Table 3.5.16 Water Quality Data of Mukuvisi River

		m³/day	mdd	тд/Г	mg/L	mg/L	mg/L		mg/L	uS/cm		mg/L	твЛ
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Ha	T-Alkalinity	Electric Conductivity	Total Hardness	Phosphate	Dissolved Oxygen
Mutare RD	27/2/90	-	1.00	5.0	TR	NIL	0.007	6.18	20.0	20.0	54.0	0.01	5.50
L.Kariba	27/2/90	-	1.00	10.0	1.020	0.005	NIL	3.70	NIL.	460.0	1100.0	0.26	
Msasa RD	27/2/90	-	0.80	14.0	1.600	0.006	0.003	4.95	4.0	128.0	400.0	0.06	
Widd RD	27/2/90	-	1.20	19.0	0.090	NIL	NIL	6.72	12.0	132.0	400.0	0.26	
Hartfield RD	27/2/90	-	1.20,	23.0	0.320			6.77	20.0	148.0	425.0	0.07	
Cripps RD	27/2/90	-	3.40	30.0	0.490		0.060	6.98	60.0	154.0	480.0	0.24	
Boshoff RD	<i>27/2/</i> 90	-	0.60	27.0	0.370		0.030	6.99	60.0	146.0	440.0	0.13	
Beatrice RD	27/2/90	-	0.60	27.0	0.120		0.031	6.26	14.0	172.0	475.0		6.80
Amalinda	27/2/90	-	2.60	26.0	0.120		0.005	6.66	22.0	144.0	825.0	0.27	6.70
At Manyame	27/2/90	-	4.20	40.0	1.960	0.085	0.470	7.08	76.0	126.0	500.0	0.01	3.10
Mutare RD	14/8/90	-	1.20	11.0	STR	STR	0.017	6.50		40.0	150.0		0.60
L.Kariba	14/8/90	-	2.60	51.0	3.240		0.035	3.60	NIL	800.0	2030.0	2.84	
Msasa RD	14/8/90	-	5.20	67.0	1.680	0.009	0.030	3.53	NIL	280.0	1340.0		0.10
Widd RD	14/8/90	-	0.60	43.0	STR	STR	0.025	6.28	42.0	160.0	450.0		7.20
Hartfield RD	14/8/90	-	1.40	41.0	0.660		0.046	6.02	102.0	180.0	550.0		2.90
Cripps RD	14/8/90	-	3.40	41.0	0.480	0.098	0.052	7.12	122.0	160.0	560.0		3.80
Boshoff RD	14/8/90	-	2.80	38.0	0.380	0.050	0.032		144.0	160.0	570.0		5.80
Beatrice RD	14/8/90	-	0.80	45.0	STR	TR	0.104	7.41	108.0	160.0	650.0		6.30
Amalinda	14/8/90	-	3.80	45.0	0.340	0.015	0.050	7.20	104.0	160.0	550.0	0.05	2.50
At Manyame	14/8/90	<b>-</b>	5.20	33.0	1.840	0.860	0.264	7.27	138.0	120.0	710.0	0.13	2.70
Mutare RD	12/2/91	-	4.00	5.0	0.220		0.068	6.26	45.0	140.0	750.0	0.03	
L Kariba	12/2/91	-	2.20	15.0	1.080		0.010	3.82		640.0	145.0		8.00
Msasa RD	12/2/91		5.80	35.0	4.850		0.021	3.36		440.0	155.0	0.30	
Widd RD	12/2/91	-	2.00	25.0	1.720	0.014	0.019	5.33	NIL	320.0	800.0	0.12	4.00
Hartfield RD	12/2/91	_	1.60	65.0	0.960	0.044	0.016	6.35	45.0	260.0	700.0	0.03	4.80
Cripps RD	12/2/91		2.00	25.0	1.200		0.040	6.75	70.0	260.0	660.0		4.40
Boshoff RD	12/2/91	-	2.60	15.0		0.132	0.068	6.98	65.0	240.0	630.0	0.23	4.30
Beatrice RD	12/2/91	-	2.60	15.0	0.940		0.022	5.96	10.0	340.0	870.0	0.99	7.40
Amalinda	12/2/91		3.20	15.0		0.032	0.007	5.80	10.0	360.0	830.0		2.30
At Manyame	12/2/91		6.20	60.0	1.940	0.033	0.007	6.92	110.0	220.0	820.0	0.63	5.80

Table 3.5.16 Water Quality Data of Mukuvisi River (cont'd)

	_	m³/day	mdd	mg/L	mg/L	mg/L	mg/L		mg/t	uS/cm		mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Нd	T-Alkalinity	Electric Conductivity luS/cm	Total Hardness	Phosphate	Dissolved Oxygen
								0.55	04.0		400.0	0.00	4 00
Mulare RD	7/5/91	-	1.60	4.0	0.180		NIL	6.55	84.0	54.0	160.0	0.02	1.80
L.Kariba	7/5/91		1.40	39.0	1.700	0.007	0.091	3.76		950.0	230.0	0.12	4.20
Msasa RD	7/5/91		2.40	47.0	4.400	TR	0.043			330.0	1310.0	0.06	2.30
Widd RD	7/5/91		1.40	29.0		NIL	TR	6.56	50.0	170.0	540.0	0.02	5.30
Hartfield RD	7/5/91	_	2.20	44.0	0.840	0.064		6.96	132.0	478.0	590.0	0.02	1.30
Cripps RD	7/5/91	-	2.80	42.0	0.450	0.072	0.128	7.17	136.0	150.0	520.0	0.01	3.60
Boshoff RD	7/5/91	-	2.40	42.0	0.130	0.043		7.26	126 0	156.0	530.0	0.05	3.50
Beatrice RD	7/5/91	-	2.00	43.0		NIL	0.011	7.51	120.0	154.0	520.0	0.09	
Amalinda	7/5/91		2.40	142.0		NIL	0.008		136.0	160.0	850.0	0.12	1.50
At Manyame	7/5/91	-	7.00	85.0	6.600	0.012	0.010	7.36	180.0	108.0	750.0	1.48	1.30
Mutare RD	13/8/91	-	1.60	7.0	0.080		0.031	6.49	40.0	40.0	130.0	0.06	
L.Kariba	13/8/91	-	1.80	10.0	0.500		0.035			890.0			7.20
Msasa RD	13/8/91	_	4.00	36.0		0.005				350.0	1400.0		4.10
Widd RD	13/8/91	-	1.00	28.0	0.070		0.016		61.0	236.0	550.0		5.60
Hartfield RD	13/8/91	]	2.00	48.0		0.096				200.0	590.0	0.20	
Cripps RD	13/8/91	-	2.40	42.0	0.100				124.0	154.0	500.0	0.26	
Boshoff RD	13/8/91	•	2.20	42.0	0.090	0.020	0.001	7.26		160.0	510.0		
Beatrice RD	13/8/91	-	1.80	42.0	0.080		TR	7.52	134.0	165.0	580.0		
Amalinda	13/8/91	-	2.40	52.0	0.410		TR	8.78		158.0	570.0		1.50
At Manyame	13/8/91	-	11.00	91.0	5.000	0.005	0.008	7.49	200.0	135.0	770.0	1.00	1.40
Mutare RD	27/11/91	•	1.20	13.0	0.190		0.040		54.0	60.0	150.0		2.10
L.Kariba	27/11/91		3.60	43.0		0.098	1.550	6.12	10.0	430.0	190.0		7.10
Msasa RD	27/11/91	-	9.40	61.0	23.000		2.400	4.28	NIL.	530.0	1590.0		0.80
Widd RD	27/11/91	-	2.00	52.0			0.190				1100.0		3.20
Hartfield RD	27/11/91	-	3.20	42.0			0.040			276.0	790.0		2.00
Cripps RD	27/11/91	_	5.20	46.0			0.150			175.0			1.60
Boshoff RD	27/11/91	- ]	3.00	43.0			0.110			150.0			3.70
Beatrice RD	27/11/91		2.40	40.0			0.080			220.0			3.30
Amalinda	27/11/91		2.80	43.0			0.090			155.0	500.0		1.80
At Manyame	27/11/91	-	8.80	71.0	21.000	0.320	0.140	7.42	220.0	125.0	750.0	0.52	3.70
											<u> </u>		L

Table 3.5.16 Water Quality Data of Mukuvisi River (cont'd)

		m³/day	ш а а	mg/L	mg/L	mg/L	mg/L		mg/L	uS/cm		mg/t	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Ŧ	T-Alkalinity	Electric Conductivity uS/cm	Total Hardness	Phosphate	Dissolved Oxygen
Mutare RD	11/2/92	-	5.00	18.0		0.014		6.83	66.0	1200.0	80.0	0.07	3.50
L.Kariba	11/2/92	-	2.00	37.0	5.000	0.025	0.129	4.23	NIL.	1225.0	500.0	0.07	5.80
Msasa RD	11/2/92		19.40	37.0	1.500	0.013	0.001	6.63	98.0	600.0	260.0	0.74	2.10
Widd RD	11/2/92	-	11.00	52.0	0.130	0.008	0.015	6.72	62.0	800.0	175.0	0.29	0.50
Hartfield RD	11/2/92	-	2.40	60.0	1.300	0.075		7.34	158.0	1000.0	500.0	0.11	1.00
Cripps RD	11/2/92	-	3.20	46.0	0.630	0.073	0.067	7.45	124.0	750.0	300.0	0.40	2.50
Boshoff RD	11/2/92	-	3.40	43.0	0.310	0.068	0.015	7.48	128.0	550.0	180.0	0.11	3.10
Beatrice RD	11/2/92	-	2.60	40.0	TR	0.008	0.011	7.68	120.0	525.0	210.0	0.20	4.00
Amalinda	11/2/92	- ]	5.20	72.0	0.710	0.022	0.037	7.38	150.0		150.0	0.64	
At Manyame	11/2/92	-	6.00	83.0	2.800	0.350	0.200		140.0	600.0	220.0	1.14	
Mutare RD	2/6/92	-	3.60	31.0	TR	0.009	0.004	6.95	90.0	275.0	80.0	0.05	2.90
L.Kariba	2/6/92	-	2.40	39.0	8.200	0.006	0.088	3.30	NIL	2500.0	860.0	0.18	
Msasa RD	2/6/92	-	10.40	45.0	0.580	STR	0.008	6.92	180.0	590.0	280.0	0.38	
Widd RD	2/6/92	-	4.00	55.0	0.110	STR	0.045	6.81	80.0	870.0	335.0	0.14	
Hartfield RD	2/6/92	-	2.40	69.0	1.740	0.038	NIL	7.29	180.0	710.0	215.0	0.20	
Cripps RD	2/6/92	•	3.40	71.0	0.870	0.053	NIL	7.57	160.0	630.0	260.0		3.80
Boshoff RD	2/6/92	-	3.00	69.0	0.400	0.066	NIL	7.50	150.0	630.0	260.0		3.40
Beatrice RD	2/6/92	-	6.80	39.0	0 230	0.008	0.006	7.17	130.0	550.0	262.0	0.09	
Amalinda	2/6/92	-	4.60	75.0	0.170	0.007	0.007	7.51	150.0	650.0	275.0	0.23	3.20
At Manyame	2/6/92	-	5.40	125.0	5.600	0.290	0.045	7.55	190.0	710.0	145.0		
Mutare RD	31/7/92		1.80	34.0	0.130	NIL	0.001	7.11	30.0	35.0	95.0	0.20	6.40
L.Kariba	31/7/92	-	1.60	66.0	1.260	0.008	0.017	5.91	20.0	103.0	350.0		9.20
Msasa RD	31/7/92	-	NO SA								1		
Widd RD	31/7/92		4.40	34.0	TR	NIL	0.010	6.86	100.0	660.0	285.0	0.24	0.40
Hartfield RD	31/7/92	•	2.80	70.0	1.120	0.080	0.010	7.22	200.0	670.0	220.0	0.04	0.30
Cripps RD	31/7/92	-	2.40			0.088				600.0	155.0		4.30
Boshoff RD	31/7/92		2.00	58.0			0.008			610.0	160.0	0.36	3.60
Beatrice RD	31/7/92	-	2.20	58.0			0.006		150.0	610.0	165.0		4.30
Amalinda	31/7/92	-	2.60	74.0	NIL	0.044	0.006		170.0	660.0	170.0		2.90
At Manyame	31/7/92		6.00	122.0	7.000		0.001		160.0	1050.0	150.0		0.70

Table 3.5.16 Water Quality Data of Mukuvisi River (cont'd)

		m³/day	mdd	mg/L	mg/L	mg/L	mg/L		mg/L	uS/cm		mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Hd	T-Alkalinity	Electric Conductivity uS/cm	Total Hardness	Phosphate	Dissolved Oxygen
Mutare RD	2/11/92	-	4.80	57.0	0.470	0.300	NIL	9.06	100.0	450.0	123.0	0.10	4.60
L.Kariba	2/11/92	-		MPLE			and the same						
Msasa RD	2/11/92	-	17.20	83.0		NIL	TR	7.38	230.0	1100.0	280.0	0.76	3.00
Widd RD	2/11/92	-	NO S	AMPL	E								
Hartfield RD	2/11/92	-	3.40	61.0	0.220	0.095		7,26	170.0	560.0	161.0	0.07	
Cripps RD	2/11/92	-	4.60	69.0	0.290	0.086	0.154	7.47	150.0	730.0	132.0		2.50
Boshoff RD	2/11/92	-	1.40	67.0	0.330	NIL	0.013		160.0	670.0	131.0		3.50
Beatrice RD	2/11/92	-	3.20	77.0	0.100		0.023		190.0	740.0	132.0		2.70
Amalinda	2/11/92	-	4.80	89.0	0.640	0.058	NIL	7.50	220.0	850.0	160.0		1.30
At Manyame	2/11/92	-	2.60	137.0	0.700	0.057	0.005	7.45	220.0	1150.0	132.0	1.03	0.70
Mutare RD	1/12/92	-	8.40	61.0	0.200	0.014	0.020	6.87	170.0	550.0	134.0	0.18	0.50
L.Kariba	1/12/92	-	NO S	AMPLE							anteste à VIII		
Msasa RD	1/12/92	-	21.60	53.0	0.390	NIL	TR	6.52	130.0	700.0	194.0	0.43	NIL
Widd RD	1/12/92	-	NO S	AMPLE									
Hartfield RD	1/12/92	-	2.80	59.0	TR	TR	0.010			620.0	162.0	0.16	
Cripps RD	1/12/92	-	3.00	67.0	0.740		0.080			660.0	128.0	0.16	
Boshoff RD	1/12/92	<b> </b> -	5.40	71.0	0.420		0.020			670.0	154.0		2.00
Beatrice RD	1/12/92	·	7.40	55.0			0.010			560.0	142.0	0.72	
Amalinda	1/12/92	-	7.20	79.0	0.250		0.010			700.0	150.0		2.10
At Manyame	1/12/92	-	10.20	131.0	18.000	0.200	NIL	7.59	260.0	1180.0	168.0	1.82	3.20
		Ī					- p						
Mutare RD	7/1/93	-	6.00	13.0	0.180		0.012		16.0	125.0	40.0	0.02	
L.Kariba	7/1/93	<u> </u>	4.00	27.0		0.012				179.0	900.0		6.60
Msasa RD	7/1/93	-	3.80	117.0						205.0	585.0		3.40
Widd RD	7/1/93	Ī -	1.80		16.200					155.0	170.0		3.20
Hartfield RD	7/1/93	L-	1.80		12.800					1260.0			4.70
Cripps RD	7/1/93	-	2.40		10.000	0.110	0.890	6.46		1130.0			5.30
Boshoff RD	7/1/93	L-	2.20	55.0		0.220	0.680	6.49	24.0	1050.0	370.0		4.60
Beatrice RD	7/1/93	<u> </u>	2.40	47.0		0.320					273.0		4.90
Amalinda	7/1/93	<u> </u>	2.20	73.0		0.120					150.0		4.40
At Manyame	7/1/93		7.00	67.0	3.200	0.210	0.290	7.33	180.0	640.0	145.0	0.92	3.90
	]	L		<u> </u>	<u></u>	<u> </u>		<u>L</u>	L				L

Table 3.5.16 Water Quality Data of Mukuvisi River (cont'd)

		m³/day	тсс	mg/L	mg/L	mg/L	mg/L		mg/L	uS/cm		mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Hd	T-Alkalinity	Electric Conductivity	Total Hardness	Phosphate	Dissolved Oxygen
Mutare RD	1/2/93		6.60	15.0	0.210	STR	0.010	6.48	140.0	70.0	58.0	0.06	NIL
L.Kariba	1/2/93	-	4.40	43.0	0.400	0.013	0.610	4.22		1430.0	170.0	1.90	6.80
Msasa RD	1/2/93	-	7.00	61.0	4.400		0.280	6.67	60.0	640.0	310.0	0.43	
Widd RD	1/2/93	-	3.00	97.0	9.800	0.018		5.15	30.0	1320.0	1050.0	0.09	
Hartfield RD	1/2/93	_	2.60	101.0	3.700	0.034		6.37	70.0	750.0	400.0	0.10	3.90
Cripps RD	1/2/93	-	3.00	73.0	3.300	0.032	0.770	6.96	60.0	640.0	250.0	0.05	5.30
Boshoff RD	1/2/93	-	3.20	53.0	1.450	0.082	0.640	7.00	70.0	500.0	300.0	0.04	5.00
Beatrice RD	1/2/93	-	3.20	41.0	0.370	0.041	0.580	7.20	50.0	390.0	170.0	0.29	5.60
Amalinda	1/2/93	-	4.00	53.0	0.250	0.029	0.140	7.31	50.0	460.0	206.0	0.20	
At Manyame	1/2/93	-	6.00	61.0	0.740	0.045	0.090	7.65	70.0	490.0	182.0	0.57	4.70
Mutare RD	5/4/93	_	4.40	9.0	TR	0.005	TR	6.38	30.0	90.0	29.0	0.13	1.00
L.Kariba	5/4/93	-	3.20	41.0	2.700	0.006		3.69		1460.0	1100.0	5.32	3.50
Msasa RD	5/4/93	-	3.20	35.0	1.800	0.005		5.90	40.0	550.0	500.0		3.10
Widd RD	5/4/93	-	0.80	35.0	0.100	TR	0.025	5.87	20.0	550.0	450.0	0.44	3.70
Hartfield RD	5/4/93	-	1.60	47.0	1.350	0.031	0.010	6.68	50.0	550.0	300.0	0.13	
Cripps RD	5/4/93	-	2.20	53.0	1.800	0.051	0.015	7.42	100.0	520.0	300.0	0.04	4.30
Boshoff RD	5/4/93	-	1.20	67.0	0.800	0.108	0.092	6.95	110.0	520.0	500.0	0.74	5.60
Beatrice RD	5/4/93	-	2.00	51.0	0.320	0.104	0.126	7.13	60.0	520.0	400.0	1.23	6.00
Amalinda	5/4/93	-	2.00	43.0	0.180	0.014	0.048	7.00	70.0	500.0	350.0	1.23	4.30
At Manyame	5/4/93	-	9.60	79.0	9.400	0.200	NIL.	7.17	210.0	630.0	450.0	2.92	3.40
Mutare RD	6/6/93	-	17.00	17.0	0.330	TR	0.049	6.32	6.0	110.0	120.0	0.09	NIL
L.Kariba	6/6/93	-	2.00	45.0	4.700	0.016	0.474	3.68	NL	1550.0	900.0	3.20	7.50
Msasa RD	6/6/93	-	23.00	-	3.800	0.018	0.412	3.55	NIL	2000.0	650.0	3.00	NIL
Widd RD	6/6/93	-	1.20	61.0	0.150	NIL	0.150	5.84	NIL	600.0	290.0	0.09	3.00
Hartfield RD	6/6/93	<u> </u>	0.80	69.0					120.0	600.0	260.0	0.08	3.70
Cripps RD	6/6/93	-	1.20	57.0	1.750	0.145	0.215	7.27	120.0	450.0	210.0	0.16	4.80
Boshoff RD	6/6/93	[ -	1.60	65.0	1.450	0.081	0.210	7.22	130.0	480.0		0.07	4.00
Beatrice RD	6/6/93	-	1.80			NIL	0.210	7.58	120.0	470.0	200.0		7.70
Amalinda	6/6/93	-	1.40	59.0	TR	TR	0.170	7.32	120.0	450.0	190.0	0.24	5.20
At Manyame	6/6/93	-	3.80	111.0	13.200	0.112	0.138	7.38	220.0	750.0	170.0	2.72	3.00
													<u> </u>

Table 3.5.16 Water Quality Data of Mukuvisi River (cont'd)

		m³/day	mdd	mg/L	mg/L	mg/L	πg/L		mg/L	uS/cm	on the same of	mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Hd	T-Alkalinity	Electric Conductivity	Total Hardness	Phosphate	Dissolved Oxygen
Mutare RD	23/8/93	-	3.20	15.0	0.120	NIL	0.028	6.84	100.0	120.0	48.0	0.23	4.90
L.Kariba	23/8/93	-	NO SAM	IPLE									
Msasa RD	23/8/93	-	24.80	63.0	0.015	TR	0.035	6.19	20.0	660.0	264.0	0.23	
Widd RD	23/8/93		2.40	39.0	0.013	TR	0.022	6.86	100.0	480.0	197.0	0.31	3.80
Hartfield RD	23/8/93	-	3.00	67.0	0.900	0.160	0.012	7.24	150.0	575.0	208.0	0.44	1.00
Cripps RD	23/8/93	-	3.40	69.0	2.350	0.046	0.036	7.68	180.0	560.0	184.0	0.88	
Boshoff RD	23/8/93	-	3.20	65.0	1.250	0.067	0.047	7.57	170.0	550.0	-	0.38	
Beatrice RD	23/8/93	-	3.00	65.0	0.120	NIL	0.027	7.75	160.0	550.0	182.0	0.90	6.90
Amalinda	23/8/93	-	5.00	73.0	0.280	NIL	0.015	7.52	180.0	550.0	176.0	1.14	2.20
At Manyame	23/8/93	-	10.60	109.0	9.000	0.104	0.108	7.63	220.0	800.0	138.0	2.24	2.50
	-												
Mutare RD	1/11/93	-	15.80	11.0	0.320	TR	0.050	6.54	110.0	100.0	82.0	0.01	
L.Kariba	1/11/93	-	4.40	63.0	0.300	0.006	0.022	3.46	NIL.	1650.0	585.0	0.37	5.60
Msasa RD	1/11/93	-	18.00	65.0	13.000	TR	0.018	4.64	20.0	1375.0	470.0	4.52	NIL.
Widd RD	1/11/93	-	NO SA	MPLE									
Hartfield RD	1/11/93	•	3.60	47.0	0.430	0.008	0.015	7.23	190.0	600.0	176.0	0.05	
Cripps RD	1/11/93	-	4.20	59.0	1.400	0.067	0.023	7.57	180.0	550.0	180.0		4.90
Boshoff RD	1/11/93	-	3.60	55.0	1.620	0.007	0.013	7.48	220.0	550.0	170.0	0.08	
Beatrice RD	1/11/93	-	7.40	55.0	0.370	STR	0.009		240.0	550.0	230.0	0.27	4 40
Amalinda	1/11/93		6.00	73.0	0.490	0.006	0.004	7.35	330.0	600.0	190.0		1.50
At Manyame	1/11/93	-	14.80	111.0	19.000	0.004	0.011	7.58	270.0	1050.0	140.0	4.52	1.90
		1										<u> </u>	
Mutare RD	11/1/94	Ī -	5.00	143.0	1.580	0.074				79.0	360.0	0.14	
L.Kariba	11/1/94	-	2.20	143.0		0.021				1050.0	440.0		7.50
Msasa RD	11/1/94	-	25.80	119.0		0.011				600.0	260.0	7.40	
Widd RD	11/1/94	-	4.00	123.0	5.400	0.010	0.084	3.77	NIL	1450.0	700.0		3.00
Hartfield RD	11/1/94	-	14.80	53.0		0.006							3.70
Cripps RD	11/1/94	T -		155.0		0.044							4.70
Boshoff RD	11/1/94	-	2.40	135.0	3.400	0.034	0.102	7.00	70.0	740.0			3.60
Beatrice RD	11/1/94	•		131.0		0.011	0.239	7.53	NIL	700.0	250.0		7.50
Amalinda	11/1/94	-	12.40	141.0		NIL	0.230				250.0		5.20
At Manyame	11/1/94	<u> </u>		207.0		0.015	0.200	7.40	190.0	800.0	180.0	2.16	0.90
									l		]		<u> </u>

Table 3.5.16 Water Quality Data of Mukuvisi River (cont'd)

		m³/day	mdd	mg/L	mg/L	mg/L	mg/L		mg/L	uS/cm		mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Hd	T-Alkalinity	Electric Conductivity	Total Hardness	Phosphate	Dissolved Oxygen
Mutare RD	26/4/94	-	NO SAI	MPLE									
L.Kariba	26/4/94	-	6.40	67.0	1.840	0.008	0.108	3.22	NIL	1560.0	152.0	0.01	0.10
Msasa RD	26/4/94	-	14.80	57.0	0.390	0.014	0.159	6.06	80.0	450.0	50.0	0.01	0.10
Widd RD	26/4/94	-	2.40	53.0	STR	NIL	0.080	5.90	30.0	650.0	60,0	0.88	3.70
Hartfield RD	26/4/94	-	3.40	87.0	1.900	0.130	0.044	6.80	140.0	600.0	460.0	0.07	2.40
Cripps RD	26/4/94	-	4.40	72.0	2.200	0.180	0.130	6.94	80.0	550.0	38.0		3.10
Boshoff RD	26/4/94	-	4.00	87.0	0.660	0.055	0.039	6.92	130.0	490.0	36.0	0.09	2.30
Beatrice RD	26/4/94	-	5.60	97.0	0.250	0.080	0.006	7.12	120.0	475.0	34.0	0.04	1.40
Amalinda	26/4/94	-	7.20	152.0	0.150	0.200	0.040	6.92	100.0	360.0	30.0	0.06	4.40
At Manyame	26/4/94	-	5.80	82.0	1.360	0.150	0.018	7.20	110.0	330.0	20.0	1.20	5.40
						· mind of the call of							
Mutare RD	30/8/94	-	3.60	25.0	0.520	STR	0.124	6.46	40.0	180.0	130.0	0.14	3.70
L.Kariba	30/8/94		7.60		15.200		0.750			3900.0	980.0	2.46	6.50
Msasa RD	30/8/94	-	6.60	115.0	8.300	0.005	0.205	3.48	N!L	1800.0	600.0		1.30
Widd RD	30/8/94	-	7.40	53.0	0.430	NIL.	0.096	6.66	90.0	550.0	280.0	1.60	3.40
Hartfield RD	30/8/94	-	5.80	63.0	2.800	0.016	0.119	6.98	110.0	640.0	258.0	1.32	1.90
Cripos RD	30/8/94		40.00	61.0	32.000		0.225	7.13	140.0	575.0	210.0	2.22	3.80
Boshoff RD	30/8/94	-	5.20	89.0	1.080	NIL.	0.250	7.25	280.0	980.0	220.0	11.10	
Beatrice RD	30/8/94	-	15.20	79.0	17.600	NIL	0.105		240.0	780.0	800.0	1.62	NIL.
Amalinda	30/8/94	-	12.20	83.0	8.800		0.054	7.22	230.0	740.0	620.0	4.54	NIL
At Manyame	30/8/94	-	17.80	119.0	22.500	STR	0.230	7.29	260.0	1060.0	215.0	1.54	NIL
		1											
Mutare RD	3/10/94	T -	1.80	27.0	1.280	NIL	0.090	6.21	150.0	-	80.0	0.16	0.80
L.Kariba	3/10/94		9.60	217.0	13.800	0.012	0.005	2.87	NIL	-	670.0	1.48	2.50
Msasa RD	3/10/94	Ī-	NO SAN	MPLE									
Widd RD	3/10/94	-	2.60	37.0	15.000	STR	0.270	6.59	110.0	•	235.0	0.22	1.80
Harifield RD	3/10/94	Ī	1.60	57.0	3.400	0.013	0.065	6.88	200.0	-	190.0	0.18	0.30
Cripps RD	3/10/94	<u> </u>	2.60	57.0		0.055	0.108	7.00	160.0	-	190.0		1.70
Boshoff RD	3/10/94	Ŀ	4.40	67.0	14.500	STR	0.030	7.06	200.0	-	190.0	0.16	1.60
Beatrice RD	3/10/94	Ŀ	5.80	67.0	3.000	0.032	0.023	7.13	250.0	-	190.0	0.42	1.20
Amalinda	3/10/94	Ŀ	17.60	97.0	3.600	0.010	0.038	7.14	200.0	-	210.0	0.70	2.10
At Manyame	3/10/94		14.60	107.0	28.500	TR	0.066	7.25	280.0	-	180.0	2.82	1.70
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Table 3.5.16 Water Quality Data of Mukuvisi River (cont'd)

		m³/day	wdd	mg/L	mg/L	mg/L	mg/L		mg/L	uS/cm		mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Нd	T-Alkalinity	Electric Conductivity	Total Hardness	Phosphate	Dissolved Oxygen
Mutare RD	3/11/94		3.00	57.0	0.110	0.010	0.013	6.57	100.0	350.0	105.0	0.72	
L.Kariba	3/11/94		28.00	147.0	9.800		0.081	2.77	NIL	5200.0	475.0	0.06	
Msasa RD	3/11/94	-	9.00	47.0	1.440		0.040	6.84	100.0	650.0	190.0	0.52	
Widd RD	3/11/94	_	2.00	97.0	0.470				30.0	950.0	370.0		4.00
Hartfield RD	3/11/94	-	3.20	47.0	0.480	0.027	0.064		100.0	700.0	275.0	0.81	
Cripps RD	3/11/94		3.00	73.0	0.900		0.076	7.27	120.0	650.0	230.0	0.96	
Boshoff RD	3/11/94	_	3.40	77.0	0.730	0.045	0.075	0.18	120.0	650.0	225.0	0.48	
Beatrice RD	3/11/94	_	4.40	57.0		0.098	0.020	7.39	80.0	500.0	185.0		4.30
Amalinda	3/11/94	-	5.60	61.0		0.099	0.257	7.42	80.0	450.0	135.0		3.50
At Manyame	3/11/94		12.20	105.0	17.000		0.025	7.59	210.0	800.0	155.0	1.23	1.00
Atmanjanio	0111101						-						
Mutare RD	29/12/94		6.40	47.0	0.150	TR	0.600	6.62	60.0	350.0	135.0	0.24	
L Kanba	29/12/94		17.80	247.0		0.025	0.095	2.60	NIL	5000.0	1200.0	1.20	
Msasa RD	29/12/94	-	38.80	47.4	2.720	0.028	0.066	6.23	120.0	650.0	265.0	2.60	
Widd RD	29/12/94	-	5.20	87.0	2.720	0.380	0.420	6.19	80.0	1400.0	515.0	0.84	
Hartfield RD	29/12/94	-	3.60	77.0	19.500	0.390	1.110	6.41	50.0	1100.0	400.0	0.28	
Cripps RD	29/12/94	-	3.00	77.0		0.290			60.0	920.0	345.0	0.04	
Boshoff RD	29/12/94	T	2.80	67.0	95.000	0.270	0.330	6.72	60.0	825.0	310.0	0.40	
Beatrice RD	29/12/94	<b> </b>	2.60	47.0	0.830	0.250				450.0	205.0	0.16	
Amalinda	29/12/94	-	4.20	57.0	0.610		0.380			500.0	210.0	0.40	
At Manyame	29/12/94	-	7.80	67.0	14.000	0.450	0.080	7.08	100.0	500.0	190.0	1.16	5.40
		t											
Mutare RD	23/2/95		7.60	37.0	0.110		0.220		120.0	300.0	100.0	0.06	
L.Kanba	23/2/95	† <u>-</u> -	5.40	169.0	7.100	0.008				375.0	1060.0	1.00	
Msasa RD	23/2/95	<del> </del> -	2.20	89.0	1.760				150.0		160.0	3.22	
Widd RD	23/2/95	<b> </b>	2.00	91.0	4.200	TR	0.550				480.0	0.12	
Hartfield RD	23/2/95	-	4.40	75.0	13.000	0.090	0.005	7.34	115.0	850.0			
Cripps RD	23/2/95	<u>-</u>	2.60		9.000	0.285	0.045	6.94	160.0	750.0	200.0	0.16	
Boshoff RD	23/2/95	-	21.00	71.0		0.250	0.025	7.84	160.0	750.0	200.0	0.08	
Beatrice RD	23/2/95	-	6.80	59.0	TR	0.006	0.050	8.02	120.0	675.0	185.0		6.5
Amalinda	23/2/95	·	15.00	81.0	2.200	0.010	0.041	7.58	140.0	700.0	185.0		1.20
At Manyame	23/2/95	T-	12.80	109.0	17.000	STR	1.200	7.80	290.0	1050.0	150.0	1.38	NIL
		<b> </b>	[		[		L	<u> </u>	<u>L</u>				L

Table 3.5.16 Water Quality Data of Mukuvisi River (cont'd)

		m³/day	E dd	mg/L	mg/L	mg/L	mg/L		mg/L	uS/cm		mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Ha	T-Alkalinity	Electric Conductivity	Total Hardness	Phosphate	Dissolved Oxygen
Mutare RD	28/4/95	-	26.50	19.0	0.340		0.006	6.48	140.0	290.0	95.0	0.04	0.75
L.Kariba	28/4/95	-	NO S	AMPLE									
Msasa RD	28/4/95	-	25.60	81.0	6.200	0.049	0.001	6.70	110.0	850.0	180.0	0.06	0.25
Widd RD	28/4/95	-	5.80	75.0	0.320	0.006	0.001	6.70	120.0	750.0	190.0	0.09	NIL
Hartfield RD	28/4/95	-	2.80	75.0	0.530	0.120	NIL	7.03	160.0	750.0	195.0	0.11	0.50
Cripps RD	28/4/95	-	2.50	72.0	0.300	0.110	NIL	7.18	150.0	720.0	170.0	0.02	2.50
Boshoff RD	28/4/95	-	2.50	73.0	0.270	0.060	0.054	7.29	160.0	740.0	170.0	0.06	3.05
Beatrice RD	28/4/95	-	2.10	73.0	NIL.	TR	0.007	7.32	160.0	730.0	170.0	0.11	NIL
Amalinda	28/4/95	-	3.80	81.0		TR	0.005	7.30	160.0	750.0	180.0	0.12	3.40
At Manyame	28/4/95	-	13.40	121.0	10.800	TR	0.004	7.23	270.0	1130.0	170.0	0.18	NIL
Mutare RD	10/7/95	-	NO S	AMPLE	LEGITA								
L.Kariba	10/7/95	-	NO S	AMPLE									
Msasa RD	10/7 <i>/</i> 95	-	2.60	81.0	0.420	0.046	0.150	6.75	70.0	660.0	146.0	2.44	0.65
Widd RD	10/7/95	-	7.00	57.0	0.160	0.010	0.012	6.86	100.0	650.0	230.0	NIL	NIL
Hartfield RD	10/7/95	-	2.40	83.0	0.350	0.050		7.09	100.0	680.0	182.0	0.32	1.80
Cripps RD	10/7/95	-	3.20	79.0	0.090	0.084		7.16		650.0	160.0	2.20	2.80
Boshoff RD	10/7/95	-	2.00			0.043	0.034		200.0	700.0	166.0	0.16	3.70
Beatrice RD	10/7/95	-	2.30	77.0	0.120	0.028	0.042	7.47	130.0	650.0	148.0	0.62	
Amalinda	10/7/95	-	1.80	87.0		0.031	0.012	7.35	170.0	690.0	152.0	0.80	5.30
At Manyame	10/7/95	-	NO S	AMPLE									
Mutare RD	15/8/95	-	NO S	AMPLE									
L Kanba	15/8/95	-	4.80	261.0	0.650	0.128	NIL	6.22	60.0	1000.0	1000.0	0.21	5.50
Msasa RD	15/8/95	-	22.40	87.0	1.880	0.010	NIL	6.88	160.0	1000.0	2200.0	2.61	NIL
Widd RD	15/8/95	-	14.70	57.0	0.160	TR	0.030	7.11	140.0	2200.0	1000.0	0.24	3.60
Hartfield RD	15/8/95	-	4.10	85.0	0.640	0.061	0.075	7.17	180.0	1000.0	1000.0	0.07	1.10
Cripps RD	15/8/95		1.80	81.0	0.820	0.245	NIL	7.26	190.0	1000.0	1000.0		2.20
Boshoff RD	15/8/95		3.90	87.0	0.520	0.195	0.013	7.46	210.0	1000.0	1000.0	0.16	2.90
Beatrice RD	15/8/95	-	9.00	91.0	0.130	0.010	0.009	7.41	210.0	1000.0	1000.0	0.11	3.30
Amalinda	15/8/95		7.90	87.0	1.100	TR	0.011	7.30	190.0	1000.0	1000.0		0.65
At Manyame	15/8/95	-	7.50	137.0	5.000	0.980	NIL	7.58	300.0	1100.0	1100.0	1.24	4.70

Table 3.5.16 Water Quality Data of Mukuvisi River (cont'd)

		m³/day	wdd	mg/L	mg/L	mg/L	mg/L		mg/L	ms/sm		mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Н¢	T-Alkalinity	Electric Conductivity uS/cm	Total Hardness	Phosphate	Dissolved Oxygen
Mutare RD	14/10/95	-		MPLE									
L.Kariba	14/10/95	-	NO SA	MPLE									
Msasa RD	14/10/95	-	NO SA	MPLE						.,			
Widd RD	14/10/95	-	NO S	<b>AMPLE</b>				- المراجع المر		. <del> </del>			
Hartfield RD	14/10/95	-	5.40	89.0	0,490		0.027	6.88	230.0	780.0	460.0	1.65	1.70
Cripps RD	14/10/95	•	4.80	93.0	0.820	0.030	0.038		230.0	810.0	465.0	0.40	
Boshoff RD	14/10/95	-	4.90	103.0	0.470		0.015		230.0	840.0	495.0	1.55	1.95
Beatrice RD	14/10/95	-	11.00	107.0	0.270	0.030	0.032	7.53	210.0	900.0	510.0	0.59	
Amalinda	14/10/95	-	6.00	127.0	0.240	TR	0.017	7.40	260.0	940.0	520.0	1.59	
At Manyame	14/10/95	-	10.70	149.0	6.400	0.250	0.015	7.48	270.0	1250.0	430.0	1.65	3.80
Mutare RD	19/12/95	-		AMPLE									
L.Kanba	19/12/95	-	NO S	AMPLE									
Msasa RD	19/12/95	-	NO S	AMPLE									
Widd RD	19/12/95	-	NO S	AMPLE									
Hartfield RD	19/12/95	-	6.00	15.0		0.008			50.0	190.0	70.0	1.07	2.25
Cripps RD	19/12/95	-	3.10	63.0		0.180			100.0	700.0	190.0	0.32	2.60
Boshoff RD	19/12/95	-	4.80	47.0	0.250	0.140			90.0	510.0	150.0	0.09	
Beatrice RD	19/12/95	-	3.40	65.0			0.097		70.0	340.0	190.0	0.21	5.35
Amalinda	19/12/95	-	4.60		STR	0.080	0.020	6.87	50.0	650.0	170.0	0.17	5.15
At Manyame	19/12/95	-	NO S	AMPLE									
Mutare RD	13/2/96		4.90	361.0	0.120		0.016		30.0	130.0	50.0	0.20	4.35
L.Kariba	13/2/96	-	3.60	45.0	11.500		0.027	4.43		1860.0	830.0		6.95
Msasa RD	13/2/96	-	6.60		13.000	0.006	0.009		20.0	1950.0	260.0	4.84	
Widd RD	13/2/96	-	3.70	37.0		STR	0.015		10.0	700.0	240.0	0.24	3.95
Hartfield RD	13/2/96	-	3.00								250.0		5.75
Cripps RD	13/2/96		2.90						60.0				5.00
Boshoff RD	13/2/96		3.60		0.110				90.0	-1	230.0		4.80
Beatrice RD	13/2/96		2.80		TR		0.016		60.0				6.80
Amalinda	13/2/96		3.20			0.031	0.014	6.88	60.0	560.0	170.0	0.05	5.40
At Manyame	13/2/96	-	NO S	AMPLE		~~~							
	<u>L</u>	<u></u>	<u> </u>	L		<u> </u>	l						l

Table 3.5.16 Water Quality Data of Mukuvisi River (cont'd)

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1		m³/day	mdd	mg/L	mg/L	mg/L	mg/L		mg/L	uS/cm		mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	На	T-Alkalinity	Electric Conductivity	Total Hardness	Phosphate	Dissolved Oxygen
Mutare RD	21/5/96	-	NO S	AMPLE									
L.Kariba	21/5/96	-	NO S	AMPLE									
Msasa RD	21/5/96	-	NO S	AMPLE									
Widd RD	21/5/96	-	NO S	AMPLE							.,,		
Hartfield RD	21/5/96	-	4.10		0.270				30.0	460.0	240.0		5.00
Cripps RD	21/5/96	-	4.70	25.0	0.460		0.009		40.0	200.0	80.0	3.32	7.00
Boshoff RD	21/5/96	-	3.50	23.0	0.290	0.006			40.0	200.0	110.0	0.62	
Beatrice RD	21/5/96		1.30	61.0	0.150		4-W-050		40.0	570.0	100.0		7.50
Amalinda	21/5/96	Ŀ	1.00	65.0	0.200	0.023	NIL	6.88	70.0	560.0	220.0	0.88	6.50
At Manyame	21/5/96	-	NO S	AMPLE									<u>[</u> _

Table 3.5.17 Water Quality Data of Marimba River

		m³/day	mdd	mg/L	mg/L	mg/L	mg/L		mg/L	uS/cm		mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Hď	T-Alkalinity	Electric Conductivity uS/cm	Total Hardness	Phosphate	Dissolved Oxygen
Bulawayo RD	5/12/89	-	2.60	19.0	0.090	0.005	0.003	7.32	160.0	360.0	130.0	0.06	5.20
Westwood RD	5/12/89	-	5.40	42.0		0.011	0.006	7.40	190.0	560.0	160.0	0.55	1.10
Kambuzuma RD	5/12/89	-	5.60	42.0	1.240	0.150	0.020	7.48	170.0	560.0	280.0	0.70	1.50
Above Crow.	5/12/89	-	15.20	130.0	0.540	0.083	0.012	7.61	200.0	1200.0	270.0		2.00
Below Crow.	5/12/89	-	11.80	72.0	0.920	0.100	0.105	7.67	210.0	750.0		0.54	1.90
At Lake	5/12/89	-	11.80	71.0	0.860	0.152	0.023	7.79	210.0	840.0	160.0	0.26	4.90
Bulawayo RD	27/3/90		9.00	15.0	0.360	TR	0.026	7.19	80.0	220.0	110.0	0.16	5.50
Westwood RD	27/3/90		8.60	21.0		0.127	0.058	7.09	110.0	450.0	180.0	0.71	2.40
Kambuzuma RD	27/3/90		11.20	21.0	2.160	0.180	0.145	7.19	100.0	475.0	150.0	0.36	0.50
Above Crow.	27/3/90	-	8.20	27.0	0.320	0.040		7.48	180.0	540.0	160.0	0.49	4.50
Below Crow.	27/3/90	-	5.40	51.0	0.180	0.029	0.038		150.0	575.0	150.0	0.37	5.20
At Lake	27/3/90		5.40	54.0	0.360		0.045	7.73	150.0	620.0	150.0	0.39	5.80
1000	2.1,0.00					l							
Bulawayo RD	11/9/90	-	3.20	43.0	NIL.	0.020	0.045	7.28	240.0	560.0	280.0	0.02	6.90
Westwood RD	11/9/90		6.80		STR	0.010	0.018	7.35	250.0	780.0	260.0	0.34	NIL
Kambuzuma RD	11/9/90	-	4.60	59.0		0.058	0.212	7.57	240.0	740.0	240.0	TR	3.00
Above Crow.	11/9/90		14.00	·	0.350	0.088	0.022	7.79	250.0	1160.0	280.0	0.16	5.20
Below Crow.	11/9/90	-	9.60	117.0	0.350	0.071	0.083	7.76	250.0	1110.0	300.0	0.08	4.30
At Lake	11/9/90		9.20		0.150	0.062		7.84	230.0	1110.0	260.0	0.04	7.50
, a conto						<u> </u>	<u> </u>						
Bulawayo RD	26/2/91	-	3.80	15.0	0.140	0.004	0.007	7.17	140.0	280.0	140.0	0.04	5.50
Westwood RD	26/2/91		3.40	30.0	0.600	0.020	0.008	7.38	220.0	560.0	240.0	0.29	4.40
Kambuzuma RD	26/2/91	-	6.00	35.0	0.980	0.052	0.006	7.40	210.0	580.0	220.0	0.43	4.60
Above Crow.	26/2/91		3.40	71.0	0.130		0.017	7.80	240.0	640.0	240.0	0.21	7.60
Below Crow.	26/2/91		4.20	55.0		0.008			240.0	650.0	240.0	0.22	6.00
At Lake	26/2/91		9.00		0.200					740.0	160.0	0.55	6.40
THE LUNG	2012101												
Bulawayo RD	21/5/91		0.40	37.0	STR	NIL	0.015	7.82	190.0	470.0	225.0	0.03	7.60
Westwood RD	21/5/91	<del></del> -	1.20		0.130						235.0		
Kambuzuma RD	21/5/91		1.00						220.0		235.0		
Above Crow.	21/5/91	<del>  -</del> -			0.750						220.0		
Below Crow.	21/5/91		4.00		0.750	0.033	0.057	7.76	250.0		235.0		
At Lake	21/5/91		7 20		1.480						190.0		
W Fave	2113131	- <u>-</u> -	1.20	121.0	1.700	J. J. J.	0.100					1	
L	ļ	<u> </u>	L	L	L	l	L	L	L,	LJ	L	l	L

Table 3.5.17 Water Quality Data of Marimba River (cont'd)

And the same of th		m³/day	mdd	⊓g/L	mg/L	mg/L	mg/L		mg/L	us/sn		mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Hd	T-Alkalinity	Electric Conductivity	Total Hardness	Phosphate	Dissolved Oxygen
Bulawayo RD	27/8/91	-	2.40	40.0	TR	0.020	0.001	7.71	205.0	510.0	244.0	0.06	7.20
Westwood RD	27/8/91	-	8.20	57.0		0.023	0.001	7.73	266.0	770.0	245.0	0.70	1.40
Kambuzuma RD	27/8/91	•	5.80	59.0	0.250		0.001	7.69	260.0	750.0	241.0	0.30	2.50
Above Crow.	27/8/91		6.20	131.0	2.440	0.110	0.042	7.90	298.0	1150.0	265.0	0.66	5.40
Below Crow.	27/8/91	-	8.40	132.0	1.260	0.148	0.028		304.0	1120.0	290.0		
At Lake	27/8/91	-	9.80	121.0	6.800	0.122	0.044	7.85	274.0	1100.0	212.0	1.64	3.20
												<u> </u>	
Bulawayo RD	6/11/91	-	5.00	23.0			0.410		270.0	470.0	231.0		
Westwood RD	6/11/91	-	24.60	74.0	8.800	0.048	0.190		250.0	1040.0	236.0		
Kambuzuma RD	6/11/91	-	7.60	90.0	0.960	0.031	0.220		380.0	920.0	210.0		
Above Crow.	6/11/91	-	10.60	65.0	0.460	0.014	0.410	7.41			850.0		
Below Crow.	6/11/91	-	9.80	77.0	3.150	0.148	0.450	7.53		700.0	154.0		
At Lake	6/11/91	-	21.00	162.0	16.000	0.430	0.330	7.95	410.0	1310.0	171.0	4.08	6.10
		i —											
Bulawayo RD	25/2/92	-	2.80	32.0	0.100	0.008	0.004	7.74	228.0	500.0	245.0		
Westwood RD	25/2/92		21.60	104.0	1.300		TR	7.64	352.0	1000.0			
Kambuzuma RD	25/2/92	-	11.00	117.0	0.300	TR	TR	7.76	336.0	1050.0			
Above Crow.	25/2/92	-	4.00	65.0	0.110	0.005	0.005	7.96	208.0	650.0	195.0		
Below Crow.	25/2/92	<u> </u>	22.20	100.0	12.500	TR	TR	7.46	266.0		149.0		
At Lake	25/2/92	-	15.20	116.0	11.500	0.009	0.003	7.87	288.0	900.0	173.0	4.66	2.20
													<u> </u>
Bulawayo RD	16/6/92		4.00	54.0	0.160		TR	7.80			195.0		
Westwood RD	16/6/92	_	8.60	76.0	0.140		0.003	7.52	270.0		208.0		
Kambuzuma RD	16/6/92	<u> </u>	4.20	64.0	1.120		0.003	7.52	240.0		209.0		
Above Crow.	16/6/92	<u> </u>	4.80	114.0	0.120	1	NIL	8.17	300.0	990.0			
Below Crow.	16/6/92		5.40	110.0	0.980	0.020	0.032	7.85	250.0	1000.0			
At Lake	16/6/92		7.80	142.0	3.150	0.072	0.104	7.97	290.0	1080.0	161.0	1.90	6.70
		<u>L_</u>		<u> </u>	<u></u>		<u> </u>						
Bulawayo RD	17/8/92	<u> </u>	5.20							560.0			
Westwood RD	17/8/92				5.840					1340.0			
Kambuzuma RD	17/8/92	_			2.040	0.006	0.016	7.68	350.0	1040.0	275.0	0.16	0.21
Above Crow.	17/8/92	·		145.0	0.620	0.180	0.070	7.89	320.0	1170.0	265.0	0.68	5.10
Below Crow.	17/8/92			147.0		0.188	0.052	7.89	210.0	1070.0	160.0	0.64	6.50
At Lake	17/8/92		6.60	141.0	NIL	0.132	0.188	8.18	220.0	1070.0	180.0	1.16	8.40
	<u> </u>	<u>l</u>	<u> </u>	<u> </u>	<u></u>	<u>L</u>	<u> </u>	<u> </u>	l	<u> </u>	<u> </u>	<u> </u>	<u></u>

Table 3.5.17 Water Quality Data of Marimba River (cont'd)

		m³/day	ppm	mg/L	mg/L	mg/L	mg/L		mg/L	uS/cm		mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Hd	T-Alkalinity	Electric Conductivity uS/cm	Total Hardness	Phosphate	Dissolved Oxygen
Bulawayo RD	17/9/92	-	1.60	33.0	TR	0.016	0.040	7.78	230.0	560.0	255.0		
Westwood RD	17/9/92	-	15.60	165.0	0.980	0.007	0.022	7.66	370.0	1300.0	303.0	1.62	NIL
Kambuzuma RD	17/9/92	-	9.60	165.0	5.600		0.010	7.80	350.0	1440.0	275.0		
Above Crow.	17/9/92	-	6.60	155.0	0.120	0.016	0.015	7.85		1280.0			
Below Crow.	17/9/92	-	7.80	141.0	0.870	0.021	0.160	7.86			140.0		
At Lake	17/9/92	-	7.40	145.0	0.850	0.054	0.033	7.84	200.0	1095.0	148.0	0.55	5.50
Bulawayo RD	14/10/92	-	2.40	29.0	STR	0.035					290.0		
Westwood RD	14/10/92	-	5.80	155.0	0.610	0.022	0.078	7.58		1550.0			
Kambuzuma RD	14/10/92	-	4.40	171.0	0.170			7.72	330.0	1420.0			
Above Crow.	14/10/92	-	13.80	179.0	0.480					1500.0			
Below Crow.	14/10/92	-	10.20	157.0	5.700		1.500	7.66			210.0		
At Lake	14/10/92	-	6.60	155.0	0.190	0.029	0.496	7.89	210.0	1150.0	160.0	1.16	5.00
													]
Bulawayo RD	17/11/92	-	4.60	27.0	TR	0.023	0.169	7.68			256.0		
Westwood RD	17/11/92	-	25.80	241.0	1.360	0.250				1850.0			
Kambuzuma RD	17/11/92	-	12.20	221.0	4.000	0.030	0.050	7.42		2400.0			
Above Crow.	17/11/92	-	22.60	85.0	2.240	TR	0.030		200.0		228.0		
Below Crow.	17/11/92	•	9.20	143.0	2.240	0.031	0.050		208.0	1050.0	158.0		
At Lake	17/11/92	-	7.40	155.0	NIL	0.014	0.120	7.86	196.0	1190.0	136.0	0.78	4.50
Bulawayo RD	7/12/92	-	3.00	39.0	NIL		0.094		<u></u>	590.0			
Westwood RD	7/12/92	-	8.60	257.0			0.050				352.0		
Kambuzuma RD	7/12/92	-	27.20	95.0	0.150		0.034				268.0		
Above Crow.	7/12/92	-	8.80		15.000	NIL	0.021	7.36			196.0		
Below Crow.	7/12/92	٠	6.80			0.070		7.48					
At Lake	7/12/92		2.20	171.0	1.040	0.028	0.030	7.56	244.0	1540.0	150.0	1.18	1.80
												<u> </u>	
Bulawayo RD	12/1/93	-	9.40	25.0	0.150				120.0		130.0		
Westwood RD	12/1/93		6.00			0.050					170.0		
Kambuzuma RD	12/1/93	-	5.60	37.0		0.370					144.0		
Above Crow.	12/1/93		5.40			0.027					150.0		
Below Crow.	12/1/93		5.60			0.025					160.0		
At Lake	12/1/93	Ŀ	4.00	105.0	0.800	0.230	0.122	7.78	170.0	820.0	166.0	0.40	5.50
	<u> </u>	<u> </u>	<u> </u>		<u> </u>	L	<u></u>	<u>L</u>	<u> </u>	<u> </u>	L	l	LJ

Table 3.5.17 Water Quality Data of Marimba River (cont'd)

		m³/day	mdd	mg/L	mg/L	mg/L	mg/L		mg/L	uS/cm		mg/L	mg/∟
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Hđ	T-Alkalinity	Electric Conductivity uS/cm	Total Hardness	Phosphate	Dissolved Oxygen
Bulawayo RD	16/2/93	-	5.20	21.0		STR	0.035	7.47	184.0	310.0			4.80
Westwood RD	16/2/93	-	5.40	31.0	4.000		0.640		152.0		190.0		
Kambuzuma RD	16/2/93	-	4.20		STR		0.286	7.27	120.0	350.0			
Above Crow.	16/2/93	-	8.20	42.0			0.174	7.45		350.0			4.30
Below Crow.	16/2/93	-	11.20	68.0	1.800		0.160	7.61	160.0	470.0	171.0	0.06	4.40
At Lake	16/2/93	-	8.00	41.0	0.900	0.054	0.132	7.60	112.0	320.0	103.0	0.01	5.50
Bulawayo RD	13/4/93	-	7.80	13.0	0.250	0.005	0.035	7.52	60.0	150.0			
Westwood RD	13/4/93	-	10.20	57.0	11.500	3.150	0.300	7.47	220.0	650.0	296.0	0.94	6.80
Kambuzuma RD	13/4/93	-	3.60	63.0	TR	0.050	0.270	7.51	190.0		241.0		
Above Crow.	13/4/93	-	9.40	123.0	0.180	0.013	0.087	7.80	260.0	680.0	280.0	0.65	5.40
Below Crow.	13/4/93	-	9.20	101.0	0.360	0.050	0.064	7.84	270.0		273.0		
At Lake	13/4/93	-	9.40	133.0	0.250	0.130	0.090	7.73	250.0	730.0	176.0	1.10	5.60
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Bulawayo RD	24/4/93	-	2.40	41.0	NIL	TR	0.060	7.68	240.0	440.0			
Westwood RD	24/4/93	-	1.80	69.0	TR	0.007	0.040	7.48	220.0		270.0		
Kambuzuma RD	24/4/93	-	2.20	61.0	0.150		0.040		190.0	640.0			
Above Crow.	24/4/93	Ŀ	8.80	143.0	0.430		0.060				280.0		
Below Crow.	24/4/93	Ŀ	4.00	125.0			0.120		ACCUPATION OF THE PARTY OF		280.0		
At Lake	24/4/93	<u> </u>	5.80	131.0	0.600	0.100	0.110	7.94	230.0	790.0	190.0	0.78	8.50
		<u> </u>		,	<u></u>							L	
Bulawayo RD	31/8/93	<u> </u>	1.40		STR	STR	0.038		200.0		224.0		
Westwood RD	31/8/93		3.80	57.0					280.0		290.0		
Kambuzuma RD	31/8/93	<u> </u>	5.20				0.039		260.0		256.0		
Above Crow.	31/8/93	<u> </u>	4	113.0			0.031		290.0		270.0		
Below Crow.	31/8/93	<u> </u>	5.80						320.0		316.0		
At Lake	31/8/93	<u>  -</u>	10.40	171.0	0.270	0.014	0.056	8.31	330.0	102.0	226.0	1.24	7.40
Bulawayo RD	23/9/93	<del>  -</del> -	1.00	42.0	0.170	0.008	0.047	7.85	210.0	450.0	240.0	0.02	5.60
Westwood RD	23/9/93	T	25.60							1000.0			
Kambuzuma RD	23/9/93	<del>  -</del>	8.60		2.950						290.0		
Above Crow.	23/9/93	<u> </u>	6.60				0.073				300.0		
Below Crow.	23/9/93	-	12.80				0.122				280.0		
At Lake	23/9/93	T -	7.00				0.370				220.0		
<u></u>		1	1	]		<b> </b>					<u> </u>		

Table 3.5.17 Water Quality Data of Marimba River (cont'd)

		m³/day	mdd	mg/L	тдЛ	mg/L	mg/L		mg/L	ms/sm		mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Hd	T-Alkalinity	Electric Conductivity	Total Hardness	Phosphate	Dissolved Oxygen
Bulawayo RD	16/11/93	_	4.40	73.0	0.120	TR	0.032	7.63	140.0	325.0	132.0		6.20
Westwood RD	16/11/93	_	5.60	99.0		0.006	0.008	6.88	200.0	669.0	186.0		
Kambuzuma RD	16/11/93	-	5.20	43.0	0.420	0.013	0.007	7.10	160.0	540.0	172.0		1.70
Above Crow.	16/11/93		7.40	107.0	4.800	0.030	0.006	7.45	200.0	750.0	160.0		
Below Crow.	16/11/93	-	7.80	67.0	1.000	0.056		7.66	180.0	650.0	182.0		
At Lake	16/11/93	-	10.20	107.0	0.270	0.036	0.004	7.78	180.0	800.0	160.0	0.88	5.50
Bulawayo RD	21/2/94	-	5.00	19.0	0.180			7.03	40.0	175.0		0.16	
Westwood RD	21/2/94	-	5.00	17.0	0.460				70.0	215.0			3.60
Kambuzuma RD	21/2/94	-	5.60	29.0	0.350		0.063		110.0	300.0	112.0		
Above Crow.	21/2/94	-	6.20	51.0		0.070			120.0	375.0			
Below Crow.	21/2/94	-	7.80	53.0	3.280			7.52	140.0	450.0	130.0		
At Lake	21/2/94	-	10.20	85.0	2.840	0.150	0.005	7.80	190.0	610.0	142.0	1.56	6.80
Bulawayo RD	12/4/94	-	3.00	37.0		0.082			162.0	480.0			
Westwood RD	12/4/94	-	9.60	99.0		0.005			280.0	860.0			
Kambuzuma RD	12/4/94	-	10.80		1.540		0.011		264.0	650.0			
Above Crow.	12/4/94	-	17.40	147.0		0.010			304.0	1100.0			
Below Crow.	12/4/94	-	21.40	139.0	10.600		0.020			1090.0			
At Lake	12/4/94	-	6.60	105.C	0.370	0.082	0.026	7.92	244.0	850.0	210.0	1.52	9.70
Bulawayo RD	16/8/94	-	2.40	57.0	1.860				200.0	560.0			
Westwood RD	16/8/94	-	4.00	87.0	0.360		0.076		240.0	775.0			2.60
Kambuzuma RD	16/8/94		2.60	57.0	1.320					680.0			
Above Crow.	16/8/94	-	4.40	97.0	0.800	0.060			230.0	775.0			
Below Crow.	16/8/94	Ŀ	5.40	121.0	4.200	0.405	0.166	7.75	180.0	875.0			
At Lake	16/8/94	<u> </u>	5.40	107.0	0.100	0.014	0.158	7.55	220.0	910.0	220.0	1.39	7.80
		<u></u>											A 50
Bulawayo RD	18/10/94	<del></del>	4.40				0.072	7.30	150.0		150.0		
Westwood RD	18/10/94		11.80		0.120	TR			180.0		230.0		
Kambuzuma RD	18/10/94	-		117.0	0.610	0.006	0.017	7.09	160.0		225.0		
Above Crow.	18/10/94	_		137.0		0.036	0.029	7.28	190.0		300.0		
Below Crow.	18/10/94			137.0		0.060	0.010	7.53	180.0		225.0		
At Lake	18/10/94		9.00	127.0	0.700	0.044	0.131	7.60	260.0	890.0	225.0	0.74	0.00
[	L	<u> </u>		<u>L</u>	<u> </u>	L		L	LJ			L	L

Table 3.5.17 Water Quality Data of Marimba River (cont'd)

		m³/day	mdd	mg/L	mg/L	mg/L	mg/L		mg/L	uS/cm		mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Hd	T-Alkalinity	Electric Conductivity	Total Hardness	Phosphate	Dissolved Oxygen
Bulawayo RD	28/3/95	-	2.40	53.0		TR	0.015		190.0	660.0			
Westwood RD	28/3/95	-	4.10	69.0			0.012	7.33	280.0	850.0			
Kambuzuma RD	28/3/95	<b>-</b>	2.50	69.0	0.090		0.016	7.32	280.0	760.0			
Above Crow.	28/3/95	-	5.10	85.0	0.240				230.0	860.0			
Below Crow.	28/3/95	-	9.20	113.0	0.380			7.63	250.0	1030.0			
At Lake	28/3/95	-	10.10	151.0	0.240		0.026		320.0	1220.0			
						<u> </u>	-						
Bulawayo RD	15/5/95	-	9.00	57.0	0.250	0.023	0.048	7.04	100.0	590.0	180.0	0.04	5.05
Westwood RD	15/5/95	-	2.20	95.0		TR	0.013	7.15	200.0	A STATE OF THE REAL PROPERTY.	250.0	AND THE OWNER WHEN	
Kambuzuma RD	15/5/95	-	0.50	97.0		TR		****	230.0		230.0		
Above Crow.	15/5/95		4.40	157.0	0.250				240.0	1100.0			
Below Crow.	15/5/95	-	2.60	137.0	0.290	0.034		W. WITHOUGHS AND	300.0	1090.0			
At Lake	15/5/95	-		117.0		TR	0.020		370.0	1010.0			
					·								
Bulawayo RD	17/7/95	-	4.60	71.0	TR	NIL	0.009	7 15	120.0	660.0	190.0	0.04	6 90
Westwood RD	17/7/95	-	3.80	87.0	0.250	TR			220.0		210.0		
Kambuzuma RD	17/7/95	-	2.80	85.0	0.860	0.030			200.0		200.0		
Above Crow.	17/7/95	-	4.00	95.0	0.420				210.0		200.0		
Below Crow.	17/7/95	-	4.50			0.037				1010.0			
At Lake	17/7/95	-			NO SA		-					-	
*** **********************************													
Bulawayo RD	19/9/95	-	7.60	117.0	0.150	NIL	TR	7.56	200.0	750.0	190.0	0.60	6.40
Westwood RD	19/9/95	-	12.60	127.0	0.380		TR	7.28	290.0	1080.0			
Kambuzuma RD	19/9/95	-	7.70	107.0			TR	7.44	230.0		200.0		
Above Crow.	19/9/95	-	7.90	99.0	0.110				210.0		220.0		1.75
Below Crow.	19/9/95	•	10.40	169.0		0.028	The second second				210.0		7.50
At Lake	19/9/95	-			NO SA								
Bulawayo RD	21/11/95	-	3.60	117.0	STR	TR	TR	7.06	180.0	860.0	210.0	0.38	5.35
Westwood RD	21/11/95	-		125.0			0.014			1090.0	لصحورونون		the second second
Kambuzuma RD	21/11/95	-	4.80	125.0			0.015				220.0		
Above Crow.	21/11/95	-	4.70	135.0						1000.0			
Below Crow.	21/11/95	-	6.30	159.0	TŘ		0.031			1210.0			
At Lake	21/11/95	-	6.00	177.0	TR		0.018			1350.0			

Table 3.5.17 Water Quality Data of Marimba River (cont'd)

													1
		m³/day	mdd	mg/L	mg/L	mg/L	mg/L		mg/L	uS/cm		mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen	Nitrite	Nitrate	Нq	T-Alkalinity	Electric Conductivity	Total Hardness	Phosphate	Dissolved Oxygen
Bulawayo RD	9/1/96	-	2.60	79.0	TR	0.007	0.009	7.42	160.0	800.0	190.0	0.12	5.90
Westwood RD	9/1/96	-	8.10	95.0	0.160	TR	0.013	7.01	250.0	950.0	220.0	1.40	
Kambuzuma RD	9/1/96	-	4.50	85.0	0.510	0.011	NIL	7.26		890.0			
Above Crow.	9/1/96	-	12.80	89.0	STR	0.005	0.001	7.38	230.0	900.0			
Below Crow.	9/1/96	-	12.70	143.0	0.190	0.020	0.005		210.0	1200.0			
At Lake	9/1/96		7.50	145.0	0.290	0.043	0.012	7.72	230.0	1155.0	200.0	0.88	4.70
Bulawayo RD	16/5/96	<u> </u>	2.10	37.0		0.002				460.0			
Westwood RD	16/5/96		2.80						140.0	600.0			
Kambuzuma RD	16/5/96	[-	2.60	53.0	0.180				120.0	460.0			
Above Crow.	16/5/96	Ŀ	5.70	67.0			0.030		100.0	480.0	L	لنصحب	AND DESCRIPTION OF THE PARTY.
Below Crow.	16/5/96	<u> </u>	4.80	59.0		0.070			120.0	480.0			
At Lake	16/5/96	· ·	6.10	89.0	0.910	0.090	0.010	7.31	140.0	470.0	210.0	1.16	6.50

Table 3.5.18 Water Quality Data of Scke Dam

		m³/day	mdd	mg/L	mg/L.	mg/L	mg/L		mg/L	uS/cm	mg/L	mg/L	mg/L.	mg/L	mg/L	mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogenmg/L	Nitrite	Nitrato	Ha	T-Alkalinity	Electric Conductivity	Total Hardness	Phosphate	Dissolved Oxygen	99 (Fe)	Manganese (Mn)	Calcium (Ca)	Albuminoid
Τορ	7/7/86	-	1.80	4.00	0.080	STR		6.94	24.0			0.028 0.024		0.55	0.03 0.03	10.0 11.0	0.23
Bottom	7/7/86		2.00	4.00	0.090	STR	0.014	6.56	22.0		10.0	U.UZ4		0.03	0.03	11.0	0.23
Тор	4/8/86		2.50	4.00	0.015	0.003	0.025	7.05	24.0		16.0	0.080		0.26	NIL	10.0	0.27
Bottom	4/8/86	-	1.90	4.00	0.040	0.003	0.1600	7.11	23.0			0.140		0.42	0.02	9.0	0.20
Тор	1/9/86	-	0.60	4.00	0.035	0.005	0.119		26.0			0.028		0.40	0.04	13.0	0.105
Bottom	1/9/86	-	1.40	4.00	0.090	0.006	0.090	7.30	26.0		19.0	0.032		1.56	0.16	17.0	0.15
ļ					-3.040	0.004	0.005	7 40	27.0		100	0.012		0.54	0.07	12.0	0.16
Top	22/9/86		1.20	5.00 6.00	0.010	0.001	0.065 0.062		27.0 28.0			0.012		1.04	0.01	13.0	0.15
Bottom	22/9/86		1.40	0.00	0.000	0.001	0.002	0.00	20.0		22.0	0.022			<u>- V.E.</u>	10.0	0.10
Тор	3/11/86		2.00	5.00	0.003	NIL	0.007	7.36	28.0		16.0	0.020		0.47	0.03	13.0	0.045
Bottom	3/11/86	_	2.60	4.00	0.005		0.008				24.0	0.026		0.073	0.14	14.0	0.043
Bokom	0, 1, 1, 0																
Top	1/12/86		2.80	7.00	0.300		0.0260		26.0			0.004		0.20			0.225
Bottom	1/12/85	-	3 20	7.00	0.115	NIL	0.016	6.96	26.0		18.0	0.008		0.44	0.248	13.0	0.23
															~~~	40.0	
Тор	26/1/87		2.40	7.00	0.060		0.010	7.13	28.0			0.010		0.70 3.98		13.0 14.0	0.26 0.40
Bottom	26/1/87	-	2.60	7.00	0.080	STR	0.010	6.92	27.0		19.0	0.014		3.90	0.54	14.0	0.40
<u></u>	47007		- 400	5.00	0.240	Adl		6.01	27.0	·	18.0	0.004	<del> </del> -	0.144	0.04	13.0	0.25
Тор	17/2/87	<u>  -</u>	4.20 8.20	5.00 5.00	0.340		NIL NIL	6.45	28.0	<del> </del>		0.008	<del></del>	0.828		14.0	0.36
Bottom	17/2/87		0.20	3.00	0.100	INIC	IVIL	0.43	20.0	<b> </b>	10.0	0.030		0.020	0.20		9.00
Тор	30/3/87		3.60	4.00	STR	NIL	0.030	7 39	24.0	<del> </del> -	20.0	0.080		0.74	0.05	14.0	0.17
Bottom	30/3/87		3.60	4.00	0.100		0.060		26.0			0.160	Ī	1.52		15.0	0.21
Dottoit	-						f										
Тор	18/10/90	-		12.00	0.040	NIL.	NIL	7.11	25.0			0.070		0.38	0.02	10.0	0.24
Bottom	18/10/90	Ŀ	32.60	16.00	0.300	NIL	NiL	6.81	27.0		17.0	0.060	<u>                                     </u>	13.89	0.25	12.0	1.08
		L				<b>.</b>				ļ		l	ļ			100	222
Тор	11/12/90			15.00	0.03	0.01						0.040	ļ	0.34	0.06		0.22
Bottom	11/12/90	<u> </u>	3.20	15.00	0.09	0.01	0.040	6.14	26.0	<b> </b>	14.0	0.090	<b>}</b>	14.00	2.64	10.0	1,41
ļ	18/3/91	╁	200	600	0.470	0.002	Mil	7.50	30.0	<del> </del>	20.0	0.050		0.39	0.10	12.0	1.85
Top Bottom	18/3/91	<b>∤</b>			0.700		NIL	6.57	65.0	<del> </del>		0.020		3.17	2.08	40.0	1.83
DOROITI	10/3/31	╁╌	32.00	12.00	0.700		<del>                                      </del>	1	1	1	1		<b> </b> ~~	1			[———[
Тор	14/5/91	<del>  -</del>	3.20	8.00	0.070	NIL	STR	7.06	32.0		19.0	0.050		0.40	0.05	12.0	0.13
Bottom	14/5/91	<b>†</b> -	NO SA														]
										ļ	ļ	<u> </u>	ļ	<b> </b>		<b> </b>	ا الم
Тор	4/6/91	Œ	4.60					7.81	28.0	}	30.0	0.026	<b> </b>	0.24			0.425
Bottom	4/6/91	<u>  :                                   </u>	154.00	7.00	0.725	0.003	0.005	6.62	30.0		35.0	0.140	<b> </b> -	9.03	1.64	20.0	5.00
<u></u>	1-2211-22	<b> </b>	<del> </del>	40.00		<del> </del>	0044	17.45	200	<del> </del>	240	0.180	<del> </del>	1042	000	11.0	0.55
Тор	23/1/92			18.00			0.014 0.010					0.140		0.42 36.22			
Bottom	23/1/92	<b>├</b> -	92.00	18.00	1.320	1.1.	0.010	0.40	70.0	<del> </del>	122.0	10.140	<del>                                     </del>	144.55	<del>  -:-77</del>	123.0	
Тор	3/3/92	+-	3.40	10.00	0.140	NII	0.020	7 76	34.0	ļ <b>-</b>	42.0	0.380	1	0.45	0.16	9.0	0.37
Bottorn	3/3/92	1-	NO SA			<del>                                     </del>	1	t	† <u>``</u>	<b>†</b>	1 <b>-</b>	t		1	· · · · ·	l	
- 0,10111	1	1-	1	T	T	1	1		$I^{-}$								
Τορ	4/8/92	1.	4.80	17.00	0.550	0.0095	0.0085	7.51	44.0		28.0	0.076		2.78	0.25	12.0	0.72
Bottom	4/8/92	<u> </u>	NO SA	MPLIN	3	<u> </u>	<u> </u>	<u> </u>	1	<u> </u>	<u> </u>	<b> </b>	<b> </b>	ļ	L	<b>}</b>	ļ
	]			ļ <u>.</u>		<u> </u>	<u> </u>	J	<b> </b>	J	<del> </del>	<b> </b>	<b> </b>	<u> </u>	<u> </u>	00.0	
Тор	15/2/96		5.60	13.00		0.002						0.060		1.02		26.0	
Bottom	15/2/96	1 -	1 17.40	կ 13.00	0.440	0.003	0.001	6.85	) 54.C	ال	140.0	0.176	1	2.33	U.04	24.0	0.62





Table 3.5.19 Water Quality Data of Lake Chivero

Sample Point	g	m³/day	- P	g g			<u> </u>		196 19	uS/cm	r R	mg/L	mg/L	mg/L	МФЛ	mg/L	J J
တို	Sampling Date	Flow	Oxygen Absorbed	9 인 이 14.00	Ammonia Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	Hd	T-Alkalınıty	Electric	Total Hardness	Phosphate	Dissolved Oxygen	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Albuminoid
Top	14/7/86	. <u>.</u>	3.20	14.00	0 100	0 004	0.027	7.60	48.0		45.0	0.038		0.14	0.05	32 00 32 00	0 265
Middle	14/7/86	·	2.80	14 00	030.0	0.010	0 023	7.40	48.0		46.0	0.014		0.14	0.10	3200	0.175
Bottom	14/7/86																
Тор	13/8/86		2 80	16.00	0.030	0 001	0.053	8 70	47.0		46.0	0.032		0.14	0 02	32.00	0.62
Middle	13/8/86	•	08.0	15.00	0.100	0.009	0.060	7.40	48.0		48.0	0.020		0.08	0.04	31.00	0 24
Bottom	13/8/86	$\overline{\cdot}$															
	10.9/86		2.00	15.00	0.010	0.004	0.048	8.67	48.0		50.0	0.020		0 25	0.05	32 00	0.28
Top Middle	10/9/86		2.00	14.00	0.015	0.007	0.081	7.45	48.0			0.020		0.07	0.06	32.00	0.19
Bottom	10/9/66		2.00	.7.00	7 413	2.001	2.001										
	10.0.00													L			
Тор	13/10/86	- 1	3.00	16.00		NIL	0 021	8 66	45.0 45.0		480	0.002		0.11	0.06	33.00	0.43
	13/10/86	•	2.40	16 00	0.015	0.007	0 093	7.36	45.0		49.0	0 004		0.12	0.10	33.00	0.32
Bottom	13/10/86	-									}	<b> </b>					
	40144130		4.00	40.00	0 020	Airt	0.010	0.22	50.0		52.0	0.040		0.10	0.03	31.00	0.48
	10/11/86 10/11/86		1.80 1.80	16.00 16.00	0 250	NIL	0.010	7 28	55.0		52.0	0.040		037	0.40	32 00	0.46
	10/11/86		1.00	10.00	0230	19:1.	0.010		00.0			4.5.0		<u> </u>			
OOLOIN	10/11/00																
Тор	2/2/87		1.60	19.00	0.020	NIL	0.007	8.12	54.0		420	0.046		0.10	0.03	34.00	0.27
Middle	2/2/87	-	3.60	18 00	0.700	0.004	0 011	7.98	600		64.0	0.074		0.78	0.94	34.00	0.50
Bottom	2/2/87						L						<b> </b>	<del> </del>	ļ	<b> </b> -	
<u></u>	2007		2 (0	20.00	0.010	KIII	0.010	7.69	54.0		48.0	0.004		0.06	0 03	30.00	0.30
Top	2/3/87 2/3/87		3.40 4.80	20.00 20.00	0.680	EMIL .	0.010	6.89	64.0		60.0	0800		0.46	0.80	32.00	022
Middle Bottom	2/3/87	-	4.00	20.00	0000	TTIE	0.010	0.00									
Bottom	10001																
	31/10/90	·	3.40	28.00	0 050	NIL	0.010		66.0		580	0.020		0 25		32.00	0.165
Middle	31/10/90		3.80	28 00	0.050	NIL	0 010	7.01	68.0	ļ	56.0	0.020		0 60	0.08	30 00	021
Bottom	31/10/90	-						ļ		ļ	<b> </b>			}		<del> </del>	
	7004			33.00	0.020	0 003	7.702	7.50	105 0	<b></b>	800	0.120		0 23	0.02	50 00	0.50
Top Middle	7/2/91 7/2/91	ŀ	NO S/	32 00	0.020	0 003	0.003	7.50	1030			0.120	<u> </u>	<del> </del>			
Bottom	7/2/91	╁	110 57	37.7 EC		<del></del>		t	···-								
	1713.01	<b>-</b>	<b>-</b>		<b></b>	l							[			ļ.,	ļ. <u></u>
Top	14/3/91	•	4.00	39.85	0.580	NL	0.008	7.54	73.0		60.0	0.000		107	0.06	18.00	0.48 0.78
Middle	14/3/91	·	4.00	39.85	1.025	0.010	NIL	7.28	76.0	<b></b>	58.0	0.120		10/	0.10	32 00	0.76
Bottom	14/3/91	<u> </u>	ļ		ļ	ļ		<b> </b> -	<b> </b> -	ļ	<b>}</b> -			<del>                                     </del>		<b></b>	
700	8/5/91		5.00	37.00	0.020	NJB	STR	7.73	77.0	<b> </b>	620	0.060	<del> </del>	0.17	0.06	35.00	0.55
Top Middle	8/5/91	+	3.4C				0.010			<u> </u>		0.040		0.10		36.00	
Bottom	8/5/91	<del>                                     </del>	1	000				L									
										ļ	ــِــا	1	<b> </b>	1.		42.00	1.60
Тор	17/7/91		4.00						86.0			0.172 0.230	<del> </del>	0.14		42 00 42 00	
Middle	17/7/31	<u> </u>	4.40	31.00	0 095	0.004	SIR	7.56	85.0		120	U.Z3U	<del> </del>	0.81	0.00	172 00	3.70
Bottom	17/7/91	Ŀ	<b> </b> -		<b> </b> -			ļ		<b> </b>	<del> </del>	ļ	<del> </del>	ļ		<del> </del>	<b> </b>
Гор	25/9/91	-		41.00	0 055	0.015	0.012	9.40	85.0		76.0	0.128	l	0.08		44 00	
Middle	25/9/91	۲Ť	- <u>-</u> -	39.00				8.92		L		0.160		0.19	0.01	42.00	0.90
Bottom	25/9/91	1			1									<b> </b>	<u></u>	<b> </b>	<b> </b>
											ļ	<u></u>	ļ	ļ. <u></u>		10.00	677
	24/4/92	Œ	3.80						109.0			0.170 0.150		0.16		42.00 44.00	
Тор			1 400	1 ኃስ ስላ		LOTO	• ^ ^ ^	17 OO			· XAO	in tall		. 11/1		• 44.VU	UGC
Top Middle Bottom	24/4/92 24/4/92		4.20	30.00	0.400	316	0.000	7.99	111.0		-07.0	<u> </u>		<del> </del>			Γ

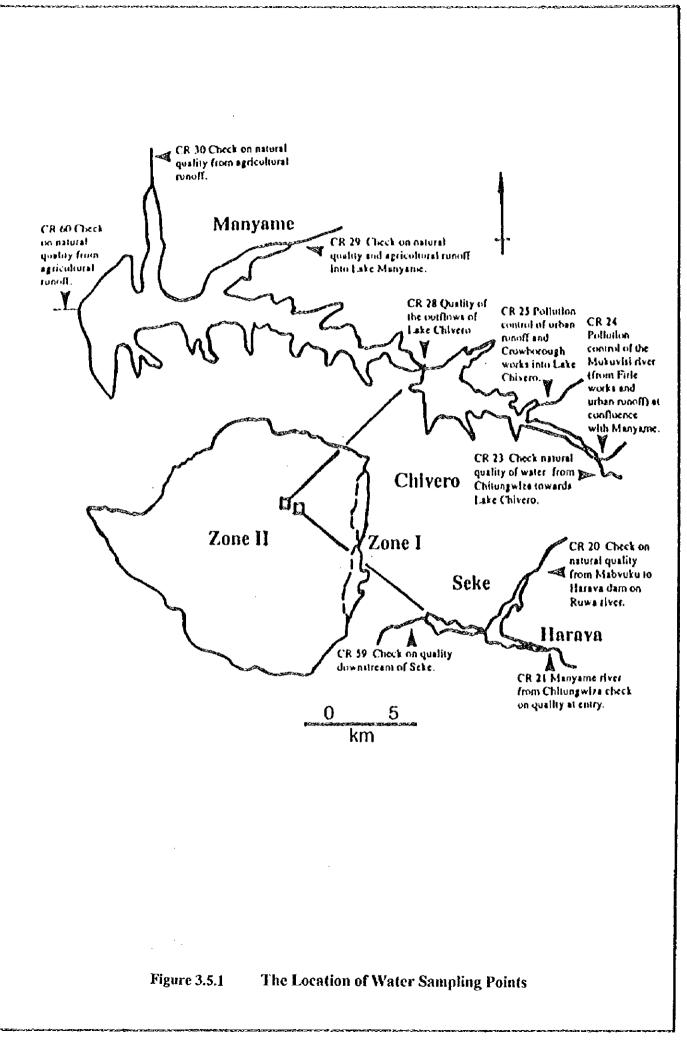
Table 3.5.19 Water Quality Data of Lake Chivero (cont'd)

		m³/day	mdd	Hg/L	mg/L	mg/L	mg/L		mg/L	uS/cm	mg/L	mg/L	መ <sub>ይ</sub> ሌ	шQЛ	ጠውሊ	mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogen mg/L	Nitrite	Nitrate	На	T-Alkalinity	Electric Conductivity	Total Hardness	Phosphate	Dissolved Oxygen	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Abuminoid
Тор	13/8/92	- 1	3,50	35.00	0.080	0.004	0.010	9.36	112.0		82.0	0.036		0.13	NIL	49.00	0.58
Middle	13/8/92	-	4.50	35.00	0.070	STR	0.002	9.12	112.0		83.0	0 204		0.43	0.05	49.00	0.45
Bottom	13/8/92	Ŀ														ļ	
												2000		0.00	0.03	50.00	0.27
Тор	12/11/92		4 80	68 00	0.060	0 007	0.084	9.09		<u>-</u>	920			0.23 0.28	0.07	50.00 49.00	0.37 0.60
Middle	12/11/92		4 80	68 00	0.040	0 007	0.077	9.06	134.0		94.0	0 200		0.28	0.02	49.00	0.00
Bottom	12/11/92											<b></b>		<b> </b>			
	22.5.55			04.35	- 6 546	TO	0.020	0.5	160.0		106.0	0 230		0 21	0.02	52.00	0.88
Тор	22/9/93		2.80	81.00	0.210 0.200		0.020	9.54	150.0			0 230		0.70	0.01		0.80
Middle	22/9/93		3.80	87.00	0.200	0.003	0.017	321	130.0		100.0	0 230		····		102.00	_ <del>-</del>
Bottom	22/9/93										<del> </del>						
	27/4/04		40.00	149.00	0 240	TR	0.010	0.12	140.0		66.0	0.240		0.14	0.05	64.00	0.78
Top Middle	27/1/94 27/1/94		7.00		0.290	0.010	0.003	0.12				0.150		0 01	0.04	66 00	0.50
Bottom	27/1/94		7.00	109.00	0.290	0.010	0 003	3.00	130.0		100.0	V. 100		- <del></del>			
BOHOII	211094	┟∸╴									}						
Тор	16/9/94		9.40	69.00	0 300	Mil	0.090	9.00	145.0		110.0	0.120		1 04	0.17	70.00	0.40
Middle	16/9/94		6.00	67.00	0 060	0.010	0.090				116.0	0.120		1.09	0.28	72.00	0.42
Bottom	16/9/94		11.40	77.00	0.340	0.030	0.184				120.0	0.150		2.15	0.21	68.00	0.45
00000	100 30 2 1	<del>                                     </del>			- 5.5 17				1								
Тор	9/1/95	t –	6.40	73.00	0.080	SFR	0.010	8.63	148.0		116.0	0.110		0.26	0.06	69.00	0.50
Middle	9/1/95	Ι-	6.80	93 00	0.140		0.070	6.78	96.0		116.0			0.53	0.16	69.00	0.55
Bottom	9/1/95	t -	18 20	73.00	0.600	0.010	0.060				116.0	1.260		5.32	0.24	70.00	0.80
		1						<u> </u>	[								
Top	18/1/95		2.40	70.00	0.220	0.002	0.002	8.56	150.0			0 970		NIL		74.00	1.06
Middle	18/1/95	1-	3.80	69 00	0.220	0.003	0.001	8.45			1140			0.10	0.06		1.14
Bottom	18/1/95	1 -	6.00	69.00	0.580	0.004	0.001	8 25	153.0		114.0	1 210		0.39	0.16	74.00	1.22
		1						[	L					<u> </u>			
Τορ	22/3/95	Ŀ	1.80	62.00		0 004	0.004	8.68	152.0			0.540		0.22		72 00	0.57
Middle	22/3/95	<u> </u>	4 50	64.00	STR	0 004	0.002		152 0	<u> </u>	1120	0.510		0.10	0.05	72.00	0.65
Bottom	22/3/95	Ŀ	5.00	64.00	STR	0.004	0.003	8.69	152.0		1160	0.610		0.13	0.07	74.00	0.72
	ļ	1	<u> </u>	[	Ĺ <u> </u>			<u> </u>	ļ					L		00.00	
Тор	1/6/95	ļ.	6.20	77.00	0.050	0.020	0.030				120.0	0.460		0.10		80.00	0.97
Middle	1/6/95	1-	5.20	77.00	0.060	0.020	0.010	8 24	158 0		124.0	0.470		0.10	0.04		0.91
Bottom	1/6/95	1:	5.00	77.00	0.130	0.040	0.010	<u> </u>	154.0		124.0	0.520		0.13	0.09	78.00	0.99
<u></u>		<u> </u>	<b></b>					<b>i</b>	l		1	10000			-0.07	70.00	70
Тор	23/8/95	ļ:	8.20		0.120	0.006	0.009					0.356		0.16	0.07		2.70 2.05
Middie	23/8/95	ļ:	6.60	93.00	0.150	0.007	0.010		172.0	<b></b>		0.020		0.07	0.18	76.00 88.00	0.97
Bottom	23/8/95	<b>!</b>	7.00	93 00	0.360	0.024	0.022	874	174.0	ļ	136.0	0.340	<b> </b> -	0.54	0.04	00.00	0.97
<u></u>	1000000	<del> </del>	<u> </u>	<del></del>	4.455		0.000	1	4700	ļ	140 4	0.200	<u> </u>	0.16	0.05	84.00	0.50
Τορ	12/10/95		5.60	87.00	0.100	0.004	0.002		170.0			0.396		0.16		84.00	0.80
Middle	12/10/95		6.70	89.00	0.105		0.002				140.0	0.636 0.384		0.16		188.00	0.50
Bottom	12/10/95	شلا	7.70	9100	0.110	0.007	0.001	[ <b>0.5</b> 8	176.0	L	132.0	10.334	L	1 0 20	0.09	100.00	0.00

Table 3.5.20 Water Quality Data of Lake Manyame

							~					<u>-</u>				,	
	1	m³/day	mdd	mg/L	mg/L	mg/L	mg/L	: : :	mg/L	uS/cm		mg/L	⊓∂/r	mg/L	mg/L	mg/L	mg/L
Sample Point	Sampling Date	Flow	Oxygen Absorbed	Chloride	Ammonia Nitrogenmg/L	Nitrito	Nitrate	Hd	T-Alkalinity	Electric Conductivity	Total Hardness	Phosphate	Dissolved Oxygen	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Albuminoid
Τορ	21/7/86	-	2.20	10.00	0.020	0.002	0.017	7.85	54.0	<u></u>	50.0	0.010		0.19	0.05	25.0	
Bottom	21/7/86	-	2.40	11.00	0.070	0.002	0.019	8.10	55.0		50.0	0.008		0.22	0.12	28.0	0 28
															<u> </u>		
Тор	18/8/86	-	3.20	12.00	0.015	0.005	0.045	7.50	56.0		50.0	0.020		0.07	0.04	26.0	0.245
Bottom	18/8/86	-	-	-	-	-	-	-	-	-	-	- 1			_ : _		
												[i		[		L	<u> </u>
Тор	10/9/86		2.00	10.00	0.010	0.004	0.100	8.04	53.0			0.010		0.22	0.06	26.0	0.17
Bottom	10/9/86		3.00		0.015	0.002	0.1280	7.97				0.012		0.48	0.12	26.0	0.25
-																	
Тор	25/11/86	_	3.40	12.00	0.010	0.003	0.011	7.95	59.0	i	52.0	0.016		0.07	0.05	22.0	0.27
Bottom	25/11/86	_	3.40		0.040	0.005					52.0	0.030		0.50	0.10	23.0	0.32
DOROIII	20/11/00		0.10	10.00						<b> </b>	·		·	l		1	
Тор	12/2/87		3.00	14.00	0.100	NIL	0.028	7.75	59.0		50.0	NIL		0.14	0.18	28.0	0.265
Bottom	12/2/87		4.00	15.00	0.360	0.004		7.34	60.0	<u> </u>		0.008		0.19		28.0	
BOROIN	IEEVI		7.00	10.00	0.000	0.001	V.V.	1.3			<del>                                     </del>						
Top	12/3/87		2.20	12.00	0.130	NIL	0.0200	7.93	64.0		52.0	0.500		0.11	0.08	24.0	0.54
Тор	12/3/87		9.60		0.250	0.004	0.020			<b></b>		0.760		8.63		24.0	
Bottom	12/3/07		9.00	12.00	0.230	0.004	0.020	7.71	03.0	<del>├</del>	V2.0	0.100		0.00	, <u>V.L.</u>	1	1
	40007		2.40	13.00	0.140	TR	0.072	7.70	70.0	<u> </u>	56.0	0.020		0.30	0.08	22.0	0.31
Тор	10/9/87				0.300	TR	0.072					U.040		0.12			
Bottom	10/9/87		5.20	15.00	0.300	IR _	0.070	7.40	14.0		30.0	0.040		<u></u>	1.73	157.9	0.00
	4440107			~~~~	0.200	OTO.	NiL	700	82.0	ļ	62.0	0.010		0.18	0.08	28.0	0.29
Тор	11/12/87			22.00		STR	INIT -	7.98	02.0	ļ	02.0	0.010	<del> </del>	0.10	0.00	120.0	1-0.20
Bottom	11/12/87		NO SA	MPLING	·		<b> </b>					<u> </u>					ł
	A		2.10	20.00	0.000	3.128	A 111	0.05	89.0	<b> </b>	610	0.040		0.19	0.06	24.0	0.17
Тор	21/1/90	<u> </u>	3.40	30.00	0.030	NIL	NIL.	6.95	09.0	<b>i</b>	04.0	0.040		0.13	0.00	24.0	0.17
Bottom	21/1/90									<u> </u>	<del>}</del>			<b> </b>	<b> </b>	├─	<del> </del> -
							0.040		74.0	ļ	70.0	0.700		0.19	0.05	26.0	0.15
Тор	26/3/91		2 20	8.00	0.075	NiL	0.010	7.60	74.0	ļ	70.0	0.190	<u> </u>	0.19	0.03	20.0	1-0.13
Bottom	26/3/91						ļ	ļ		ļ <u></u>	<del> </del>	<b></b>		ļ			<del> </del>
ļ	· <del></del>						ATO	304	-	<b> </b> -	000	0 100		0.02	0.04	40.0	0.18
Тор	20/5/91		2.00	28.00	0.080	NIL	STR	7.81	81.0	ļ	00.0	0.100		0.02	0.04	#0.0	1 9.10
Bottom	20/5/91						ļ <u>.</u>	<b> </b> -		ļ	<del> </del>			ļ	<del> </del> -	<del> </del>	<b>├</b> -
							<del></del>			<b> </b>	70.0	0.050	<b></b>	0.10	A (3)	20.0	0.10
Тор	22/7/91		2.60	38.00	0.055	NIL	TR	7.89	83.0	<b> </b>	176.0	0.250		0.10	MIL	30.0	0.19
Bottom	22/7/91	لــــــا	ļ			ļ	<b>}</b>	<b> </b> -	<b> </b>	}	ļ	ļ		<b></b>	<b> </b>	<del> </del> -	{
		L					<del></del>	1	<u> </u>	<b> </b>	1000	0.000				22.2	0.24
Тор	17/9/91	<u>  -  </u>		20.00	0.085	0.014	0.022	8.15	87.0	<b> </b>	80.0	0.230	<b> </b>	0.09	0.09	32.0	0.21
Bottom	17/9/91	L-1		<u> </u>			ļ <u>.</u>		<b> </b>	ļ	<b> </b>	ļ		<b> </b>	<b>_</b>	<del> </del>	ļ
L	<u> </u>	L		ļ			<b></b>	ييا		<b> </b>	-	2.616		L		1000	1- <del>2</del>
Тор	29/3/92	أستا	2.60	22 00	0.060	0.012	0.052	8.66	94.0	<b> </b>	88.0	0.042		0.26	0.39	35.0	0.42
Bottom	29/3/92		<u> </u>					<b></b>	<b> </b>	ļ	L					<b> </b>	ļ
								<u> </u>		ļ	ļ	لبييا		L		1.5-	
Тор	23/4/96		3.60	23.00	0.145	0.0025	0.0055	7.19	66.0	<u> </u>	80.0	0.080		0.25	0.32	40.0	0.40
Bottom	23/4/96	-		L		L	<u> </u>	<u></u>	<u>L</u>	<u></u>	L	l	L	L	L	L	L

Manyame R. Below Seke Manyame R. Below Seke Manyame R. Below Seke Mukuvisi R. downstream Mukuvisi R. downstream Mukuvisi R. downstream 20.0 Manyame R. Newroad 42.0 Manyame R. Newroad 196.0 Manyame R Newroad Water Quality Monitoring Programme - Water Pollution Control Board, Ministry of Lands & Water Resources 61.4 Chivero Spillway 30.0 Chivero Spillway 23.8 Nyatsime River Buildings to noticoo. Mukuvisi R. Mukuvisi R. 92.0 Amalında R. 66.0 Amalinda R. 84.0 Amalinda R 32.0 Manmba R. 39.6 Manmba R. 70.0 Marimba R Mukuvisi R. Nyatsıme 43.6 28.0 bemac η/διυ Chemical Oxygen 5 8 8 0 200 0 0 0 0 0 900 000 2 9 g **շ**/6ա əsəuebueyy 9 0.50 0.70 0.00 0.10 0.00 2.10 0.07 0.50 096 030 0.30 0.20 0.20 0.50 2 7/6യ uoaj S S 0.07 0.02 22 99 22 9 Š 99 2 9 շ/ճա пиітоли 2 9 9 0.1 13.8 0.04 1.6 ND ND 0.10 90.0 0.80 Š 900 900 0.01 800 800 (<u>2</u>) 9 2 2 9 **շ**թնա reaq 9 0.01 000 0.05 0.0 9 9 0.0 99 **უ/**ნⴍ 9 2 8 nagouiM sinommA 9.0 10.8 2.8 39.6 800 တ ထ 3 9 2.6 CV CV 'n 2 αj Охудев Арвогред **უნ**ⴍ 8.0 4 38.0 50.0 26.3 37.5 63.5 36.3 35.0 9.8 200 10.9 10.4 0 တ 5. Q ල ල 22.5 52.0 **7/6**u Potassium 27 22.0 26.0 25.0 2 0 0 0 15.4 18.5 67.0 46.0 38 103.0 150.0 76.0 **7**/6w muibos 2 2 13.5 22.5 0 5 2,0 12.5 0 1.0 9 0 20.0 **ω** 16.5 10.4 2 0 0 13.5 14.0 24.5 muiaangaM 4 4 **7/6**ii. 34.4 11.5 16.4 57.5 56.3 47.5 61.0 33.0 49.8 57.5 42.9 48.9 0 40.8 54.9 999 59.6 12.7 6.8 5.4 48.9 **უ/ნ**ⴍ Calcium 6 36.1 23 5 249.5 53.8 76.4 69.2 9 134.6 66.2 1611 148.8 78.8 1116 o O 159.8 243.5 43.8 135.2 շտնա 6 Chloride 50.5 98.0 16.9 10.5 17.4 39.4 ω 0.4 32 139.0 84.2 168.8 112.1 56.3 137.5 8 69 8 8 4 159.1 17.5 8 უ⁄ნⴍ eșeyding 0.38 59 36 4 90 0 Ċ. 9 0 0 თ დ 2 <u>ල</u> 7/6w Nitrate 0.0 S 0.5 35 4 900 0.2 90 4 00 9 Ö 6 0,4 ö უ/ნⴍ 2 g 2 2 Reactive Phosphate 7/**6**w (it Carpoustes -AIKSHUILA 78.4 42.3 246.6 152.8 21.3 6.951 **%** 156.9 179.4 733 146.6 125.4 27.5 65.7 174.6 280.1 **7/6**ս 7.7 I-Alkalinity 8.70 8.60 229 0 | 9.10 8.50 80 44 8.02 788 8.50 7.12 62.2 8.00 7.60 7.20 7 28 7.90 8.20 87.6 | 8.30 7.60 136.4 8.80 87.2 8.54 8 15.7 7.33 58.8 6.80 60.1 6.70 8 Hq49.9 6.2 20.5 147.5 136.5 4.6 146.3 46.3 8, 106.4 50<sub>c</sub>C} 87 2 w/Su Electric Conductivity 10/10/95 23/10/95 23/10/95 22/9/95 23/1/95 23/8/95 14/3/95 | 24/3/95 31/7/95 31/8/94 31/7/95 17/2/93 1/6/95 1/6/95 3/6/94 9/6/35 1/6/95 7/6/90 Analysis Date Table 3.5.21 10/10/95 29/7/94 18/7/95 11/4/94 11/4/94 17/7/195 11/5/95 11/5/95 7/5/90 9/1/95 8/8/95 2/8/95 9/2/93 Sampling Date CR46 CR71 CR71 CR71 CR26 CR26 **CR47** CR24 222 **CR47 CR59** CR59 7825 Sample Point



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			• •	Table 3.5.22		Summary		ater Qu	tality D:	of Water Quality Data of Crowborough STW (TF & BNR)	rowbor	ough S	TW (TF	& BNI	<b>∂</b>			
}	Q woffet	GOB wollnt	Ioflow COD	N-T wolled	գ-4 տոնոն	22 wofini	<b>9</b> १०३०(१३ २ १	IF BOD	IE COD	N-T :1).	q.4 qT	11: 22	Q BNR Eighspi	вки вор	вик сор	рик т-и	ник Р-Р	BNR 22
Anous	Amusi (May'95 - Apr. '96)	Apr. '96)																
Š.	37	35	35	37	37	3.5	37	34	34	37	37	36	37	33	34	37	37	35
Xio.	39,700	120.10	231.70	27.00	1.20	32.00	24,000	8.30	6X-96	16.00	0.75	16.00	12,800	3,25	29.40	0.49	0.09	1.50
Max.	121,400	1.310.50	2,741.20	90.00	15.20	1,352.00	104,500	462.50	470.60	67.30	12.50	248.00	17,600	90.0 <del>0</del>	250.00	32.00	6.70	100.00
Avs.	55,368	619.35	1,355.02	54.97	6.74	649.94	39,381	125.01	281.98	37.86	5.23	101.82	15.986	21.48	91.32	9.30	1.54	29.95
\$0%	47,200	640.00	1.298.40	55.00	6.80	650.00	31,000	106.10	295.30	38.00	4.90	25.00	16,000	14.65	84.35	4.31	0.60	21.00
75%	60,600	796.70	1.746.20	00'99	7.80	850.00	44.600	154.53	341.25	47.00	5.90	121.00	16.300	30.10	103.18	16.80	1.90	43.50
Dry S	sason (Mav	Dry Season (May '95 - Sept. '95, Apr. '96)	35. Apr. '96)															<i></i>
Ŋ.	19	18	71	19	19	181	19	17	17	61	19	18	19	1.7	17	61	191	17
Min.	39,700	320.70	762.08	36.50	4.00	410.00	24,100	8.30	68.96	18.00	0.75	\$0.00	12,800	3.25	\$1.00	0,49	0.10	1.50
Max.	63,500	1,310.50	2,741.20	00.68	13.60	1,352.00	50,700	212.70	447.40	67.30	12.50	248.00	16,800	80.00	250.00	20.06	6.70	80.08
Avg.	48.053	663.79	1,648.75	58.20	7.06	776.78	32,342	98.08	296.93	39.65	5.73	103.19	15,711	18.87	98.78	4.68	1.21	22.46
50%	46.000	580.58	1,455.20	\$6.00	6.20	755.00	30,100	86.98	301.60	39.00	5.40	95.00	16,000	10.90	79.80	3.12	0.38	18.00
75%	49,200	833.20	1.867.70	67.00	8.10	917.50	33,800	135.40	341.10	47.55	7.20	117.50	16.200	19.05	. 99.20	4.24	1.25	27.00

B

UNIT 3	U3-Inflow Q	U3-Inflow BOD	U3-Inflow COD	U3-Indow T-N	U3-Inflow P-P	U3-Inflow SS	BNR U3-Eff. BOD	BNR U3-Eff. COD	BNR U3-EK. T-N	BNR U3-EM. P-P	BNR U3-Eff. SS
	(May'95 - A		32	34	32	33	31	31	34	32	33
No.		34				75.00	1.05	23.30	0.50	0.42	2.00
Min	6,000	100.80	252.90	22.00	2.70						
Max.	16,000	850.95	1,831.50	89.00	16.80	1,500.00	153.15	574.20	63.00	7.50	118.00
Avg.	12,403	461.01	995.99	62.38	8.88	583.32	23.61	107.57	13.73	2.84	24.79
50%	12,900	470.20	1,030.90	64.50	9.50	600.00	11.45	82.10	11.83	2.30	19.00
75%	14,000	630.36	1,228.68	76.75	11.08	740.00	27.75	106.60	19.10	3.30	31,00
Dry Sea	son (May '9	5 - Sept. '96	, Apr. '96)						pi- <sub>188</sub> -188-188-188-188-188-188-188-188-188		,
No.	17	19	17	19	18	18	17	16	19	18	18
Min.	6,720	100.80	478.50	32.00	2.70	100.00	5.60	24.00	1.70	0.42	2.00
Max.	16,000	850.95	1,831.50	89.00	14.90	1,100.00	37.55	262.50	30.83	7.50	43.00
Avg.	12,744	484.82	1,075.94	66.84	8.77	592.03	13.76	105.94	10.63	2.90	21.72
50%	12,300	510.35	1,087.00	70.00	8.40	634.00	9.70	84.35	9.04	2.06	22.50
75%	14,000	606.15	1,372.95	80.50	11.45	745.00	14.95	107.95	13.35	4.10	29.75

UNIT 4	(May, 82 - V	7. U4-Inflow BOD	U4-Inflow COD	U4-Indow T-N	U4-Inflow P-P	U4-Inflow SS	BNR U4-Eff. BOD	BNR U4-Eff. COD	BNR U4-Eff. T-N	BNR U4-Eif. P-P	BNR U4.EM. SS
No.	32	34	32	34	32	33	30	32	34	32	33
Min.	10,000	131.80	214.00	24.00	3.20	68.00	1.00	27.20	0.63	0.18	2.00
Max.	17,900	1,000.95	1,850.40	94.00	13.60	1,230.00	98.15	228.90	31.06	12.00	137.00
Avg.	15,252	495.99	975.05	62.24	8.09	572.00	17.31	94.70	13.03	2.23	29.06
50%	15,560	455.85	873.25	63.50	7.25	600.00	10.65	84.15	9.88	1.55	21.00
75%	16,310	655.99	1,178.43	75.00	10.85	730.00	24.41	108.68	20.20	2.62	35.00
Dry Sea	ison (May '9	5 - Sept. '96	, Arc. '96)			<del></del>	r <del></del>				
No.	17	19	17	19	18	18	18	17	19	18	18
Min	10,000	200.80	478.50	34.00	4.00	100.00	1.10	30.00	2.94	0.18	2.00
Max	17,900	1,000.95	1,850.40	94.00	13.60	1,000.00	98.15	228.90	31.06	8.40	137.00
Avg.	15,388	473.81	1,081.43	65.95	8.21	589.33	18.19	104.47	11.13	2.04	30.50
50%	16,000	441.45	1,139.54	66.00	7.50	640.00	10.58	89.60	7.97	1.41	24.00
75%	16,340	591.15	1,268.60	78.00	10.48	806.00	22.89	109.80	14.32	2.75	34.50

o.1 Pond
W (No.1 P
Data of Donnybrook SI
· Quality
y of Water
Summar
Table 3.5.25

4			maryo	Summary of water Quality Data of Donnybrook SI W (No.1 Fond)	(uainty	Data of	Donnyb	rook S.	W (No.1	Fond)
	9 wofini	GO& wollnl	Inflow COD	M∙T wolln!	4-4 wollal	Pord Effluent	GO8 bao9	Fond COD	N-T baoq	4-9 bao9
Annual	ıl (May'94 - Apr.	4 - Apr. '96)							,	
S So	22	21	0	12	23	0	20	0	12	23
Min.	320	82.00	,	84.00	8.00	,	5.05		39.00	3.20
Мах.	610	1.820.40	•	400.00	31.60	•	262.70	•	235.00	21.40
Avg.	400	854.65	ı	194.92	16.82	•	98.85	•	106.35	11.68
80%	330	860.10	1	202.50	15.90	ŀ	73.75	•	98.09	11.60
75%	418	1,061.10	•	232.50	20.20	1	156.81	•	110.00	14.15
Dry Se	Dry Season (May	ay '94 - Sept.	. 94, Apr	r. '95 - Sept.	ч. '95, Apr.	pr. '96)				
Š.	11	11	0	7	12	0	10	0	7	12
Min.	330	82.00	ı	180.00	11.00	1	5.05	1	83.00	3.20
Max.	460	1.820.40		400.00	31.60	•	262.70	,	235.00	21.40
Avg.	391	886.27	ŧ	243.57	19.37	1	59.38	-	122.00	11.03
20%	410	860.10		230.00	17.20	1	28.75	1	98.00	11.65
75%	415	1,026.55	1	245.00	23.65	-	78.53		130.00	13.83

Pond)													V-130 7114- <sup>2-7</sup>		·+
(No.2)	4-9 bao9		22	2.	25.20	10.97	9.60	12.75		11	5.90	16.40	11.43	10.20	15.80
Summary of Water Quality Data of Donnybrook STW (No.2 Pond)	M-T bno9		12	00:09	148.07	99.63	102.03	108.50		9	00.00	108.00	92.40	100.00	102.00
onnybr	Pond COD		0	,	'		•	•		0	ı	,	4	1	
ata of D	Pond BOD		22	5.10	372.40	104.56	59.30	156.58	Apr. '96)	11	5.10	75.00	40.58	46.55	55.98
nality D	q-q wofini		21	4.70	24.40	13.34	11.80	17.80	.95.	10	10.10	21.80	14.69	11.80	18.00
Water Q	M-T wofin!		12	50.00	800.00	218.75	160.00	271.00	r. '95 - Sept.	6	92.00	800.00	319.20	268.00	280.00
ary of	[ицом COD		0	•	ı	,	1		. '94. Apr.	0		·	•		ŀ
	GO& wofini	Α-	22	30.15	1.560.90	776.96	830.73	1,122.81	Dry Season (May '94 - Sept.	11	300.00	1.240.50	863.36	940.55	1.153.19
Table 3.5.26	у мониг	(May'94	23	1,160	1.520	1.350	1,340	1,430	ason (Ma	12	1,160	1,460	1,357	1,390	1,430
Tab		Annual	No.	Min.	Max.	Avg.	50%	75%	Dry Se	No.	Min	Мах.	Avg.	50%	75%

a	
4600	

Tab	Table 3.5.27		ary of V	Vater Qu	ality De	ta of Do	nnybro	Summary of Water Quality Data of Donnybrook STW (No.3 Pond)	No.3 P.
	· D wollnl	GO8 wollni	Inflow COD	M-T woffal	q-q wollni	GOB bno9	Pond COD	N-T bno9	d∙d b∩oq
Innua	il (May'94	Annual (May'94 - Apr. '96)							
Š	23	22	0	14	24	22	0	4	24
Min.	1,160	361.90		60.00	7.90	15.10	'	32.00	6.0
Max.	1,720	1,320.20	١	380.00	26.60	320.40	1	126.00	18.00
Avg.	1,396	845.83	•	188.36	15.53	127.08	ı	69.29	9.63
20%	1,400	881.35	ı	171.00	14.90	118.10		63.50	9.81
75%	1,415	1,046.35	1	258.75	18.00	195.06		81.00	11.80
S, C	eason (N	Dry Season (May '94 - Sept.	9,	Apr. '95 - Sept.	ept. '95, Apr.	Jpr. '96)			
No.	4	10	0	7	12	10	0	7	12
Min.	1,160	540.10	•	75.00	7.90	15.10	1	38.00	4.00
Max	1.420	1,260.25		380.00	26.60	195.60	1	126.00	18.00
Avg.	1,364	881.59		228.57	16.96	89.59		82.00	9.61
50%	1,400	895.68	•	270.00	16.55	65.85	ŧ	72.00	9.41
75%	1,415	1,041.28		300.00	22.63	145.34	1	105.50	12.68

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ible 3.5.28 Summary of Water Quality Data of Donnybrook STW (No.4 Pond)	
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No.4 ¥			ន	0	Ç	<u>∞</u>	Q	Š	Secretary Secre	2	ွှ	ွှ	<u></u>	0	0
TW (	d•4 bno4			4.10	13.50	9.08	9.20	10.75			4.20	13.50	9.88	10.10	11.10
Summary of Water Quality Data of Donnybrook STW (No.4	N-T bnog		13	48.00	130.00	77.78	72.13	92.00		7	50.00	130.00	84.88	74.00	103.00
<b>Доппу</b>	Pond COD		0	•	,		I .			0		1	1	1	<b>†</b>
Data of	Pond BOD		21	1.95	281.50	124.05	133.00	186.30	r. '96)	10	1.95	236.50	108.77	94.03	179.30
Quality	q-4 wofini		23	6.10	28.40	14.60	14.80	17.40	. '95, Apr.	12	6.10	28.40	15.80	15.00	18.35
Water	N-T wofini		13	84.00	350.00	186.15	130.00	210.00	. 95 - Sept.	7	138.00	350.00	214.43	185.00	260.00
mary of	Inflow COD		0	1	,	1			'94. Apr.	ı	1	,	1	1	
	GO8 wollnl	Ą-	21	51.30	1,161.50	775.64	860.70	1,001.50	Dry Season (May '94 - Sept.	10	420.40	1,161.50	818.62	780.80	80.966
Table 3.5.28	<b>Q</b> wofinf	Annual (May'94	23	1,430	2.610	2,351	2,360	2,480	ason (Ma	12	2,190	2,500	2,400	2,480	2,485
H	<u>*************************************</u>	Angual	No.	Min.	Мах.	Ave.	50%	75%	Dry Se	No.	Min.	Max.	Avg.	20%	75%

Ī			ध्र	1.10	8	ş.	3.10	5.13		21	1.10	10.60	4. S	3.8	6.25
<b>⊕</b>	4-4 bao4				10.60	4	'n	5.				10.	4	3	Ø
TW (Pon	N-T bno9		14	20.13	61.00	36.38	31.55	41.50		7	22.30	61.00	36.45	27.70	46.25
borough S	Pond COD		0	ı	,	ı	1	1		0	•	ı	,	•	
a of Maril	Pond BOD		23	8.70	220.40	77.82	55.95	128.68		11	8.70	191.35	51.40	20.40	56.50
Summary of Water Quality Data of Marlborough STW (Pond)	q-q wofini		24	0.80	12.00	6.26	6.05	7.45	(%, .	12	2.63	12.00	6.45	5.80	7.75
Water Qu	M-T woffal		14	27.00	89.00	58.14	61.50	72.25	pt. '95, Apr.	7	37.00	89.00	59.71	55.00	72.00
nmary of	GOD wofini		-	1	_	9	t.	_	Dry Season (May '94 - Sept. '94, Apr. '95 - Sept.	0	ŀ	1	-	1	1
	doa wolini	(%.	23	10.80	800.20	331.32	270.35	478.23	Sept. '94. A	12	30.15	800.20	322.78	255.35	448.83
Table 3.5.29	wollai	y'94 - Apr.	0	1	1	_	_	-	(May '94 -	0	1	,	es Kobie		
		Annual (May'94 - Apr.	S	Min.	Max.	Avg.	80%	75%	Dry Season	Ÿ	Min.	Max.	Avg.	20%	75%

Table 3.5	Table	ပ	30	Summary	of Water	Summary of Water Quality Data of Hatcliffe STW (OD)	ata of Hate	liffe STW	(QO)		
јицом БОD јицом БОD	Іицом СОБ	760 HOVE	K-T wofini		4-4 wofini	S2 woffat	OD BOD	OD COD	И-T dO	a-a do	\$\$ do
Annual (May'94 - Apr. '96)	(1			ŀ							
0 22 22 15	22		15		24	24	20	22	15	24	23
- 381.90 1.206.90 96.00	1,206.90	6.90	96.00		8.40	114.00	98.30	68.30	61.00	4.80	77.00
- 1.161.00 2.695.47 800.00	2,695.47		800.00		27.20	2,370.00	551.70	1.578.90	220.00	11.00	860.00
705.28 1.724.67 253.36	1,724.67		253.3		16.94	790.92	282.78	\$27.04	110.40	7.64	244.96
727.45 1.682.23 195.00	1,682.23		195.00		16.80	715.00	258.55	465.53	8.0	7.55	176.00
809.64 1,789.28 225.00	1,789.28		225.00		21.20	858.00	351.21	567.60	126.00	8.35	273.00
Dry Season (May '94 - Sept. '94, Apr. '95 - Sept. '95, Apr. '96)	.95 - Sept.	.95 - Sept.	.95, Apr	ず	9)						
0 12 11	1			ত	12	12	E4	11	9	12	11
- 381.90 1.206.90 152.00	1,206.90		152.00		8.40	114.00	98.30	68.30	67.00	4.80	79.00
- 821.10 2.091.20 450.00	2,091.20	1.20	450.00		27.20	2,370.00	351.00	1.578.90	210.00	11.00	670.00
600.52 1.677.56 218.23	1,677.56		218.23		18.17	865.00	214.58	569.34	105.83	7.47	209.00
581.25 1.697.76 177.50	1,697.76	energy property.	177.50		20.00	754.00	233.05	438.70	89.00	7.70	118.00
723.80 1.751.75 195.75	1,751.75		195.75	~~~	21.30	869.00	274.05	622.99	91.50	8.85	238.00

	ЕПием Т-И (И-А) 9-9 - ВПием Р-Р		21	29.10	83.00	58.31	- 89.68	- 08.79		10	45.84	83.00	64.98	67.11	75.22
	Effluent COD		0	,						0	•	•			
V (TF)	GOR 10suME		21	65.00	315.00	141.30	130.00	180.00		01	105.00	195.00	141,48 -	130.00	169.33
Summary of Water Quality Data of Zengeza STW (TF)	wofini rostit q-q	1	0	1	t					0	•	1	,	-	1
Data of Z	Tilcor Inflow T-N (A-N)		20	7.00	186.00	52.90	46.00	62.50		10	7.00	00:89	44.50	46.00	57.50
r Quality	COD		0	1	ŀ		•	1		0	-	,		_	
ry of Wate	Tilcot Inflow		21	400.00	21,500.00	2,142.86	1.060.00	1,300.00		10	00'098	1,300.00	1.034.00	985.00	1,170.00
Summar	4-4 wofini		1	F.	r	-	-	_		0	-	,	•	*	
Table 3.5.31	N-T wofini (N-A)		21	11.00	178.00	52.19	42.00	57.00		10	37.00	75.00	47.60	44.00	46.75
Та	јойоw СОБ			ī		1	t	_		0	,	-		•	1
	GO8 wollat		21	78.00	1.950.00	973.95	930.00	1,160.00	Sept. '95)	01	78.00	1.200.00	822.80	805.00	1,050.00
	9 жойл	Annual (Mar. '95 - Feb. '96)	0		•			_	Dry Season ( Mar. '95 - Sept. '95)	0		-	1	) 0)200-103-11	,
		Annual (Ma	No.	Min.	Max.	Avg.	20%	75%	Dry Season	Š.	Min.	Max.	Avg.	20%	75%

Ī

	Effluent P-P	core	7	80 7.60	1		•			1	29.00 7.60	•		4	,
(TF)	M-T Insufft3			65.80	_	_		-							-
orton STW	Gilluent COD			1,191.90	-	-	3	•		1	233.00	1	,	·	7
Data of N	Ефјием ВОБ		1	520.00	1	-	,	•		1	30.00	ı			•
Summary of Water Quality Data of Norton STW (TF)	4-4 woffal		1	7.60	1	2				pro-d	4.60		ı	\$	
nary of Wa	И-Т wofinl		1	83.30	-	\$	-	•		1	47.00	-	•	-	-
	GOD woftnl		1	1,496.20	-		1	}		1	767.00	•		1	_
Table 3.5.32	GO& wofini		pul	960.00	-	•	•			.7	540.00	-			_
	woflut		ō	•		-	•	,	(by JICA)	0	ı		£	1	,
		2 June 1995	Š	Min.	Max.	Avg	20%	75%	6 June 1996 (by JICA)	N.	Min.	Max.	Avg.	%05	75%

	P.P. P.P.		10	0.80	5.20	2.38	2.00	3.10		7	08.0	2.80	1.90	2.00	2.20
	K-T msuffië (M-A)		8	0.18	10.00	3.88	3.03	4.75		4	0.18	4.00	2.45	2.82	3.20
W (POND)	Effluent COD		0	ŧ	•					0	ŀ	•	•	1	-
of Ruwa SI	Effluent BOD		11	30.00	285.00	133.64	85.00	213.75		\$	47.50	242.50	123.00	75.00	185.00
- Quality Date	4-4 wofini		11	3.20	46.00	10.15	4.80	9.40		5	3.20	19.20	8.24	4.80	10.40
Summary of Water Quality Data of Ruwa STW (POND)	K-T wofini (K-A)		11	15.00	176.20	44.68	28.50	46.60		5	18.00	176.20	65.68	31.00	63.00
	Inflow COD			•		1	-	•		0	•	ı	•	•	•
Table 3.5.33	GO8 wolful		11	220.00	2,250.00	657.27	460.00	630.00	. '95)	5	410.00	2,250.00	898.00	510.00	860.00
	9 woffnì	Annual (Oct. '94 - Sep. '95)	0	•	,	-			Dry Season (Apr. '95 - Sep.	0	•	•	ŧ	•	
		Annual (Oc	No.	Min.	Max.	Avg.	20%	75%	Dry Seasor	Z	Min.	Max.	Avg.	20%	75%

Table 3.5.34 Water Quality Data of Crowborough STW (TF/BNR)

	T		·	·	<b></b>	····	<del></del>				6	<b></b>	```	,	<del></del>	· · · · · · · · · · · · · · · · · · ·
Sample Point	Sampling Date	Flow (Total / TF / BNR) (m3/day)	Ł	Settlable Solid (oc/l)	Suspended Solid	Oxygen Absorbed (PV)	Biochemical Oxygen Demand	Chloride	Ammonia Nitrogen	Kjeldani Nitrogen	Nitrite	Nfrate	MB Stability (days)	T-Alkalinity	Phosphate	Chemical Oxygen Demand
Raw	1/5/95	44,700	6.76	90	596.0	78.4	350 9	150 0	24.0	46.0	l <del></del>	l <del></del>	<u> </u>	2300	6.0	830 5
TF-E#	<del>                                     </del>	28,700	7.45	TR	73.0	24.4	85.9	193 0	17.5	32.0	NiL	NIL	<8hr	1900	8.8	96.9
BNR-Eff	<del></del>	16,000	7.59	TR	140	7.2	109	161.0	02	39	TR	NIL	·	330.0	15	249.1
Ran	9.5/95	51,000	6.77	9.0	7100	1040	810.4	207.0	250	460	<del> </del>	<b>!</b>	<del> </del>	600.0	<del> </del> _	
TF-E#	3.933	34,700	7.23	TR	89.0	24.0	135.4	16:0	20.0	28.0	NIL	<del> </del>	<8hrs	300 0 360 0	5 6 3.0	1,289.7 293.6
BNR-EH	<del> </del>	16,300	7.64	TR	135	68	18.4	161.0	0.4	2.1	007	NIL	COLUM	230.0	1.0	99.2
CHITCH	<del> </del>	1		····			10.4				<u>~.~</u>	<del>  ''</del>		- 4,20.0	ļ <u>~</u>	
Raw	17/5/95	52,400	7.05	130	1,0340	1152	871.0	193.0	18.0	48.0	ļ. —	-	-	300.0	95	2,470.6
TF-E#		36,400	7.52	TR	740	25.6	86.0	153.0	5.0	18.0	NiL	NIL	<61-rs	360.0	33	337.3
BNR-Eff		16,000	7.95	TR	20	8.0	50	153.0	TR	0.8	0.07	NIL	-	3500	19	510
ļ	[	<b></b>	·								L					
Raw	25/5/95	45,200	7.12	18.0	740 0	58.4	560.7	1500	25.0	57.0	<i>-</i>	<u> </u>	·	300 0	6.0	1,725.5
TF-Eff		29,000	7.64	TR	81.0	23.2	120 7	153.0	29.0	340	NJL	NIL	<8rirs	3700	48	3529
BNR-Eff	l	16,200	7.85	TR	88	6.8	5.7	1460	02	1.9	NIL	NIL	<u> </u>	3100	03	902
Raw	12695	45,200	7.21	206	540 0	104.0	560.4	147.0	300	62.0	}	<b>├</b>				43:05
TF-Eft	20.33	28,900	7.46	TR	116.0	29.0	157.4	163.0	255	40.0	NiL	NIL	<8'v/s	300.0 370.0	7.6 5.6	1,210.0 341.3
8NR-Eff		16,300	7.61	TR	13.0	6.6	4.4	183 0	0.6	4.4	NIL	STR	l. <del>~"*'</del>	390.0	0.2	99.2
		<u> </u>	[				·		<del></del> -	<del></del> -	<u> </u>	<del></del> -	1		<del></del> -	
Raw	18/6/95	45,000	6.87	10.0	830.0	107.2	3402	137.0	27.0	640			-	2100	62	2,422 5
TF-Eff	<u> </u>	28,900	2 55	TR	590	306	500	322 0	29.5	48.0	NIL	NiL	-	NIL	100	341.1
BNR-Eff		16,100	7.26	TR	1.5	142	33	161 0	0.6	2.4	0.07	1.10	·	2100	0.2	85.3
0.50	26/6/95	47,400	7.02	130	1,050 0	75.6		193.0	- 25.6	-63.0	<b> </b> -			200.0		4.55.5
Raw TF-EH	20.030	32,900	7.02	TR	805	25.5		183.0 153.0	36 5 31 5	62 0 43 0	N!L	TR		230.0	8.4	1,455 2
BNR-EH		14,500	7.14	TR	50	66		151.0	07	38	0.12	NIL	-	300.0 220.0	8.0 0.1	302 2 74.6
		11,000							V. P		V. 15	1002	i	-2:00		
Raw	4/7/95	46,000	6 94	140	1,140.0	998	470 2	207.0	340	780	-	-	-	250.0	90	-
TF-E#		29,800	7.58	TR	108.0	299		189 0	360	530	NIL	NIL	-	3900	65	-
BNR-Eff		16,200	7.96	TR	21.0	66		151.0	13.0	42	0.11	TR	•	250.0	01	-
ļ	12/7/95	13.455		120												
Ran TF-EH	101795	43,100 26,300	6 88 7.30	TR	410.0 50.0	110.0 31.3	530 3 40 3	2160	39.5 40.0	55.0	0.40	- -		240.0	7.8	1,380.0
BNR-Eff		16,800	7.70	TR	45 0	0.1	47.8	176 0 170.0	38.5	54.0 3.0	0.40	NIL NIL		350 0 290.0	0.8	284 0 250 0
10.00		10,000	7.10	}- <del>'''</del>	700	<u>×</u> ::-j	- 7, 5	710.0	30.0		0.12	NYL		230.0	- 03	2300
Ran	20/7/35	45,300	7.70	13.0	770.0	89.2	640 2	187.0	39.5	89.0		-	-	3300	136	1,409 0
7F-E#		30,100	7.30	TR	1030	249	132 7	187.0	29.0	47.0	0.10	NIL	-	360.0	7.6	282.0
BNR-Eff		15,200	7.69	TR	390	53	9.4	1430	0.5	2.3	0.10	NIL	•	240.0	0.4	600
	C TO CC	10.000														
Raw TF-Eff	6895	40,300	6.95 7.37	60	·	808	8408	151.0	31.5	550		-		300 0	7.1	1,867.7
BNR-Eff	<del></del>	24,500 15,800	7.72	TR TR	-	22 2 6.5	83 73	153 0 164 0	33.0	41 0 1.5	0.00	NIL		330.0	5.9	216.4
DIT. T.		10,000		11,				104.0	03	1.0	0.10	NIL		2200	02	67.2
Raw	13895	39,700	6 82	12.0	910.0	98.0	600.5	175.0	345	70.0	-			300 0	40	1,828.4
TF-Eff		24,100	7.16	TR	900	272	430	177.0	29.0	440	0.31	-	-	390.0	32	328.4
BNR-Eff		15,600	7.53	TR	27.0	82	65	175 0	0.5	27	0 31		•	2500	01	104.5
<u> </u>																
Ran	21/8/95	46,800	671	130	1,352 0	148 8	1,3105	229 0	32.5	833	•	-	-	2500	46	
TF-Eff BNR-Eff		30,800 16,000	7.43 7.76	D.6 TR	57.0 49.0	32 O 6 8	210.5 28 0	191 0 193.0	26.5	67.3	6.47	NIL	1	400.0	3.6	<u></u>
10,11,1		10,000		113				193.0	1.5	40	0.17	N:L		2900	0.4	<del></del> -
Rzw	29.895	46,000	6.46	140	690.0	1268	500 8	217.0	22 0	560	. 1			300.0	5.6	1,567.5
TF-Eff		31,700	7 25	TR	130.0	32.7	35.8	173.0	28 0	33.0	NIL	NIL	<81vs	3400	4.4	301.6
BNR-Eff		14,300	7.55	TR	20.0	66	113	1650	1.1	22	0.35	NiL	-	3600	0.3	75.4
Raw TC 54	7/9/95	47,400	6.66 7.51	180	610.0	172.0	1,210.6	277.0	285	70.0		-	-	2100	59	2,741.2
TF-Eff BNR-Eff		31,000 16,400	7.75	TR TR	118.0 19.0	35.5 6.9	183.1 19.1	235.0 209.0	27.0	31.6	0.03	NIL	<81 rs	370.0	4.3	447.4
<u> </u>		10,400		<del>''''</del>	- 19.0		13.1	209.0	1.0	20.0	0.00	NIL		240.0	1.5	127 2
Raw	14995	44,000	6.69	100	7700	116.4	950 2	227.0	20.0	38.0	-	•		320 0	10.6	2,661.6
TF-E#		28,000	7.72	TR	163 0	36.4	2127	233 0	21.0		ni)	ΛĪ	<8ivs	420.0	68	406.8
BNR-Eff		16,000	7.63	TR	•	9.1	102	213.0	0.2		TR	1 20	<u> </u>	3100	6.4	79.8
ļ	3,400			<b>  </b>			اجيب	I	1					I		
Raw TF-EH	2/10/95	44,200 28,000	656 699	140 02	790 0 159 0	129 0 42 6	642.0	245.0	27.0	57.0		-	·	250 0	82	1,490.6
BNR-EH		16,200	7.09	TR	18.0	10.4	104.5 7.8	197.0 191.0	19.0 0.4	18	STR 006	1.10	<8irs	380.0 260.0	02	358.5 88.1
			~~~		-,,,,,	! <u></u> !					~ ~ <u>~ ~ </u>			2000	- 02	
Raw	9/10/95	47,200	7.04	100	760 0	120.8	792 3	2590	29.5	69.0			:	340.0	7.0	1,5180
TF-Eff		29,600	7.61	าล	160.0	40.7	197.3	215.0	215	33.0	NIL	NIL	<8h s	390 0	48	363.0
BNR-Eff		17,600	7.88	TR	23.0	9.1	68	1990	03	1.0	0.06	TR		390.0	0.1	1222
Raw	16/10/95	44,200	6.78	17.0	8400	131.6	277.6	277.0	<del></del>							
TF-Eff	10 10 30	27,200	7.28	TR TR	148 0	56.8	373.6 146.1	219.0	32.0	64.0 40.0	- N11	- NIL		350.0 430.0	152	1,376 3 351.9
BNR EH		17 000	7.47	TR	15.0	98	56			200		NIL NIL		370.0	40	118.5
					1	1						1	l.	5,4.4		





Table 3.5.34 Water Quality Data of Crowborough STW (TF/BNR) (cont'd)

												——-т				
Sample Point	Sampling Date	Flow (Total / TF / BNR) (m3/day)	¥	Settable Solid (cc/l)	Suppended Solid	Oxygen Absorbed (PV)	Biochemical Oxygen Demand	Chionde	Ammonia Nitrogen	Kjeldani Nitrogen	Nirto	Ntrate	MB Stability (days)	T-Alkalınıty	Phosphate	Chemical Oxygen Demand
Raw	26/10/95	40,800	653	18.0	1,140 0	1268	901.7	279.0	295	66.0				2300	12.1	2,441 5 281.3
TF-E#		24,000	7.40	ÎR.	101.0	33 3	29.5	207.0	33 5	47.0	STR	NIL		350 0 310 0	45 28	42 9
BNR-Eff		16,800	7.81	TR	430	9.0	27 2	2190	180	32 0	NIL			3700	<del></del> 1	
J	1/11/95	41,500	691	102	5800	808	700 5	218.0	340	660	-	•	•	2400	68	1,089.0
Raw TF-Eff	0111:53	26,000	7.36	TR	145.0	37.0	190 5	2120	33.0	49.0	18	TR		3900	90	303.5
CNR-Eff		15,500	7.42	TR	10.0	32 2	39.0	212.0	05	2.0	011	3.40		250.0	0.8	140.1
						423.0	7723	241.0	35.5	64.0				2900	7.7	1,7669
Rew	10-11/95	48,500	6.89 7.31	20.0 TR	880 <b>0</b> 83 0	132 8 29 6	19.3	209.0	29 0	440	NIL	-	<6hrs	370 0	53	297.0
TF-Eff BNR-Eff		33,400 15,100	7.67	TR	85	7.2	7.3	219.0	0.4	1.3	0.06	TR		270 0	0,4	105.3
Ditt. Eil		19,144												2800	8.4	1,823.5
Raw	27/11/94	47,600	6 78	240	1,260.0	162.4	1,000 6	1940	37.5 28.0	90.0 58.0	TR	- N:u	- <8i/s	360 0	68	470.6
TF-Eff		31,500	7.35	TR TR	132 0 28 0	36.8 4.6	400.6 40.6	214.0 184.0	02	60	0 08	NºE.		290.0	02	78.4
BNR-EH		16,100	7.81	118			40.0	100.0								
Raw	3/12/95	46,800	606	4.0	124.0	1528	7001	204.0	205	680	-		·	1100	62 56	1,161.4
TF-E#		30,800	7.37	TR	32.0	35.5	106 1	1780	28.0	49.0	NIL	1 20	<8hrs	350.0 220.0	08	<del>:</del>
BNR-Eff		16,000	7.90	TR	100	360	9.1	178.0	0.1	20	0.07	1 20		1.0.0		
	40/40/06	43,700	6.72	80	3320	1120	700.1	117.0	16.5	40.0		<b>-</b>	-	1000	4.8	844.4
Raw TF-Eff	12/12/95	28,400	7.11	TR	420	18.7	106.1	123.0	100	34.0	TR	NIL	<8lvs	2200	35	191.1
BNR-Eff	i	15,300	7.59	TR	100 0	4.4	9.1	137.0	0.1	15.0	0.10	1.70		1300	24	128 9
					105.5	-200	0013	157.0	250	36.0		ł		250.0	48	6400
Raw	28/12/95	73,400	695	TR TR	160.0 94.0	33.6 26.6	801 2 256 2	131.0	235	30.0	TR	NIL.	-	290.0	49	232 0
TF-Eff BNR-Eff	ļ	55,800 ( 17,600	7.55	0.4	920	60	14.7	125.0	75	17.0	0 10	Na	E	160.0	19	840
BAR-EII	<b></b>	11,000	1.00							<u> </u>	Ī	<b> </b>	<u> </u>	2200	7.2	1,1089
Ran	4/1/96	53,400	6.61	80	500.0	752	762.5	217.0	24 5	53.0 39.0	TR	NIL	<6ias	220 0 310 0	52	371.0
TF-Eff		41,600	7.20	TR	800	369	462.5 37.5	195.0 177.0	20 0 8.0	11.0	TR	1.60	21		0.6	806
BNR-Eff	<b> </b>	16,800	7.68	0.2	68 0	68	37.3	107.0	<del></del>					1		
Rex	21/1/96	78,000	693	7.0	80.0	37.6	2408	97.0	7.5	320	-		<u>-</u>	160 0	12	358 7 118.1
TF-Eff	1 2	61,800	7.19	TR	56.0	10.8	1008	77.0	11.5	23 0 16 0	TR 0.78	NiL 170	2	170 O	0.5	29.5
BNR-Eff		16,200	7.62	0.4	20	4.2	183	107.0	60	100	0.75	1.70	f	<u> </u>	1	
	28/1/96	90,000	7.01	TR	320	26.0	180.1	690	18.0	270	-	•		180.0	16	2800
Raw TF-Eff	20/1/90	74,700	7 23	TR	88.0	20.4	52.1	75.0	05	16.0	NIL	NIL	3		2.0 5.0	149.5 51.4
BNR-Eff		15,300	7.60	TR	64 0	52	20.1	87.0	550	14.0	0.07	2.40	i	149.0	- 30	
	l		<del> </del>		180 0	1212	340.3	153.0	10.8	44.0		<del> </del>	<del> </del>	260.0	6.8	1.033.1
TF-Eff	5/2/93	78,200 62,400	7.11	9.0 TR	15.0	200	100.3	115.0	122	30.0	NIL	NIL	<8hrs	270.0	5.0	181 8
BNR-E#	<del> </del>	15,600	7.78	TR	30.0	4.8	45.3	101 0	4.0	16.0	TR	6 90	ļ:	240 0	5.6	86.8
	İ						ļ	117.0	9.4	33.0	<del> </del>	<del> </del>	<del> </del>	140.0	20	4902
Raw	14/2/96	102,100	7.39	50 1.2	350 0 94.0	46.4 22.7	<del> </del>	109 0	<del>1-10'0</del>	25 0	STR	NIL	<81:18>	250 0	3.4	158.9
TF-EH BNR-EH	<del> </del>	85,300 16,800	7.53	TR	59.0	6.2	<del> </del>	930		130		4.60		140.0	61	47.1
DIVICA	<del> </del>	10,000	···-	1						1_==	<b></b> _	ļ.——	<del> </del> -	220 0	2.4	231 7
Raw	21/2/96	121,400	7.43	7.0	270 0	32 0	221.3 51.3	105 0 99 0		27.0 27.0		NIL		<del></del>	27	162 2
TF-EH	<b> </b> _	104,500	7.84 8 09	TR TR	70.0 29.0	142		97.0				1.10		180 0	1.3	29.4
BNR-Eff	<del> </del>	16,900	1000	1.2-		1		1				II	L		l	1,097.6
Rzw	18/3/96	69,000	7.31	100	568.0	920		105.0		52.0		NIL.	- <8hrs	220 0 260.0	7.1 5.0	329.3
TF-Eff		53,000	7.62	TR	220.0	31.8 6.6		121 0 105 0				3.10		1800	0.3	97.6
BNR-Eff	ļ	16,000	7.82	TR	25.0	0.0	00.1	1 1000	<del>  - •.•</del>	<del>                                     </del>						
Raw	24/3/96	60,600	672	14.0	570 0	80.B	120.1	930		400		<u> -</u>	<u> -</u>	180.0	5.8 5.7	645.2 221.8
TF-Eff	1	44,600	7.16		88 0	226		107.0				STR	811/8>	230.0 210.0	13	84.7
BNR-Eff		16,000	133	TR	440	12.6	40.1	97.0	95	29.0	INC.	1	1 2048	1		
000	1/4/96	63,500	7.18	90	920.0	696	640 0	119.0	195	49.0	-		E	190 0	7.3	1,1089
Ran TF-Eff	1/4.50	50,700	7 70		248.0	25.0	130 0					NIL	<8tys	230 0		181.5 56.5
8NR-Eff		12,800	1.82		800	60	90.0	99.0	55	15.0	TR	NIL	<del> </del>	250.0		<del></del>
				40	420 0	123 6	440.1	295 0	18.0	410			1	260.0	4.0	1,253.4
R≥w TF-Eff	9/4/98	62,600 46,600	7.11 878		118.0	27.4		97.0		34.0	STR	NIL	<871.8			251 9
BNR-Eff	1	16,000	697		180			810	0.5	05	TR	NIL	<del></del>	160 0	0.7	58.1
					1		320 7	227.0	24.0	36 5	<del> </del> -	<del> </del>	1	120.0	5.4	762.1
Raw	25/4/96	57,400	6.70 7.00		490 0 100 0	84.0 31.6		149.0				NIL	<8tvs	130 0	125	282 5
TF-Eff BNR-Eff	<del></del>	41,400 16,000	700		60		4	123 0				1 20		1600	67	520
12-113-CH	<del> </del>	1			ļ			<b> </b>	1	1	<del> </del>	<del> </del> -	<del> </del>	1100	6.2	811.8
Raw	135/95	50,700	6 72								NIL _	N:L	<8'ys			
TF-EH	1	34,700	7 26	1.0	158.0	34.4	1455	T ioir	30.0	1_21.0	1 11/2	1				

Table 3.5.34 Water Quality Data of Crowborough STW (TF/BNR) (cont'd)

sampic Point	Sampling Date	Flow (Total / TF / BNR) (m3/day)	¥	Settlable Solid (೦೦/)	Suspended Solid	Oxygen Absorbed (PV)	Biochemical Oxygen Demand	Chloride	Ammonia Nitrogen	Kjeldahi Nitrogen	Nitrita	Nitrate	MB Stability (days)	T-Akalinty	Phosphate	Chemical Oxygen Demand
ENR-En		16,000	7.64	TR	33.0	4.6	65.5	137.0	0.7	100	0 03	Nik	:	200 0	0.6	55.4
Rew	20/5/96	58,500	295	20	234 0	60 8	NIL		24.0	33.0	- - -	·	- <8hrs	N'L 2000	2.7 3.6	1,000.0 265.5
TF-EM		42,500 16,000	7.04	TR	94.0 8.0	30.4 5.4	105.6 NIL	133.0	21.0	25 0 3 2	NIL NIL	NIL NIL	-0.18	1000	02	40.0



Table 3.5.35 Water Quality Data of Firle STW Unit 1 & 2 (TF)

		211.010				~~~~	· ·				·					~1
Sample Point	Sampling Date	Flow (Total/TF)	Ta.	Settable Solid (oc/l)	pios pepuedsns 280.0	Oxygen Absorbed	Biochemical Oxygen S Demand	epuoude CHioude	Ammonia Nitrogen	Kjeldahi Nitrogen	Nitrite	Nitrate	MB Stability (days)	ST-Alkalinity	2 Phosphata	Chemical Oxygen 7 Demand 7 Demand
Raw 1F-Eff	11/5/95	115,300 88,840	6 92 6.77	TR	164.0	43.70	167.8	157.0	205	36 0	•	NIL	<8HR	400 0	29	338.9
TF-CJI		00,010												200.0		1,011.4
Raw	28/5/95		7.20	220	610.0	61.20 25.60	640 7 138 2	121 0 125 0	36.6 30.0	66.0 47.0	NIL	NIL	- <8HR	300 0 400 0	6.5 4.5	721.4
TF-Eff	ļi		7.21	1.0	76.0	23.00	130 2	1200	<u> </u>				<u> </u>			
Raw	4/6/95	106,600	7 25	TR	1480	310.80	310.6	125.0	200	53.0	-	-	-	4500	56	490.0
TF-Eff		83,720	7.40	TR	134.0	27.60	95.6	1290	35.5	48 0	NiL	NIL	<8HR\$	450.0	5.4	223.5
Raw	12/6/95	114,100	7.08	6.0	290 0	60.80	560.9	149.0	320	-		-	-	340.0	7.5	•
TF-Eff	12000	84,100		O SAMI			•						L			
					202.4	00.00	200 2	133.0	41.0	58.0	ļ <u>.        </u>		ļ	250.0	5.2	706.1
Raw TF-Eff	20/6/95	111,000 81,830	7.39	1.2 IO SAM	300.0	82.80	- 2002	133.0	41.0	30.0			1	200.0		
17-Eग -	<del> </del>	61,000		0 0/0///	<u> </u>											
RAW	28/6/95		7.28	11.0	460.0	80.40		143.0	38.0	71.0 50.0	- NiL	- NiL	ļ:	260.0 320.0	13.2 3.4	1,126.5 339.9
TF-Eft	ļ	78,760	7.86	TR	197.0	30.00	<u>-</u>	151.0	35.0	50.0	IN-IL	MIL.	<del> </del>	3200		
Raw	6/1/95	112,000	7.35	14.0	5000	84.00	4702	155.0	24.5	45.0	-	-	E	320.0	9.0	1,311.1
TF-Eff		82,990	7.51	TR	66.0	22.00	107.7	127.0	14.5	36.0	02	Nif	<u> </u>	340.0	2.5	133.3
	205755	70.000	704	160	950.0	90.40	620.6	155.0	42.0	69.0	<del> </del>		<del> </del>	5200	132	1,380.0
RAW TF-E#	23/7/95	76,000 44,740	7.34	TR	141.0	24.90	215.6	131.0	37.5	490	NIL	NIL	E	350.0	5.4	328.0
111-5-11	<del> </del>	17,110												0200	68	970.7
Raw	15/8/95	106,000	6.97	22.0	430.0	74.00	840.6 70.5	197.0 167.0	31.0 48.0	87.0 64.0	NIL	NIL.	<del> </del>	300.0 250.0	6.4	164.8
TF-Eff	<del> </del>	81,000	7.00	TR	880	21.30	70.5	107.0	40.0	04.0	100	11170				
Raw	24/8/95	117,000	7.10	20.0	710.0	117.20	780.3	177.0	46.0	132.0			<u> </u>	310.0	7.4	-
TF-Eff	Ī	88,370		O SAM	PLE		-	<b></b> -	ļ		<u> </u>		╂			
	31/8/95	111,000	7.04	20.0	1,1400	132 80	820.7	175.0	48.0	\$8.0	NIL		ļ. —	3300	9.8	194.6
Raw TF-Eff	3110/80	81,050	7.17	TR	85.0	35.10	1482	161.0	34.0	43.0	NIL	NIL		340.0	4.4	313.5
									<u> </u>		ļ	ļ	<b> </b> -	300.0	7.2	711.3
RAW	17/9/95		7.21	4.0 TR	264.0 53.0	62 80 35,60	541.0 211.0	127.0 139.0	31.0 42.5	76.0 46.0	- NIL	NIL	- <8HR		62	292 9
TF-Eff	<del> </del> -	68,200	1.20	1.2	33.0	13.00	211.0	100.0								
Raw	24/9/95		7.83	80	410.0	69.60	330.1	177.0	240	78.0	-	- NIL	- <8HR	340.0 340.0	8.8 3.5	1,277.1 114.6
TF-Eff	Ţ	64,100	7.82	TR	50.0	19.00	242 6	161.0	33.5	61.0	NIL	NIL	KBHK.	340.0	3.5	114.0
Raw	2/10/95	103,000	7.38	16.0	540 0	70 80	681.9	171.0	320	560	† <del></del>	-	<u> </u>	390.0	125	985.1
TF-E#	12.00	75,920	7.58	0.2	780	34.00	209.4	163.0	325	43.0	STR	NIL	<8HR	370.0	4.5	338.3
				L	0700	120.00	700.0	233.0	35 5	920	<del> </del>		<del> </del> -	490.0	33.0	2,117.1
Raw TF-Eff	10/10/96	83,000 83,000	7.50 7.47	24.0 TR	105.0	136.00 34.40	700.8 238.3			45.0		NIE	<8HR		62	311.5
	<del> </del>	00,000			<u> </u>						ļ	ļ	ļ	470.0	1	1,478.9
Raw	19/10/99	118,000	6.97	11.0	540.0	96 00 30.00	881.7 248.7	{- <del></del>		95.0 60.0	NIL	NIL	<del> </del>	340.0	11.4 52	274.9
TF-Eff	<del></del>	88,000	7.08	TR	60.0	35.00	240.1	1	1 200				1			
Raw	26/10/95	112,000				70.40	400.5			920	-	-	ļ	3400	122	1,225.3 201.6
TF-Eff		87,000	6 82	TR	110.0	31.30	148.0	147.0	325	340	NIL	NIL	<del> </del>	300 0	52	201.0
Raw	12/11/95	91,000	7.06	14.0	740 0	102.00	1,070.8	167.0	57.0	80.0		-	<u> </u>	3600	88	1,7448
TF-Eff	1101111	60,600	6.97		4	40.70	340.8	1390	32.0	500	TR	NIL	<8HR	300.0	5.5	546.9
				1	790.0	88.00	583.3	177.0	39.0	64.0		<u></u>	1.	300.0	108	1,183.2
Raw TF-Eff	19/11/93	96,000 66,600	7.10 7.21	7.0		29.60	1783			51.0	TR	NIL	<8HR		6.1	206.1
11-61	1	0,003	····											0400		464.0
Raw	27/11/95	108,000			720.0	48.40	540 9 260 9			60.0 37.0	02	NIL	<bhr< td=""><td>310.0</td><td>7.0 6.6</td><td>461.8 184.7</td></bhr<>	310.0	7.0 6.6	461.8 184.7
TF-Eff		80,400	7.32	TR	460	27.70	700.8	1 , 70.0	124.0	1 37.0	┌┷					
Raw	5/12/95	109,000	7.05	18.0		95.60	5423			79.0		<u> </u>	•	290 0	8.1	1,117.6
TF-Eff		78,600	7.12		520	27.70	1423	140.0	27.5	38.0	STR	NIL	<ehr< td=""><td>3000</td><td>5.5</td><td>447.1</td></ehr<>	3000	5.5	447.1
RAW	2414-25-4	5 101,000	7 23	0.5	148.0	17.60	200.9	151.0	200	49 0	1:	ļ. —	<u> </u>	390 0	50	320.0
TF-Eff	20123	71,000	7.19				100.9	133.0		21.0	STR	NIL	<u> </u>	270.0	60	2160
				1-22		70.40	2422	121.0	230	54.0	<del> </del>	<del> </del>	<del> </del>	220.0	69	9430
Raw	7/1/96	95,000 65,000	6.60	120 TR	590.0 40.0		3423 1823		4	<del>•</del>	STR	NIL	<8การ		3.4	
TF-E#	_!	1 00,000	1 0.32	<u> </u>	1 70.0	1		1					•			

Table 3.5.35 Water Quality Data of Firle STW Unit 1 & 2 (TF) (cont'd)

							· · · · · · · · · · · · · · · · · · ·	,						<del></del> .		
Sample Point	Sampling Date	Flow (Total/TF)	<u> </u>	Settlable Solid (cc/l)	Suspended Solid	Oxygen Absorbed	Biochemical Oxygen Demand	Chloride	Ammonia Nitrogen	Kjeldahi Nitrogen	Nitrita	Nitrate	MB Stability (days)	T-Alkatinity	Phosphate	Chemical Oxygen Demand
<u></u>	L			L			501.0	407.6	l		<b>}</b>		ļ	~~~		4445
Raw	15/1/96	119,000	6.66	18.0	7500	55 60	521.9	127.0	41.5	68.0	<u> </u>	ļ <u></u>	<u> </u>	2300	92	1,115.9
TF-Eff	<del> </del>	91,800		O SAM	1.5				<u> </u>		<del> </del>	<b> </b> -	<del> </del>			<del>  </del>
0	22/1/96	252,000	7.23	102	184 0	35 20	607	930	14.5	35 0			<del> </del>	1700	35	468.1
Raw TF-E#	201/90	226,000	7.19	7.0	1040	19.30	175.7	91.0	13.0	27.0	05	NIE	<del>-</del>	190.0	5.0	263.8
11-511	<b> </b>	220,000	7.19	,, <u>v</u>		13.50	1/3.7	31.0	1.3.0	27.0		14.6	<del> </del>	130.0	3.0	200.0
Raw	30/1/96	320,000	7.28	0.4	1,168.0	62 40	440.6	59.0	100	29.0				140.0	22	4.651.2
TF-Eff	301130	302,000		O SAME		V2 10										
}''		002,000		<u> </u>												
Raw	7/2/96	176,000	7.41	11.0	264 0	45.60	160 5	93.0	196	38 0	-	-	<u> -</u>	190 0	4.3	543.9
TF-Eff		152,000	7.46	TR	520	11.80	255	79.0	10.5	28.0	1.0	NIL	<8'vs	200 0	1.7	117.2
													I			
Raw	15/2/96	303,000	7.01	120	-	44.80	3208	101.0	165	47.0	-	•		2100	35	813.5
TF-Eff		283,000	6 66	6.0	-	20.10	1258	71.0	12.0	30 0	02	NIL	<8hrs	170.0	3.0	341.3
L																
RAW	3/3/96	187,000	7.16	7.0	314.0	51.20	800 6	77.0	16.5	<u> </u>	-	-		160.0	5.8	579 2
TF-Eff		162,000	7.08	TR	60.0	11.80	185.6	71.0	11.0		0,1	NIL	<8ivs	160.0	4.2	108.1
	777.57	400.000			~~~		404.5		17.0					700.0		423.1
Raw	10/3/96	162,000	6 93 7.05	2.4 TR	80 0 48.0	41.60 16.10	101.5 78.5	87.0 63.0	17.0 14.5	78.0 23.0	NIL	NIL	<8hrs	160.0 190.0	1.6 1.8	157.7
TF-Eff		131,400	7.00	IK	40.0	16.10	100	63.0	14.3	20.0	LANGE	MIL	COUR	150.0	1.0	137.7
Raw	18/3/96	154,000	6 96	10.0	420.0	138.40	280.5	87.0	13.0	43.0				170.0	52	578 5
TF-Eff	10330	123,900	7.16	TR	680	17.40	35.5	67.0	13.5	28 0	TR	NIL	<8irs	160.0	32	653.0
11 - 11		120,550	1.10			-17.50	30.0		100	200	•••	****		100.0		
RAW	26/3/96	137,000	7 20	120	610 0	89 20	320.0	101.0	25.0	70.0	-	-	-	200.0	5.6	1,240.0
TF Eff	1	109,400	6 74	TR	760	17.80	100.0	71.0	29 5	39 0	STR	NIL	<8hrs	180.0	4.6	172.0
	T .				·											
Raw	3/4/96	134,000	7.04	TR	156 0	35.00	320.0	365.0	14.0	22 0	-	-	-	190 0	6.4	555.6
TF-Eff		105,100	7.03	TR	47.0	18.40	100.5	67.0	135	16.0	IR	NIL	<8การ	220.0	68	123.0
K3M	11/4/96	126,000	661	14.0	3100	77.60	360.3	101.0	17.0	46 6		•	<u> </u>	160.0	4.0	992.4
TF-Eff	ļ	103,000	6.81	8.0	284.5	37.60	140.3	67.0	220	38 0	STR	NIL	<8hrs	1900	37	480.9
				L		40.00		440.0	~ 6					2000		400.0
Raw	28/4/96	111,000	6 85	1.0	590 0	40 00	NIL 16.0	113.0 113.0	33.5	39.5	- 0.4	4111	3	200 0	4.4 2.0	438.9 141.2
TF-E#		85,220	7.00	02	150.0	16.40	16.0	113.0	10.0	25.0	0.1	NIL	3	200 0	2.0	145 2
RAW	6/5/96	93,000	662	8.0	590.0	144 00	861.0	113.0	23.0	35.0			ł	200.0	6.8	1,723.5
TF-Eff	4330	65,300	686	TR	51.0	17,40	116.0	105.0	30.0	32.0	0.0	NIL	<6hrs	380.0	5.8	174.2
14 -4-1	<b> </b>	33,33	- 555	<del>  ''`</del> '		17.30	110.0	,,,,,,	30.0	- JE 0	V.5	1	· · · ·	~~~.		11.7.2
Raw	14/5/96	118,000	6 96	TR	68.0	128.00	320.3	95.0	36.0	420	-	-	ļ	190.0	3.7	335.8
TF-Eff	1	87,820	7.07	4.0	121 0	24.60	215.3	91.0	360	46.0	NIL	NIL	<81/s	210.0	5.3	843.3
	1	1														
Ra₩	22/5/96	161,000	6.73	TR	460	134.00	NIL	45.0	225	24.0	-	<u> </u>	<u>-</u>	90.0	3.1	235.5
TF-Eff		136,800	6 58	TR	520	11.80	NIL	63.0	11.6	18.0	01	NIL	<u> -</u>	200.0	42	115.9

· Table 3.5.36 Water Quality Data of Firle STW Unit 3 & 4 (BNR)

		rable 3.			ner Qu			г			т				- <del></del>	
Sample Pout	Sampling Date	Flow (Total / Unit 3 / Unit 4)	Ľ A	Settlable Solid (oc/l)	Suspended Solid	Oxygen Absorbed (PV)	Biochemical Oxygen Demand	Chloride	Ammonia Nitrogen	Kjeldahi Nitrogen	Narte	Nıtrate	MB Stability (days)	0 T-Alkatinity	w Phosphate	Chemical Oxygen 92 Demand
Unit3-เลพ	7/5/95	112,000	7.01	TR	1220	32.40	190.7	157.0	250 03	390 46	TR	NIL		2800	4.4	568
BNR3-eff		12,300	7.39	TR	9.0	7.00	28.2	149 0 157 0	245	340	-IK	MIL		3000	6.6	4785
Unit4+aw		12,100	7.06	TR TR	116.0 13.5	24.80 6.80	360 7 98 2	131 0	02	25	01	11		3100	28	71.4
BNR4-eff			1.42			- 555		10.0								
Unit3-raw	16/5/95	113,000	7.18	22.0	1,100.0	91.20	510.4	151.0	27.5	64.0				300.0	11.3	1,240.0
BNR3-eff		12,000	7.20	TR	21.0	6 60	12.4	175.0	100	180	NIL.	NIL		250 0	09	92.1 1,140.0
Unit4-raw		16,000	7.21	200	1,000.0	93.20	480.4	155 0	26.5 0.8	630 37	0.4	1.2		250 0 200.0	10.1	840
BNR4-eff			7.70	TR	27.0	7.40	8.4	139.0	0.6	-3.4	0.7	1		- 500.0		
Unit3-raw	23/5/95	<del>                                     </del>	7.32	21.0	560 6	8080	470.3	197.0	345	70.0				3100	86	1,0827
BNR3-eff	20030	l	7.93	TR	15.0	4.60	7.3	125.0	3.5	5.4	TR	NIL		300.0	0.4	86.6
Unit4-raw			7.34	240	700 0	96 80	470.3	147.0	360	67.0	L	ļ		4200	8.1	1,161.4 86.6
BNR4-eff		<u> </u>	7.94	TR	20.0	6.60	68	133.0	0.7	28	6.5	NIL		240.0	1.5	
	24505	110,000	7.71	360	880 0	100 00	6804	1520	49.0	860	<b></b>			3660	104	1,063.4
Unit3-raw BNR3-eff	31/5/95	12,000	7.51	TR	150	7.60	9.4	138 0	4.8	69	02	NIL		202.0	09	82.1
Unit4-raw		14,570	7.69	30.6	7400	108.00	710.4	153 0	48.0	85.0			ļ	380.0	106	1,268.6
BNR4 eff			7.75	18	21.0	7.40	15.2	1530	5.3	10.4	0.1	NIL	<b> </b> -	221.0	1.4	89.6
						5200	2902	157.0	33.5	540	ļ			300.0	5.9	551.0
Unit3-raw	8/6/95	ļ	7.05 7.53	TR TR	100.0	52 00 8 20	135	1430	32	108	0.5	32		300 0	1.7	74.8
BNR3-eff		<del> </del>	7.26	TR	100.0	38.80	3102	1650	33.0	580				300 0	60	7280
Unit4-raw BNR4-eff			7.56	TR	2.0	5.00	122	157.0	3.3	130	0.3	1.0		280.0	02	78.7
											<u> </u>	ļ <u>.</u>	<b>!</b>	2600	11.5	792.5
Unit3-raw	26/6/95	99,000	7.12	7.0	430.0	52.60	680.1 11.0	141.0 133.0	34 5 2 6	62 0 3.4	TR	TR		2100	2.4	113.2
BNR3-eff		6,720	765 720	TR 8.0	15.0 380.0	630 3600	4110	128 0	320	620	<del>  -'''`</del>	<del>  -''`</del>		3000	4.5	861.9
Unit4 raw BNR4-eff	<del> </del>	15,720	7.64	TR	85	6.40	25.0	151 0	29	42	5.1	TR		2800	02	93.1
Denteren		<del> </del>	7.5	<del></del> -	l											1 200 4
Unit3-raw	3/7/95	111,000	7.60	17.0	730.0	73.60	100.8	135.0	34.0	74.0		TR		340 0 280 0	13	1,200.4 87.7
BNR3-eff		11,500	7.96	TR	24.0	6 60	7.8 200.8	141.0 151.0	33.0	3.4 75.0	0.1	15		300.0	40	1,139.5
Unit-4raw	<del>                                     </del>	13,690	7.59 8.56	11.0 TR	620.0 137.0	71.60 14.80	NIL	143.0	102	31.0	0.1	NIL	_	360.0	1.1	207 2
8NR4-eff	<del>}</del>	ļ	9.55	''	101.0	1-17.00	- <u>'''</u>	1.0.0								
Unit-3raw	10/7/95	112,000	7.19	130	6000	60.80	300.1	157.0	37.5	70.0			ļ	330.0	7.5	1,373.0
BNR3-eff		12,000	7.39	TR	11.0	21.00	37.6	151.0	36	10.0	03	1.8		210 O 340 O	125	229 5 1,229 5
Und4-raw	<b></b>	17,610	725	14.0	600.0	85 20 12.80	330 1 3.6	165 0 139.0	35 5 3.6	66 0 12 0	03	2.1		190.0	0.4	820
BNR4 eff	<b></b>	<del> </del>	7.55	TR	360	12.00	3.0	133.0		<del>'``</del> `	<u> </u>					
Unit3-raw	19/7/95	162,000	7.13	5.0	380.0	96.40	350.1	1500	450	600			L	2800	5.4	860.0
8NR3-eff	1 1111111	14,000	7.60	TR		13.00	NRL	148.0	9.3	29.0	02	1.6		230.0 280.0	62	76 0 640 0
Unit-4raw		14,770	7.12	TR		50 60	220.1	150.0	47.5	630	0.3	28		140.0	0.6	726
BNR4-eff		<del> </del>	7.84	TR	9.0	690	1.1	1520	7.0	250	1-0.3	- <u>*</u>		1,10.0		
Unit-3raw	26/7/95	90,000	6 45	11.0	6600	89 20	4702	137.0	560	750				360.0	55	1,087.0
BNR3-eff	201100	13,000	701	TR		13.10	6.2		0.3		0.1	24		220.0	25	240
Unit4-raw		15,150	6.54	120		85 20	3402			64.0 5.0	0.1	TR		230.0	15	550.0 30.0
BNR4-eff	ļ	ļ	7.04	TR	300	830	5.7	137.0	03	39	<u>' ' '</u>			200.0	<u>-</u> -	
Unit-3raw	3/8/95	114,000	7.78	18.0	<del> </del>	94.00	760.6	171 0	430	86.0	<b> </b>			380.0		1,1328
BNR3-eff	37030	12,000	808	TR	-	5.90	5.6	153.0	0.4	1.7	0.1	NIL		260.0	ļ:	82.0
Unit4-raw		16,900	7,53	24.0	·	97.60	610.6	1630		940	ļ.,,	TR		390 0 240 0	<del> </del> -	492.2 148.4
BNR4-eff			804	7.0	ļ <del>.</del>	9.80	25.6	157.0	12	65	0.1	1-15		2400		
11-32	20/8/95	92,000	7.06	11.0	9180	136.80	561.7	149.0	365	840	<del> </del>	1		300.0	14.9	-
Unit3-raw BNR3-eff	20000	12,100	7.79	TR		6.60	9.7	157.0	0.4	17	TR	IR		1800	1.4	·
Unit418W	<del>                                     </del>	17,900	7.28	13.0			571.7		40.5			1 TO		3100	8.4 8.4	
BNR4-eff			7.76	TR	49.0	8 20	32.2	153.0	28	3.5	0.5	TR		200 0	0.4	<del>:</del>
0.55	102000	99,000	7.09	14.0	750.0	724.00	570.6	134.0	41.0	540		<del>                                     </del>	<del> </del>	290 0	8.1	
Unit3-raw BNR3-eff	27/8/95	11,600	7.58	TR		8.80	23.1	167.0	0.5	9.0	0.1	115	I	190.0	5.0	<i>:</i>
Unk443W	<del> </del>	17,500	7.12	140		78.00	540.6	127.0	39.5			L	<u> </u>	3100	7.8	ļ <del></del>
BNR4-eff	1		7.67	TR		9.00	16.6	161 0	0.6	10.0	04	10.5	-	150.0	26	<del> </del>
	<del> </del>	400 000			684.0	117.20	572.3	199.0	43.0	73.0	t:	<del>                                     </del>	<del> </del>	330.0	116	1,594.5
Unit3-raw BNR3-eff	5/9/95	105,000	7.12 7.62	20.0 TR		5.50	63	131.0	05	4.5	0.1	6.9		179.0	30	2165
Unit4-raw	<del>                                     </del>	16,220	7 21	20.0			6623	1	420			ļ	ļ	3400	72	1,850.4
BNR4-eff	1	1	783	TR	130	630	63	141.0	0.4	25	01	3.1	ļ	190.0	1.2	102.4
	1	1	I	L	L	l	J	L	l	<u> </u>	1	I	<b>!</b>		<u></u>	i

Table 3.5.36 Water Quality Data of Firle STW Unit 3 & 4 (BNR) (cont'd)

Sample Point	Sampling Date	Flow {Total / Unit 3 / Unit 4}		Settable Solid (cc/l)	Suspended Solid	Oxygen Absorbed (PV)	Biochemical Oxygen Demand	ę,	Ammonua Nitrogen	Kjeldahl Nitrogen		•	MS Stability (days)	T-Alkalinity	Phosphate	Chemical Oxygen Demand
am e	E S	Flow	Į,	St.	ds.	\$ 5	15 E	Chioride	Ę		Nitrite	Nrrate	85	₹	<u>\$</u>	5 8
Unit3-raw	12/9/95	96,000	7.18	200	626 0	105 00	5/1.5	195 0	47.0	890		-4-	~	3900	132	1,541.7
BNR3-eff		14,000	7.71	TR	17.0	300	65	159.0	0.4	65	0.1	2.4		260 0	65	262 5
Unit4-rew BNR4-eff		16,300	7.18 7.70	22.0 TR	830.0 17.0	90.40	441.5 9.0	199.0 169.0	49.0	820 30	0.1	4.9		390 0 250 0	126 38	1,759.4 108.3
Canada			7,70	- 170	17.0	4,40	90	1000			<u> </u>	7.5				
Unit3-raw	21/9/95	115,000	7.32	160	6420	95.60	360 9	185.0	37.0	77.0		410	-	370.0	11.0 3.2	1,394.9
BNR3-eff Unit4-raw		13,600 16,340	7.64 7.22	TR 17.0	33.0 828.0	9.80 110.40	27.4 660.9	183.0 195.0	43.0	120 81.0	0.2	NIL		320.0 300.0	123	1,710.6
BNR4-€#			7.74	TR.	280	930	64	179.0	0.3	7.0	02	NºL		220.0	3.8	228.9
Unit3-raw	29/9/95	110,000	7.18	16.0	8300	124 00	851.0	229.0	47.5	84.0	ļ	<b> </b>		330.0	128	1,831.5
BNR3-eff	23/3/30	13,820	7.85	TR	31.0	10 20	15.0	135.0	0.4	4.1	03	4.8		3300	7.4	106.2
Unit4-raw		16,120	824	160	8400	130 00	1,001.0	217.0	465	830				3800	13.6	1,6849
8NR4-eff			7.84	TR	560	1290	33.0	1730	0.6	4.7	02	2.6		240.0	2.4	131.9
Unit3-raw	15/10/95	96,000	7.03	120	4800	83 20	383.2	1530	300	550				3100	-	7188
BNR3-eff		14,000	7.51	TR	80	6.70	7.2 573.2	157.0 155.0	350	35	0.1	43		220.0 310.0	-	75.3 842.3
Unit4-raw BNR4-eff		17,000	6 97 7.57	130 TR	50	92 00 7.70	5/3.2	159.0	02	57.0 4.4	0.1	4.1		210.0	-	68.1
Unit3-raw BNR3-eff	23/10/95	98,000	7.39 7.95	17.0 TR	6300 190	95.60 8.10	6820 50	163.0 161.0	34.5 0.4	680 13.0	58	Nil		300 0 260 0	16.8 3.2	1,2249
Unit-4raw	·····	16,000	7.40	18.0	6600	82.40	4820	157.0	36.0	69.0	30	14.5		300 0	9.0	1,104.4
BNR4-eff			7.98	TR	17.0	9.30	7.0	159.0	03	15.0	3.1	NIL		210.0	22	84.3
Unit-3raw	7/11/95	113,000	7.19	14.0	6900	90 40	7228	264.0	34.0	76.0				352.0	108	1,520.0
8NR3-eff	10.10.4	12,800	7.80	TR	17.0	9.60	123	226.0	0.1	20	0.1	NiL		232 0	2.8	112.5
Unit4-raw		15,180	7 27	14.0	650 0	120 00	7228	258.0	320	72.0		- 133		316.0	12.6	1,395.8
8NR4-eff			7.81	TR	21.0	9.40	148	184.0	0.3	25	01	NIL		228.0	0.6	120.8
Unit3-raw	16/11/95	102,000	7.12	360	6800	121 60	631.5	217.0	40.0	820				290.0	10.7	1,445.3
BNR3-eff Unit-4raw	<u> </u>	14,000 16,770	7.53 7.20	100 0 40 0	1180 1,2300	49 90 116 80	153 2 920 9	177.0 205.0	02 36.0	63.0 85.0	TR	NIL	4	270.0 320.0	7.2 11.7	574.2 1,640.6
BNR4-eff		10,770	7.63	10	79.0	17.30	227	197.0	03	250	0.1	NIL	6	250.0	1.3	207.0
Unit-3raw	24/11/95	96,000	7.11	200	75.0	104 00	500 9	189.0	35.0	77.0				3000	10.8	1,1422
BNR3-eff	24/11/30	12,500	7.83	TR	9.0	820	1109	157.0	0.1	1.7	0.1	NIL		220.0	1.8	690
Unit4-raw		17,000	7.14	220	810.0	106.40	980.0	187.0	38.0	80.0				310.0	11.6	1,034.5
BNR4 eff	ļ		7.82	TR	25.0	1250		153.0	0.6	3.6	02	NIL		230.0	0.4	75.3
Unit-3raw	12-10-95		7 23	02	640.0	30 00	151.2	131.0	260	430				2100	40	987.1
BNR3 eff	ļ	11,347 14,300	7.66 7.17	TR 5.0	50.0 500.0	7.30	17.2	147.0	03	150	0.1	Nif		220.0	22	85.8 700 F
Unit4-raw BNR4-eff		14,300	7.64	TR	190	57 20 11.00	401.2 10.2	137.0 157.0	25 0 0.3	580 180	0.2	NIE		250.0 200.0	52 16	708.5 103.0
	40102.2															
Unit3-ray BNR3-eff	18/12/95	95,000 14,000	7.10 7.54	17.0 STR	556.0 14.0	59.60 7.60	601.5 11.5	177.0 181.0	37.0 02	54.0 18.0	0.1	ΤR		280.0 200.0	16.6	93C2 85.3
Unit4-raw	l	16,000	7.18	16.0	528.0	69 20	901.5	149.0	580	80.0				270.0	13.6	7558
BNR4-eff	ļ		7.49	STR	22 0	7.40	6.5	157.0	02	13.0	03	4.5		170.0	27	69.8
Unit3-raw	2/1/96	123,000	7.07	18.0	560.0	88.40	301.2	145.0	27.0	85.0				2500	10.4	7968
BNR3 eff	I	13,000	7.45	TR	80	5 50	1.1	119.0	02	08	0.0	NiL	21	130.0	5.4	27.9
Unit4-raw BNR4-eff	<del> </del>	14,800	7.02 7.33	14.0 TR	490 0 6 0	140.40 5.80	331.2 1.0	127.0 107.0	28.5	700	01	NiE.	21	240 0 140.0	8.0 4.2	617.5 31.9
											01	1816				
Unit3-raw 8NR3-eff	10/1/96	118,000 14,000	7.48 7.84	16.0 TR	740.0 42.0	85.60 7.50	461.4 36.4	137.0 129.0	30.0 0.3	57.0 15.0	02			2800	11.0 20	931.8 63.6
Unit4-raw	<b> </b> -	16,000	7.41	120	660.0	86.00	641.4	149.0	34.0	500	02	4.0	21	170 0 300 0	7.3	1,136.4
BNR4 eff			7.85	TR	66.0	38.00	31.4	1297	2.4	180	0.4	3.1	21	2100	120	50.0
Unit3-raw	18/1/96	161,000	7.17	190	472.0	81.60	321.1	119.0	28.0	65.0				2200	62	790.6
BNR3 eff		10,610	7.37	TR	15.0	8.20	41.1	117.0	02	150	0.3	6.1	21	1400	36	72.6
Unit4-raw		15,400	7.10	11.0	416.0	81.60	321.1	117.0	28.0	620			-	2300	4.7	854.7
8NR4 eff			7.45	1.8	18.0	670	11.1	113.0	02	20.0	0.1	7.4	21	1400	22	769
Unit3-raw	4/2/96	220,000	7.23	90	1,500.0	59 20	741.2	97.0	24.0	500				2100	45	1,049.4
8NR3 eff Unit4-raw	ļ	8,000 13,000	7.49 7.18	7.0	49.0 310.0	7.40 48.90	46.2 171.2	91.0 97.0	16.0	20.0 42.0	TR	8.6		170 0 220 0	27 64	107.0 555.6
BNR4 eff	<u>                                     </u>	10,00	7.66	TR	25.0	7.80	51.2	95.0	0.2	15.0	0.1	5.7		160.0	20	111.1
L	L			]				l								

Table 3.5.36 Water Quality Data of Firle STW Unit 3 & 4 (BNR) (cont'd)

BNR3-8f		IAV	16 2.2.20	, ,		Sum.	ny Da										
Uni3-raw 1170/56 173000 7.00 80 3800 3000 3212 650 120 4001 - 10900 5.5, 4950 18 NBR3-eff 6.000 7.49 1R 150 8.70 62 810 1R 180 01 45 1800 12 67.7 12 67.7 14000 7.05 90 3200 2200 8812 810 100 38.0 - 2000 6.4 418.3 10044-raw 14,000 7.05 90 3200 2200 8812 810 100 38.0 - 2000 6.4 418.3 10044-raw 14,000 7.05 90 3200 3200 340 262 830 01 180 05 40 1700 18 59.8 10044-raw 14,000 7.45 2.4 164.0 32.40 1818 95.0 20.0 43.0 - 300.0 5.1 262.9 10.0 10.0 7.45 1.0 10.0 7.45 1.0 10.0 18.8 99.0 10.1 22.0 0.1 55 100.0 2.7 23.3 10.44-raw 14,000 7.46 1R 68.0 21.20 131.8 560 17.5 43.0 - 200.0 43.2 110.0 20.0 18.0 18.0 18.0 18.0 18.0 18.0 18.0 1	imple Point	ampling Date	ow otal / Unit 3 / Unit 4)	T	ettable Solid (oc/l)	bios pended Solid	nygen Absorbed PV)	iochemical Oxygen Jemand	hloride	ramonia Nitrogen	Çoldahi Nitrogen	Värite	Htrate	AB Stability (days)	T-Alkalınity	Phosphate	Chemical Oxygen Demand
DMS-488   110290   10000   7.49   TR   15.0   8.70   6.2   810   TR   18.0   0.1   4.5   1800   1.2   67.7			. 및 는	- 200	-63		0.00				400	<del> </del>	<del></del> -	-		5.6	
SNR3-68   14,000   7,65   90   3200   2200   881 2   810   100   380   .   .   .   .   2000   6,4   418.3   8184-81     14,000   7,55   0.2   350   3.40   262   830   0.1   180   0.5   40   1700   18   558		11/2/95	173,000									01	45				
Unit												<u>-v.,</u>	<del>''</del>	:			
BNR4-eff   7.83   0.2   350   350   250   550   200   430     3300   5.1   2529			14,000			320.0						0.5	40				
DATE   STATE   TO   TO   TO   TO   TO   TO   TO	BNR4-eff			7.53	0.4	- 300	3.40	202	000	<del></del> -	100						
DATE   STATE   TO   TO   TO   TO   TO   TO   TO			130 000	7.45		1640	33.40	191.8	95.0	20.0	430				330.0	5.1	252.9
BNR3-6T   10,000		20/2/95										0.1	55			27	
Drid4-ray   19,000   7.86   TR   160   3.70   43   910   TR   250   TR   NiL   1300   18   27.2											430						
Unit			14,000								250	TR	NL				
Unit-3*raw   14/396   180,000   725   220   4100   80.40   201.1   810   30.5   220	BNR4-eff			/.10	317	100	3.70	7.5	310								
Unit-3*raw   14/396   180,000   725   220   4100   80.40   201.1   810   30.5   220				700		216.0	ങ	210 8	87.0	22.5	340				2000	29	3543
BNR3-8f		6/3/96										STR	5.5	-			1338
Dritt 4/396													-				
BNR4-eff   7.52			13,000									02	55			07	630
Unit-3raw   14/396   180,000   7.68   IR   32.0   35.0   41.1   77.0   SIR   0.5   NIL   NIL   1700   0.9   41.3	BNR4-eff		ļ	1.52	118	14.0		(A)/2-									
Unit-3raw   14/395   180,000   7.63   1R   320   350   41.1   77.0   STR   0.5   NIL   NIL   1700   0.9   41.3	L					4100	90.40	2011	810	3)5	220				1900	108	1,012.4
Direct State   14,000   721   180   7300   8200   201.1   87.0   22.5   24.0		14/3/96									05	NII	Nil			0.9	41.3
Direct Pair   14,000   721   160   1160   NRL   870   STR   0.4   3.1   TR   - 1500   12   66.1									87.0		210				200.0	7.2	909 1
Unit3-raw   15/4/56   111,000   651   2.0   200.0   45.20   640.0   111.0   30.5   32.0       240.0   65   576.9			14,000		180						04	31	78	-			
Shr3-eff   16,000   6.82   TR   70   5.50   7.5   950   0.3   1.4   TR   48     1400   1.3   42.3	BNR4-eff			1./0	114	420	1100		- 07.0		- 0.4			i —		i	
Shr3-eff   16,000   6.82   TR   70   5.50   7.5   950   0.3   1.4   TR   48     1400   1.3   42.3				054	- 20	2000	45.20	640.0	1110	30.5	320			-	240 0	65	576.9
BNR3-eff   16,000   6.82   1.6   7.0   6.84   7.0   7.5		15/4/95										18	48		1400		423
BNR4-eff   Condition   Condi		ļ										•	-		2500	6.1	884.6
BNR3-eff   14,840   7.31   TR   45.0   7.40   103.8   129.0   3.4   15.0   0.1   NIL   200.0   6.5   3.8   3.6   3.8		L	10,000									01	7.1				462
Unit-3raw   25/96   97,000   6.96   200   1400   63.60   41.3   117.0   35.0   48.0   250.0   6.9   764.7	BNR4-eff		ļ	5.83	186	5.0	3.30	—— <del>/</del>	<u>~~.~</u>	0.0	<del> </del>			, —			
Unit-3raw   25/96   97,000   6.96   200   1400   63.60   41.3   117.0   35.0   48.0   250.0   6.9   764.7				7.00	- 20	4640	1000	290.1	151 D	325	37.0				2000	69	490.2
Unit-3-raw		24/4/96										STR	15		200.0		62.7
Director	ļ										-	-		250.0	6.9	7647	
Unit-3-raw 2596 97,000 6.96 200 140.0 63.60 41.3 117.0 35.0 48.0 · · · 170.0 4.9 633.6 8NR3-eff 14,840 7.31 TR 45.0 7.40 103.8 129.0 3.4 15.0 0.1 NIL 220.0 65 53.8 Unit-4-raw 11,150 7.03 17.0 110.0 80.80 21.3 137.0 30.0 50.0 · · · 230.0 63 364.8 8NR4-eff 7.34 TR 50 6.40 NIL 125.0 0.3 8.0 0.2 27 .200.0 1.4 119.0 Unit-3-raw 10,596 119,000 6.84 16.0 576.0 72.00 80.4 121.0 35.0 44.0 · · · 180.0 4.9 652.8 8NR3-eff 14,900 7.41 TR 74.0 8.20 22.9 97.0 6.5 20.0 0.1 NIL 350.0 6.4 49.9 Unit-3-raw 14,540 6.78 20.0 796.0 84.80 120.4 137.0 35.0 45.0 · · · 210.0 6.1 940.8		<u> </u>	15,310									NiL	0.5	-	200.0	4.0	1098
Unix3-raw   25/96   97/000   63/6   200   740   03/60   413   170   350   3.4   150   0.1   NIL   - 2300   65   53/8   68/83-eff   14/840   7.31   TR   45/0   7.40   103/8   129/0   3.4   150   0.1   NIL   - 2300   63   364/8   Unix4-raw   11/150   7.03   17/0   110/0   80/80   21/3   137/0   30/0   50/0   -   -   -   230/0   63   364/8   68/4   68	BNR4-eff	<b>↓</b>	<b> </b> -	690	3.0	40.0	300	19.1	1-101.0	<u> </u>				1			
Shr3-eff					200	140.0	6360	413	1170	35.0	480			-	170.0	4.9	633.6
BNR3-6ff		2/5/96										0.1	NIL			65	53.8
Unix3-raw		ļ										1		-		63	364.8
Uniki-law 10/5/96 119,000 6.84 16.0 576.0 72.00 80.4 121.0 35.0 44.0 180.0 4.9 652.8 BNR3-eff 14,900 7.41 IR 74.0 8.20 22.9 97.0 65 20.0 0.1 N/L - 350.0 5.4 49.9 Uniki-law 14,540 678 20.0 796.0 84.80 120.4 137.0 35.0 45.0 210.0 6.1 940.8		<b> </b>	11,150									02	27	· ·		1.4	119.0
Unit3-raw 10596 119,000 684 160 5760 7203 50.4 1210 500 775 BNR3-eff 14,900 7.41 TR 74.0 820 229 97.0 65 20.0 0.1 NIL - 3500 6.4 499 Unit4-raw 14,540 678 200 7960 84.80 120.4 137.0 350 450 210.0 6.1 940.8	BNR4-eff	<del> </del>	<del> </del>	1.34	114		0.40	1111	1.20.0	† <del></del>	<u></u>			1	T	1	
BNR3-eff         14,900         7.41         TR         74.0         8.20         22.9         97.0         6.5         20.0         0.1         NIL         -350.0         6.4         49.9           Unit4-rev         14,540         6.78         20.0         796.0         84.80         120.4         137.0         35.0         45.0         -         -         210.0         6.1         940.8           Unit4-rev         14,540         6.78         20.0         796.0         84.80         120.4         137.0         35.0         45.0         -         -         210.0         6.1         940.8	10.70	10500	100000		160	576.0	7200	80.4	1210	35.0	44.0			Γ.	1800		6528
Unit4-ray 14,540 678 200 7960 84.80 120.4 1370 350 450 210.0 6.1 940.8		10/5/96						220				0.1	NIL	-	3500	6.4	499
14,540 876 200 7300 VAS		ļ										-	-	-	210.0	6.1	940.8
		<b></b>	14,340									18	NIL			0.8	34.6