVEL	THE TYPE OF FERTILIZER	RATES (relung)	USING TIME
If water stagnant, 2 weeks after 80% paddy seeded	Fertilization 1	Mixed fertilizer	3 bags	15 to 20 days after seeding
	Fertilization 2	Urea	1 bag	45 to 55 days after seeding
	Fertilization 3	Urea or additional fertilizer	1 bag	75 to 85 days after seeding
If water stagnant, a month after 80% paddy seeded	Fertilization 1	Mix fertilizer	3 bags	45 to 55 days after seeding
	Fertilization 2	Urea or additional fertilizer	1 bag	75 to 85 days after seeding

(Data Source : MADA)

TABLE 4.4 METHOD OF USING PESTICIDES FOR PADDY

The type of poison	Mixed rate ml/galon	A number of sprayer for relung	Polson utilization time	The types of weed can controled
Satunil	150 ml. mixed by 3 galon water	5 barrels	5 to 7 days after seeding	Sambau misan, sambau padi burung, rumput miang dan rumput colok china
Facet	26 -28 gm mixed by 3 galon water	5 barrels	7 to 14 days after seeding	Sambau misan dan sambau padi burung
Arrosolo	300 ml. mixed by 3 galon water	5 barrels	10 to 15 days after seeding	Sambau misan, sambau padi burung, rumput miang dan rumput colok china
Sakkimol	90 ml. mixed by 3 galon water	3 barrels	10 to 15 days after seeding	Sambau misan sahaja
Ordram	10 kg for 1 relun	1 barrel	10 to 15 days after seeding	Sambau misan sahaja
Eptam D	10 kg for 1 relun	1 barrel	10 to 15 days after seeding	Sambau misan, sambau padi burung dan rumput miang
Whip S	23 ml. mixed by 3 galon water	6 barrels	25 to 35 days after seeding	Sambau misan, sambau padi burung, rumput miang dan rumput colok china
Rumputox	1 kg. for 1 relung	2 begs	21 days after seeding	Rumput daun lebar dan rusiga
Basmi 311	60 gm. mixed by 3 galon water	1 barrel	7 to 14 days after seeding	Rumput daun lebar dan rusiga

(Data Source : MADA)

TABLE 4.5

PARAMETER LIMITS FOR WATERCOURCE DISCHARGE OF EFFLUENT FROM PRESCRIBED PREMISES OCCUPIED OR USED FOR THE PRODUCTION OF PALM OIL OR ITS ASSOCIATED PRODUCTS

PARAMETERS	LIMITS OF DISCHARGE FOR PERIOD 1-1-1984 AND THEREAFTER
Biochemical Oxygen Demand (BOD) 3-day, 30 C; mg/l	100
Chemical Oxygen Demand (COD) ; mg/l	-
Total Solids ; mg/l	-
Suspended Solids ; mg/l	400
Oil and Grease ; mg/l	50
Ammoniacal Nitrogen ; mg/l	150*
Total Nitrogen ; mg/l	200*
pH	5.0 - 9.0
Temperature C	45

* Value of filtered sample

Source : Environmental Quality (Prescribed Premises) (Palm Oil) Regulations 1977
Second Schedule

TABLE 4.6

PARAMETER LIMITS FOR WATERCOURCE DISCHARGE OF EFFLUENT FROM PRESCRIBED PREMISES OCCUPIED OR USED FOR THE PRODUCTION OF CONCENTRATED LATEX OR ITS ASSOCIATED PRODUCTS

PARAMETERS	LIMITS OF DISCHARGE FOR PERIOD 1-4-1983 AND THEREAFTER
Biochemical Oxygen Demand (BOD) 3-day, 30 C; mg/l	100 (50*)
Chemical Oxygen Demand (COD) ; mg/l	400
Total Solids ; mg/l	-
Suspended Solids ; mg/l	150 (100*)
Ammoniacal Nitrogen ; mg/l	300
Total Nitrogen ; mg/l	350
pH	6 - 9

* This additional limit is the arithmetic mean value determined on the basic of a minimum of four samples taken at least once a week for four weeks consecutively.

Source : Environmental Quality (Prescribed Premises) (Raw Natural Rubber) Regulations 1977 Third Schedule

TABLE 4.7 LIST OF FACTORIES /SOURCES OF WATER POLLUTION IN MUDA RIVER BASIN ①

No.	Name & Address of Factories	Types of Production	Quantity & Quality of Effluent Discharged	Treatment of Effluent	Name of Stream to which the Effluent is Discharged
1.	Getah Batu Pekaka Estste Factory Batu 21, Jalan kulim - Baling Kuala Ketil, Kedah.	Latex Concentrate - 8 MT/Day	Q = 122 M³/Day - $BOD_{3\ day\ at\ 30\ C}$ = 69ppm COD = 292ppm TN = 42ppm AN = 33ppm SS = 113ppm	Biological / Ponding System (anaerobic & Faultative ponds)	Sg.Sedim / Sg.Muda
2.	Lubok Segintah Estate SMR Factory Kuala Ketil, Kedah.	SMR - L 4 MT/Day	Q = 120 M³/Day $BOD_{3\ day\ at\ 30\ C}$ = 45ppm COD = 280ppm TN = 24ppm AN = 4ppm SS = 200ppm	Biological / Ponding System (anaerobic & aerobic ponds)	Sg.Muda
3.	Euroma Rubber Ind. Sdn. Bhd. Lot 45 & 46, Mukim Bagan Sena 09010 Labu Besar, Kulim, Kedah.	SMR - 10/20 - 20 MT/Day	Q = 200 M³/Day $BOD_{3\ day\ at\ 30\ C}$ = 42ppm COD = 158ppm TN = 34ppm AN = 24ppm SS = 5ppm	Biological / Ponding System (anaerobic & aerobic ponds)	Sg.Sedim / Sg.Muda
4.	Getah Felda Teloi Timur Factory 09300 Kuala Ketil, Kedah.	i) Latex Concentrate 21 MT/Day ii) SMR Block - 44 MT/Day	Q = 900 M³/Day $BOD_{3\ day\ at\ 30\ C}$ = 49ppm COD = 150ppm TN = 143ppm AN = 131ppm SS = 50ppm	Biological / Ponding System (anaerobic, Faultative and aerobic ponds)	Sg. Telok Nyior / Sg.Muda

TABLE 4.7 ②

No.	Name & Address of Factories	Types of Production	Quantity & Quality of effluent Discharged	Treatment of effluent	Name of Stream to which the effluent is Discharged
5.	Sungai Tawar Latex Co. Sdn. Bhd. Kg. Dara, Sg Tawar Kuala Ketil, Kedah.	i) Latex Concentrate 23 MT/Day ii) SMR - 10 - 6 MT/Day	Q = 200 M³/Day $BOD_{3\ day\ at\ 30\ C}$ = 95ppm COD = 330ppm TN = 96ppm AN = 94ppm SS = 35ppm	Biological / Ponding System (anaerobic & aerobic ponds)	Sg. Tawar / Sg. Ketil/Sg. Muda
6.	Getah Mardec Bhd. Kuala Pegang, Baling, Kedah.	i) SMR Block Rubber - 56 MT/Day	Q = 720 M³/Day $BOD_{3\ day\ at\ 30\ C}$ = 24ppm COD = 85ppm TN = 53ppm AN = 33ppm SS = 180ppm	Biological / Ponding System (anaerobic, Faultative and aerobic ponds)	Sg. Ketil/ Sg. Muda
7.	Getah Mardec Bhd. Factory Kampung Pasir, Jeniang, Gurun, Kedah.	i) Latex Concentrate - 32 MT/Day ii) Skim Blok - 5 MT/Day	Q = 630 M³/Day $BOD_{3\ day\ at\ 30\ C}$ = 65ppm COD = 225ppm TN = 118ppm AN = 99ppm SS = 136ppm	Biological / Ponding System (anaerobis, Faultative and aerobic ponds)	Sg. Muda
8.	Baderoch Estate Rubber Factory Kuala Ketil, Kedah.	i) Latex Concentrate - 6 MT/Day ii) SMR Block Rubber - 4 MT/Day	Q = 120 M³/Day $BOD_{3\ day\ at\ 30\ C}$ = 1800ppm COD = 4741ppm TN = 465ppm AN = 420ppm SS = 840ppm	Row effluent - > holding pond - > land disposal	Disposed on Land (Sg.Kejai /Sg.Sedim/Sg.Muda)
9.	Kuala Ketil Estate Rubber Factory 09300 Kuala Ketil kedah Darulaman	i) Latex Concentrate - 10 MT/Day ii) SMR - Block Rubber - 11 MT/Day	Q = 150 M³/Day $BOD_{3\ day\ at\ 30\ C}$ = 34ppm COD = 128ppm TN = 29ppm AN = 4ppm SS = 140ppm	Biological / Ponding System (anaerobic & aerobic ponds)	Sg.Sedim/Sg.Muda

TABLE 4.7 (3)

No.	Name & Address of Factories	Types of Production	Quantity & Quality of Effluent Discharged	Treatment of Effluent	Name of Stream to which the Effluent is Discharged
10.	Tiong Huat Rubber Factory Sdn. Bhd. Sungai Division, U.P Estate 08000 Sungai Petani,	i) Latex Concentrate - 12 MT/Day ii) SMR - Block Rubber - 50 MT/Day	Q = 500 M³/Day BOD 3 day at 30 C = 20ppm COD = 104ppm TN = 54ppm AN = 64ppm SS = 36ppm	Biological / Ponding System (anaerobic & aerobic ponds)	Sg.Jerung /Sg.Muda
11.	Getah Padang Meiha Plantation Factory. Padang Serai, Kulim, Kedah Darulaman.	i) Latex Concentrate - 7 MT/Day ii) SMR - Block Rubber - 3 MT/Day	Q = 460 M³/Day BOD 3 day at 30 C = 10ppm COD = 80ppm TN = 31ppm AN = 26ppm SS = 10ppm	Biological / Ponding System (anaerobic & aerobic ponds)	Sg. Jemeril /Sg.Sedim/ Sg. Muda
12.	Ladang Pinang Tunggal Rubber Factory. Jalan Kuala Ketil, Sg. Petani, Kedah Darulaman.	i) Latex Concentrate - 9 MT/Day ii) Skim - Block Rubber - 2 MT/Day	Q = 180 M³/Day BOD 3 day at 30 C = 19ppm COD = 81ppm TN = 20ppm AN = 11ppm SS = 20ppm	Biological / Ponding System (anaerobic & aerobic ponds)	Sg. Muda
13.	Taclico Co. Sdn. Bhd. (Palm Oil Mill) Padang Serai, Kedah	Crude Palm Oil - 60 MT/Day	Q = 150 M³/Day BOD 3 day at 30 C = 403ppm COD = 1200ppm SS = 744ppm O&G = 23ppm	Biological / Ponding System Disposal on Land (anaerobic & faultative and aerobic ponds)	Sg.Karangan /Sg.Sedim / Sg.Muda
14.	Setiakawan Palm Oil Factory Sdn. Bhd. 93A, Kg. Batu Puteh Karang, Kulim, Kedah.	Crude Palm Oil - 100MT/Day	Q = 264 MT/Day BOD 3 day at 30 C = 26ppm COD = 214ppm SS = 26ppm O&G = 7.6ppm	Biological / Ponding System (anaerobic & Faultative and aerobic ponds)	Sg.Karangan /Sg.Sedim / Sg. Muda
15.	Penta Textile Sdn. Bhd. Lot 2475, Carok Padang, Sik, Kedah.	Textile / Towel	Q = 30 M³/Day BOD 3 day at 30 C = 50ppm COD = 100ppm SS = 100ppm O&G = 10ppm	Biological / Ponding System (anaerobic & aerobic ponds)	Sg. Muda

TABLE (4)

No.	Name & Address of Factories	Types of Production	Quantity & Quality of Effluent Discharged	Treatment of Effluent	Name of Stream to which the Effluent is Discharged
16.	Chin Soon Huat Sdn. Bhd. No. 91, Sungai Karang Padang Serai Kedah Darulaman (Tapioca Factory)	Tepung Ubi & Sagu - 50 MT/Day	Q = 50 M³/Day	Biological / Ponding System (Sedimentation and aerobic ponds)	Sg.Karangan /Sg.Sedim/ Sg. Muda

Note : BOD - Biochemical Oxygen Demand

COD - Chemical Oxygen Demand

TN - Total Nitrogen

SS - Suspended Solids

O&G - Oil and Grease

DOCU. 4.1

QUESTIONNAIRES
TO FACTORIES/BREEDING FARMS
IN MUDA RIVER BASIN
(with reference numbers for preparation of summary)

JICA Study Team for Comprehensive Management Plan of Muda river basin needs some data/information on factories/livestock-breeding-farms located in the Muda river basin as one of necessary data for the study.

Please prepare the answers to the following questionaires.
(Please write down with clear block letters)
(Rough figures are accepted if the detailed data are not available)

Your name:

Your position & section:

Name of your factorty:

Full Address/Location:

Tel. No. :

Q1 Products

Common name	Specifit name	Annual Production (Quantity)

Q2 Annual Sales and Benefit (RM)

Annual Sales	Benefit

Q3 Process of Major Production (Please explain in a flow diagram)

Q4 Treatment of Solid Waste

(1)Quantity

Name of Waste	Quantity(Year/month/day)	% of Treatment

(2)Disposal/Treatment system
(Please explain briefly the treatment system of waste)

Q5 Treatment of Effluent(Waste water/Drainage water)

(1) Quantity of Effluent(year/month/day)

(2) Drainage/Treatment System(Diagram if possible)

(3) Percentage of Un-Treated Quantity
(How much of the total effluent is drained without sufficient treatment ?)

(4) Water Quality of Effluent
(if you have any data)

(5)Name of Stream to which the effluent is drained
(Names of tributary stream and main stream)

Q6 Environmental Activities
(Please describe the activities ,other than the treatment mentioned above), for environmental conservation/protection taken by your factory/farm/company , if any)

Q7 Do you know "Love River (Cintai Lah SungaiKita)"campaign by DID/JPS ?

Please select one of the following.

1.( ) Yes, I know.
2.( ) Yes, but I don't know the detail.
3.( ) No, I have never heard the name.

Q8 There are some factories (rubber, oil palm, etc.) and livestock breeding farms(big, chicken, etc.) located nearby tributaries of Muda river.

The drainage water of factories is actually more or less polluted ,although each factory has treatment facilities(Settling basin etc.)and the water quality of tributary located downstream side of factory is gradually improved by dilution in the further downstream.

Do you think that the factories are considered as pollution sources of Muda river? Please select one of the following.

1.( ) Surely Yes.(pollution source)
2.( ) More or less ,Yes.
3.( ) More or less ,No.
4.( ) No.(not pollution source)

If you select "No"or "More or less , No.", Please descrive the reason below.

( )

( )
( )
( )
( )

Q9 Which do you think is the serious pollution sources to water quality of Muda river ?
Please select from the following(no limit of selected numbers).

1.( ) Rubber factories
2.( ) Oil-palm factories
3.( ) Timber processing factories
4.( ) Pig breeding farms
5.( ) Pumping stations
6.( ) Town/village(Drainage water)
7.( ) Disposal of garbage/rubbish
8.( ) Sand mining
9.( ) Others( )

Q10 Please describe your comments on the matter of this questionnaire, if any.

( )
( )
( )
( )
( )
( )
( )
( )

Thank you.

LIST OF FACTORIES
which answered to the Questionnaires

No. 1

Name of person (who filled in the papers)	: S. P. Mah
Position/Section (of the person)	: Estate Manager
Name of Factory	: Selame ? Factory
Lacation/Address (of the factory)	: 09800 Serdang , Kedah
Tel. Number (of the factory)	: 04 - 4077245

No. 2

Name of person (who filled in the papers)	: Lai Ah Choy
Position/Section (of the person)	: Asst. Engineer
Name of Factory	: Setiakawan Palm Oil Mill
Lacation/Address (of the factory)	: 98 - A Batu Putih, Mk. Padang Cina, 09700 Kulim, Kedah
Tel. Number (of the factory)	: 04 - 4056121 / 122

No. 3

Name of person (who filled in the papers)	: Teh Sar Moh Nee
Position/Section (of the person)	: Estate Manager
Name of Factory	: Ladang Pelam
Lacation/Address (of the factory)	: Ladang Pelam, 09009 Kulim , Kedah
Tel. Number (of the factory)	: 04 - 4057227

No. 4

Name of person (who filled in the papers)	: Khor Kim Tong
Position/Section (of the person)	: Executive Director
Name of Factory	: Taclico Company SDN. BHD.
Lacation/Address (of the factory)	: Lot 20, 21 & 29, Mk. Padang 09400 Padang Serai
Tel. Number (of the factory)	: 4855-602

No. 5

Name of person (who filled in the papers)	: ?
Position/Section (of the person)	: Thye Group Estate Manager
Name of Factory	: Boontong Estate Sdn. Bhd. Thye Group Estates
Lacation/Address (of the factory)	: P. O. box 20, 08007 Sungai Petani ,Kedah
Tel. Number (of the factory)	: ?

No. 6

Name of person (who filled in the papers)	: Loh Chin Kiang
Position/Section (of the person)	: Factory Manager
Name of Factory	: Plantation Latex (m) SDN BHD
Lacation/Address (of the factory)	: P.O.Box 1, 08007 SG Petani, Kedah River Side Factory, 08100 Bedong, Kedah
Tel. Number (of the factory)	: 04-4582001

No. 7

Name of person (who filled in the papers)	: HJ Zainal B Omar
Position/Section (of the person)	: Senior Manager
Name of Factory	: Mardec Baling
Lacation/Address (of the factory)	: Mardec BHD 09110 Koala Pegang Baling, Kedah
Tel. Number (of the factory)	:

No. 8

Name of person (who filled in the papers)	: Gan Hock Teng
Position/Section (of the person)	: Manager
Name of Factory	: Lee Latex (PTE) Ltd.,
Lacation/Address (of the factory)	: P.O.Box 204, 08100 Bedong, Kedah
Tel. Number (of the factory)	: 04-4584121/2/3

DOCU. 4.2 ③

No. 9

Name of person
(who filled in the papers) : Cheng Weng Seah
Position/Section (of the person) : Manager
Name of Factory : Tai Teong Rubber Factory Sdn. Bhd.
Location/Address (of the factory) : 1460, Simpang Tiga, 13300 Tasek Glugor, S. Perai.
Tel. Number (of the factory) : 04 - 5731235 & 5731213

No. 10

Name of person
(who filled in the papers) : Wong Mok
Position/Section (of the person) : Clark
Name of Factory : Sungai Tawar Latex Co. Sdn. Bhd.
Location/Address (of the factory) : Sungai Tawar Estate, Bhg. 2, 09310 Kuala Ketil Kedah D/A
Tel. Number (of the factory) : 04 - 4766217 , 011 - 455586

No. 11

Name of person
(who filled in the papers) : Ding Toy Huah
Position/Section (of the factory) : Manager Plantation
Name of Factory : Bertam Estate Rubber Factory.
Location/Address (of the factory) : Bertam Estate, 13200 Kepala Batas, Seberang Perai Utara.
Tel. Number : 04 - 5751095

No 12

Name of person
(who filled in the papers) : Wai Wai Mun
Position/Section (of the factory : Estate Manager
Name of Factory : Padang Meiha Estate
Location/Address (of the factory) : 09400, Padang Serai, Kedah Darulaman.
Tel. Number : 04 - 4855212

DOCU. 4.3 Summary of Answer to Questionnaires to Factories(Q7-Q9)

Que.No.	1	2	3	4	5	6	7	8					Total
Q7													
1		*	*			*	*						4
2	*			*				*					3
3													
Q8													
1						*							1
2	*		*	*			*	*					5
3		*											1
4													
Q9													
1							*						1
2						*	*						2
3													
4						*	*						2
5													
6	*					*	*						3
7	*			*		*	*						4
8	*			*									2
9	*		*	*									3

Note : Factory No.5 returned the questionnaire papers without answers.

Note : Factories No.9 ~ No.12 are not included in this summary but their answer are taken into account for the planning.

DOCU. 4.4

SUMMARY OF ANSWERS BY FACTORIES
TO THE QUESTIONNAIRES (2)
(WRITTEN ANSWERS)

Q1 Products

Factory No.1

-Standard Malaysian Rubber (SMR)
- Production completely ceased on Nov.1,1994 due to lack of material.

Factory No.2

Common name	Specific name	Annual Production (Quantity)
Crude palm oil		36,000 metric ton
Palm Kernel		12,000 metric ton

Factory No.4

Common name	Specific name	Annual Production (Quantity)
Crude Palm oil		17,000 metric ton
Palm Kernal		4,000 metric ton

Factory No.6

Common name	Specific name	Annual Procuction (Quantity)
MGLX,MG 30/49 PA57, PA80, SPR881 ADS, SP20/40/50	Megapoly Latex, Megapoly 30, Megapoly 49, Propoly 57/80, Super Poly Rubber Smoked Sheet/Air Dried Sheet, Super Poly 20/40/50	2750mt

Factory No.7

Common name	Specific name	Annual Procuction (Quantity)
1. Later Concentrate	L•A/H•A	8000
2. SKIM		900

3. SMR 10	500
4. SMR 20	12700
5. 20 CV	1200

Factory No.8

Common name	Specific name	Annual Procuction (Quantity)
CENTRIFUGED LATEX 60% DRC	-	10,500 M/TONS.

Q2 Annual Sales and Benefit (RM)

Factory No.1

- Not applicable - Production has ceased.

Factory No.2

Annual Sales	Benefit
RM 75 million	RM million

Factory No.4

Annual Sales	Benefit
$20,000,000.00	

Factory No.6

Annual Sales	Benefit
RM 13,750,000.00	

Factory No.7

Annual Sales	Benefit
50 Millions	1.5 Millions

Factory No.8

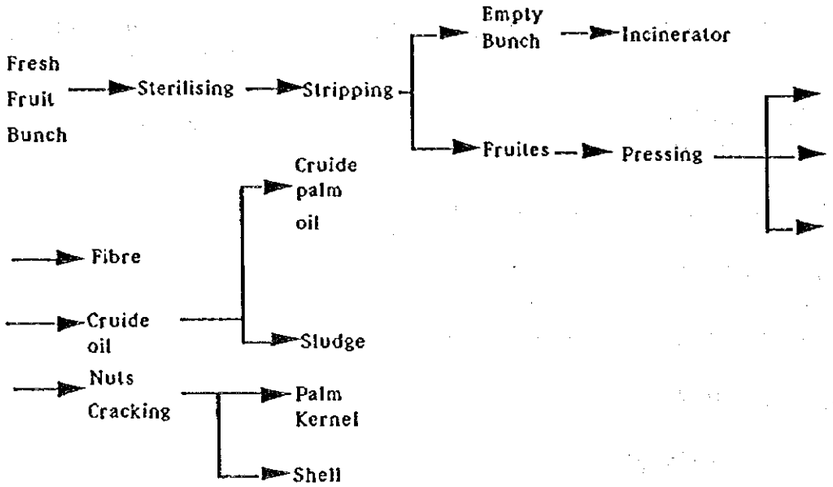
Annual Sales	Benefit
RM21,652,452	-

Q3 Process of Major Production (Please explain in a flow diagram)

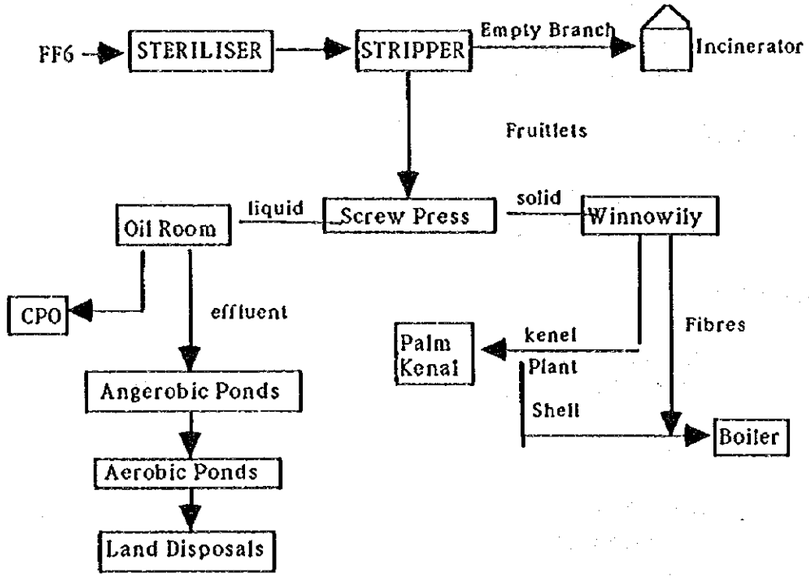
Factory No.1

- Not applicable - Production has ceased.

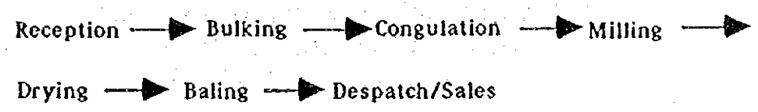
Factory No.2



Factory No.4



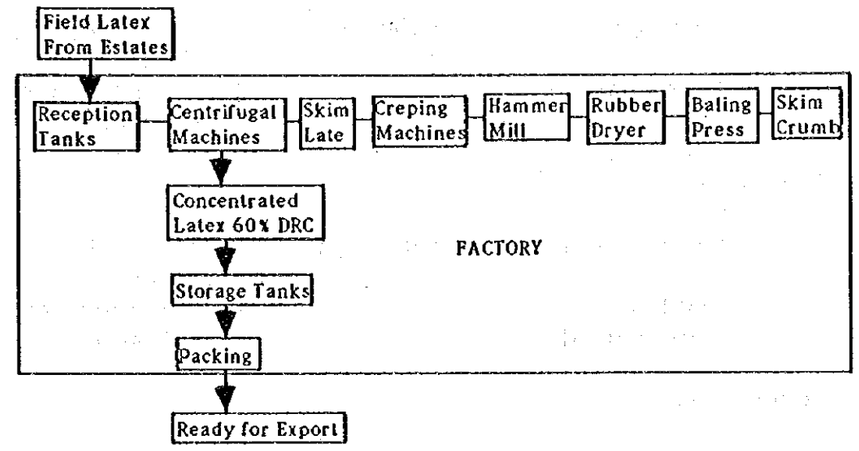
Factory No.6



Factory No.7

1. Latex Concentrate Production (Appendix 1)
2. Skim Production (Appendix 2)
3. SMR 20 Production (Appendix 3)
4. 20 CV Production (Appendix 4)

Factory No.8



Q4 Treatment of Solid Waste

(1)Quantity

Factory No.1

Nil.

Factory No.2

Name of Waste	Quantity(Year/month/day)	% of Treatment
Empty bunch	40,000 mt/year	100% burnt
Fibre	24,000 mt/year	100% burnt
Shell	12,000 mt/year	sold

Factory No.4

Name of Waste	Quantity(Year/month/day)	% of Treatment
Empty bunch	23,000/1900/120	100%

Factory No.6

Name of Waste	Quantity(Year/month/day)	% of Treatment
Vulcanise Rubber	6,000/500/20	0.6%

Factory No.7

Name of Waste	Quantity(Year/month/day)	% of Treatment
1. Sludge		Nil
2. Earth/Barks/Dirt Debris		Nil

Factory No.8

Name of Waste	Quantity(Year/month/day)	% of Treatment
SLUDGE	365/30/1 KGS	100%

(2)Disposal/Treatment system
(Please explain briefly the treatment system of waste)

Factory No.2

Empty Bunch are burnt in Incinerator and sold as fertilizer.
Fibre is burnt as fuel for boiler.
Shell is sold as fuel for boiler.

Factory No.4

Incinerator ——— Branch Ash ——▶ Ferfiliser

Factory No.6

Local Sale/Land Disposal

Factory No.7

Refer Q5 (2)

Factory No.8

We dispose off our factory effluent with the help of rubber traps, drainage system, compositing pond and finally aeration & air blower system before discharging into the river.

Q5 Treatment of Effluent(Waste water/Drainage water)

(1) Quantity of Effluent(year/month/day)

Factory No.1

Not applicable - Production has ceased. When the factory was in operation, the effluent was treated by anaerobic and aerobic ponding syatem.

Factory No.2

120,000 mt / year

Factory No.4

1,080,000/3600/114 m^3

Factory No.6

90,000/7,500/250 cubic meters

Factory No.7

1. Latex Concentrate/Skim Plant	1500³m
2. SMR Plant	3500³m

Factory No.8

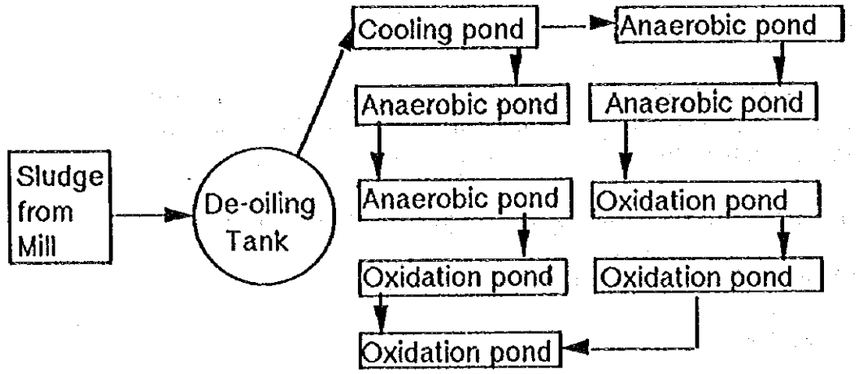
180,000/15,000/600 CUBIC METRES

(2) Drainage/Treatment System(Diagram if possible)

Factory No.2

Sludge from Mill flow to a de-oiling tank where remnants of oil is recovered, then flow to a cooling pond where the sludge is cooled, then follow by anaerobic action where waste is breakdown by anearobic bacteria and finally to oxidation pond.

DOCU. 4.4.⑦



Factory No.4

Treatment Consists of two oil traps followed by a storage ditch, three anaerobic ditches with retention time of 30 days each, One aerobic ditch with a retention time of 15 days and two facultative polishing ditches with 15 days retention time each. The final discharge is through spinkle system for land application.

Factory No.6

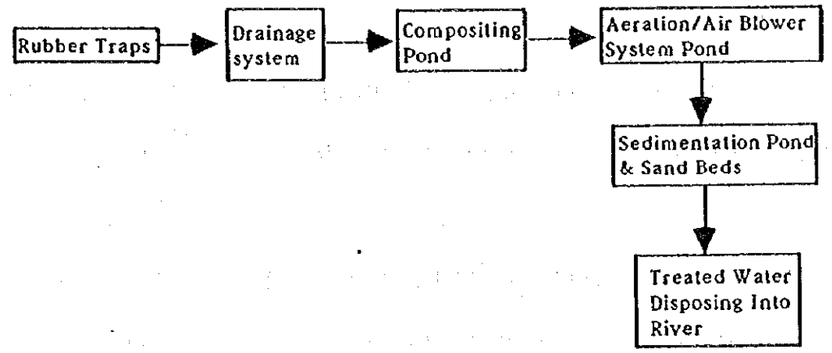
Factory ⟶ Drain ⟶ Rubber Trop ⟶ Aerobic Pond ⟶
Aerobic Pond ⟶ Pond ⟶ Pump out onto the Land

Factory No.7

1. Latex Concentrate/Skim (Appendix 5)
2. SMR Plant (Appendix 6)

Factory No.8

DOCU. 4.4 ⑧



(3) Percentage of Un-Treated Quantity
(How much of the total effluent is drained without sufficient treatment ?)

Factory No.1

All effluent was treated.

Factory No.2

None.

Factory No.4

Nil

Factory No.6

Nil

Factory No.7

Nil

Factory No.8

0 %

(4) Water Quality of Effluent
(if you have any data)

Factory No.1

Water quality of effluent meet the parameters imposed by

Department of Environment.

Factory No.2

Data as per Union Lab. Sdn. Bhd. tested on 2/12/94
(Detail as per list attached)

Factory No.4

BOD(3days, 30C)	100 - 250	Total Nitrogen: 200 -250
COD(mg/l)	700 -1000	Ammoniacal Nitrogen - 150
Total Solid (mg/l)	2000	
Oil & Grease (mg/l)	20	

Factory No.6

Attached

Factory No.7

1. Concentrate/Skim — Appendix 7
2. SMR — Appendix 8

Factory No.8

pH	7.20	Ammonical Nitrogen	209
B.O.D.	29	Total Nitrogen	297
C.O.D.	112		
Total Solid	1644		
Susp Solid	43		

(5)Name of Stream to which the effluent is drained
(Names of tributary stream and main stream)

Factory No.1

Sungai Salleh(?) , Sungai Kedah

Factory No.2

Sungai Karangan

Factory No.6

Nil

Factory No.7

1. Concentrate/Skim
2. SMR

Factory No.8

SUNGEI TOH PAWANG/SUNGEI BONGKOH

Q6 Environmental Activities
(Please describe the activities ,other than the treatment mentioned above), for environmental conservation/protection taken by your factory/farm/company , if any)

Factory No.1

Soil and moisture conservation terraces, planting legume covers, maintenance of streams and drains.

Factory No.3

Practice good husbandry or improve agro-management practices.

Factory No.4

Used 3-phrase decanter system to reduce solid waste to effluent pouds.

Factory No.6

Nil

Factory No.7

1. Please refer Appendix 9

Q8 There are some factories (rubber, oil palm, etc.) and livestock breeding farms(big, chicken, etc.) located nearby tributaries of Muda river.

The drainage water of factories is actually more or less polluted ,although each factory has treatment facilities(Settling basin etc.)and the water quality of

tributary located downstream side of factory is gradually improved by dilution in the further downstream.

Do you think that the factories are considered as pollution sources of Muda river?

If you select "No"or "More or less , No.", Please descrive the reason below.

Factory No.2

Factory have treatment ponds to treat effluent.

Q9 Which do you think is the serious pollution sources to water quality of Muda river ?
Please select from the following(no limit of selected numbers).

Factory No.1

Rice fields , surface run-off water.

Factory No.3

Not sure which tributaries are feeding into Muda River.

Factory No.4

Land cleaning

Q10 Please describe your comments on the matter of this questionnaire, if any.

Factory No.1

Factories and farming activities in State Kedah(surrounding area) would unlikely contribute towards the pollution problems of Muda River Basin.

Factory No. 2

All industries , township & villages contribute more or less some pollution. However , our factory try to reduce/improve effluent quality.

Factory No. 6

He is a good idea to seek opinion and views from others on this matter. We wish to emphasize here that not only the Muda River but all the rivers in our country should be clean at all time, so that the future generation will have a longer and healthier life.