

Input No	Borehole No	District	Total Depth (m)	Lithology	Thickness of main Aquifer			Main Supply (G.L.-m)	Groundwater Depth			Yield (l/s)	Specific Capacity (m ² /day)	Depth of Pump Intake (G.L.-m)	Diameter (mm)	Plan Casing		Perforated Casing		Depth of Bottom of Casing (G.L.-m)
					From (G.L.-m)	to (G.L.-m)	Total Thickness (m)		First Struck (G.L.-m)	Static (G.L.-m)	Start (G.L.-m)					From (G.L.-m)	to (G.L.-m)	From (G.L.-m)	to (G.L.-m)	
3835	1554-6	Ndolu-Rural	65.00	sandstone	30.00	55.00	25.00	55.00	30.00	7.10	3.50	3.50	55.50	61.00	150	0.00	18.70	0.00	0.00	18.70
3836	1554-5	Ndolu-Rural	65.00	sandstone	45.00	55.00	10.00	45.00	40.00	7.10	1.17	1.17	1.88	61.00	150	0.00	12.46	0.00	0.00	12.46
3837	1554-4	Ndolu-Rural	70.00	sandstone	40.00	70.00	30.00	40.00	40.00	25.00	1.12	1.12	2.42	65.00	0	0.00	0.00	0.00	0.00	0.00
3838	144613	Luanabya	70.00	schist	48.00	57.00	9.00	48.00	12.00	4.80	0.91	0.91	1.26	67.00	150	0.00	7.78	0.00	0.00	62.78
3839	1551-1	Luanabya	61.00	schist	36.00	55.00	19.00	36.00	12.00	18.20	0.66	0.66	1.47	57.00	150	0.00	15.54	15.54	40.54	55.79
3840	144612	Luanabya	60.00	schist	30.00	48.00	18.00	30.00	10.00	6.70	5.60	5.60	16.00	57.00	150	0.00	10.00	10.00	27.40	27.40
3841	144611	Luanabya	70.10	schist	39.00	51.00	12.00	39.00	3.00	1.20	1.60	1.60	3.39	67.00	150	0.00	7.00	7.00	64.00	64.00
3842	144610	Luanabya	65.00	schist	30.00	51.00	21.00	30.00	5.00	2.10	2.00	2.00	4.12	60.00	150	0.00	3.40	3.40	49.40	49.40
3843	1446-9	Luanabya	61.00	schist	53.00	55.00	10.00	45.00	10.00	3.60	1.60	1.60	3.12	57.00	150	0.00	8.00	8.00	44.50	44.50
3844	144614	Luanabya	70.00	schist	30.00	61.00	8.00	30.00	11.00	7.60	1.60	1.60	2.92	67.00	150	0.00	4.70	4.70	64.70	64.70
3845	1421-5	Chingola	54.86	schist	30.00	42.00	12.00	30.00	18.20	10.60	7.10	7.10	383.00	51.00	150	0.00	14.00	14.00	44.50	44.50
3846	1544-1	Chingola	51.82	granite	12.19	51.82	39.63	12.19	12.19	3.66	0.33	0.33	0.63	48.77	150	0.00	3.66	3.66	32.00	32.00
3847	142110	Chingola	61.00	schist	30.00	53.00	23.00	30.00	10.60	5.30	3.70	3.70	19.70	57.00	150	0.00	4.80	4.80	29.26	29.26
3848	1421-9	Chingola	61.00	schist	30.00	53.00	23.00	30.00	3.00	2.40	1.20	1.20	1.90	57.00	150	0.00	5.50	5.50	50.50	50.50
3849	1421-8	Chingola	60.00	granite	36.00	55.00	19.00	36.00	15.00	8.50	1.05	1.05	1.91	57.00	150	0.00	12.20	12.20	39.62	39.62
3850	1421-6	Chingola	65.00	schist	51.00	57.00	6.00	51.00	19.80	11.50	0.83	0.83	1.48	60.00	150	0.00	17.00	17.00	32.30	32.30
3851	2047	Chipeta	45.00	granite	9.00	10.00	0.10	10.00	9.90	7.50	2.63	2.63	13.40	44.75	146	0.00	13.80	13.80	45.00	45.00
3852	2048	Luanabya	56.00	sand	11.00	15.00	4.00	15.00	11.00	10.45	1.50	1.50	5.42	53.50	152	0.00	9.50	9.50	42.80	42.80
3853	2049	Chipeta	41.50	granite	1.90	4.00	2.10	4.00	1.90	1.90	4.50	4.50	20.50	39.43	168	0.00	3.90	3.90	41.50	41.50
3854	2026	Chipeta	41.50	sand	15.00	18.00	3.00	18.00	15.00	14.75	2.07	2.07	11.90	38.88	168	0.00	10.00	10.00	29.34	29.34
3855	2027	Chipeta	29.30	granite	13.00	21.09	8.09	21.00	13.00	0.50	0.23	0.23	0.76	28.60	152	0.00	5.20	5.20	26.77	26.77
3856	1990	Chipeta	35.55	granite	3.90	26.60	22.70	8.00	3.50	1.10	1.56	1.56	10.10	27.30	255	0.00	7.00	7.00	27.10	27.10
3857	2079	Chipeta	29.55	granite	4.00	12.00	8.00	12.00	4.00	2.20	0.90	0.90	4.57	27.30	219	0.00	4.00	4.00	20.00	20.00
3858	2076	Chipeta	25.53	granite	6.00	23.00	17.00	0.00	6.00	3.50	3.21	3.21	34.80	7.97	219	0.00	4.00	4.00	20.00	20.00
3859	2075	Chipeta	41.10	granite	55.00	30.60	25.10	0.00	5.50	2.30	2.19	2.19	13.00	38.00	219	0.00	6.60	6.60	30.60	30.60
3860	2074	Chipeta	40.00	granite	6.00	8.00	2.00	6.00	6.00	6.00	2.18	2.18	29.00	37.60	219	0.00	5.00	5.00	25.00	25.00
3861	2050	Chipeta	43.50	granite	9.50	10.00	0.50	10.00	9.50	6.60	3.00	3.00	14.70	39.52	168	0.00	0.00	0.00	24.52	24.52
3862	2022	Chipeta	43.50	granite	15.50	25.35	9.85	25.35	15.50	12.25	1.25	1.25	8.24	39.00	168	0.00	14.15	14.15	41.00	41.00
3863	1996	Chipeta	26.60	granite	3.90	26.60	22.70	8.00	3.90	0.95	7.39	7.39	24.72	24.72	152	0.00	1.00	1.00	26.25	26.25
3864	1993	Chipeta	36.00	schist	11.00	25.00	14.00	25.00	11.00	7.60	1.60	1.60	13.80	32.50	168	0.00	0.80	0.80	9.15	9.15
3865	1932	Chipeta	18.00	granite	7.00	15.00	8.00	15.00	7.00	2.45	1.75	1.75	21.40	0.00	168	0.00	5.40	5.40	17.40	17.40
3866	2007	Chipeta	51.17	granite	30.60	51.17	20.57	0.00	30.60	26.00	0.34	0.34	1.36	0.00	168	0.00	12.40	12.40	45.00	45.00
3867	1880	Chipeta	46.50	gneiss	10.00	43.00	33.00	10.00	10.00	0.90	1.27	1.27	8.99	44.19	156	0.00	13.00	13.00	26.50	26.50
3868	1754	Chipeta	30.60	granite	4.50	24.00	19.50	4.50	4.50	2.50	3.30	3.30	31.00	30.40	156	0.00	10.30	10.30	30.60	30.60
3869	1789	Chipeta	44.00	granite	19.00	42.00	23.00	19.00	19.00	11.40	3.00	3.00	83.60	43.50	156	0.00	0.28	0.28	39.00	39.00
3870	1747	Chipeta	50.00	gneiss	30.50	40.00	9.50	0.00	0.00	0.00	2.25	4.76	4.76	48.30	0	0.00	0.00	0.00	30.50	30.50
3871	1878	Chipeta	38.00	granite	22.00	28.00	6.00	22.00	16.00	12.78	1.55	1.55	8.47	37.00	156	0.00	14.51	14.51	25.60	25.60
3872	1842	Chipeta	28.00	igneous roc	22.00	27.20	4.80	22.00	17.00	7.10	0.40	0.40	1.83	26.50	156	0.00	5.00	5.00	17.50	17.50
3873	1882	Chipeta	36.00	granite	20.00	28.00	8.00	20.00	20.00	16.40	1.83	1.83	21.10	33.50	156	0.00	13.10	13.10	26.30	26.30
3874	1825	Chipeta	38.00	granite	12.00	30.00	18.00	12.00	12.00	2.50	0.80	0.80	2.82	38.00	156	0.00	12.50	12.50	29.50	29.50
3875	1855	Chipeta	48.10	granite	23.00	36.00	13.00	23.00	30.00	23.50	0.76	0.76	4.66	47.00	156	0.00	20.10	20.10	37.50	37.50
3876	1843	Chipeta	25.55	igneous roc	3.00	22.00	19.00	3.00	3.00	4.00	0.95	0.95	4.10	24.50	156	0.00	5.50	5.50	25.00	25.00
3877	1791	Chipeta	36.60	granite	16.00	32.00	16.00	16.32	16.00	9.53	3.10	3.10	54.70	37.70	156	0.00	22.00	22.00	33.00	33.00
3878	1544	Chipeta	50.00	granite	15.47	40.50	24.03	40.50	15.47	14.00	0.15	0.15	0.42	0.00	156	0.00	0.00	0.00	33.00	33.00
3879	1588	Chipeta	18.10	gneiss	9.00	18.00	9.00	9.00	9.00	2.40	0.47	0.47	2.78	17.00	156	0.00	5.00	5.00	3.50	3.50
3880	1710	Chipeta	40.00	sand&grave	24.00	32.00	8.00	24.32	24.00	11.30	1.30	1.30	6.73	28.00	158	0.00	25.10	25.10	37.30	37.30
3881	1706	Chipeta	35.40	gneiss	9.00	35.40	25.50	9.00	9.00	8.70	0.66	0.66	2.19	34.70	156	0.00	15.50	15.50	31.00	31.00
3882	1705	Chipeta	34.40	granite	18.00	34.00	16.00	18.00	9.00	6.45	2.40	2.40	7.34	34.70	156	0.00	11.01	11.01	22.05	22.05
3883	1738	Chipeta	31.00	sand&grave	13.00	21.00	10.00	13.00	13.00	10.75	2.25	2.25	77.10	27.00	156	0.00	0.00	0.00	23.55	23.55
3884	1737	Chipeta	32.00	sand	12.00	23.00	10.00	12.80	12.00	10.50	2.10	2.10	0.00	26.00	156	0.00	13.50	13.50	28.07	28.07
3885	1736	Chipeta	45.00	sand&grave	15.00	25.00	10.00	15.00	10.20	10.20	2.25	2.25	48.60	23.00	156	0.00	12.77	12.77	24.17	24.17
3886	1450	Chipeta	51.00	gneiss	8.50	51.00	42.50	51.00	8.50	4.37	3.10	3.10	18.20	45.10	255	0.00	10.50	10.50	24.00	24.00
3887	1487	Chipeta	21.40	gneiss	9.00	18.00	9.00	9.00	9.00	8.75	0.26	0.26	2.19	0.00	153	0.00	9.20	9.20	14.60	14.60
3888	1478	Chipeta	45.00	granite	15.50	36.20	20.00	36.20	15.50	8.70	0.60	0.60	1.80	37.50	205	0.00	6.05	6.05	23.80	23.80

Input No	Borehole No	District	Total Depth (m)	Lithology	Thickness of main Aquifer			Main Supply (G.L.-m)	Groundwater Depth		Yield (l/s)	Specific Capacity (m ² /day)	Depth of Pump Intake (G.L.-m)	Diameter (mm)		Plan Casing		Perforated Casing		Depth of Bottom of Casing (G.L.-m)
					From (G.L.-m)	to (G.L.-m)	Total Thickness (m)		First Struck (G.L.-m)	Static (G.L.-m)						From (G.L.-m)	to (G.L.-m)	From (G.L.-m)	to (G.L.-m)	
3889	1471	Chipaua	32.00	gneiss	14.40	30.00	15.60	30.00	14.40	7.50	0.60	2.66	27.00	156	156	0.00	12.80	12.80	18.40	18.40
3890	1470	Chipaua	34.60		8.20	33.70	25.50	18.00	8.20	1.50	0.70	1.96	32.40	156	156	0.00	5.98	5.98	17.35	17.35
3891	1488	Chipaua	33.00	gneiss	19.40	32.60	13.20	32.60	19.40	14.60	0.41	2.04	37.00	156	156	0.00	20.90	20.90	32.60	32.60
3892	1452	Chipaua	38.00	granite	19.50	34.50	15.00	34.50	19.50	15.50	1.03	1.44	37.00	205	205	0.00	18.40	18.40	24.40	24.40
3893	1438	Chipaua	34.00	granite	10.20	34.00	23.80	24.00	10.20	3.00	0.50	1.66	29.00	205	205	0.00	6.00	6.00	0.00	0.00
3894	1293	Chipaua	44.00	granite	22.00	32.00	10.00	32.00	22.00	10.60	1.94	10.40	42.40	156	156	0.00	34.50	34.50	43.70	43.70
3895	1286	Chipaua	43.00	granite	16.20	42.85	26.65	42.85	16.20	2.60	2.10	8.89	37.55	205	205	0.00	8.45	8.45	14.35	14.35
3896	1289	Chipaua	37.00	sand	8.20	24.00	15.80	11.20	8.20	6.60	1.75	25.60	33.00	156	156	0.00	27.50	27.50	37.00	37.00
3897	1331	Chipaua	46.30	granite	7.20	46.00	38.80	46.00	7.20	4.55	0.50	1.10	43.80	205	205	0.00	12.80	12.80	0.00	0.00
3898	1292	Chipaua	53.00	granite	19.20	52.00	32.80	52.00	19.20	15.20	3.50	19.40	0.00	156	156	0.00	14.50	14.50	36.00	36.00
3899	1288	Chipaua	34.50	sand	20.00	30.00	10.00	24.50	20.00	11.50	2.70	17.90	27.50	156	156	0.00	11.50	11.50	17.00	17.00
3900	2830	Chipaua	24.00	granite	2.00	14.00	12.00	14.00	2.00	4.50	1.00	8.64	23.00	150	150	0.00	4.00	4.00	24.00	24.00
3901	2769	Chipaua	24.40	granite	3.20	24.00	20.80	17.00	9.00	3.70	1.00	7.02	23.00	150	150	0.00	6.10	6.10	24.40	24.40
3902	2833	Chipaua	32.00	granite	12.00	24.00	12.00	20.24	12.00	8.50	1.00	5.27	29.60	150	150	0.00	5.50	5.50	31.42	31.42
3903	2952	Chipaua	31.00	granite	4.00	31.00	27.00	27.90	4.00	4.00	0.01	0.02	30.00	150	150	0.00	3.60	3.60	27.90	27.90
3904	2719	Chipaua	40.00	granite	14.00	40.00	26.00	18.00	14.00	10.00	3.00	51.80	37.00	150	150	0.00	13.00	13.00	40.00	40.00
3905	8283	Chipaua	31.00	granite	9.00	31.00	22.00	9.00	9.00	3.40	2.30	15.80	29.00	150	150	0.00	4.00	4.00	31.00	31.00
3906	2740	Chipaua	31.00	granite	9.00	10.00	1.00	9.00	9.00	3.40	2.30	15.80	29.00	150	150	0.00	4.00	4.00	31.00	31.00
3907	2762	Chipaua	40.00	granite	20.50	40.00	19.50	30.40	20.50	14.30	1.40	7.44	36.30	168	168	0.00	18.00	18.00	33.20	33.20
3908	2326	Chipaua	44.40	granite	8.00	37.00	29.00	37.00	8.00	7.60	0.50	1.21	43.00	168	168	0.00	9.00	9.00	44.40	44.40
3909	2734	Chipaua	27.50	granite	10.55	27.00	16.55	11.00	10.50	7.20	0.50	2.70	25.50	219	219	0.00	11.10	11.10	25.90	25.90
3910	2733	Chipaua	24.45	granite	4.00	24.50	20.50	9.00	4.00	2.60	2.00	34.60	23.30	168	168	0.00	6.00	6.00	21.50	21.50
3911	CPT 10	Chipaua	44.00	granite	4.00	17.00	13.00	4.50	4.00	1.80	1.00	28.80	16.00	168	168	0.00	3.00	3.00	17.00	17.00
3912	2741	Chipaua	44.00	granite	4.00	17.00	13.00	4.50	4.00	1.80	1.00	28.80	16.00	168	168	0.00	3.00	3.00	17.00	17.00
3913	CPT 11	Chipaua	45.00	granite	9.00	25.00	16.00	25.00	9.00	8.60	2.20	11.20	42.00	168	168	0.00	6.00	6.00	43.00	43.00
3914	CPT 12	Chipaua	44.00	granite	12.00	21.00	9.00	21.00	12.00	7.30	2.63	19.80	26.85	168	168	0.00	22.35	22.35	44.00	44.00
3915	2308	Chipaua	30.60	granite	7.00	22.00	15.00	15.00	7.00	5.70	1.40	7.91	39.00	273	273	0.00	10.00	10.00	28.30	28.30
3916	2307	Chipaua	42.00	granite	12.00	17.00	5.00	17.00	12.00	1.00	0.50	1.34	39.00	273	273	0.00	5.00	5.00	29.00	29.00
3917	2262	Chipaua	41.00	granite	8.50	41.00	32.50	15.00	8.50	6.50	1.70	6.56	38.00	219	219	0.00	6.00	6.00	34.70	34.70
3918	2211	Chipaua	35.50	sand&grave	6.50	14.00	7.50	14.00	6.50	6.50	2.00	21.50	34.50	196	196	0.00	10.00	10.00	33.00	33.00
3919	2310	Chipaua	47.00	granite	5.00	26.00	21.00	26.00	5.00	1.10	2.38	8.50	41.00	168	168	0.00	6.00	6.00	35.00	35.00
3920	2246	Chipaua	23.00	granite	1.00	15.00	14.00	15.00	1.00	1.00	2.60	14.20	27.00	219	219	0.00	3.80	3.80	27.80	27.80
3921	2309	Chipaua	25.00	granite	10.00	13.00	3.00	10.00	10.00	7.30	1.00	8.07	24.00	168	168	0.00	5.00	5.00	28.00	28.00
3922	2208	Chipaua	32.00	sand&grave	6.50	14.00	7.50	14.00	6.50	6.50	1.60	13.30	28.50	168	168	0.00	8.30	8.30	22.90	22.90
3923	2211	Chipaua	41.00	granite	12.00	18.00	6.00	18.00	12.00	9.00	1.72	10.40	36.50	168	168	0.00	0.00	0.00	20.00	20.00
3924	2183	Chipaua	29.40	sand&grave	12.00	16.00	4.00	16.00	12.00	4.00	1.50	15.70	17.40	168	168	0.00	3.00	3.00	22.00	22.00
3925	2161	Chipaua	32.50	granite	8.00	15.00	7.00	15.00	8.00	4.40	2.80	28.10	30.00	168	168	0.00	4.00	4.00	16.00	16.00
3926	2160	Chipaua	30.00	granite	12.00	18.00	6.00	18.00	12.00	11.10	0.25	1.73	25.00	150	150	0.00	8.00	8.00	21.00	21.00
3927	2139	Chipaua	34.40	granite	9.00	16.00	7.00	12.00	9.00	6.75	1.11	5.56	30.00	195	195	0.00	4.00	4.00	20.00	20.00
3928	2140	Chipaua	40.25	gneiss	4.50	8.00	3.50	8.00	4.50	16.90	3.00	38.70	37.92	219	219	0.00	21.03	21.03	48.31	48.31
3929	2142	Chipaua	52.50	granite	14.00	17.00	3.00	17.00	14.00	10.90	4.60	28.60	50.50	168	168	0.00	15.00	15.00	49.06	49.06
3930	2111	Chipaua	35.00	granite	14.50	16.00	1.50	16.00	14.50	12.70	2.70	16.30	50.00	168	168	0.00	21.30	21.30	48.31	48.31
3931	2113	Chipaua	52.50	granite	14.00	17.00	3.00	17.00	14.00	10.90	4.60	28.60	50.50	168	168	0.00	12.00	12.00	24.00	24.00
3932	2602	Chipaua	24.00	sand	5.00	12.00	7.00	12.00	5.00	2.90	2.60	20.00	20.80	219	219	0.00	0.00	0.00	34.00	34.00
3933	2143	Chipaua	34.00	sand&grave	3.00	20.00	17.00	20.00	3.00	0.00	2.10	0.00	29.20	168	168	0.00	11.90	11.90	34.00	34.00
3934	CPT 1	Chipaua	46.00	gneiss	18.00	21.00	3.00	18.00	18.00	7.50	1.80	7.41	43.00	150	150	0.00	6.00	6.00	38.50	38.50
3935	1881-A	Chipaua	60.00	limestone	6.00	23.00	17.00	23.00	6.00	3.20	0.48	1.12	56.00	150	150	0.00	3.00	3.00	18.00	18.00
3936	1933-A	Chipaua	50.00	limestone	30.00	33.00	3.00	30.00	30.00	19.00	12.60	0.00	45.00	150	150	0.00	20.00	20.00	32.00	32.00
3937	1932-A	Chipaua	64.00	limestone	33.00	35.00	2.00	33.00	33.00	21.00	1.30	0.00	59.00	150	150	0.00	18.00	18.00	36.00	36.00
3938	1927-C	Chipaua	46.00	dolomite	19.00	21.00	2.00	19.00	19.00	12.00	1.00	0.00	41.00	150	150	0.00	12.00	12.00	39.00	39.00
3939	CPT 2	Chipaua	29.00	schist	14.00	18.00	4.00	14.00	8.00	8.00	2.27	19.60	27.50	150	150	0.00	5.00	5.00	29.00	29.00
3940	3097	Chipaua	34.00	sand	17.00	20.00	3.00	17.00	17.00	6.50	0.65	2.20	0.00	150	150	0.00	6.60	6.60	33.00	33.00
3941	3134	Chipaua	35.00	granite	17.00	19.00	2.00	17.00	17.00	10.00	8.60	15.20	34.60	150	150	0.00	4.00	4.00	35.00	35.00
3942	3132	Chipaua	58.00	gneiss	27.00	28.00	1.00	27.00	27.00	24.00	0.62	6.34	47.50	150	150	0.00	4.00	4.00	45.00	45.00

Input No	Borehole No	District	Total Depth (m)	Lithology	Thickness of main Aquifer		Main Supply (G.L.-m)	Groundwater Depth		Yield (l/s)	Specific Capacity (m ² /day)	Depth of Pump Intake (G.L.-m)	Diameter (mm)	Plain Casing		Perforated Casing		Depth of Bottom of Casing (G.L.-m)
					From (G.L.-m)	to (G.L.-m)		First Struck (G.L.-m)	Static (G.L.-m)					From (G.L.-m)	to (G.L.-m)	From (G.L.-m)	to (G.L.-m)	
3943	1790-C	Chipata	36.00	schist	9.00	24.00	23.00	9.00	6.40	2.80	15.90	35.45	150	0.00	0.00	0.00	0.00	16.50
3944	3349-1	Chipata	45.70	sand	30.50	41.20	30.50	12.20	5.50	4.10	14.50	30.00	150	0.00	0.00	3.00	3.00	36.60
3945	3350-1	Chipata	45.70	sand	9.10	27.40	21.30	9.10	6.40	2.60	6.60	40.00	150	0.00	0.00	9.10	9.10	45.70
3946	3053	Chipata	30.00	sand	6.00	8.00	8.00	6.00	4.42	3.50	62.00	29.00	168	0.00	0.00	0.00	0.00	29.44
3947	3021	Chipata	30.00	sand	5.00	17.00	11.65	5.35	5.35	1.70	23.10	27.00	219	0.00	0.00	8.00	8.00	28.50
3948	3052	Chipata	34.00	sand	6.00	18.00	18.00	6.00	4.40	2.00	32.00	32.60	168	0.00	0.00	34.00	34.00	34.00
3949	3051	Chipata	36.30	sand	17.00	19.30	19.30	17.00	12.30	0.70	8.51	32.50	168	0.00	0.00	9.30	9.30	34.10
3950	2949	Chipata	28.20	granite	8.50	26.75	0.00	8.50	4.70	0.90	3.53	27.90	168	0.00	0.00	4.50	4.50	28.20
3951	2950	Chipata	34.75	schist	19.50	24.00	19.50	19.50	15.30	1.10	20.20	31.60	168	0.00	0.00	16.15	16.15	34.75
3952	2953	Chipata	23.00	sand	8.00	10.00	10.00	8.00	5.00	0.30	1.92	20.00	168	0.00	0.00	6.00	6.00	23.00
3953	2972	Chipata	24.00	sand	6.00	10.00	10.00	6.00	5.57	0.60	8.19	15.67	168	0.00	0.00	6.00	6.00	19.28
3954	28 32	Chipata	24.00	granite	5.40	24.00	18.60	5.40	5.40	1.00	6.57	23.00	168	0.00	0.00	5.00	5.00	24.00
3955	1542	Chipata	55.20	granite	19.00	50.00	28.00	19.00	5.40	2.10	6.57	52.00	205	0.00	0.00	54.00	54.00	54.00
3956	2162	Chuma	60.00	sand	31.00	60.00	32.35	31.00	21.50	0.80	4.19	54.00	168	0.00	0.00	3.00	3.00	51.00
3957	1934	Chuma	50.00	sand	25.00	50.00	36.00	25.00	19.00	2.00	7.96	48.50	168	0.00	0.00	11.40	11.40	50.00
3958	1957	Chuma	50.50	sandstone	29.00	40.00	33.00	29.00	27.50	0.80	3.64	48.50	168	0.00	0.00	25.00	25.00	50.00
3959	1964	Chuma	50.00	sand	8.00	50.00	25.00	7.00	5.50	3.30	14.60	42.50	168	0.00	0.00	19.00	19.00	48.00
3960	1962	Chuma	54.00	sand	8.00	25.00	25.00	8.00	3.40	0.80	1.60	47.30	168	0.00	0.00	15.00	15.00	54.00
3961	1720	Chuma	60.00	sand&grave	31.00	60.00	31.00	31.00	3.00	2.00	59.60	55.40	156	0.00	0.00	22.50	22.50	49.20
3962	1528	Chuma	31.00	sand&grave	12.00	26.00	12.00	12.00	8.00	0.50	2.34	26.50	156	0.00	0.00	31.00	31.00	31.00
3963	1482	Chuma	41.00	sand&grave	23.85	38.00	13.85	13.85	11.50	0.20	0.87	31.45	156	0.00	0.00	37.70	37.70	37.70
3964	1317	Chuma	32.50	sand	10.00	31.50	10.22	6.20	5.95	0.90	13.10	30.00	255	0.00	0.00	5.00	5.00	32.50
3965	1314	Chuma	37.00	sand	17.20	35.40	18.20	5.80	5.75	1.20	76.80	25.20	156	0.00	0.00	9.30	9.30	37.00
3966	1266	Chuma	43.00	sand&grave	13.10	34.00	20.90	10.00	3.88	2.10	0.00	32.00	156	0.00	0.00	5.35	5.35	43.00
3967	1268	Chuma	38.80	sand	15.00	37.80	22.80	15.00	4.40	1.05	11.60	25.50	156	0.00	0.00	35.80	35.80	35.80
3968	1269	Chuma	40.50	sand&grave	10.00	36.00	15.00	10.00	3.70	0.80	0.00	24.00	156	0.00	0.00	39.00	39.00	39.00
3969	1270	Chuma	46.00	sand&grave	10.50	31.00	10.50	4.15	4.15	1.60	154.00	36.00	156	0.00	0.00	46.00	46.00	46.00
3970	1303	Chuma	31.00	sand&grave	10.50	31.00	20.50	10.50	7.40	1.05	5.47	24.00	255	0.00	0.00	31.00	31.00	31.00
3971	1271	Chuma	35.00	sand&grave	10.60	33.00	10.00	6.00	3.50	1.30	25.00	24.00	156	0.00	0.00	35.00	35.00	35.00
3972	1302	Chuma	34.00	sand&grave	12.50	19.50	12.50	9.50	9.00	2.60	89.90	27.50	156	0.00	0.00	11.50	11.50	29.00
3973	1304	Chuma	32.50	sand	5.20	30.00	24.00	4.25	2.50	2.50	105.00	30.00	156	0.00	0.00	32.35	32.35	32.35
3974	1305	Chuma	36.00	sand	24.60	31.20	31.20	24.60	7.05	1.00	10.30	31.50	156	0.00	0.00	21.08	21.08	36.00
3975	1267	Chuma	45.00	sand	9.00	31.00	22.00	6.10	5.25	1.40	62.00	36.70	156	0.00	0.00	5.30	5.30	38.92
3976	1315	Chuma	31.00	Mudstone	9.00	30.00	21.00	9.00	6.65	0.50	2.21	26.20	156	0.00	0.00	31.00	31.00	31.00
3977	1301	Chuma	35.00	sand&grave	20.00	25.00	20.00	10.00	3.80	2.20	93.20	24.00	137	0.00	0.00	27.60	27.60	27.60
3978	1880-A	Petauke	50.00	limestone	12.00	31.00	31.00	12.00	6.20	0.56	1.55	44.00	150	0.00	0.00	12.00	12.00	15.00
3979	1814-8	Petauke	51.00	granite	37.00	40.00	37.00	18.00	31.50	0.80	0.00	47.40	150	0.00	0.00	18.00	18.00	24.00
3980	1814-7	Petauke	50.40	granite	44.00	46.00	44.00	44.00	6.00	1.40	8.64	20.00	150	0.00	0.00	9.00	9.00	12.00
3981	1814-3	Petauke	50.50	granite	17.20	31.50	31.50	17.20	8.50	1.10	4.46	40.90	150	0.00	0.00	15.00	15.00	18.00
3982	1814-5	Petauke	50.00	granite	28.00	30.00	28.00	14.00	8.00	0.50	7.98	45.00	150	0.00	0.00	12.00	12.00	15.00
3983	1814-4	Petauke	49.00	granite	32.00	42.00	32.00	16.00	2.90	4.00	20.10	47.00	150	0.00	0.00	15.00	15.00	18.00
3984	1814-2	Petauke	51.00	granite	32.00	42.00	32.00	17.00	6.50	2.00	9.87	49.00	150	0.00	0.00	18.00	18.00	21.00
3985	1791	Petauke	55.00	granite	6.00	40.00	40.00	6.00	5.00	0.20	0.99	54.30	150	0.00	0.00	6.00	6.00	15.00
3986	2937	Petauke	45.00	quartzite	40.50	45.00	40.50	6.00	2.26	1.00	2.19	44.20	152	0.00	0.00	21.00	21.00	16.50
3987	3003	Petauke	50.00	limestone	22.00	42.00	22.00	19.00	16.20	0.60	2.38	45.00	168	0.00	0.00	7.80	7.80	50.00
3988	2640	Petauke	39.00	quartzite	15.00	34.00	34.00	15.00	9.50	1.27	5.84	37.00	168	0.00	0.00	13.60	13.60	39.00
3989	2249	Petauke	21.00	granite	9.00	11.00	9.11	9.00	3.80	2.00	12.20	19.00	0	0.00	0.00	0.00	0.00	0.00
3990	2252	Petauke	31.00	granite	23.00	31.00	23.00	23.00	12.00	0.02	0.09	31.00	0	0.00	0.00	0.00	0.00	0.00
3991	2253	Petauke	29.00	granite	12.00	14.00	1.00	13.00	5.50	0.19	0.71	29.00	0	0.00	0.00	0.00	0.00	0.00
3992	1991	Petauke	48.80	gneiss	21.00	25.00	4.00	2.00	10.80	0.71	1.79	11.45	168	0.00	0.00	6.00	6.00	14.50
3993	1903	Petauke	69.00	granite	10.00	32.00	22.00	0.00	3.00	0.01	0.03	50.00	0	0.00	0.00	0.00	0.00	0.00
3994	1859	Petauke	41.00	granite	7.60	30.00	22.40	7.60	5.10	0.36	0.95	37.90	0	0.00	0.00	0.00	0.00	0.00
3995	1857	Petauke	35.00	granite	14.00	28.00	14.00	14.00	12.60	0.18	0.74	33.70	156	0.00	0.00	13.60	13.60	22.00
3996	1778	Petauke	70.00	sand&grave	16.00	70.00	16.00	16.00	9.70	3.70	581.00	59.40	205	0.00	0.00	34.60	34.60	54.00

Input No.	Borehole No.	District	Total Depth (m)	Lithology	Thickness of main Aquifer			Main Supply (G.L.-m)	Groundwater Depth		Specific Capacity (m ² /day)	Depth of Pump Intake (G.L.-m)	Diameter (mm)	Plain Casing		Perforated Casing		Depth of Bottom of Casing (G.L.-m)
					From (G.L.-m)	to (G.L.-m)	Total Thickness (m)		First Struck (G.L.-m)	Static (G.L.-m)				From (G.L.-m)	to (G.L.-m)	From (G.L.-m)	to (G.L.-m)	
3997	1787	Pennate	70.00	gneiss	19.00	30.00	11.00	19.00	19.00	8.30	3.40	33.00	156	0.00	11.00	11.00	37.40	37.40
3998	1793	Pennate	81.00	granite	7.00	81.00	74.00	7.00	7.00	4.50	0.77	1.17	156	0.00	11.40	11.40	33.50	33.50
3999	1794	Pennate	41.00	granite	8.00	18.00	10.00	18.00	8.00	3.40	3.70	37.50	156	0.00	5.25	5.25	13.75	13.75
4000	1517	Pennate	43.00	granite	5.00	43.00	38.00	43.00	5.00	2.00	0.50	42.00	156	0.00	5.60	5.60	5.60	5.60
4001	1518	Pennate	50.40	granite	36.00	42.00	6.00	36.00	9.20	5.80	0.40	42.00	203	0.00	16.00	16.00	16.00	16.00
4002	1523	Pennate	45.50	granite	6.50	42.00	35.50	42.00	6.50	3.08	2.10	11.20	156	0.00	10.35	10.35	36.30	36.30
4003	1455	Pennate	40.00	granite	24.50	40.00	15.50	40.00	24.50	24.70	1.10	38.00	156	0.00	22.80	22.80	33.00	33.00
4004	1476	Pennate	65.30	gneiss	10.30	65.00	54.70	10.30	10.30	13.30	0.20	64.00	203	0.00	11.00	11.00	11.00	11.00
4005	1457	Pennate	18.00	granite	3.20	16.00	12.80	16.00	3.20	3.20	3.00	86.40	137	0.00	8.50	8.50	18.75	18.75
4006	1465	Pennate	48.00	gravel	12.00	46.00	34.00	12.00	12.00	6.10	3.10	12.20	156	0.00	12.95	12.95	46.25	46.25
4007	1466	Pennate	54.00	gravel	4.80	50.00	39.00	11.00	11.00	7.50	1.80	51.90	156	0.00	16.70	16.70	49.60	49.60
4008	1490	Pennate	39.00	granite	13.00	36.00	23.00	31.20	4.80	2.75	0.50	38.40	156	0.00	5.00	5.00	16.90	16.90
4009	1480	Pennate	45.00	gneiss	13.90	45.00	29.10	15.90	15.90	11.30	0.70	43.80	156	0.00	18.60	18.60	33.30	33.30
4010	1477	Pennate	31.20	granite	8.00	30.00	22.00	8.00	8.00	3.08	0.93	31.00	156	0.00	5.70	5.70	17.00	17.00
4011	1456	Pennate	26.70	granite	14.20	21.00	6.80	14.20	14.20	11.45	0.11	0.60	205	0.00	11.00	11.00	11.00	11.00
4012	1481	Pennate	45.00	gneiss	13.00	23.00	10.00	13.00	13.00	13.00	3.50	60.50	219	0.00	11.00	11.00	22.70	22.70
4013	1479	Pennate	60.00	granite	14.80	60.00	45.00	14.80	4.50	2.10	1.60	36.50	205	0.00	12.93	12.93	30.00	30.00
4014	1475	Pennate	79.00	granite	12.00	79.00	67.00	12.00	4.50	11.20	0.20	0.27	156	0.00	47.60	47.60	61.50	61.50
4015	2444	Pennate	33.00	granite	9.00	25.00	16.00	24.00	24.00	6.00	0.90	30.00	150	0.00	18.00	18.00	30.00	30.00
4016	2	Pennate	30.00	granite	9.00	25.00	16.00	25.00	9.00	7.00	2.80	26.55	168	0.00	5.00	5.00	30.00	30.00
4017	1524	Pennate	30.80	gneiss	19.00	29.00	10.00	19.00	16.00	7.00	0.25	1.00	205	0.00	10.40	10.40	10.40	10.40
4018	2028	Pennate	43.00	granite	12.00	17.00	5.00	17.00	15.00	6.50	4.28	56.90	168	0.00	12.80	12.80	24.50	24.50
4019	2052	Pennate	26.10	granite	15.00	16.00	1.00	15.00	15.00	12.50	0.50	3.76	168	0.00	18.00	18.00	50.00	50.00
4020	2062	Pennate	50.00	clay	30.00	35.00	5.00	30.00	12.00	9.50	0.70	49.50	150	0.00	1.00	1.00	32.00	32.00
4021	3149	Pennate	50.00	sand	8.00	11.00	3.00	8.00	8.00	4.70	2.00	9.99	150	0.00	2.00	2.00	2.00	2.00
4022	3123	Pennate	45.00	clay	20.00	22.00	2.00	20.00	7.00	6.80	0.33	41.00	205	0.00	2.00	2.00	2.00	2.00
4023	3048	Pennate	43.00	clay	30.00	35.00	5.00	30.00	5.00	2.80	0.85	42.00	168	0.00	3.00	3.00	45.00	45.00
4024	3047	Pennate	43.00	schist	37.00	43.00	6.00	37.00	37.00	3.20	1.57	37.00	146	0.00	0.00	0.00	10.42	10.42
4025	3002	Pennate	28.60	granite	5.00	8.00	3.00	5.00	5.00	3.00	0.62	28.20	168	0.00	1.50	1.50	25.50	25.50
4026	2256	Pennate	33.00	granite	11.00	33.00	22.00	11.00	11.00	5.00	1.40	32.90	0	0.00	0.00	0.00	0.00	0.00
4027	2244	Pennate	44.00	clay	26.00	35.00	9.00	35.00	26.00	19.00	0.92	5.20	168	0.00	15.20	15.20	30.25	30.25
4028	2159	Pennate	40.00	igneous roc	8.00	49.00	41.00	37.50	8.00	3.75	2.91	45.00	219	0.00	3.00	3.00	19.00	19.00
4029	2144	Pennate	43.50	Mudstone	12.00	18.00	6.00	12.00	5.00	4.30	2.40	41.70	168	0.00	8.80	8.80	21.00	21.00
4030	2114	Pennate	41.60	granite	13.00	41.60	28.60	0.00	13.00	10.10	0.74	0.00	210	0.00	0.00	0.00	0.00	0.00
4031	1956	Pennate	36.00	granite	6.00	36.00	30.00	4.50	6.00	0.00	4.30	33.70	168	0.00	1.75	1.75	27.40	27.40
4032	2031	Pennate	35.70	granite	5.00	35.70	32.70	0.00	5.00	5.00	0.41	1.28	145	0.00	0.00	0.00	28.00	28.00
4033	1953	Pennate	40.00	granite	10.50	40.00	29.50	0.00	10.50	10.50	0.30	0.95	219	0.00	29.00	29.00	29.00	29.00
4034	1862	Pennate	46.10	granite	2.00	28.00	26.00	28.00	2.00	1.90	0.38	42.00	156	0.00	5.50	5.50	21.25	21.25
4035	1902	Pennate	46.00	granite	20.00	46.00	26.00	20.00	4.60	4.10	8.70	1500.00	156	0.00	11.50	11.50	40.22	40.22
4036	1904	Pennate	41.00	granite	4.00	30.00	26.00	4.00	4.00	4.30	0.30	39.70	156	0.00	5.10	5.10	32.20	32.20
4037	1860	Pennate	30.70	gneiss	2.00	24.00	22.00	2.00	2.00	1.80	0.58	28.50	156	0.00	0.00	0.00	27.80	27.80
4038	1863	Pennate	40.10	granite	6.00	32.00	26.00	32.00	6.00	1.60	0.70	39.30	156	0.00	3.00	3.00	13.75	13.75
4039	1856	Pennate	44.00	granite	9.00	24.00	15.00	9.00	9.00	3.75	0.15	4.46	156	0.00	15.20	15.20	30.20	30.20
4040	1811	Pennate	63.00	granite	15.00	45.00	30.00	15.00	15.00	3.00	3.28	30.70	156	0.00	0.00	0.00	63.00	63.00
4041	1813	Pennate	57.00	granite	12.00	38.00	26.00	12.38	12.00	2.00	3.44	42.50	0	0.00	0.00	0.00	55.95	55.95
4042	1797	Pennate	52.00	gneiss	14.00	36.00	22.00	14.00	14.00	8.10	0.75	1.62	156	0.00	16.00	16.00	33.60	33.60
4043	1486	Pennate	36.00	granite	19.00	35.00	16.00	19.00	11.00	10.60	1.05	4.40	156	0.00	31.20	31.20	34.90	34.90
4044	1483	Pennate	35.00	gneiss	13.00	31.50	18.50	13.00	6.80	4.20	0.60	1.96	156	0.00	0.00	0.00	0.00	0.00
4045	1484	Pennate	44.00	gneiss	20.20	40.40	20.20	20.20	20.20	16.40	0.70	2.68	156	0.00	16.00	16.00	34.60	34.60
4046	1522	Pennate	31.70	gneiss	6.07	31.70	25.61	6.07	6.07	2.30	1.70	6.21	156	0.00	7.80	7.80	29.00	29.00
4047	1495	Pennate	43.00	granite	7.00	28.00	21.00	7.00	7.00	5.90	0.32	0.77	156	0.00	0.00	0.00	34.60	34.60
4048	1485	Pennate	36.00	granite	15.00	54.00	39.00	15.54	4.00	2.40	1.20	2.52	156	0.00	8.55	8.55	19.05	19.05
4049	1297	Pennate	38.00	granite	16.50	34.50	17.50	16.50	16.50	14.53	0.30	1.27	105	0.00	6.70	6.70	6.70	6.70
4050	1325	Pennate	48.00	granite	6.00	48.00	42.00	6.20	6.20	4.80	3.00	6.79	156	0.00	6.00	6.00	36.00	36.00

Input No	Borehole No	District	Total Depth (m)	Lithology	Thickness of main Aquifer		Main Supply (G.L.-m)	Groundwater Depth		Yield (l/s)	Specific Capacity (m ³ /day)	Depth of Pump Intake (G.L.-m)	Diameter (mm)	Plan Casing		Perforated Casing		Depth of Bottom of Casing (G.L.-m)	
					From (G.L.-m)	To (G.L.-m)		Total (m)	First Struck (G.L.-m)					Static (G.L.-m)	From (G.L.-m)	To (G.L.-m)	From (G.L.-m)		To (G.L.-m)
4051	1804	Chuliza	34.10	granite	6.00	34.00	28.00	6.00	1.00	1.35	4.23	32.50	156	0.00	16.10	16.10	16.10	34.10	
4052	1809	Chuliza	32.25	granite	5.00	27.00	18.00	5.00	3.50	1.34	4.86	30.90	156	0.00	10.80	10.80	23.50	23.50	
4053	1708	Chuliza	45.30	granite	16.00	36.00	20.00	16.00	4.00	0.24	0.52	44.00	156	0.00	21.10	21.10	36.00	36.00	
4054	1721	Chuliza	37.00	gneiss	18.50	28.60	10.10	18.50	16.30	0.22	0.98	35.80	207	0.00	7.00	7.00	7.00	7.00	
4055	1334	Chuliza	26.00	granite	4.10	22.00	17.90	4.10	3.30	0.50	2.59	22.00	156	0.00	0.00	0.00	0.00	18.30	
4056	1332	Chuliza	30.50	granite	10.50	30.00	19.50	10.50	3.65	0.00	3.55	28.00	156	0.00	0.00	0.00	17.40	17.40	
4057	1308	Chuliza	45.00	igneous roc	23.00	44.00	21.00	23.00	22.00	0.30	1.23	43.00	156	0.00	23.10	23.10	28.60	28.60	
4058	1307	Chuliza	17.10	granite	9.20	17.00	7.80	9.20	8.00	0.30	3.03	16.50	205	0.00	11.50	11.50	17.00	17.00	
4059	1294	Chuliza	43.00	granite	21.50	42.00	20.00	21.50	5.00	0.30	0.86	35.00	0	0.00	0.00	0.00	41.00	41.00	
4060	1329	Chuliza	40.00	granite	12.50	39.50	27.00	12.50	7.70	0.80	2.63	34.00	156	0.00	16.90	16.90	33.26	33.26	
4061	1327	Chuliza	23.00	granite	18.50	22.70	4.20	18.50	4.55	3.16	7.02	21.00	205	0.00	6.00	6.00	6.00	6.00	
4062	1306	Chuliza	38.00	granite	6.00	37.00	31.00	6.00	4.00	0.70	2.07	33.20	156	0.00	1.50	1.50	31.50	31.50	
4063	1326	Chuliza	26.00	granite	11.00	25.00	14.00	11.00	2.50	0.40	1.61	24.00	156	0.00	10.63	10.63	22.23	22.23	
4064	1309	Chuliza	35.00	granite	15.00	32.00	17.00	15.32	15.00	0.80	4.27	31.20	156	0.00	23.75	23.75	34.80	34.80	
4065	1311	Chuliza	37.50	granite	20.00	37.50	17.50	20.00	20.00	7.62	0.70	2.57	31.18	156	0.00	0.00	0.00	37.50	
4066	1272	Chuliza	56.40	granite	9.35	26.00	16.65	9.35	6.20	0.55	1.81	35.60	205	0.00	4.25	4.25	0.00	4.25	
4067	1276	Chuliza	24.70	granite	6.10	23.00	16.90	23.00	6.10	0.30	1.30	24.00	205	0.00	9.00	9.00	9.00	9.00	
4068	1274	Chuliza	28.00	granite	10.80	26.00	15.20	10.80	10.80	0.70	3.02	23.50	156	0.00	11.50	11.50	26.30	26.30	
4069	1275	Chuliza	30.50	granite	6.50	29.00	22.50	29.00	6.50	0.60	2.07	29.00	205	0.00	7.00	7.00	7.00	7.00	
4070	1273	Chuliza	33.60	granite	4.00	28.00	24.00	28.00	4.00	0.20	0.64	31.20	205	0.00	6.20	6.20	6.20	6.20	
4071	2263	Chuliza	31.00	sand	8.00	21.00	13.00	21.00	8.00	4.85	2.00	14.00	219	0.00	2.00	2.00	31.00	31.00	
4072	2210	Lundazi	56.70	granite	44.00	56.70	12.70	56.70	28.00	1.50	5.13	55.20	168	0.00	12.55	12.55	40.70	40.70	
4073	1989	Lundazi	41.50	granite	14.10	16.00	1.90	16.00	14.10	0.50	1.79	41.00	152	0.00	15.50	15.50	38.50	38.50	
4074	1992	Lundazi	43.60	granite	20.00	35.00	15.00	20.00	8.35	0.95	3.42	39.08	195	0.00	3.00	3.00	41.14	41.14	
4075	1981	Lundazi	52.10	schist	19.10	31.00	11.90	25.00	19.10	8.55	0.40	8.87	51.50	150	0.00	20.00	20.00	40.45	40.45
4076	2005	Lundazi	29.00	sandstone	10.00	20.50	10.55	20.50	10.00	0.30	1.52	27.50	168	0.00	2.00	2.00	5.00	5.00	
4077	1753	Lundazi	50.00	granite	20.00	42.00	22.00	42.00	20.00	15.80	2.10	20.60	156	0.00	23.40	23.40	38.40	38.40	
4078	1595	Lundazi	29.10	granite	4.00	21.50	17.50	21.50	0.25	4.20	125.00	28.50	156	0.00	14.00	14.00	25.50	25.50	
4079	1751	Lundazi	42.60	gneiss	17.00	37.00	20.00	17.00	0.00	12.85	1.36	4.23	40.60	0	0.00	0.00	31.50	31.50	
4080	1526	Lundazi	30.55	gneiss	16.60	30.00	13.40	30.00	16.60	0.11	0.49	0.00	156	0.00	14.80	14.80	26.00	26.00	
4081	1591	Lundazi	19.78	granite	1.20	9.00	7.80	9.00	1.20	0.10	0.49	18.86	156	0.00	7.72	7.72	13.00	13.00	
4082	1592	Lundazi	52.50	granite	14.85	19.50	3.65	19.50	14.85	0.15	0.33	47.80	156	0.00	16.40	16.40	32.83	32.83	
4083	1594	Lundazi	40.00	gneiss	22.00	38.00	16.00	38.00	22.00	8.15	0.72	1.98	39.50	156	0.00	18.45	18.45	30.00	30.00
4084	1559	Lundazi	42.00	gneiss	23.00	33.00	10.00	33.00	23.00	14.50	0.53	1.83	39.50	156	0.00	20.69	20.69	37.00	37.00
4085	1557	Lundazi	41.00	gneiss	23.00	28.00	5.00	28.00	11.40	0.47	1.40	38.70	156	0.00	20.30	20.30	33.00	33.00	
4086	1547	Lundazi	40.00	granite	9.00	27.00	18.00	9.00	1.45	0.40	0.93	38.70	156	0.00	11.10	11.10	27.35	27.35	
4087	1556	Lundazi	38.00	granite	21.00	37.00	16.00	21.00	2.40	0.30	0.74	37.50	156	0.00	9.36	9.36	19.60	19.60	
4088	1546	Lundazi	43.00	gneiss	20.00	37.00	17.00	20.00	10.55	0.20	0.58	40.20	156	0.00	0.00	0.00	36.10	36.10	
4089	1555	Lundazi	44.70	gneiss	18.00	39.00	21.00	39.00	6.30	0.50	1.15	44.00	205	0.00	13.16	13.16	19.50	19.50	
4090	1558	Lundazi	33.00	granite	15.00	30.00	15.00	15.00	7.70	0.55	1.93	32.50	205	0.00	0.00	0.00	30.00	30.00	
4091	1530	Lundazi	47.00	granite	18.00	35.00	17.00	18.00	14.00	0.30	0.68	45.50	156	0.00	18.40	18.40	35.00	35.00	
4092	1319	Lundazi	34.50	gneiss	8.00	33.80	25.80	33.80	8.00	0.60	1.74	32.20	156	0.00	10.00	10.00	27.50	27.50	
4093	1300	Lundazi	37.50	gneiss	2.35	37.50	14.15	37.50	2.35	0.33	1.21	25.20	205	0.00	5.70	5.70	17.35	17.35	
4094	1296	Lundazi	28.00	granite	10.00	25.50	15.50	25.50	10.00	0.40	0.70	26.00	205	0.00	11.35	11.35	16.80	16.80	
4095	1297	Lundazi	29.80	granite	8.70	26.80	18.10	26.80	8.70	0.40	0.70	26.00	205	0.00	11.10	11.10	16.80	16.80	
4096	MOJ-8	Monze	32.00	schist	6.00	30.00	24.00	30.00	6.00	0.18	0.88	28.50	100	0.00	20.00	20.00	32.00	32.00	
4097	MOJ-7	Monze	40.50	gneiss	18.00	40.00	22.00	40.00	18.00	0.60	3.74	28.50	100	0.00	28.00	28.00	40.00	40.00	
4098	MOJ111	Monze	48.00	gneiss	36.00	44.00	8.00	44.00	36.00	6.15	0.30	36.75	100	0.00	36.00	36.00	48.00	48.00	
4099	KJ1112	Kalomo	42.00	quartzite	26.00	35.00	9.00	35.00	26.00	10.89	0.53	25.75	150	0.00	31.00	31.00	43.00	43.00	
4100	KAJ119	Kalomo	60.50	gneiss	48.00	56.00	8.00	56.00	48.00	13.57	0.18	36.75	150	0.00	48.50	48.50	60.50	60.50	
4101	KAJ117	Kalomo	30.00	basalt	14.00	26.00	12.00	26.00	14.00	3.25	1.00	28.00	150	0.00	18.00	18.00	30.00	30.00	
4102	KJ11-6	Kalomo	43.00	schist	24.00	35.00	4.00	35.00	24.00	5.98	1.35	36.75	150	0.00	31.00	31.00	43.00	43.00	
4103	KJ11-4	Kalomo	42.00	schist	24.00	35.00	11.00	35.00	24.00	3.95	0.58	8.08	150	0.00	31.00	31.00	43.00	43.00	
4104	KJ11-3	Kalomo	40.50	quartzite	28.00	40.00	12.00	40.00	28.00	4.00	5.00	31.60	100	0.00	37.50	37.50	49.50	49.50	

Input No	Borehole No	District	Total Depth (m)	Lithology	Thickness of main Aquifer			Groundwater Depth			Specific Capacity (m ² /day)	Depth of Pump Intake (G.L.-m)	Plain Casing		Perforated Casing		Depth of Bottom of Casing (G.L.-m)
					From (G.L.-m)	to (G.L.-m)	Total Thickness (m)	Main Supply (G.L.-m)	First Struck (G.L.-m)	Static (G.L.-m)			From (G.L.-m)	to (G.L.-m)	From (G.L.-m)	to (G.L.-m)	
4105	MJ112	Kalomo	48.00	quartzite	30.00	48.00	18.00	48.00	30.00	24.21	0.15	31.25	0.00	28.00	25.00	23.00	48.00
4106	MJ114	Monze	37.00	schist	15.00	30.00	15.00	30.00	15.00	3.00	2.00	34.00	0.00	25.00	25.00	25.00	37.00
4107	MJ128	Monze	40.00	gneiss	10.00	20.00	10.00	20.00	10.00	2.43	0.50	1.64	0.00	28.00	25.00	25.00	40.00
4108	MJ127	Monze	37.00	quartzite	20.00	32.00	12.00	20.00	12.00	8.65	1.60	1380.00	0.00	25.00	25.00	25.00	37.00
4109	MJ125	Kalomo	37.00	gneiss	32.00	40.00	8.00	40.00	32.00	21.40	0.50	4.64	0.00	41.00	41.00	41.00	57.00
4110	MJ123	Monze	37.00	schist	20.00	32.00	12.00	20.00	15.00	5.60	0.58	6.96	0.00	25.00	25.00	25.00	37.00
4111	MJ121	Monze	43.00	schist	26.00	36.00	10.00	36.00	26.00	14.75	0.46	8.03	0.00	27.00	27.00	27.00	43.00
4112	MJ119	Monze	51.00	schist	32.00	50.00	18.00	50.00	32.00	7.86	0.18	1.38	0.00	35.00	35.00	35.00	51.00
4113	MJ112	Monze	60.00	schist	18.00	40.00	22.00	40.00	18.00	11.30	0.55	2.23	0.00	44.00	44.00	44.00	60.00
4114	MJ2	Monze	78.50	schist	42.00	57.00	15.00	57.00	42.00	5.00	0.00	2.23	0.00	38.00	38.00	38.00	58.00
4115	MJ10	Monze	42.00	schist	19.00	40.00	21.00	40.00	19.00	6.47	0.78	4.27	0.00	21.00	21.00	21.00	41.00
4116	MJ11	Monze	66.50	schist	42.00	50.00	8.00	50.00	42.00	12.10	0.30	3.28	0.00	39.00	39.00	39.00	59.00
4117	GJ-6	Gwenbe	70.00	shale	63.00	70.00	7.00	70.00	63.00	7.00	0.50	2.00	0.00	50.00	50.00	50.00	70.00
4118	GJ-8	Gwenbe	60.00	Mudstone	26.00	38.00	12.00	38.00	26.00	8.53	0.14	0.34	0.00	44.00	44.00	44.00	60.00
4119	GJ-9	Gwenbe	60.00	Mudstone	22.00	60.00	38.00	60.00	22.00	13.92	0.16	1.98	0.00	40.00	40.00	40.00	60.00
4120	MJ10	Gwenbe	78.50	siltstone	31.00	42.00	11.00	42.00	31.00	16.03	0.09	0.56	0.00	40.00	40.00	40.00	60.00
4121	MJ11	Mazabuka	40.00	gneiss	25.00	31.00	6.00	31.00	25.00	9.20	0.50	1.82	0.00	25.00	25.00	25.00	39.00
4122	MJ112	Mazabuka	38.00	schist	4.00	22.00	18.00	22.00	4.00	1.50	0.00	2.26	0.00	18.00	18.00	18.00	38.00
4123	MJ113	Mazabuka	33.50	gneiss	19.00	33.00	14.00	33.00	19.00	4.34	0.33	2.23	0.00	18.00	18.00	18.00	30.00
4124	MJ119	Monze	37.00	schist	28.00	36.00	8.00	36.00	28.00	6.55	0.90	9.44	0.00	25.00	25.00	25.00	37.00
4125	MJ1-9	Monze	52.50	gneiss	6.00	42.00	36.00	42.00	6.00	4.30	0.80	0.00	0.00	29.00	29.00	29.00	45.00
4126	MJ1-6	Monze	40.00	gneiss	4.00	40.00	36.00	40.00	4.00	3.62	0.72	3.36	0.00	24.00	24.00	24.00	40.00
4127	MJ1-5	Monze	36.00	schist	24.00	36.00	12.00	36.00	24.00	9.40	0.60	4.25	0.00	0.00	0.00	0.00	24.00
4128	MJ1-4	Monze	42.00	schist	26.40	40.00	13.60	40.00	26.40	9.95	0.72	5.27	0.00	23.00	23.00	23.00	39.00
4129	MJ1-3	Monze	40.00	schist	26.00	42.00	16.00	42.00	26.00	7.96	0.42	2.40	0.00	25.00	25.00	25.00	41.00
4130	MJ114	Monze	40.50	schist	24.00	34.00	10.00	34.00	24.00	1.20	3.33	26.40	0.00	24.00	24.00	24.00	38.00
4131	MJ113	Monze	40.50	gneiss	23.00	40.00	17.00	40.00	23.00	12.78	0.41	4.61	0.00	18.00	18.00	18.00	30.00
4132	MJ112	Monze	31.00	quartzite	21.00	29.00	8.00	29.00	21.00	14.05	0.00	0.00	0.00	28.00	28.00	28.00	40.00
4133	GJ-20	Gwenbe	40.50	sandstone	12.00	40.00	28.00	40.00	12.00	8.73	0.58	0.00	0.00	28.00	28.00	28.00	40.00
4134	GJ-15	Gwenbe	55.00	Mudstone	30.00	55.00	25.00	55.00	30.00	8.20	0.25	1.07	0.00	0.00	0.00	0.00	30.00
4135	GJ-17	Gwenbe	36.50	Mudstone	13.00	35.00	22.00	35.00	13.00	11.30	2.67	55.90	0.00	24.00	24.00	24.00	36.00
4136	GJ-20	Gwenbe	72.00	sandstone	48.00	60.00	12.00	60.00	48.00	32.90	0.33	2.77	0.00	36.00	36.00	36.00	72.00
4137	GJ-21	Gwenbe	48.00	sandstone	36.00	48.00	12.00	48.00	36.00	29.30	0.00	0.00	0.00	36.00	36.00	36.00	48.00
4138	GJ-22	Gwenbe	48.00	Mudstone	18.80	36.00	17.20	36.00	18.80	4.86	5.00	235.00	0.00	36.00	36.00	36.00	48.00
4139	MJ1-2	Mazabuka	40.00	limestone	5.00	27.00	22.00	27.00	5.00	2.90	0.63	2.18	0.00	24.00	24.00	24.00	40.00
4140	MJ1-5	Mazabuka	36.00	quartzite	24.00	30.00	6.00	30.00	24.00	6.36	0.65	0.00	0.00	0.00	0.00	0.00	36.00
4141	MJ1-6	Mazabuka	36.00	schist	9.00	31.00	21.00	31.00	9.00	5.27	0.33	2.45	0.00	0.00	0.00	0.00	36.00
4142	MJ1-7	Mazabuka	37.00	gneiss	22.00	37.00	15.00	37.00	22.00	20.33	1.89	160.00	0.00	25.00	25.00	25.00	37.00
4143	MJ1-9	Mazabuka	40.00	quartzite	31.00	40.00	9.00	40.00	31.00	8.40	0.88	2.83	0.00	28.00	28.00	28.00	40.00
4144	MJ114	Monze	43.00	schist	36.00	45.00	9.00	45.00	36.00	21.76	0.53	18.70	0.00	36.00	36.00	36.00	48.00
4145	MJ113	Monze	60.00	gneiss	26.00	54.00	28.00	54.00	26.00	13.37	0.30	1.10	0.00	44.00	44.00	44.00	60.00
4146	MJ112	Monze	43.00	siltstone	32.00	44.00	12.00	44.00	32.00	12.65	0.60	3.72	0.00	31.00	31.00	31.00	43.00
4147	MJ110	Monze	54.00	schist	41.00	50.00	9.00	50.00	41.00	15.25	0.16	0.64	0.00	42.00	42.00	42.00	54.00
4148	MJ118	Monze	54.00	gneiss	18.00	40.00	22.00	40.00	18.00	18.42	0.25	1.69	0.00	38.00	38.00	38.00	54.00
4149	GJ-14	Gwenbe	36.50	shale	15.00	27.00	12.00	27.00	15.00	9.15	1.17	28.50	0.00	24.00	24.00	24.00	36.00
4150	GJ-13	Gwenbe	45.00	clay	30.00	40.00	10.00	40.00	30.00	9.20	5.00	117.00	0.00	33.00	33.00	33.00	45.00
4151	GJ-12	Gwenbe	45.00	Mudstone	18.00	40.00	22.00	40.00	18.00	10.10	0.67	17.50	0.00	32.00	32.00	32.00	44.00
4152	GJ-11	Gwenbe	72.50	Mudstone	48.00	70.00	22.00	70.00	48.00	40.06	0.42	0.50	0.00	60.00	60.00	60.00	72.00
4153	GJ-10	Gwenbe	56.00	Mudstone	26.00	32.00	6.00	32.00	26.00	0.41	45.00	0.00	0.00	40.00	40.00	40.00	56.00
4154	MJ115	Monze	48.00	schist	18.00	25.00	7.00	25.00	18.00	6.30	0.58	3.63	0.00	36.00	36.00	36.00	48.00
4155	MJ113	Monze	43.00	quartzite	9.00	40.00	31.00	40.00	9.00	10.05	12.01	786.00	0.00	26.00	26.00	26.00	43.00
4156	2389-1	Choma	75.00	granite	12.00	43.00	31.00	43.00	12.00	4.30	0.23	0.39	0.00	5.60	5.60	5.60	11.60
4157	27040	Choma	60.00	sandstone	6.00	60.00	54.00	60.00	6.00	5.20	1.55	11.00	0.00	18.00	18.00	18.00	34.00
4158	2489-3	Choma	60.00	granite	18.20	60.00	41.80	60.00	18.20	6.70	2.70	15.10	0.00	15.00	15.00	15.00	35.70

Input No	Borehole No	District	Total Depth (m)	Lithology	Thickness of main Aquifer		Main Supply (G.L.-m)	Groundwater Depth		Yield (l/s)	Specific Capacity (m ³ /day)	Depth of Pump Intake (G.L.-m)	Diameter (mm)		Plan Casing		Perforated Casing		Depth of Bottom of Casing (G.L.-m)
					From (G.L.-m)	to (G.L.-m)		First Struck (G.L.-m)	Static (G.L.-m)						From (G.L.-m)	to (G.L.-m)			
4139	1432-5	Choma	70.20	granite	15.00	70.00	33.00	15.00	11.30	3.10	18.10	51.00	150	150	0.00	12.00	12.00	42.00	42.00
4160	2522-1	Choma	65.00	granite	7.60	65.00	57.40	0.00	5.00	2.05	10.80	45.00	150	150	0.00	6.00	6.00	36.00	36.00
4161	2494-1	Choma	60.00	granite	29.00	60.00	31.00	29.00	12.50	1.80	10.80	45.00	150	150	0.00	18.00	18.00	30.00	30.00
4162	2600-1	Choma	60.00	granite	12.20	60.00	47.80	0.00	5.20	1.05	2.86	41.10	150	150	0.00	15.00	15.00	48.20	48.20
4163	1655	Choma	70.00	schist	30.00	70.00	40.00	30.00	13.00	2.00	5.57	59.00	150	150	0.00	32.00	32.00	38.00	38.00
4164	1641	Choma	60.00	granite	20.00	60.00	40.00	20.00	1.50	5.00	15.70	59.00	150	150	0.00	20.00	20.00	36.00	36.00
4165	686-P	Choma	75.00	granite	25.00	75.00	50.00	25.00	18.20	2.30	7.15	76.00	150	150	0.00	18.50	18.50	50.50	50.50
4166	654-E	Choma	77.00	granite	36.00	77.00	41.00	36.00	15.50	1.00	7.02	49.52	150	150	0.00	21.00	21.00	21.00	21.00
4167	687-D	Choma	50.00	sandstone	25.00	50.00	25.00	25.00	12.30	0.20	0.43	64.00	150	150	0.00	6.00	6.00	6.00	6.00
4168	653-G	Choma	65.00	granite	17.00	65.00	48.00	17.00	15.00	0.20	0.37	74.00	150	150	0.00	20.00	20.00	36.00	36.00
4169	674-B	Choma	60.00	granite	20.00	60.00	40.00	20.00	1.50	5.00	15.70	59.00	150	150	0.00	12.00	12.00	0.00	0.00
4170	673-D	Choma	75.00	sandstone	15.00	75.00	60.00	15.00	13.00	1.60	5.00	41.00	150	150	0.00	14.00	14.00	68.30	68.30
4171	1350	Choma	75.00	gneiss	48.00	75.00	53.50	48.00	15.00	0.90	0.23	0.00	150	150	0.00	61.10	61.10	73.30	73.30
4172	1365	Choma	50.00	schist	8.00	50.00	42.00	8.00	3.85	1.20	3.96	30.00	150	150	0.00	12.20	12.20	0.00	0.00
4173	1352	Choma	75.00	gneiss	24.00	75.00	51.00	24.00	24.00	1.00	1.72	58.00	150	150	0.00	4.00	4.00	70.00	70.00
4174	1368	Choma	65.00	schist	32.00	65.00	33.00	32.00	20.00	1.80	10.40	0.00	150	150	0.00	38.10	38.10	60.00	60.00
4175	1354	Choma	70.00	schist	44.00	70.00	26.00	44.00	25.00	1.00	1.72	58.00	150	150	0.00	48.10	48.10	60.00	60.00
4176	1343	Choma	65.00	gneiss	36.00	65.00	21.00	36.00	18.00	5.50	28.00	12.00	150	150	0.00	37.10	37.10	49.00	49.00
4177	1263	Choma	54.00	quartzite	19.00	54.00	9.00	19.00	12.30	2.00	3.78	38.00	150	150	0.00	35.00	35.00	62.00	62.00
4178	903-5	Choma	61.00	schist	15.30	61.00	45.70	15.30	13.00	0.75	1.32	35.00	150	150	0.00	0.00	0.00	26.00	26.00
4179	957-2	Choma	76.00	schist	61.00	76.00	15.00	61.00	27.60	2.20	14.60	67.00	150	150	0.00	35.00	35.00	0.00	0.00
4180	957-1	Choma	70.00	schist	38.00	70.00	32.00	38.00	27.00	2.00	3.32	67.00	150	150	0.00	0.00	0.00	0.00	0.00
4181	1011-1	Choma	80.00	schist	38.00	80.00	42.00	38.00	27.60	2.20	14.60	67.00	150	150	0.00	13.60	13.60	0.00	0.00
4182	1018-1	Choma	70.00	granite	29.00	70.00	41.00	29.00	12.00	2.90	6.11	77.00	150	150	0.00	20.00	20.00	70.00	70.00
4183	1013-1	Choma	80.00	schist	21.20	80.00	58.80	21.20	6.00	4.50	19.40	77.00	150	150	0.00	19.00	19.00	25.00	25.00
4184	1025	Choma	70.00	schist	27.40	70.00	42.60	27.40	9.20	0.57	0.83	67.00	150	150	0.00	17.00	17.00	0.00	0.00
4185	2779-1	Choma	72.00	granite	12.00	72.00	60.00	12.00	8.00	2.05	4.66	49.00	150	150	0.00	18.00	18.00	33.00	33.00
4186	2143	Choma	50.00	limestone	12.00	50.00	38.00	12.00	3.50	1.30	4.58	48.00	150	150	0.00	11.00	11.00	25.50	25.50
4187	2145	Choma	60.00	limestone	12.00	60.00	48.00	12.00	10.80	1.30	13.70	59.00	150	150	0.00	9.00	9.00	21.00	21.00
4188	2152	Choma	60.00	limestone	26.00	60.00	34.00	26.00	0.00	8.00	0.00	59.00	150	150	0.00	21.00	21.00	27.00	27.00
4189	2142	Choma	52.00	limestone	16.00	52.00	36.00	16.00	10.50	1.10	7.04	50.00	150	150	0.00	14.00	14.00	25.50	25.50
4190	1904	Choma	50.00	limestone	13.00	50.00	37.00	13.00	8.70	1.40	6.83	48.00	150	150	0.00	12.25	12.25	30.65	30.65
4191	1980	Choma	50.00	dolomite	35.00	50.00	15.00	35.00	11.50	0.65	3.40	48.00	150	150	0.00	18.60	18.60	30.60	30.60
4192	1979	Choma	51.00	limestone	13.00	51.00	38.00	13.00	8.00	0.80	3.01	49.00	150	150	0.00	20.50	20.50	30.50	30.50
4193	1978	Choma	63.00	limestone	14.00	63.00	49.00	14.00	2.30	0.55	2.51	61.00	150	150	0.00	12.00	12.00	27.00	27.00
4194	1968	Choma	61.00	limestone	31.00	61.00	30.00	31.00	6.00	0.50	1.33	58.00	150	150	0.00	31.20	31.20	49.50	49.50
4195	1967	Choma	40.00	limestone	26.00	40.00	14.00	26.00	16.00	2.00	57.60	38.00	150	150	0.00	21.50	21.50	27.60	27.60
4196	1966	Choma	40.00	limestone	19.00	40.00	21.00	19.00	11.00	1.05	9.07	38.00	150	150	0.00	15.00	15.00	25.00	25.00
4197	1965	Choma	50.00	limestone	26.00	50.00	24.00	26.00	16.00	0.85	4.32	48.00	150	150	0.00	22.00	22.00	0.00	0.00
4198	1962	Choma	67.44	clay	00.48	67.44	00.53	00.48	90.13	00.0	60.23	00.71	00.1	00.1	00.00	00.44	00.44	00.56	00.56
4199	1960	Choma	66.50	limestone	31.00	66.50	35.50	31.00	29.50	0.34	5.06	64.00	150	150	0.00	23.85	23.85	68.55	68.55
4200	3520-2	Choma	50.00	schist	12.00	50.00	38.00	12.00	6.10	1.50	4.19	37.20	150	150	0.00	2.00	2.00	29.30	29.30
4201	1	Choma	63.00	schist	48.00	63.00	15.00	48.00	21.25	7.50	295.00	59.75	150	150	0.00	48.00	48.00	63.00	63.00
4202	1844	Choma	30.00	quartzite	18.50	30.00	11.50	18.50	12.80	0.50	3.38	28.00	150	150	0.00	20.00	20.00	30.00	30.00
4203	1840	Choma	45.00	quartzite	15.00	45.00	30.00	15.00	6.60	4.00	18.40	36.00	150	150	0.00	14.00	14.00	29.00	29.00
4204	1813	Choma	40.00	schist	27.00	40.00	13.00	27.00	8.40	0.66	3.24	36.00	150	150	0.00	27.00	27.00	37.00	37.00
4205	1805-1	Choma	50.00	schist	24.00	50.00	26.00	24.00	6.80	0.20	0.90	44.00	150	150	0.00	24.00	24.00	35.00	35.00
4206	1805-2	Choma	50.00	quartzite	24.00	50.00	26.00	24.00	7.20	1.60	6.88	44.00	150	150	0.00	19.50	19.50	25.50	25.50
4207	3162-2	Choma	60.00	granite	11.00	60.00	49.00	11.00	4.50	1.90	4.38	42.00	150	150	0.00	15.00	15.00	36.60	36.60
4208	3015	Choma	65.20	gneiss	10.00	65.20	55.20	10.00	9.60	2.50	10.30	54.00	150	150	0.00	29.80	29.80	50.80	50.80
4209	3455-1	Choma	55.00	schist	27.00	55.00	28.00	27.00	5.10	1.50	3.320	28.00	150	150	0.00	29.00	29.00	0.00	0.00
4210	3465-1	Choma	60.00	granite	40.00	60.00	20.00	40.00	14.30	0.26	55.00	0.00	150	150	0.00	13.00	13.00	13.00	13.00
4211	3446-1	Choma	80.00	granite	21.30	80.00	58.70	21.30	8.50	0.12	0.22	55.00	150	150	0.00	18.60	18.60	0.00	0.00
4212	2859	Choma	80.00	schist	47.00	80.00	33.00	47.00	30.50	1.25	6.47	49.30	150	150	0.00	15.00	15.00	0.00	0.00

Input No	Borehole No	District	Total Depth (m)	Lithology	Thickness of main Aquifer		Main Supply (G.L.-m)	Groundwater Depth		Yield (l/s)	Specific Capacity (m ² /day)	Depth of Pump Intake (G.L.-m)	Diameter (mm)	Plain Casing		Perforated Casing		Depth of Bottom of Casing (G.L.-m)
					From (G.L.-m)	To (G.L.-m)		First Struck (G.L.-m)	Static (G.L.-m)					From (G.L.-m)	To (G.L.-m)	From (G.L.-m)	To (G.L.-m)	
4213	2361	Choma	46.20	granite	14.00	28.00	28.00	14.30	7.00	2.10	0.00	34.10	150	0.00	23.40	23.40	23.40	28.40
4214	2381	Choma	55.00	quartzite	30.00	36.00	36.00	30.00	4.00	2.00	0.00	42.00	150	0.00	24.00	24.00	24.00	36.00
4215	2383	Choma	40.00	schist	27.00	33.00	33.00	27.00	15.00	1.50	0.00	35.00	150	0.00	30.00	30.00	30.00	36.00
4216	2506	Choma	45.00	schist	30.00	30.00	27.00	27.00	13.40	2.00	28.80	34.00	150	0.00	23.00	23.00	23.00	23.00
4217	2579	Choma	60.00	schist	30.00	30.00	27.00	27.00	24.00	4.00	0.00	45.00	150	0.00	24.00	24.00	24.00	42.00
4218	2357	Choma	75.00	schist	22.90	75.00	52.10	22.90	8.50	0.29	0.38	51.80	150	0.00	19.30	19.30	19.30	23.30
4219	2355	Choma	70.00	granite	23.00	70.00	47.00	23.00	8.00	0.80	0.00	60.00	150	0.00	15.00	15.00	15.00	27.00
4220	3109-1	Choma	46.40	granite	14.30	28.00	28.00	14.30	7.00	2.10	0.00	34.10	150	0.00	23.40	23.40	23.40	28.40
4221	3107-1	Choma	80.00	schist	36.60	54.00	47.00	36.60	30.50	1.25	6.47	49.30	150	0.00	15.20	15.20	15.20	15.20
4222	2089-2	Choma	82.00	schist	13.10	25.00	11.90	13.10	7.60	1.45	3.00	32.50	150	0.00	16.70	16.70	16.70	42.70
4223	3166-1	Namwala	80.00	sand	12.00	80.00	68.00	12.40	6.40	2.05	3.97	54.40	150	0.00	13.00	13.00	13.00	81.00
4224	2746	Choma	73.00	schist	43.70	73.00	25.30	47.70	23.60	2.80	20.20	60.00	150	0.00	42.00	42.00	42.00	48.50
4225	1623	Kalomo	75.00	granite	26.00	75.00	49.00	26.00	10.00	2.50	5.68	74.00	150	0.00	26.00	26.00	26.00	32.00
4226	1627	Kalomo	60.00	schist	20.00	60.00	40.00	20.00	15.00	5.00	12.00	59.00	150	0.00	21.00	21.00	21.00	36.00
4227	958-1	Kalomo	65.00	sandstone	8.00	54.00	46.00	8.00	3.40	4.00	7.75	62.00	150	0.00	8.30	8.30	8.30	8.30
4228	998-3	Kalomo	80.00	granite	20.00	55.00	35.00	20.00	13.40	1.80	2.80	75.00	150	0.00	10.00	10.00	10.00	23.00
4229	1051	Kalomo	80.00	granite	12.00	64.00	52.00	12.00	12.00	1.17	1.56	77.00	150	0.00	4.30	4.30	4.30	4.30
4230	1057-1	Kalomo	75.00	granite	22.00	46.00	24.00	22.00	9.00	2.00	3.14	72.00	150	0.00	19.00	19.00	19.00	44.00
4231	1064-1	Kalomo	73.00	granite	5.00	19.50	14.50	5.00	2.00	0.20	0.25	70.00	150	0.00	4.00	4.00	4.00	21.00
4232	1446	Kalomo	65.30	basalt	9.10	45.00	35.90	9.10	5.44	0.25	47.70	18.30	150	0.00	3.50	3.50	3.50	36.60
4233	1516	Kalomo	67.30	basalt	37.50	29.60	37.50	36.10	35.80	1.83	5.75	65.20	150	0.00	30.50	30.50	30.50	67.10
4234	1626	Kalomo	70.00	granite	26.30	35.70	9.40	26.30	21.00	2.00	6.65	69.00	150	0.00	26.00	26.00	26.00	38.00
4235	1624	Kalomo	55.00	granite	22.20	44.55	19.35	22.20	42.00	2.00	86.40	54.00	150	0.00	20.00	20.00	20.00	28.00
4236	1618	Kalomo	60.00	schist	15.00	60.00	45.00	15.00	4.20	10.00	48.30	59.00	150	0.00	18.00	18.00	18.00	24.00
4237	1656	Kalomo	70.00	sand	16.50	70.00	53.50	16.50	5.10	2.50	6.49	69.00	150	0.00	12.00	12.00	12.00	18.00
4238	1625	Kalomo	75.00	igneous roc	53.00	75.00	22.00	53.00	21.50	12.00	82.90	72.00	150	0.00	35.00	35.00	35.00	35.00
4239	1605	Kalomo	65.00	schist	22.50	65.00	42.50	22.50	12.00	2.00	5.32	64.00	150	0.00	18.00	18.00	18.00	6.00
4240	1604	Kalomo	75.00	igneous roc	28.00	75.00	53.00	28.00	17.60	1.80	4.25	74.00	150	0.00	6.00	6.00	6.00	6.00
4241	1602	Kalomo	60.00	basalt	36.00	60.00	24.00	36.00	20.50	2.00	8.95	59.00	150	0.00	12.00	12.00	12.00	12.00
4242	1686	Kalomo	60.00	granite	52.00	60.00	8.00	52.00	9.00	2.50	8.31	59.00	150	0.00	4.50	4.50	4.50	4.50
4243	1685	Kalomo	65.00	granite	58.00	65.00	7.00	58.65	13.00	0.22	0.44	62.00	150	0.00	15.50	15.50	15.50	27.50
4244	1674	Kalomo	75.00	schist	31.00	75.00	44.00	31.00	6.50	2.50	5.20	73.00	150	0.00	29.50	29.50	29.50	41.50
4245	1676	Kalomo	56.00	schist	12.00	56.00	44.00	12.00	9.50	0.30	0.73	54.00	150	0.00	12.00	12.00	12.00	18.00
4246	1624	Kalomo	55.00	granite	25.30	44.55	19.25	25.30	4.00	2.00	4.55	54.00	150	0.00	20.00	20.00	20.00	28.00
4247	1687	Kalomo	75.00	igneous roc	25.00	75.00	50.00	25.00	15.50	5.00	19.20	68.00	150	0.00	18.50	18.50	18.50	30.50
4248	1551	Kalomo	58.30	basalt	30.50	57.30	26.80	30.50	9.10	2.50	4.50	49.20	150	0.00	9.10	9.10	9.10	58.30
4249	2614	Kalomo	51.00	granite	23.51	51.00	27.49	23.51	23.10	0.75	1.98	43.30	150	0.00	24.20	24.20	24.20	37.20
4250	2628	Kalomo	42.60	schist	15.00	35.00	20.00	15.20	15.00	3.33	0.00	37.00	150	0.00	20.00	20.00	20.00	38.00
4251	2927	Kalomo	55.00	sand/grav	40.00	45.00	5.00	45.00	18.00	2.20	0.00	55.00	150	0.00	24.00	24.00	24.00	45.00
4252	2130-G	Kalomo	60.00	granite	22.00	30.00	8.00	22.00	18.40	0.20	0.65	52.00	150	0.00	16.00	16.00	16.00	16.00
4253	2114-H	Kalomo	60.00	granite	29.30	47.00	17.70	29.30	25.00	0.55	10.60	59.00	150	0.00	21.00	21.00	21.00	21.00
4254	2131-I	Kalomo	60.00	granite	19.00	48.00	29.00	19.00	11.00	0.66	2.24	59.00	150	0.00	18.40	18.40	18.40	21.40
4255	2132-J	Kalomo	48.00	granite	24.00	60.00	36.00	24.00	6.00	0.66	4.07	42.00	150	0.00	12.00	12.00	12.00	30.83
4256	2133-K	Kalomo	53.00	schist	42.00	42.00	6.00	42.00	14.00	1.00	4.02	52.00	150	0.00	7.00	7.00	7.00	7.00
4257	2134-R	Kalomo	62.00	schist	24.00	40.00	16.00	24.00	24.00	0.80	2.06	47.00	150	0.00	5.00	5.00	5.00	12.00
4258	2141-C	Kalomo	45.00	granite	44.00	45.00	4.00	44.00	4.50	3.00	240.00	53.00	150	0.00	7.00	7.00	7.00	17.00
4259	2028-L	Kalomo	55.00	igneous roc	4.50	15.00	10.50	4.50	26.00	5.00	171.00	58.00	150	0.00	23.80	23.80	23.80	30.00
4260	2027-M	Kalomo	60.00	igneous roc	26.00	46.00	20.00	26.00	14.00	1.30	6.61	58.00	150	0.00	26.50	26.50	26.50	33.00
4261	2026-N	Kalomo	60.00	schist	29.00	40.00	11.00	29.00	16.00	0.40	2.23	58.00	150	0.00	18.00	18.00	18.00	21.00
4262	2023-O	Kalomo	60.00	schist	21.00	45.00	24.00	21.00	9.00	0.90	3.70	58.00	150	0.00	23.00	23.00	23.00	32.00
4263	2022-P	Kalomo	60.00	schist	26.00	27.00	1.00	26.00	15.00	1.00	3.53	58.00	150	0.00	22.00	22.00	22.00	31.00
4264	2020-S	Kalomo	60.00	limestone	44.00	46.00	2.00	44.00	8.50	1.10	8.64	68.00	150	0.00	0.00	0.00	0.00	0.00
4265	1969-M	Kalomo	70.00	limestone	57.00	58.00	1.00	57.00	52.00	1.10	8.64	68.00	150	0.00	12.00	12.00	12.00	12.00
4266	2034-L	Kalomo	50.00	limestone	35.00	36.00	1.00	35.00	27.00	0.50	1.36	48.00	150	0.00	0.00	0.00	0.00	0.00

Input No	Borehole No	District	Total Depth (m)	Lithology	Thickness of main Aquifer		Main Supply (G.L.-m)	Groundwater Depth		Yield (l/s)	Specific Capacity (m ² /day)	Depth of Pump Intake (G.L.-m)	Diameter (mm)	Main Casing		Perforated Casing		Depth of Bottom of Casing (G.L.-m)
					From (G.L.-m)	To (G.L.-m)		First Struck (G.L.-m)	Static (G.L.-m)					From (G.L.-m)	To (G.L.-m)	From (G.L.-m)	To (G.L.-m)	
4267	2044-Q	Kulomo	37.00	schist	5.00	18.00	18.00	5.00	2.50	2.20	24.70	36.00	150	0.00	17.00	17.00	28.00	28.00
4268	2876-1	Kulomo	55.00	granite	24.40	50.00	25.60	24.40	7.60	1.80	4.16	50.00	150	0.00	9.00	9.00	0.00	9.00
4269	1574-6	Kulomo	89.00	granite	13.00	32.00	18.00	13.70	7.60	0.09	0.15	58.00	150	0.00	16.00	16.00	0.00	16.00
4270	2386-1	Kulomo	46.00	granite	9.70	46.00	36.30	9.70	3.50	1.17	3.25	36.60	150	0.00	16.00	16.00	41.20	41.20
4271	2663-1	Kulomo	70.00	granite	36.60	70.00	33.40	36.60	27.70	2.90	4.19	54.90	150	0.00	28.00	28.00	52.00	52.00
4272	3067-1	Kulomo	60.00	granite	30.00	60.00	30.00	30.00	27.70	2.90	67.70	49.00	150	0.00	27.00	27.00	36.00	36.00
4273	1245	Namwala	75.00	gneiss	65.00	75.00	10.00	65.00	22.00	1.00	2.27	21.00	150	0.00	63.10	63.10	75.00	75.00
4274	1237	Mazabuka	58.00	limestone	21.60	48.00	26.40	21.60	12.25	5.00	23.00	11.30	150	0.00	45.30	45.30	58.00	58.00
4275	1779	Mazabuka	104.50	meta-sedim	40.50	70.00	29.50	40.50	23.18	2.80	6.42	60.10	150	0.00	9.50	9.50	0.00	9.50
4276	1505	Mazabuka	65.00	granite	13.70	42.00	13.28	13.70	7.00	0.31	0.50	62.00	150	0.00	10.00	10.00	14.95	14.95
4277	1730	Mazabuka	64.00	meta-sedim	12.00	64.00	52.00	12.00	10.15	0.20	0.43	62.00	150	0.00	11.00	11.00	21.00	21.00
4278	1700	Mazabuka	60.00	schist	39.00	60.00	26.00	39.00	26.20	1.19	59.00	59.00	150	0.00	20.00	20.00	20.00	20.00
4279	1733	Mazabuka	26.00	meta-sedim	5.00	26.00	21.00	5.00	2.25	10.00	88.60	26.00	150	0.00	5.00	5.00	15.00	15.00
4280	1732	Mazabuka	65.00	schist	16.00	65.00	49.00	16.00	6.50	0.40	1.17	64.00	150	0.00	16.00	16.00	20.00	20.00
4281	1731	Mazabuka	20.00	siltstone	20.00	65.00	45.00	20.00	2.85	0.00	0.00	63.00	150	0.00	20.00	20.00	35.00	35.00
4282	1578	Mazabuka	64.70	schist	58.00	60.00	2.00	58.00	7.90	2.50	15.10	47.00	150	0.00	31.80	31.80	61.80	61.80
4283	1553	Mazabuka	75.00	sand	72.00	75.00	3.00	72.00	3.70	3.00	309.00	59.00	150	0.00	61.40	61.40	75.00	75.00
4284	1834	Mazabuka	65.00	quartzite	3.00	48.00	45.00	3.00	4.00	0.60	1.13	60.00	150	0.00	7.28	7.28	18.28	18.28
4285	1948	Mazabuka	42.85	granite	24.40	33.00	9.00	24.40	24.00	1.60	8.13	42.00	150	0.00	16.00	16.00	31.00	31.00
4286	1942	Mazabuka	51.20	meta-sedim	18.00	30.00	12.00	18.00	11.10	2.27	9.61	42.70	150	0.00	18.30	18.30	35.70	35.70
4287	2624	Mazabuka	50.00	sand	24.00	32.50	8.50	24.00	14.20	5.20	80.20	50.00	150	0.00	21.60	21.60	37.10	37.10
4288	2590	Mazabuka	45.00	schist	45.00	10.00	10.00	45.00	40.00	0.10	0.00	44.00	150	0.00	12.80	12.80	45.00	45.00
4289	2931	Mazabuka	65.70	granite	11.50	45.00	11.50	11.50	11.50	2.50	6.63	54.00	150	0.00	14.40	14.40	29.90	29.90
4290	2929	Mazabuka	60.00	granite	24.40	60.00	35.60	24.40	14.60	0.16	0.40	48.80	150	0.00	3.10	3.10	31.00	31.00
4291	1801-1	Mazabuka	67.00	schist	7.00	36.00	29.00	7.00	8.50	0.31	0.00	0.00	150	0.00	6.25	6.25	15.25	15.25
4292	800-2	Mazabuka	14.93	limestone	13.00	14.93	1.93	13.00	10.30	5.05	8.08	57.00	150	0.00	4.50	4.50	19.50	19.50
4293	1012-1	Mazabuka	67.00	granite	24.30	43.00	18.70	24.30	18.00	6.60	81.50	65.00	150	0.00	15.00	15.00	42.70	42.70
4294	975-1	Mazabuka	80.00	sand	30.00	70.00	40.00	30.00	45.00	0.95	1.50	78.00	150	0.00	42.00	42.00	80.20	80.20
4295	954-2	Mazabuka	33.50	limestone	17.00	33.50	16.50	17.00	12.00	6.70	32.20	30.00	150	0.00	9.20	9.20	0.00	0.00
4296	441-3	Mazabuka	50.00	schist	11.00	45.00	34.00	11.00	6.20	1.80	3.35	36.00	150	0.00	7.40	7.40	7.40	7.40
4297	1236	Mazabuka	76.00	schist	20.00	76.00	56.00	20.00	11.60	2.80	8.52	73.00	150	0.00	14.00	14.00	59.00	59.00
4298	1681-1	Mozao	21.00	quartzite	12.00	21.00	9.00	12.00	5.50	2.50	0.00	18.00	150	0.00	15.00	15.00	21.00	21.00
4299	005-93	Lusaka-Urban	30.00	limestone	12.00	24.00	12.00	12.00	21.00	5.00	100.00	21.00	150	0.00	12.00	12.00	24.00	24.00
4300	K31-01	Lusaka-Urban	60.00	schist	36.00	60.00	24.00	36.00	54.00	1.00	3.60	54.00	150	0.00	33.00	33.00	39.00	39.00
4301	2543	Lusaka-Urban	42.00	limestone	17.60	44.00	26.40	17.60	15.20	6.60	99.00	42.60	150	0.00	10.00	10.00	34.50	34.50
4302	2596	Lusaka-Urban	24.00	schist	24.00	36.00	12.00	24.00	15.20	3.50	79.00	36.00	150	0.00	24.00	24.00	25.30	25.30
4303	K31-02	Lusaka-Urban	60.00	schist	18.30	36.60	18.30	18.30	14.90	1.39	3.54	48.80	150	0.00	7.00	7.00	40.30	40.30
4304	3893-1	Lusaka-Urban	70.00	schist	27.40	47.70	36.60	27.40	9.10	5.00	10.80	45.70	150	0.00	22.00	22.00	16.10	16.10
4305	3849-1	Lusaka-Urban	60.00	schist	9.10	47.70	38.60	9.10	2.60	5.00	10.20	45.00	150	0.00	18.30	18.30	0.00	0.00
4306	3892-1	Lusaka-Urban	60.00	schist	15.20	51.80	36.60	15.20	11.00	0.56	1.28	48.80	150	0.00	27.00	27.00	33.00	33.00
4307	3865-2	Lusaka-Urban	57.80	schist	25.40	55.00	29.60	25.40	12.00	2.13	5.56	45.00	150	0.00	21.00	21.00	36.00	36.00
4308	3907-1	Lusaka-Urban	42.00	limestone	18.00	30.00	18.00	18.00	16.70	6.00	247.00	42.00	150	0.00	14.30	14.30	24.30	24.30
4309	K31-03	Lusaka-Urban	32.00	schist	15.00	32.00	17.00	15.00	9.00	0.90	33.80	22.00	150	0.00	20.00	20.00	37.30	37.30
4310	2032-A	Lusaka-Urban	75.00	limestone	22.00	46.00	24.00	22.00	8.50	0.35	2.02	60.00	150	0.00	15.00	15.00	35.00	35.00
4311	2037-D	Lusaka-Urban	70.00	limestone	15.30	30.00	14.70	15.30	6.00	4.50	61.70	64.00	150	0.00	20.00	20.00	35.00	35.00
4312	2036-E	Lusaka-Urban	60.00	schist	24.00	33.00	9.00	24.00	19.00	0.70	3.58	55.00	150	0.00	6.10	6.10	38.70	38.70
4313	1830-F	Lusaka-Urban	50.00	schist	7.60	33.50	25.90	7.60	6.10	3.30	15.60	40.00	150	0.00	27.00	27.00	49.00	49.00
4314	3658-1	Lusaka-Urban	80.00	schist	24.20	49.30	25.10	24.20	18.50	2.25	4.09	66.00	150	0.00	27.00	27.00	49.00	49.00
4315	3593-1	Lusaka-Urban	56.30	schist	26.90	36.30	9.40	26.90	18.40	1.88	7.75	39.30	150	0.00	24.40	24.40	56.40	56.40
4316	3587-1	Lusaka-Urban	61.00	schist	24.40	42.70	18.30	24.40	17.70	2.05	7.08	42.70	150	0.00	29.00	29.00	50.30	50.30
4317	3420-3	Lusaka-Urban	60.00	schist	30.50	51.00	20.50	30.50	24.70	1.00	3.16	52.00	150	0.00	24.70	24.70	48.30	48.30
4318	3420-3	Lusaka-Urban	61.00	Mudstone	27.40	48.80	21.40	27.40	25.00	5.00	288.00	51.80	150	0.00	24.70	24.70	48.30	48.30
4319	3247-1	Lusaka-Urban	60.00	schist	30.00	42.70	12.70	30.00	21.30	0.83	3.83	45.00	150	0.00	27.40	27.40	45.70	45.70

Input No	Borehole No	District	Total Depth (m)	Lithology	Thickness of main Aquifer			Groundwater Depth			Yield (l/s)	Specific Capacity (m ³ /day)	Depth of Pump Intake (G.L.-m)	Diameter (mm)	Plain Casing		Perforated Casing		Depth of Bottom of Casing (G.L.-m)
					From (G.L.-m)	To (G.L.-m)	Total Thickness (m)	Main Supply (G.L.-m)	First Struck (G.L.-m)	Static (G.L.-m)					From (G.L.-m)	To (G.L.-m)	From (G.L.-m)	To (G.L.-m)	
4321	3547-3	Lusaka-Urban	60.00	schist	30.00	45.00	15.00	45.00	30.00	24.20	3.25	9.42	34.00	150	0.00	24.20	24.20	41.20	41.20
4322	3550-1	Lusaka-Urban	80.00	schist	26.30	54.50	28.20	54.50	26.30	17.20	0.08	0.15	60.00	150	0.00	18.00	18.00	42.50	42.50
4323	3547-2	Lusaka-Urban	60.00	schist	30.00	52.00	23.00	52.00	29.00	18.00	0.60	1.44	55.00	150	0.00	21.30	21.30	42.30	42.30
4324	3549-1	Lusaka-Urban	61.00	limestone	30.50	58.00	27.50	55.00	30.50	25.90	7.10	26.80	48.80	150	0.00	24.40	24.40	54.80	54.80
4325	3508-2	Lusaka-Urban	70.00	schist	36.60	45.70	9.10	45.70	36.60	31.10	1.45	4.66	58.00	150	0.00	12.20	12.20	44.80	44.80
4326	3508-1	Lusaka-Urban	65.00	schist	40.00	65.00	25.00	42.70	40.00	31.10	0.65	2.09	58.00	150	0.00	18.30	18.30	40.60	40.60
4327	3420-2	Lusaka-Urban	51.80	limestone	18.30	45.70	27.40	45.00	18.30	15.20	4.00	23.40	44.00	150	0.00	12.20	12.20	36.60	36.60
4328	3423-1	Lusaka-Urban	70.00	schist	36.60	45.70	9.10	45.70	36.60	24.70	0.57	1.63	55.00	150	0.00	24.40	24.40	0.00	0.00
4329	3371-1	Lusaka-Urban	60.00	schist	19.20	28.00	8.80	28.00	19.20	14.20	3.00	24.00	45.70	150	0.00	18.30	18.30	33.50	33.50
4330	3326-2	Lusaka-Urban	65.00	schist	25.90	51.80	25.90	51.80	25.90	21.30	1.00	2.35	58.00	150	0.00	15.00	15.00	55.00	55.00
4331	3326-1	Lusaka-Urban	65.00	schist	48.80	64.00	15.20	64.00	48.80	21.95	3.70	10.00	52.00	168	0.00	27.40	27.40	55.00	55.00
4332	3309	Lusaka-Urban	55.00	limestone	36.00	40.50	4.50	40.50	36.00	21.95	1.90	5.37	50.00	150	0.00	27.00	27.00	0.00	0.00
4333	3298-3	Lusaka-Urban	60.00	schist	18.30	51.80	33.50	51.80	18.30	11.00	2.50	3.84	45.70	150	0.00	2.10	2.10	28.70	28.70
4334	3292-1	Lusaka-Urban	75.00	schist	13.10	41.20	28.10	41.20	13.10	8.50	4.00	38.40	45.70	150	0.00	22.90	22.90	38.10	38.10
4335	3303-1	Lusaka-Urban	80.00	schist	51.80	72.00	20.20	72.00	51.80	21.30	1.55	8.75	51.80	150	0.00	7.00	7.00	19.20	19.20
4336	2293-8	Lusaka-Urban	80.00	limestone	15.20	51.80	36.60	51.80	15.20	8.20	30.00	309.00	31.70	200	0.00	21.60	21.60	63.90	63.90
4337	3213-1	Lusaka-Urban	75.00	schist	21.30	36.60	15.30	36.60	21.30	16.80	1.25	4.17	42.70	150	0.00	7.00	7.00	19.20	19.20
4338	2918	Lusaka-Urban	80.00	limestone	15.00	51.00	36.00	51.00	15.20	8.20	10.50	0.00	46.00	168	0.00	6.00	6.00	24.00	24.00
4339	2983	Lusaka-Urban	47.75	dolomite	12.00	25.00	13.00	25.00	12.00	11.00	2.60	0.00	69.00	150	0.00	40.50	40.50	52.70	52.70
4340	2993	Lusaka-Urban	75.00	gneiss	12.00	75.00	63.00	80.00	12.00	33.50	0.16	0.32	77.00	150	0.00	6.00	6.00	21.00	21.00
4341	3243-1	Lusaka-Urban	80.00	schist	42.70	66.40	23.70	66.40	42.70	28.00	0.29	0.93	55.00	150	0.00	14.00	14.00	29.30	29.30
4342	3188-5	Lusaka-Urban	66.40	schist	24.00	76.20	52.20	76.20	24.00	23.10	2.80	7.58	55.00	150	0.00	35.00	35.00	58.00	58.00
4343	1638-1	Lusaka-Urban	80.00	schist	38.10	41.90	4.00	41.90	38.10	45.70	0.91	3.24	70.00	150	0.00	5.50	5.50	18.90	18.90
4345	2628-6	Lusaka-Urban	80.00	schist	36.00	75.00	39.00	75.00	36.00	35.00	1.05	2.84	67.00	150	0.00	23.10	23.10	50.00	50.00
4346	3014-1	Lusaka-Urban	50.00	schist	12.20	45.00	32.80	45.00	12.20	26.20	4.00	346.00	42.70	150	0.00	6.10	6.10	18.30	18.30
4347	2787-2	Lusaka-Urban	56.40	schist	36.60	48.80	12.20	48.80	36.60	26.20	0.83	2.78	52.00	150	0.00	36.60	36.60	76.20	76.20
4348	3142-1	Lusaka-Urban	28.70	schist	7.60	28.70	21.10	0.00	37.00	29.70	0.33	0.61	61.00	150	0.00	20.70	20.70	38.10	38.10
4349	3154-1	Lusaka-Urban	80.00	schist	37.00	80.00	43.00	0.00	33.50	22.00	1.42	409.00	33.50	150	0.00	30.50	30.50	45.00	45.00
4350	2899-2	Lusaka-Urban	36.60	schist	24.00	33.50	9.50	33.50	24.00	30.50	2.00	5.67	61.00	150	0.00	24.20	24.20	31.60	31.60
4351	2775	Lusaka-Urban	75.00	schist	33.50	75.00	41.50	42.70	33.50	17.60	25.00	218.00	31.00	250	0.00	38.00	38.00	58.00	58.00
4352	2596	Lusaka-Urban	46.00	limestone	17.60	44.00	26.40	44.00	17.60	22.90	2.10	6.46	51.00	150	0.00	13.40	13.40	26.80	26.80
4353	2808-2	Lusaka-Urban	60.00	schist	49.60	51.80	2.20	51.80	49.60	33.00	0.66	1.78	55.00	150	0.00	21.00	21.00	46.00	46.00
4354	2908-1	Lusaka-Urban	40.00	schist	23.10	40.00	16.90	26.20	23.10	16.20	2.20	11.00	33.50	150	0.00	5.20	5.20	17.20	17.20
4355	2770-1	Lusaka-Urban	70.00	schist	33.00	51.00	18.00	51.00	33.00	9.60	50.00	1270.00	29.20	300	0.00	27.40	27.40	51.80	51.80
4356	2762-5	Lusaka-Urban	60.00	limestone	20.00	40.00	20.00	39.60	20.00	33.50	1.10	2.59	60.40	150	0.00	12.20	12.20	15.20	15.20
4357	2787-1	Lusaka-Urban	70.00	schist	33.50	50.00	16.50	50.00	33.50	23.70	2.20	6.72	42.60	150	0.00	10.00	10.00	42.60	42.60
4358	2793-1	Lusaka-Urban	65.00	limestone	15.20	48.70	33.50	48.70	15.20	14.30	7.00	634.00	42.60	150	0.00	31.00	31.00	61.50	61.50
4359	2293-3	Lusaka-Urban	46.00	schist	17.60	44.00	26.40	44.00	17.60	33.50	0.37	0.75	60.00	150	0.00	33.00	33.00	39.00	39.00
4360	2664-1	Lusaka-Urban	70.00	schist	33.00	55.00	22.00	60.00	33.00	21.00	1.00	3.60	54.00	152	0.00	10.00	10.00	50.60	50.60
4361	2543	Lusaka-Urban	60.00	schist	40.00	60.00	20.00	60.00	40.00	12.00	2.50	5.23	48.00	150	0.00	8.00	8.00	47.20	47.20
4362	2217	Lusaka-Urban	52.00	schist	12.00	40.00	28.00	40.00	12.00	6.70	0.83	1.40	75.00	150	0.00	15.00	15.00	40.00	40.00
4363	2214	Lusaka-Urban	70.00	schist	10.00	57.00	47.00	57.00	10.00	17.00	5.20	31.20	75.00	150	0.00	21.00	21.00	33.00	33.00
4364	2282-1	Lusaka-Urban	80.00	limestone	17.00	75.00	58.00	75.00	17.00	19.20	17.50	468.00	33.00	150	0.00	25.00	25.00	37.00	37.00
4365	755-G	Lusaka-Urban	39.00	schist	22.00	39.00	17.00	39.00	22.00	19.20	17.50	461.00	33.00	150	0.00	15.00	15.00	30.00	30.00
4366	752-G	Lusaka-Urban	60.00	schist	19.20	55.00	36.00	55.00	19.20	8.00	0.80	1.65	60.00	150	0.00	9.00	9.00	0.00	0.00
4367	1976	Lusaka-Urban	80.00	schist	20.00	80.00	60.00	80.00	20.00	23.00	0.10	0.21	40.00	150	0.00	7.00	7.00	13.00	13.00
4368	426-G	Lusaka-Urban	50.00	limestone	23.00	50.00	27.00	0.00	0.00	30.00	13.50	1170.00	50.00	150	0.00	12.00	12.00	0.00	0.00
4369	443-G	Lusaka-Urban	60.00	limestone	18.00	7.00	11.00	18.00	18.00	7.00	2.62	8.08	60.00	150	0.00	27.00	27.00	55.00	55.00
4370	1853	Lusaka-Urban	50.00	limestone	25.00	55.00	30.00	39.00	25.00	19.50	7.40	142.00	30.00	150	0.00	15.00	15.00	40.00	40.00
4371	1522-1	Lusaka-Urban	55.00	limestone	18.00	27.00	9.00	27.00	18.00	13.70	5.60	134.00	30.00	150	0.00	10.60	10.60	22.50	22.50
4372	1478-O	Lusaka-Urban	40.00	limestone	15.00	25.00	10.00	25.00	15.00	15.00	4.80	5.31	30.00	150	0.00	6.00	6.00	9.75	9.75
4373	1608-1	Lusaka-Urban	35.00	limestone	15.00	27.00	12.00	27.00	15.00	11.20	2.80	7.61	63.00	150	0.00	0.00	0.00	0.00	0.00
4374	1636-O	Lusaka-Urban	70.00	limestone	45.00	57.00	12.00	45.00	45.00	39.00	0.00	0.00	63.00	150	0.00	0.00	0.00	0.00	0.00

Input No	Borehole No	District	Total Depth (m)	Lithology	Thickness of main Aquifer			Groundwater Depth		Specific Capacity (m ³ /day)	Depth of Pump Intake (G.L.-m)	Diameter (mm)	Plain Casing		Perforated Casing		Depth of Bottom of Casing (G.L.-m)
					from (G.L.-m)	to (G.L.-m)	Total Thickness (m)	Main Supply (G.L.-m)	First Struck (G.L.-m)				From (G.L.-m)	to (G.L.-m)	From (G.L.-m)	to (G.L.-m)	
4375	2653-3	Lusaka-Urban	75.00	quartzite	14.00	42.00	31.00	43.00	14.00	13.30	0.80	150	0.00	15.00	15.00	33.00	33.00
4376	2344-4	Lusaka-Urban	61.00	schist	18.00	52.00	34.00	52.00	18.00	12.50	2.80	150	0.00	18.00	18.00	57.00	57.00
4377	2653-1	Lusaka-Urban	70.00	quartzite	28.00	57.00	29.00	57.00	28.00	13.60	0.50	150	0.00	24.00	24.00	46.00	46.00
4378	2653-1	Lusaka-Urban	61.00	schist	27.00	40.00	13.00	40.00	27.00	10.60	1.86	150	0.00	18.00	18.00	44.00	44.00
4379	2653-2	Lusaka-Urban	70.00	quartzite	40.00	60.00	20.00	60.00	40.00	18.00	0.25	150	0.00	20.00	20.00	33.00	33.00
4380	2811-1	Lusaka-Urban	61.00	schist	36.50	54.80	18.30	54.80	36.50	24.30	0.75	150	0.00	24.30	24.30	54.60	54.60
4381	1652-G	Lusaka-Urban	45.72	schist	16.00	40.00	24.00	0.00	39.62	27.43	2.10	150	0.00	17.37	17.37	29.56	29.56
4382	1511-3	Mazabuka	43.02	limestone	18.00	27.00	9.00	18.00	10.00	3.00	2.00	150	0.00	3.00	3.00	18.00	18.00
4383	1511-1	Mazabuka	35.66	schist	10.00	35.00	25.00	15.20	10.00	2.10	1.25	150	0.00	3.55	3.55	22.55	22.55
4384	1486-2	Mazabuka	48.76	limestone	10.00	44.00	34.00	18.00	17.30	10.00	6.60	150	0.00	6.30	6.30	9.44	9.44
4385	1331-2	Mazabuka	50.00	meta-sedim	17.00	27.00	10.00	27.00	17.30	10.00	6.60	150	0.00	10.00	10.00	15.25	15.25
4386	1023-6	Mazabuka	61.50	sandstone	30.00	58.00	28.00	58.00	21.00	10.40	6.60	150	0.00	27.20	27.20	62.20	62.20
4387	1331-1	Mazabuka	50.00	gravel	21.00	34.00	13.00	34.00	21.00	5.00	49.10	150	0.00	18.50	18.50	30.50	30.50
4388	1486-1	Mazabuka	87.20	limestone	36.00	42.00	6.00	42.00	36.00	19.50	0.40	150	0.00	9.90	9.90	0.00	0.00
4389	1445-1	Mazabuka	70.00	meta-sedim	10.00	40.00	30.00	40.00	10.60	7.70	0.20	150	0.00	7.60	7.60	11.60	11.60
4390	1023-65	Mazabuka	61.25	sandstone	49.00	55.00	6.00	55.00	49.00	15.50	3.00	150	0.00	30.50	30.50	61.85	61.85
4391	13971-1	Mazabuka	77.85	schist	10.00	27.00	17.00	27.00	10.00	2.40	1.25	150	0.00	10.40	10.40	28.65	28.65
4392	1473-O	Mazabuka	41.15	limestone	8.00	40.00	32.00	40.00	8.00	1.00	8.30	150	0.00	0.00	8.34	0.00	8.84
4393	3901-1	Mazabuka	40.00	limestone	4.60	27.40	22.80	27.00	4.60	2.10	2.00	150	0.00	5.50	5.50	14.60	14.60
4394	3905-1	Mazabuka	60.00	schist	4.60	24.40	19.80	24.40	4.60	2.10	2.08	150	0.00	9.10	9.10	27.00	27.00
4395	1986-C	Mazabuka	50.00	limestone	26.00	38.00	12.00	38.00	26.00	1.20	5.00	150	0.00	25.00	25.00	31.00	31.00
4396	1945-E	Mazabuka	37.00	limestone	8.00	15.00	7.00	15.00	8.00	5.00	5.00	150	0.00	9.00	9.00	15.00	15.00
4397	1946-B	Mazabuka	39.00	limestone	8.00	13.00	5.00	13.00	8.00	5.70	3.00	150	0.00	9.00	9.00	18.00	18.00
4398	3623-5	Mazabuka	67.00	limestone	12.00	64.00	52.00	64.00	12.70	1.00	5.60	200	0.00	5.50	5.50	14.60	14.60
4399	3665-1	Mazabuka	60.00	limestone	15.00	60.00	45.00	60.00	15.00	8.00	0.20	150	0.00	0.47	0.47	4.80	4.80
4400	1947-A	Mazabuka	35.00	limestone	8.50	13.00	4.50	13.00	8.50	4.60	0.60	150	0.00	9.00	9.00	18.00	18.00
4401	1948-F	Mazabuka	51.00	limestone	17.00	34.00	17.00	34.00	17.00	0.20	2.03	150	0.00	9.00	9.00	17.00	17.00
4402	1953-D	Mazabuka	46.30	schist	12.00	48.00	36.00	48.00	5.20	4.00	5.13	150	0.00	4.80	4.80	17.00	17.00
4403	3623-4	Mazabuka	63.00	schist	9.00	31.00	22.00	31.00	9.70	0.60	2.25	150	0.00	6.60	6.60	15.80	15.80
4404	2162-2	Mazabuka	46.30	schist	20.00	50.00	30.00	50.00	20.00	5.10	2.20	150	0.00	6.60	6.60	15.80	15.80
4405	3623-3	Mazabuka	63.00	schist	18.00	28.00	10.00	28.00	18.30	7.50	5.88	150	0.00	15.00	15.00	22.80	22.80
4406	3361-11	Mazabuka	57.00	limestone	10.00	24.00	14.00	24.00	10.00	4.50	0.77	150	0.00	10.00	10.00	21.20	21.20
4407	2162-3	Mazabuka	41.50	limestone	10.00	43.00	19.00	43.00	10.00	2.20	4.94	150	0.00	3.20	3.20	25.60	25.60
4408	3361-8	Mazabuka	30.50	schist	18.00	31.00	13.00	31.00	18.30	4.50	0.77	150	0.00	10.00	10.00	21.20	21.20
4409	3571-2	Mazabuka	43.60	schist	12.10	39.40	27.30	39.40	12.10	10.30	6.25	150	0.00	6.10	6.10	27.70	27.70
4410	2242-1	Lusaka-Urban	45.50	limestone	21.00	40.00	19.00	40.00	6.00	2.00	6.60	150	0.00	12.10	12.10	26.40	26.40
4411	2257-3	Lusaka-Urban	45.70	limestone	12.00	42.00	30.00	42.00	12.00	11.60	4.00	150	0.00	3.00	3.00	15.30	15.30
4412	1322-4	Lusaka-Urban	45.80	limestone	30.00	48.00	18.00	48.00	12.00	6.00	2.88	150	0.00	16.40	16.40	49.40	49.40
4413	2270-1	Lusaka-Urban	62.00	schist	10.00	33.00	23.00	33.00	10.00	6.00	1.50	150	0.00	13.00	13.00	43.30	43.30
4414	2257-2	Lusaka-Urban	45.00	limestone	12.00	33.00	21.00	33.00	6.00	1.20	5.00	150	0.00	19.00	19.00	35.50	35.50
4415	1777-3	Lusaka-Urban	42.70	limestone	10.00	32.00	22.00	32.00	10.00	4.00	5.90	150	0.00	10.00	10.00	38.50	38.50
4416	2266-1	Lusaka-Urban	101.00	schist	24.00	92.00	68.00	92.00	24.00	6.00	0.66	150	0.00	11.70	11.70	17.70	17.70
4417	2265-1	Lusaka-Urban	40.00	schist	24.00	33.00	9.00	33.00	6.00	0.66	0.66	150	0.00	19.00	19.00	35.50	35.50
4418	2257-1	Lusaka-Urban	40.00	schist	24.00	33.00	9.00	33.00	6.00	2.40	1.10	150	0.00	10.00	10.00	38.50	38.50
4419	192215	Lusaka-Urban	60.00	schist	10.00	50.00	40.00	50.00	10.00	9.20	2.41	150	0.00	10.00	10.00	40.00	40.00
4420	1406-2	Lusaka-Urban	60.00	limestone	40.00	55.00	15.00	55.00	24.00	11.60	5.00	150	0.00	18.00	18.00	40.00	40.00
4421	2284-1	Lusaka-Urban	36.60	limestone	10.00	24.00	14.00	24.00	10.00	7.00	0.62	150	0.00	6.20	6.20	18.20	18.20
4422	192213	Lusaka-Urban	40.00	schist	6.00	27.00	21.00	27.00	6.00	3.00	2.54	150	0.00	6.60	6.60	36.60	36.60
4423	2270-1	Lusaka-Urban	35.00	limestone	10.00	30.00	20.00	30.00	10.00	5.00	5.60	150	0.00	6.20	6.20	9.20	9.20
4424	2092-3	Lusaka-Urban	60.00	quartzite	8.00	55.00	47.00	55.00	8.00	4.90	1.40	150	0.00	2.00	2.00	28.00	28.00
4425	2478-1	Lusaka-Urban	60.00	schist	7.00	40.00	33.00	40.00	7.00	1.70	2.64	150	0.00	0.00	0.00	2.00	2.00
4426	1777-5	Lusaka-Urban	40.00	limestone	15.00	50.00	35.00	50.00	15.00	4.50	10.00	0	0.00	0.00	0.00	0.00	0.00
4427	2469-1	Lusaka-Urban	75.00	sandstone	17.00	40.00	23.00	40.00	17.00	9.60	1.86	150	0.00	14.50	14.50	75.50	75.50
4428	366227	Lusaka-Urban	50.00	limestone	20.40	36.00	15.60	36.00	20.40	17.70	26.25	150	0.00	15.20	15.20	24.30	24.30

Input No.	Borehole No.	District	Total Depth (m)	Lithology	Thickness of main Aquifer			Groundwater Depth		Yield (l/s)	Specific Capacity (m ² /day)	Depth of Pump Intake (G.L.-m)	Diameter (mm)	Plain Casing		Perforated Casing		Depth of Bottom of Casing (G.L.-m)
					From (G.L.-m)	To (G.L.-m)	Total Thickness (m)	Main Supply (G.L.-m)	Free Struck (G.L.-m)	Static (G.L.-m)				From (G.L.-m)	To (G.L.-m)	From (G.L.-m)	To (G.L.-m)	
4429	4184-1	Lusaka-Urban	60.00	schist	17.70	53.00	35.30	36.60	17.70	12.80	2.85	42.70	150	0.00	18.30	18.30	30.50	30.50
4430	4185-1	Lusaka-Urban	60.00	schist	23.10	48.80	25.70	48.80	23.10	15.20	2.12	6.66	150	0.00	1.20	1.20	22.50	22.50
4431	4182-1	Choma	45.70	schist	12.20	42.70	30.50	42.70	12.20	5.00	2.90	33.50	150	0.00	6.10	6.10	30.50	30.50
4432	4144-1	Lusaka-Urban	70.00	schist	23.10	70.00	16.70	0.00	33.30	41.30	0.03	63.00	150	0.00	21.40	21.40	24.30	24.30
4433	4145-1	Ndola-Urban	40.00	schist	13.00	20.00	7.00	20.00	13.00	9.00	1.00	30.00	150	0.00	12.00	12.00	30.00	30.00
4434	3735-3	Ndola-Urban	60.00	schist	21.00	42.00	21.00	21.00	15.00	12.00	1.25	39.00	150	0.00	32.00	32.00	54.00	54.00
4435	4222-1	Ndola-Urban	35.00	quartzite	23.00	30.00	7.00	30.00	25.00	21.00	0.46	30.00	150	0.00	21.00	21.00	27.00	27.00
4436	4116-2	Lusaka-Urban	70.00	limestone	30.00	40.00	10.00	30.00	12.00	4.00	8.43	45.00	150	0.00	9.00	9.00	45.00	45.00
4437	4142-1	Mazabuka	45.70	schist	10.70	15.50	4.80	15.50	10.70	7.00	0.80	2.94	150	0.00	10.60	10.60	35.00	35.00
4438	4185-1	Ndola-Urban	35.00	quartzite	7.50	21.00	13.50	21.00	7.50	6.50	1.17	30.00	150	0.00	4.50	4.50	4.50	4.50
4439	2409-11	Mazabuka	62.70	granite	8.20	27.40	19.20	27.40	8.20	4.60	0.09	36.60	150	0.00	9.80	9.80	12.00	12.00
4440	4151-1	Ndola-Urban	30.00	schist	9.00	15.00	6.00	15.00	9.00	10.00	2.50	27.00	150	0.00	9.00	9.00	9.80	9.80
4441	4149	Lusaka-Urban	75.00	schist	30.50	70.00	39.50	0.00	30.50	16.80	0.72	61.00	150	0.00	9.00	9.00	27.00	27.00
4442	4161-1	Lusaka-Urban	40.00	granite	6.00	18.00	12.00	18.00	6.00	9.00	0.36	45.70	150	0.00	8.20	8.20	8.20	8.20
4443	4183-1	Lusaka-Urban	60.00	limestone	30.50	35.00	4.50	35.00	30.50	16.80	0.72	61.00	150	0.00	9.80	9.80	9.80	9.80
4444	4140-1	Lusaka-Urban	75.00	schist	21.20	66.60	45.40	66.60	21.20	14.50	5.00	75.00	150	0.00	15.50	15.50	24.90	24.90
4445	4196-1	Lusaka-Urban	36.00	schist	4.00	30.00	26.00	30.00	4.00	2.50	7.71	36.60	150	0.00	9.10	9.10	42.60	42.60
4446	4200-1	Ndola-Urban	65.00	schist	24.40	51.80	27.40	42.70	24.40	36.60	2.50	154.00	150	0.00	6.10	6.10	14.30	14.30
4447	4168-3	Lusaka-Urban	20.00	schist	7.60	0.00	7.60	0.00	7.60	3.50	0.41	15.20	150	0.00	17.50	17.50	38.70	38.70
4448	3510-7	Mazabuka	50.00	schist	20.00	26.00	6.00	26.00	20.00	11.20	2.90	45.00	150	0.00	9.70	9.70	33.50	33.50
4449	4135-1	Lusaka-Urban	30.00	limestone	11.00	29.00	18.00	29.00	11.00	8.20	0.50	42.70	150	0.00	12.50	12.50	21.20	21.20
4450	2727-4	Lusaka-Urban	60.00	schist	24.40	45.70	11.30	30.50	24.40	17.40	23.30	530.00	200	0.00	9.80	9.80	40.30	40.30
4451	36622-9	Lusaka-Urban	60.00	limestone	5.50	40.00	34.50	24.40	5.50	3.00	5.00	45.70	150	0.00	18.00	18.00	50.20	50.20
4452	4173-1	Ndola-Urban	50.00	quartzite	18.00	30.40	11.60	30.40	18.00	12.00	2.50	7.71	150	0.00	18.30	18.30	36.60	36.60
4453	4164-2	Lusaka-Urban	55.00	schist	20.10	33.50	13.40	33.50	20.10	14.00	1.80	5.98	150	0.00	6.10	6.10	18.30	18.30
4454	4168-2	Lusaka-Urban	60.00	schist	30.50	33.50	3.00	33.50	30.50	24.40	2.50	10.10	150	0.00	13.20	13.20	30.50	30.50
4455	3974-2	Lusaka-Urban	40.00	limestone	10.00	27.00	17.00	17.00	11.90	3.60	1.80	30.50	150	0.00	6.50	6.50	37.00	37.00
4457	4172-1	Lusaka-Urban	50.00	limestone	10.00	27.00	17.00	21.50	10.00	9.00	6.25	42.70	150	0.00	0.00	0.00	27.00	27.00
4458	4203-1	Lusaka-Urban	50.00	schist	20.40	36.00	15.60	21.30	20.40	17.70	26.25	494.00	200	0.00	14.00	14.00	23.10	23.10
4459	36623-0	Lusaka-Urban	60.00	schist	30.00	41.20	11.20	41.20	30.00	30.10	1.56	13.60	150	0.00	24.40	24.40	39.60	39.60
4460	3540-5	Lusaka-Urban	57.30	schist	24.40	40.00	15.60	40.00	24.40	8.30	0.83	0.00	150	0.00	0.00	0.00	19.00	19.00
4461	4168-4	Ndola-Urban	30.00	quartzite	8.00	24.00	16.00	19.00	8.00	6.00	2.00	24.00	150	0.00	3.00	3.00	6.00	6.00
4462	4202-1	Kabwe-Urban	60.00	schist	3.00	56.00	53.00	56.00	3.00	0.30	0.83	45.00	150	0.00	7.00	7.00	31.00	31.00
4463	4205-1	Kabwe-Urban	50.00	schist	3.00	40.00	37.00	9.00	3.00	2.00	5.00	24.00	150	0.00	0.00	0.00	224.00	224.00
4464	4223-1	Ndola-Urban	35.00	quartzite	15.00	21.00	6.00	21.00	15.00	14.00	1.55	10.30	150	0.00	24.00	24.00	21.30	21.30
4465	4199-1	Lusaka-Urban	65.00	schist	18.30	36.60	18.30	36.60	18.30	10.00	3.10	42.70	150	0.00	15.20	15.20	29.30	29.30
4466	4156-1	Lusaka-Urban	75.00	schist	45.00	59.00	14.00	59.00	45.00	27.00	0.07	66.60	150	0.00	6.70	6.70	37.20	37.20
4467	4163-2	Lusaka-Urban	55.00	schist	11.30	21.30	10.30	21.30	11.30	5.00	3.70	39.70	150	0.00	6.50	6.50	40.40	40.40
4468	4153-1	Lusaka-Urban	70.00	limestone	12.20	42.00	29.80	18.50	12.20	6.00	6.62	45.60	150	0.00	15.20	15.20	24.40	24.40
4469	4116-3	Lusaka-Urban	39.20	limestone	23.10	24.40	1.30	24.40	23.10	10.00	3.30	36.00	150	0.00	6.60	6.60	30.90	30.90
4470	36622-6	Lusaka-Urban	40.60	schist	16.30	30.30	14.30	30.30	16.30	10.60	0.25	30.00	150	0.00	7.90	7.90	25.30	25.30
4471	4159-1	Ndola-Urban	45.70	limestone	10.70	29.30	18.60	29.30	10.70	7.60	5.00	30.50	150	0.00	19.00	19.00	19.00	19.00
4472	2409-8	Mazabuka	45.00	schist	9.00	18.00	9.00	18.00	9.00	6.00	9.60	33.00	150	0.00	10.00	10.00	33.00	33.00
4473	4160	Lusaka-Urban	40.00	schist	15.00	33.00	18.00	15.00	15.00	3.00	0.41	30.00	150	0.00	12.00	12.00	31.70	31.70
4474	4158-1	Ndola-Urban	35.00	quartzite	25.00	30.00	5.00	25.00	3.00	8.50	0.26	30.00	150	0.00	2.20	2.20	26.20	26.20
4475	4177-1	Ndola-Urban	50.00	quartzite	11.00	50.00	39.00	0.00	11.00	3.20	0.71	40.00	150	0.00	12.20	12.20	12.00	12.00
4476	373512	Ndola-Urban	35.00	schist	6.00	30.00	24.00	30.00	6.00	15.00	1.50	42.70	150	0.00	6.00	6.00	30.50	30.50
4477	373511	Ndola-Urban	50.00	schist	27.40	30.50	3.10	30.50	27.40	0.30	0.56	36.60	150	0.00	25.80	25.80	37.40	37.40
4478	4187-1	Lusaka-Urban	44.00	schist	0.30	42.00	14.70	15.00	0.30	21.35	0.20	0.00	150	0.00	20.30	20.30	31.70	31.70
4479	4175-1	#N/A	30.20	schist	18.00	21.00	3.00	18.00	18.00	4.91	4.63	24.00	150	0.00	55.40	55.40	66.80	66.80
4480	MUM01	Mumbwa	61.00	schist	61.00	64.00	3.00	61.00	61.00	33.50	0.58	4.42	150	0.00	55.40	55.40	66.80	66.80
4481	MUM02	Mumbwa																
4482	MUM03	Mumbwa																

Input No	Borehole No	District	Total Depth (m)	Lithology	Thickness of main Aquifer			Main Supply (G.L.-m)	Groundwater Depth		Yield (l/s)	Specific Capacity (m ³ /day)	Depth of Pump Intake (G.L.-m)	Diameter (mm)	Plain Casing		Perforated Casing		Depth of Bottom of Casing (G.L.-m)
					From (G.L.-m)	to (G.L.-m)	Thickness (m)		First Struck (G.L.-m)	Static (G.L.-m)					From (G.L.-m)	to (G.L.-m)	From (G.L.-m)	to (G.L.-m)	
4483	MUM04	Mumbai	37.00	sand	18.00	18.00	0.00	18.00	18.00	12.09	0.90	0.00	27.00	150	0.00	0.00	11.60	11.60	33.00
4484	MUM05	Mumbai	43.00	schist	30.00	39.00	9.00	30.00	27.00	10.77	6.60	0.00	36.00	150	0.00	0.00	30.90	30.90	42.50
4485	MUM06	Mumbai	37.00	schist	12.00	18.00	6.00	18.00	12.00	12.00	2.00	0.00	30.00	150	0.00	0.00	25.60	25.60	37.40
4486	MUM07	Mumbai	49.00	schist	15.00	30.00	15.00	15.00	12.00	10.46	3.09	25.30	39.00	150	0.00	0.00	37.70	37.70	49.10
4487	MB101	Mumbai	37.00	schist	25.00	27.00	2.00	25.00	25.00	21.16	1.75	378.00	37.00	150	0.00	0.00	26.10	26.10	37.00
4488	MB100	Mumbai	30.00	schist	15.00	21.00	6.00	15.00	15.00	11.30	4.57	22.60	24.00	150	0.00	0.00	19.00	19.00	30.00
4489	MB117	Mumbai	30.00	granite	15.00	18.00	3.00	15.00	12.00	8.70	3.50	2.92	24.00	150	0.00	0.00	18.60	18.60	30.00
4490	MB093	Mumbai	49.00	schist	39.00	40.00	1.00	40.00	39.00	13.45	0.52	2.32	42.00	150	0.00	0.00	36.30	36.30	47.00
4491	MB094	Mumbai	37.00	schist	15.00	24.00	9.00	15.00	12.00	10.78	1.50	11.10	30.00	150	0.00	0.00	22.10	22.10	37.00
4492	MB029	Mumbai	61.00	schist	52.00	56.00	4.00	52.00	52.00	39.68	0.04	0.38	54.00	150	0.00	0.00	45.60	45.60	61.00
4493	MB001	Mumbai	37.00	schist	21.00	24.00	3.00	24.00	21.00	6.81	2.33	25.70	30.00	150	0.00	0.00	26.30	26.30	37.70
4494	MB002	Mumbai	66.00	schist	41.00	46.00	5.00	46.00	41.00	60.00	0.05	5.63	24.00	150	0.00	0.00	54.80	54.80	66.40
4495	MB003	Mumbai	31.00	gneiss	18.00	24.00	6.00	18.00	18.00	7.10	0.75	5.63	24.00	150	0.00	0.00	20.00	20.00	31.40
4496	MB004	Mumbai	58.00	schist	48.00	54.00	6.00	48.00	30.00	18.30	1.21	0.00	54.00	150	0.00	0.00	46.80	46.80	58.40
4497	MB005	Mumbai	24.00	schist	18.00	21.00	3.00	18.00	4.00	3.20	5.25	9070.00	12.00	150	0.00	0.00	4.00	4.00	15.40
4498	MB006	Mumbai	36.00	quartzite	9.00	21.00	12.00	9.00	9.00	6.28	3.50	87.40	24.00	150	0.00	0.00	24.60	24.60	36.40
4499	MB007	Mumbai	31.00	quartzite	12.00	18.00	6.00	18.00	12.00	10.77	1.16	0.00	21.00	150	0.00	0.00	10.70	10.70	22.30
4500	MB008	Mumbai	60.00	quartzite	46.00	60.00	14.00	60.00	46.00	31.00	0.70	0.00	34.00	100	0.00	0.00	49.00	49.00	60.60
4501	MB008	Mumbai	41.00	gneiss	19.00	27.00	8.00	19.00	12.18	9.00	0.00	0.00	36.00	100	0.00	0.00	29.60	29.60	41.20
4502	MB009	Mumbai	42.00	schist	30.00	31.00	1.00	31.00	30.00	17.89	3.00	0.00	36.00	150	0.00	0.00	30.80	30.80	42.40
4503	MB10	Mumbai	37.00	schist	18.00	24.00	6.00	24.00	18.00	10.60	2.00	0.00	30.00	150	0.00	0.00	25.20	25.20	37.40
4504	MB11	Mumbai	31.00	gneiss	11.00	18.00	7.00	11.00	11.00	8.03	2.50	60.00	24.00	150	0.00	0.00	18.60	18.60	30.20
4505	MB12	Mumbai	49.00	gneiss	24.00	30.00	6.00	24.00	24.00	17.80	0.28	2.27	42.00	150	0.00	0.00	38.00	38.00	49.40
4506	MB13	Mumbai	43.00	gneiss	27.00	43.00	16.00	27.00	27.00	24.30	0.16	1.63	36.00	150	0.00	0.00	31.60	31.60	43.00
4507	MUMBWA	Mumbai	43.00	schist	24.00	33.00	9.00	33.00	24.00	17.82	1.00	8.97	36.00	150	0.00	0.00	32.00	32.00	43.40
4508	MB15	Mumbai	49.00	schist	22.00	36.00	14.00	36.00	22.00	12.40	0.40	1.44	42.00	150	0.00	0.00	37.60	37.60	49.00
4509	MB003	Mumbai	43.00	quartzite	24.00	30.00	6.00	24.00	19.00	10.50	2.00	12.30	36.00	150	0.00	0.00	32.00	32.00	43.00
4510	MB16	Mumbai	75.00	quartzite	57.00	59.00	2.00	59.00	57.00	37.66	2.00	508.00	37.73	150	0.00	0.00	57.00	57.00	68.40
4511	MB17	Mumbai	30.00	schist	27.00	30.00	3.00	27.00	17.00	7.35	2.50	21.30	27.00	150	0.00	0.00	19.10	19.10	30.50
4512	3911-1	Mumbai	52.00	schist	24.40	30.00	5.60	30.00	24.40	23.50	3.50	13.40	46.00	150	0.00	0.00	16.80	16.80	35.10
4513	1975	Mumbai	45.00	sand&grave	29.00	38.00	9.00	29.00	29.00	17.00	0.51	4.01	36.74	150	0.00	0.00	30.00	30.00	39.00
4514	MB18	Mumbai	54.00	quartzite	31.00	43.00	12.00	43.00	31.00	25.00	3.28	177.00	42.70	150	0.00	0.00	21.70	21.70	44.10
4515	3670-1	Mumbai	63.00	schist	25.90	48.80	22.90	48.80	25.90	13.40	2.55	17.50	48.80	150	0.00	0.00	12.30	12.30	44.10
4516	MB19	Mumbai	42.00	quartzite	15.00	29.00	14.00	29.00	15.00	10.00	8.75	0.00	36.00	152	0.00	0.00	9.30	9.30	27.90
4517	3160	Mumbai	30.00	quartzite	9.12	15.22	6.10	9.12	9.00	5.00	4.00	173.00	21.00	150	0.00	0.00	15.00	15.00	21.00
4518	1804	Mumbai	59.00	schist	20.00	25.00	5.00	25.00	20.00	14.00	8.00	32.80	38.00	150	0.00	0.00	17.50	17.50	23.50
4519	3129	Mumbai	60.00	limestone	48.50	55.00	6.50	55.00	48.50	48.00	4.50	43.20	57.00	150	0.00	0.00	9.20	9.20	11.20
4520	3493-2	Mumbai	60.00	limestone	48.50	55.00	6.50	55.00	48.50	48.00	4.50	43.20	57.00	150	0.00	0.00	9.20	9.20	11.20
4521	3493-1	Mumbai	65.00	limestone	45.00	60.00	15.00	60.00	45.00	39.30	2.88	17.70	51.50	150	0.00	0.00	36.30	36.30	48.50
4522	3039	Mumbai	75.30	schist	71.00	75.00	4.00	75.00	46.51	31.00	6.20	0.00	72.00	150	0.00	0.00	21.00	21.00	57.00
4523	3354-1	Mumbai	54.00	schist	27.40	48.80	20.40	48.80	27.40	21.60	0.20	0.64	48.80	150	0.00	0.00	21.70	21.70	30.80
4524	3207	Mumbai	61.00	schist	25.90	61.00	35.10	61.00	25.90	18.00	0.12	0.26	36.00	150	0.00	0.00	12.00	12.00	14.00
4525	3022-1	Mumbai	40.00	limestone	15.20	36.60	21.40	36.60	15.20	8.20	3.30	950.00	36.60	150	0.00	0.00	6.00	6.00	26.00
4526	3131-1	Mumbai	64.00	schist	24.00	64.00	40.00	64.00	24.00	20.90	0.16	0.41	35.00	150	0.00	0.00	20.00	20.00	26.00
4527	3174-1	Mumbai	33.50	schist	9.00	22.00	13.00	22.00	9.00	0.58	6.00	96.00	27.60	150	0.00	0.00	13.00	13.00	37.00
4528	3174-1	Mumbai	31.10	schist	1.00	21.30	20.30	21.30	1.00	1.37	4.00	14.90	27.60	250	0.00	0.00	10.70	10.70	29.90
4529	3174-4	Mumbai	31.10	schist	1.70	13.20	11.50	13.20	1.70	0.70	5.00	61.70	27.60	250	0.00	0.00	7.30	7.30	28.30
4530	3174-3	Mumbai	30.50	schist	1.25	23.00	21.75	23.00	1.25	1.15	5.00	28.80	27.60	250	0.00	0.00	9.40	9.40	27.10
4531	2776	Mumbai	60.10	schist	36.60	55.00	18.40	55.00	36.60	20.40	22.80	66.60	50.00	150	0.00	0.00	19.50	19.50	60.00
4532	2999-1	Mumbai	45.00	schist	20.00	40.00	20.00	40.00	20.00	25.00	0.31	1.79	40.00	150	0.00	0.00	6.70	6.70	12.50
4533	2969-1	Mumbai	60.00	limestone	24.40	40.00	15.60	40.00	24.40	6.10	4.50	22.00	48.00	150	0.00	0.00	17.50	17.50	44.20
4534	2880-1	Mumbai	85.00	schist	56.00	70.00	14.00	70.00	56.00	40.00	2.80	9.75	70.00	150	0.00	0.00	11.80	11.80	23.80
4535	3174-2	Mumbai	31.10	amphibolite	0.91	16.00	15.09	16.00	0.91	0.58	4.00	30.50	27.60	250	0.00	0.00	10.70	10.70	29.00
4536	3174-5	Mumbai	31.10	schist	1.00	21.30	20.30	21.30	1.00	1.37	4.00	14.90	27.60	250	0.00	0.00	7.30	7.30	28.30

Input No	Borehole No	District	Total Depth (m)	Lithology	Thickness of main Aquifer		Groundwater Depth		Yield (l/s)	Specific Capacity (m ² /day)	Depth of Pump Intake (G.L.-m)	Diameter (mm)		Plain Casing		Perforated Casing		Depth of Bottom of Casing (G.L.-m)
					From (G.L.-m)	To (G.L.-m)	Total Thickness (m)	Main Supply (G.L.-m)	First Struck (G.L.-m)	Static (G.L.-m)				From (G.L.-m)	To (G.L.-m)	From (G.L.-m)	To (G.L.-m)	
4537	2731	Mumbwa	60.00	schist	24.40	40.00	6.60	24.10	6.10	3.60	43.00	150	150	0.00	17.50	26.70	40.20	44.20
4538	2678-1	Mumbwa	60.00	limestone	40.00	45.00	5.00	40.00	12.00	4.50	92.70	150	150	0.00	12.00	33.00	45.00	45.00
4539	2517	Mumbwa	75.00	limestone	47.00	65.00	18.00	65.00	47.00	30.10	634.00	150	150	0.00	24.00	6.00	30.00	30.00
4540	2516	Mumbwa	75.00	limestone	37.00	68.00	31.00	68.00	37.00	30.50	321.00	150	150	0.00	28.00	6.00	34.00	34.00
4541	2518	Mumbwa	75.00	limestone	38.00	68.00	30.00	68.00	39.00	32.50	84.60	150	150	0.00	18.00	0.00	18.00	18.00
4542	2526	Mumbwa	64.00	schist	18.00	5.00	32.00	58.00	18.00	4.50	2.66	150	150	0.00	11.00	40.00	51.00	51.00
4543	2201	Mumbwa	60.00	undstone	30.00	36.00	6.00	30.00	21.00	15.00	55.00	150	150	0.00	10.00	19.00	29.00	29.00
4544	2068	Mumbwa	58.00	limestone	24.00	30.00	6.00	24.00	15.00	1.40	11.70	150	150	0.00	10.00	48.40	58.40	58.40
4545	1897	Mumbwa	70.00	schist	21.00	52.00	31.00	21.00	10.00	2.90	10.90	150	150	0.00	10.50	42.50	63.00	63.00
4546	1866	Mumbwa	75.00	gneiss	15.00	45.00	30.00	15.00	7.00	7.30	70.00	150	150	0.00	6.75	3.00	9.75	9.75
4547	1833	Mumbwa	69.50	schist	35.00	45.55	12.55	45.55	33.00	24.20	99.40	150	150	0.00	18.30	51.00	69.50	69.50
4548	1643-1	Mumbwa	45.72	schist	21.00	36.00	15.00	21.00	15.00	8.00	32.00	150	150	0.00	10.00	30.80	45.80	45.80
4549	1646	Mumbwa	45.00	limestone	6.00	45.00	39.00	6.00	6.00	4.40	42.00	150	150	0.00	6.00	6.00	12.00	12.00
4550	1645	Mumbwa	45.00	shale	5.00	65.00	50.00	5.00	5.00	2.90	65.30	150	150	0.00	24.00	6.00	30.00	30.00
4551	1644	Mumbwa	45.00	limestone	24.00	45.00	21.00	24.00	24.00	23.50	0.00	150	150	0.00	6.00	3.00	9.00	9.00
4552	1642	Mumbwa	55.00	schist	5.00	55.00	50.00	5.00	5.00	2.70	3.89	150	150	0.00	6.00	6.00	25.90	25.90
4553	963-1	Mumbwa	36.00	schist	21.00	30.00	9.00	30.00	21.00	6.70	33.00	150	150	0.00	20.10	0.00	20.10	20.10
4554	917-5	Mumbwa	61.00	limestone	39.60	55.00	15.40	55.00	39.60	28.30	6.11	150	150	0.00	10.00	17.43	27.43	27.43
4555	946-1	Mumbwa	70.00	schist	30.00	65.00	35.00	30.00	22.00	8.50	7.60	150	150	0.00	3.00	20.70	39.62	39.62
4556	963-2	Mumbwa	52.00	schist	18.00	42.00	24.00	42.00	18.00	6.70	9.60	150	150	0.00	21.00	18.62	39.62	39.62
4557	917-6	Mumbwa	61.00	igneous roc	34.00	55.00	21.00	55.00	34.00	30.00	12.70	150	150	0.00	6.00	9.00	15.00	15.00
4558	SEK 01	Serenje	44.00	quartzite	18.00	21.00	3.00	18.00	12.00	26.00	1.70	150	150	0.00	6.00	2.00	8.00	8.00
4559	SEK 02	Serenje	60.00	granite	33.00	42.00	9.00	33.00	7.00	3.20	0.66	150	150	0.00	7.60	2.00	9.60	9.60
4560	SEK 03	Serenje	46.00	granite	10.00	18.00	8.00	10.00	3.00	0.00	0.00	150	150	0.00	15.30	25.00	40.30	40.30
4561	2783	Serenje	40.00	schist	10.00	30.00	20.00	30.00	10.00	6.00	5.76	150	150	0.00	25.00	15.00	40.00	40.00
4562	2992-1	Serenje	40.00	sandstone	25.00	30.00	5.00	30.00	25.00	23.00	10.60	150	150	0.00	27.50	12.00	39.50	39.50
4563	2921-6	Serenje	40.00	sandstone	27.40	40.00	12.60	0.00	27.40	22.20	0.95	150	150	0.00	21.00	20.00	41.00	41.00
4564	2259-6	Serenje	40.00	granite	20.00	25.00	5.00	25.00	20.00	9.00	10.50	150	150	0.00	15.00	15.00	30.00	30.00
4565	2259-7	Serenje	40.00	granite	10.00	30.00	20.00	30.00	10.00	6.00	1.90	150	150	0.00	6.00	6.00	25.00	25.00
4566	2728-1	Serenje	75.00	granite	25.00	45.00	20.00	25.00	7.00	6.00	1.53	150	150	0.00	15.00	15.00	30.00	30.00
4567	2562-1	Serenje	45.00	granite	7.00	32.00	25.00	32.00	7.00	3.61	39.00	150	150	0.00	10.00	25.00	35.00	35.00
4568	2224	Serenje	30.00	granite	24.00	33.00	9.00	33.00	15.00	10.00	2.70	150	150	0.00	13.00	18.00	31.00	31.00
4569	2223	Serenje	45.00	granite	21.00	30.00	9.00	21.00	15.00	10.00	2.19	150	150	0.00	7.15	11.00	18.15	18.15
4570	1866	Serenje	75.00	granite	25.00	36.00	11.00	25.36	15.00	70.00	1.73	150	150	0.00	20.00	23.00	43.00	43.00
4571	1805	Serenje	80.00	granite	15.00	40.00	25.00	40.66	15.00	10.00	3.95	150	150	0.00	6.40	18.60	25.00	25.00
4572	1783	Serenje	80.00	quartzite	55.00	70.00	15.00	55.00	32.00	26.60	1.30	150	150	0.00	20.00	23.00	43.00	43.00
4573	1726	Serenje	65.00	granite	48.00	57.00	9.00	48.57	11.00	0.00	2.34	150	150	0.00	6.00	18.60	25.00	25.00
4574	1725	Serenje	65.00	schist	35.60	55.00	19.40	55.00	35.60	21.50	0.45	150	150	0.00	35.00	22.00	57.00	57.00
4575	1727	Serenje	65.00	granite	36.00	57.00	21.00	36.00	21.00	0.00	4.64	150	150	0.00	16.50	43.00	60.00	60.00
4576	3480	Kabwe-Rural	60.00	granite	20.00	33.00	13.00	33.00	20.00	17.00	35.60	150	150	0.00	12.00	0.00	12.00	12.00
4577	2850	Kabwe-Rural	75.00	granite	30.00	50.00	20.00	30.00	6.00	2.50	8.00	200	200	0.00	16.00	19.00	35.00	35.00
4578	2921-3	Kabwe-Urban	40.00	schist	26.00	33.00	7.00	33.00	26.00	20.00	13.80	150	150	0.00	6.00	6.00	12.00	12.00
4579	2259-5	Kabwe-Urban	40.00	granite	6.00	30.00	24.00	30.00	6.00	4.00	0.00	150	150	0.00	14.30	15.30	29.60	29.60
4580	2310	Muashi	50.00	schist	9.10	15.20	6.10	15.20	9.10	4.10	0.29	150	150	0.00	6.00	6.00	12.00	12.00
4581	2742	Muashi	30.00	granite	20.00	30.00	10.00	30.00	20.00	6.00	0.00	150	150	0.00	21.00	9.00	30.00	30.00
4582	KB 06	Kabwe-Rural	55.00	limestone	9.00	17.00	8.00	36.00	30.00	21.10	0.00	152	152	0.00	9.00	18.00	30.00	30.00
4583	KB 03	Kabwe-Rural	37.00	gneiss	18.00	24.00	6.00	18.00	18.00	13.50	1.55	150	150	0.00	12.00	12.00	24.00	24.00
4584	KB 04	Kabwe-Urban	37.00	schist	18.00	20.00	2.00	18.00	18.24	7.60	10.50	150	150	0.00	9.00	9.00	24.00	24.00
4585	3913-1	Kabwe-Urban	50.00	schist	21.30	30.50	9.20	30.50	21.30	12.20	2.60	150	150	0.00	24.40	21.30	45.70	45.70
4586	3913-1	Kabwe-Urban	34.00	schist	0.00	0.00	0.00	30.50	21.30	12.20	2.60	150	150	0.00	24.40	21.30	45.70	45.70
4587	2086	Kabwe-Urban	62.00	granite	35.00	0.00	35.00	0.00	35.00	10.00	2.20	150	150	0.00	9.00	9.00	15.00	15.00
4588	1972-0	Kabwe-Urban	30.00	limestone	21.00	27.00	6.00	27.00	21.00	13.50	3.46	150	150	0.00	25.00	5.00	30.00	30.00
4589	200810	Kabwe-Urban	79.00	limestone	42.00	43.00	1.00	28.00	52.00	42.30	2.24	150	150	0.00	21.00	6.00	27.00	27.00
4590	200711	Kabwe-Urban	48.00	granite	21.00	24.00	3.00	24.00	21.00	11.00	13.00	150	150	0.00	21.00	21.00	48.00	48.00

Input No	Borehole No	District	Total Depth (m)	Lithology	Thickness of main Aquifer			Groundwater Depth		Yield (l/s)	Specific Capacity (m ³ /day)	Depth of Pump Intake (G.L.-m)	Plan Casing		Perforated Casing		Depth of Bottom of Casing (G.L.-m)
					From (G.L.-m)	to (G.L.-m)	Total Thickness (m)	Main Supply (G.L.-m)	First Struck (G.L.-m)	Static (G.L.-m)			From (G.L.-m)	to (G.L.-m)	From (G.L.-m)	to (G.L.-m)	
4591	200311	Kabwe-Urbar	48.00	schist	22.23	30.00	7.77	30.00	22.23	20.00	0.70	8.28	0.00	21.00	12.00	33.00	33.00
4592	2016	Kabwe-Urbar	86.00	schist	30.00	31.00	1.00	0.00	30.00	3.30	0.23	0.57	0.00	27.00	8.00	35.00	35.00
4593	2003-0	Kabwe-Urbar	50.00	sand	0.00	20.00	0.00	0.00	20.00	15.30	0.12	0.32	0.00	18.00	3.00	21.00	21.00
4594	2011	Kabwe-Urbar	50.00		0.00	9.00	0.00	0.00	9.00	6.00	0.80	4.07	0.00	13.00	8.00	21.00	21.00
4595	2009	Kabwe-Urbar	42.00	limestone	22.00	24.00	2.00	24.00	22.00	17.00	0.50	6.17	0.00	8.00	15.00	23.00	23.00
4596	1877	Kabwe-Urbar	45.00	limestone	12.00	17.00	5.00	12.00	4.00	1.60	8.60	143.00	0.00	3.00	18.00	21.00	21.00
4597	36291-1	Kabwe-Urbar	28.00	schist	4.60	20.00	16.40	20.00	4.60	2.60	1.80	7.27	0.00	7.90	15.20	23.10	23.10
4598	3673-1	Kabwe-Urbar	60.00	schist	30.00	42.00	12.00	45.00	30.00	6.70	0.87	2.09	0.00	8.20	24.30	32.50	32.50
4599	3673-2	Kabwe-Rural	90.00	schist	28.00	67.00	39.00	28.00	24.00	7.60	0.31	0.72	0.00	24.40	9.10	33.50	33.50
4600	142532	Kabwe-Urbar	36.60	limestone	0.00	27.40	0.00	27.40	21.30	0.00	2.00	5.08	0.00	9.10	18.30	36.60	36.60
4601	3271-4	Kabwe-Rural	48.80	schist	14.10	30.50	16.40	30.50	14.10	11.60	2.25	6.66	0.00	12.20	18.30	30.50	30.50
4602	3412-1	Kabwe-Rural	70.00	schist	24.70	42.00	20.30	24.70	12.20	6.40	2.00	4.76	0.00	7.60	24.40	32.00	32.00
4603	1799-4	Kabwe-Urbar	50.00	limestone	14.60	14.60	0.00	14.60	14.60	4.50	51.80	45.00	0.00	14.60	9.00	23.60	23.60

DB-4

Current Water Use Data

DB-4-1 Water Supply Project Data Records

DB-4-2 Water Rights by Province

DB-4-1 Water Supply Project Data Records

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **LUSAKA WATER SUPPLY** Township : **VARIOUS** Record No. : **1**
District : **LUSAKA-URBAN** Province : **LUSAKA**

General

Managing Body : **Company**
Population Served : **900,000** Total Population : **1,200,000**
Design Capacity : **210,000** Current Supply : **190,000** Future Supply : **495,000**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **RAPID FILTER** c)
Other :
Chemical Treatment : a) **CHLORINE** b)
Other : **LIME**
State of Operation : **FULL TIME** From : To :
Reasons : a) b) c)
Other :
Condition of Treatment Facility : **POOR** Comments :

Distribution System : Piped supply : **500,000** Communal supply : **400,000**
Secondary Water Use : Irrigation : -- Industrial water : --
Water Tariff Structure : **MAJOR CUSTOMERS METERED**

Planned Rehabilitation : **YES**
Describe : **Lusaka Water Supply Project funded by (ADB). The project will rehabilitate the boreholes, booster pumps and the distribution system.**

Planned Expansion : **YES**
Describe : **Kafue River water supply.**

Surface Water Project

Water Right No : Date of Issue : Name of Holder : **LUSAKA CITY COUNCIL**
Tributary : **KAFUE** River : **KAFUE** Amount : **180000**

Type of Intake Facility : **PUMPS**

Dam type : Dam height : Dam length : Capacity :
Weir type : Weir height : Weir length : Intake rate :
Pump type : Pump lift : Power :
Pumping rate :
Other Facility :
Name of Facility :
Condition of Intake Facility : **FAIR** Comments : **REHABILITATED 1986**

Groundwater Project

Name of Wellfield : **VARIOUS**
Number of Wells : Total Production : **100,000**

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **LUANGWA WATER SUPPLY**
District : **LUANGWA** Province : **LUSAKA**

Township : **LUANGWA** Record No. : **2**

General

Managing Body : **DWA**
Population Served : **1,100** Total Population : **2,000**
Design Capacity : **550** Current Supply : **550** Future Supply : **--**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **RAPID FILTER** c)
Other : **DISINFECTING**
Chemical Treatment : a) **CHLORINE** b) **ALUM**
Other :
State of Operation : **PART TIME** From : **05** To : **20**
Reasons : a) **CHEMICALS** b) **LABOUR** c) **FUNDS**
Other : **ADEQUATE**
Condition of Treatment Facility : **FAIR** Comments :

Distribution System : **Piped supply : 166** **Communal supply : 8**
Secondary Water Use : **Irrigation : --** **Industrial water : 38**
Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **NO**
Describe :

Planned Expansion : **NO**
Describe :

Surface Water Project

Water Right No : Date of Issue : Name of Holder :
Tributary : River : Amount :

Type of Intake Facility : **PUMP**

Dam type : Dam height : Dam length : Capacity :
Weir type : Weir height : Weir length : Intake rate :
Pump type : **SUBMERGIBLE** Pump lift : Power : **31.0 KW**
Pumping rate : **10 L/SEC**

Other Facility :
Name of Facility :
Condition of Intake Facility : **FAIR** Comments :

Groundwater Project

Name of Wellfield :
Number of Wells : Total Production :

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : NDOLA CITY COUNCIL

Township : NDOLA

Record No. : 3

District : NDOLA-URBAN

Province : COPPERBELT

General

Managing Body : COUNCIL

Population Served : 600,000

Total Population : 620,000

Design Capacity : 212,800

Current Supply : 147,000

Future Supply : --

Water Treatment

Water Treatment Facility : a) SEDIMENTATION b) RAPID FILTER c)

Other : CHLORINATE

Chemical Treatment :

a) CHLORINE

b) ALUM

Other : LIME

State of Operation :

FULL TIME

From :

To :

Reasons :

a)

b)

c)

Other :

Condition of Treatment Facility : POOR

Comments :

Distribution System :

Piped supply : 450,000

Communal supply : 150,000

Secondary Water Use :

Irrigation : --

Industrial water : 25,000

Water Tariff Structure :

MAJOR CONSUMERS METERED

Planned Rehabilitation :

YES

Describe :

Two of the water treatment plants are in a deplorable state and are therefore in need of rehabilitation - works to be financed by the World Bank.

Planned Expansion :

YES

Describe :

Bwana Mkubwa Water Supply Project has been designed and all paperwork has been done, but only awaiting funding for the work to start off.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

KAFUBU

River :

KAFUE

Amount :

Type of Intake Facility : DAM

Dam type : CONCRETE

Dam height : 4M

Dam length : 165M

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : CENTRIFUGAL

Pump lift :

Power : 375.0 KW

Pumping rate :

948.0 L/SEC

Other Facility :

5 HIGH LIFT PUMPS

Name of Facility :

Condition of Intake Facility : FAIR

Comments :

Groundwater Project

Name of Wellfield :

MISUNDU - KANYANJE

Number of Wells :

21

Total Production : 100,000

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **CHILILABOMBWE M. COUNCIL** Township : Chililabombwe Record No. : 4
District : NDOLA-RURAL Province : COPPERBELT

General

Managing Body : **COUNCIL**
Population Served : **25,000** Total Population : **87,000**
Design Capacity : **14,400** Current Supply : **4,175** Future Supply : **--**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **RAPID FILTER** c) **Other :**
Chemical Treatment : a) **CHLORINE** b) **ALUM**
Other : **H. LIME**
State of Operation : **PART TIME** From : **05** To : **19**
Reasons : a) **b) c)**
Other : **HIGH DEMAND & LOW SUPPLY**
Condition of Treatment Facility : **POOR** Comments : **OLD AGE OF MACHINERY**

Distribution System : **Piped supply : 17,000** **Communal supply : 8,000**
Secondary Water Use : **Irrigation : --** **Industrial water : --**
Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **YES**
Describe : **To replace old pumps with new ones. Change both gravity and pumping mains with durable ones.**

Planned Expansion : **YES**
Describe : **To increase the number of pumps and construction of another water reservoir.**

Surface Water Project

Water Right No : **Date of Issue :** **Name of Holder :**
Tributary : **River :** **Amount :**

Type of Intake Facility : **PUMP**

Dam type : **Dam height :** **Dam length :** **Capacity :**
Weir type : **Weir height :** **Weir length :** **Intake rate :**
Pump type : **HARLANDAM** **Pump lift : 50M** **Power :**
Pumping rate : **76.0 L/SEC**
Other Facility : **Name of Facility :**
Condition of Intake Facility : **POOR** Comments : **OLD AGE OF MACHINERY**

Groundwater Project

Name of Wellfield : **Total Production : 19,000**
Number of Wells :

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **CMC-KAFUE WATER WORK** Township : **CHINGOLA** Record No. : **5**
District : **CHINGOLA** Province : **COPPERBELT**

General

Managing Body : **COUNCIL**
Population Served : **218,000** Total Population : **218,000**
Design Capacity : **30,000** Current Supply : **220,000** Future Supply : **6,000**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **RAPID FILTER** c)
Other :
Chemical Treatment : a) **CHLORINE** b) **ALUM**
Other : **LIME, MAGNO**
State of Operation : **FULL TIME** From : To :
Reasons : a) b) c)
Other :
Condition of Treatment Facility : **POOR** Comments :

Distribution System : Piped supply : **206,608** Communal supply : **11,392**
Secondary Water Use : Irrigation : **--** Industrial water : **--**
Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **NO**
Describe :

Planned Expansion : **YES**
Describe : **Phase II & III are each planned to produce 30,000m³/day.**

Surface Water Project

Water Right No : Date of Issue : Name of Holder :
Tributary : River : **KAFUE** Amount : **90,000**

Type of Intake Facility : **PUMP**

Dam type : Dam height : Dam length : Capacity :
Weir type : Weir height : Weir length : Intake rate :
Pump type : **B2250** Pump lift : **2M** Power : **50.0 KW**
Pumping rate : **320.0 L/SEC**
Other Facility :
Name of Facility :
Condition of Intake Facility : **FAIR** Comments : **MODIFIED INTAKE**

Groundwater Project

Name of Wellfield :
Number of Wells : Total Production :

Additional Information

Underdeveloped t/ships & peri-urban areas have a total of 108 wells planned project not on due to lack of funds to drill wells & equip wells. The other information was referred to the Ministry of E&WD. Paid No.751543. Dated 10.11.93

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **KITWE CITY COUNCIL** Township : **KITWE** Record No. : **6**
 District : **KITWE** Province : **COPPERBELT**

General

Managing Body : **COUNCIL**
 Population Served : **222,000** Total Population : **400,000**
 Design Capacity : **81,800** Current Supply : **54,550** Future Supply : **113,586**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **RAPID FILTER** c)
 Other :
 Chemical Treatment : a) **CHLORINE** b) **ALUM**
 Other : **LIME**
 State of Operation : **PART TIME** From : **05** To : **12**
 Reasons : a) **SPARES** b) **FUNDS** c)
 Other : **INSUFFICIENT PUMP**
 Condition of Treatment Facility : **POOR** Comments : **PUMPS OUTLIVED USE**

Distribution System : Piped supply : **156,000** Communal supply : **66,000**
 Secondary Water Use : Irrigation : **--** Industrial water : **--**
 Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **YES**
 Describe : **Rehabilitation of the water treatment plants, rising mains, reservoirs and distribution mains.**

Planned Expansion : **YES**
 Describe : **New water works to supply a further 32 million litres per day.**

Surface Water Project

Water Right No : Date of Issue : Name of Holder :
 Tributary : **KAFUE** River : **KAFUE** Amount :

Type of Intake Facility : **PUMP**

Dam type : Dam height : Dam length : Capacity :
 Weir type : Weir height : Weir length : Intake rate :
 Pump type : **SNR 14** Pump lift : **13M** Power : **112.0 KW**
 Pumping rate : **353.0 L/SEC**
 Other Facility : **PUMP TYPE SNA14**
 Name of Facility : **HARLAND**
 Condition of Intake Facility : **POOR** Comments :

Groundwater Project

Name of Wellfield :
 Number of Wells : Total Production :

Additional Information

Mwambashi is another small treatment centre with design capacity of 18000m³/day and water supply 600m³/day. Water treatment facility is sedimentation & rapid filter, chemicals are chlorine, aluminium sulphate & lime. Operation

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **WATER SUPPLY IMPROVEMENT** Township : **LUANSHYA** Record No. : **7**
District : **LUANSHYA** Province : **COPPERBELT**

General

Managing Body : **COUNCIL**
Population Served : **120,000** Total Population : **200,000**
Design Capacity : **13,900** Current Supply : **12,400** Future Supply : **27,600**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **RAPID FILTER** c)
Other :
Chemical Treatment : a) **CHLORINE** b) **ALUM**
Other : **HYDRATE LIME**
State of Operation : **FULL TIME** From : To :
Reasons : a) b) c)
Other :
Condition of Treatment Facility : **POOR** Comments :
Distribution System : Piped supply : **118,800** Communal supply : **1,200**
Secondary Water Use : Irrigation : **--** Industrial water : **360**
Water Tariff Structure : **FLAT RATE**
Planned Rehabilitation : **YES**
Describe : **Pumps and motors. Flow recorders. Filter nozzles and valves. Chemical dosers. Raw water pipe from Kafubu River. Distribution system.**
Planned Expansion : **YES**
Describe : **Raw water pipe capacity from Kafubu River. Pump capacity at Kafubu River. Sedimentation, filtration, chemical doser, treated water storage reservoirs and distribution capacities.**

Surface Water Project

Water Right No : **2199** Date of Issue : Name of Holder : **LUANSHYA M. COUNCIL**
Tributary : **BEERHALL/S.** River : **KAFUBU** Amount : **2,875**
Type of Intake Facility : **DAM**
Dam type : **EARTH FILL** Dam height : **8M** Dam length : **381M** Capacity : **491,500**
Weir type : **BROAD CRES** Weir height : **3M** Weir length : **31M** Intake rate : **22,300**
Pump type : **CENTRIFUGAL** Pump lift : **3M** Power : **55.0 KW**
Pumping rate : **70.0 L/SEC**
Other Facility :
Name of Facility : **MIKOMFWA**
Condition of Intake Facility : **POOR** Comments :

Groundwater Project

Name of Wellfield :
Number of Wells : Total Production :

Additional Information

Existing Infrastructure badly runs due to lack of spares and regular maintenance. Replacement done only when complete breakdown, some equipment so old rendered obsolete. As a result lower performance capacity causing erratic supply.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **CHILILABOMBWE T/SHIP** Township : **KAMENZA** Record No. : **8**
 District : **CHILILABOMBWE** Province : **COPPERBELT**

General

Managing Body : **MINE**
 Population Served : **28,000** Total Population : **80,000**
 Design Capacity : **50,000** Current Supply : **30,000** Future Supply : **5,000**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) c)
 Other : **OPEN SAND**
 Chemical Treatment : a) **CHLORINE** b)
 Other :
 State of Operation : **FULL TIME** From : To :
 Reasons : a) b) c)
 Other :
 Condition of Treatment Facility : **GOOD** Comments :

Distribution System : Piped supply : **28,000** Communal supply : --
 Secondary Water Use : Irrigation : **2,000** Industrial water : **8,000**
 Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **YES**
 Describe : **Filter bed rehabilitation.**

Planned Expansion : **YES**
 Describe : **Increase raw water to WTP by pumping U/G water from No. 1 Shaft.**

Surface Water Project

Water Right No : Date of Issue : Name of Holder :
 Tributary : River : Amount :

Type of Intake Facility : **PUMP**

Dam type : Dam height : Dam length : Capacity :
 Weir type : **CONCRETE** Weir height : **5M** Weir length : **30M** Intake rate :
 Pump type : **SUBMERGIBLE** Pump lift : **3M** Power : **60.0 KW**
 Pumping rate : **120.0 L/SEC**

Other Facility :
 Name of Facility :
 Condition of Intake Facility : **GOOD** Comments :

Groundwater Project

Name of Wellfield :
 Number of Wells : Total Production :

Additional Information

1. At present all water is drawn from Kafue River at 7km away. 2. Mine farm & golf club is supplied with both raw water for irrigation & potable water which is pressured, sand filtered & chlorinated. 3. To increase supply, U/G

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **KONKOLA TOWNSHIP WATER** Township : **KONKOLA** Record No. : **9**
District : **CHILILABOMBWE** Province : **COPPERBELT**

General

Managing Body : **MINE**
Population Served : **3,000** Total Population : **3,000**
Design Capacity : **10,000** Current Supply : **10,000** Future Supply : **10,000**

Water Treatment

Water Treatment Facility : a) **SLOW FILTER** b) c)
Other :
Chemical Treatment : a) **CHLORINE** b)
Other :
State of Operation : **FULL TIME** From : To :
Reasons : a) b) c)
Other :
Condition of Treatment Facility : **GOOD** Comments :

Distribution System : Piped supply : -- Communal supply : --
Secondary Water Use : Irrigation : -- Industrial water : --
Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **YES**
Describe : Pipeline and pumps updated recently. Commissioning in progress.

Planned Expansion : **NO**
Describe :

Surface Water Project

Water Right No : Date of Issue : Name of Holder :
Tributary : River : Amount :

Type of Intake Facility :

Dam type : Dam height : Dam length : Capacity :
Weir type : Weir height : **5M** Weir length : **30M** Intake rate :
Pump type : **SUBMERSIBLE** Pump lift : **5M** Power : **30.0 KW**
Pumping rate : **40.0 L/SEC**
Other Facility :
Name of Facility :
Condition of Intake Facility : **GOOD** Comments :

Groundwater Project

Name of Wellfield :
Number of Wells : Total Production :

Additional Information

Water is drawn from Mingomba stream and pumped 4km away to a water treatment plant, close to Konkola. During severe drought water from Lubengele dam is used. Water is treated prior to shifting it to intake pumps. No problems

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **NCHANGA**

Township : **MINE**

Record No. : **10**

District : **CHINGOLA**

Province : **COPPERBELT**

General

Managing Body : **MINE**

Population Served : **100,000**

Total Population :

Design Capacity : **45,000**

Current Supply : **45,000**

Future Supply : **90,000**

Water Treatment

Water Treatment Facility :

a) **RAPID FILTER**

b)

c)

Other :

Chemical Treatment :

a) **CHLORINE**

b)

Other :

State of Operation :

FULL TIME

From :

To :

Reasons :

a)

b)

c)

Other :

Condition of Treatment Facility : **FAIR**

Comments :

Distribution System :

Piped supply : **100,000**

Communal supply : **--**

Secondary Water Use :

Irrigation : **--**

Industrial water : **--**

Water Tariff Structure :

Planned Rehabilitation :

YES

Describe :

Filters overhaul and pump overhaul.

Planned Expansion :

YES

Describe :

To double capacity.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder : **ZCCM**

Tributary : **KAFUE**

River :

KAFUE

Amount :

Type of Intake Facility : **PUMP**

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : **WORTHINGTON**

Pump lift : **10M**

Power : **600.0 KW**

Pumping rate :

120.0 L/SEC

Other Facility :

Name of Facility :

KAFUE PUMP CHANT

Condition of Intake Facility :

GOOD

Comments :

Groundwater Project

Name of Wellfield :

UNDERGROUND WATER SUPPLY

Number of Wells :

70

Total Production : **70,000**

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : MUFULIRA MINE

Township :

Record No. : 11

District : MUFULIRA

Province : COPPERBELT

General

Managing Body : MINE

Population Served : 110,000

Design Capacity : 67,000

Total Population :

Current Supply : 48,000

Future Supply : 80,000

Water Treatment

Water Treatment Facility : a) SLOW FILTER b) RAPID FILTER c)

Other :

Chemical Treatment :

a) CHLORINE

b) ALUM

Other :

State of Operation :

FULL TIME

From :

To :

Reasons :

a)

b)

c)

Other :

Condition of Treatment Facility : GOOD

Comments : LACK OF RAW INPUT WATER

Distribution System :

Piped supply : 110,000

Communal supply : --

Secondary Water Use :

Irrigation : 53,000

Industrial water : --

Water Tariff Structure :

FLAT RATE

Planned Rehabilitation :

YES

Describe :

Replacement of obsolete pump sets and rehabilitation of degremont filters.

Planned Expansion :

YES

Describe :

Expansion of flocculation tanks from current 28,000m³/day to 40,000m³/day to meet demand.

Surface Water Project

Water Right No : 2125

Date of Issue : 01/01/92

Name of Holder : ZCCM

Tributary : MUFULIRA

River : KAFUE

Amount : 40,000

Type of Intake Facility : DAM

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : WEIR

Pump lift : 15M

Power : 265.0 KW

Pumping rate :

125.0 L/SEC

Other Facility :

Name of Facility :

MUFULIRA MINE WATER

Condition of Intake Facility : GOOD

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production : 90,000

Additional Information

Domestic water supply

(lower dolomite aquifer)

18,500m³/day - 2 year average

Industrial

(various aquifer & service water)

67,164m³/day

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **CHIBULUMA MINE**

Township : **KALULUSHI** Record No. : **12**

District : **KALULUSHI**

Province : **COPPERBELT**

General

Managing Body : **MINE & COUNCIL**

Population Served : **30,000** Total Population : **150,000**

Design Capacity : **18** Current Supply : **11** Future Supply : **34**

Water Treatment

Water Treatment Facility : a) **PRESS. FILTER** b) c)

Other :

Chemical Treatment : a) **CHLORINE** b)

Other : **LIME**

State of Operation : **FULL TIME**

From : To :

Reasons : a) b) c)

Other :

Condition of Treatment Facility : **FAIR**

Comments : **NO PROPER TREATMENT**

Distribution System : Piped supply : **20,000**

Communal supply : **10,000**

Secondary Water Use : Irrigation : **--**

Industrial water : **--**

Water Tariff Structure : **ALL METERED**

Planned Rehabilitation : **YES**

Describe : **Construction of rapid sand filters.**

Planned Expansion : **NO**

Describe :

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility : **DAM**

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type :

Pump lift :

Power :

Pumping rate :

Other Facility :

Name of Facility :

Condition of Intake Facility :

Comments :

Groundwater Project

Name of Wellfield :

ZCCM CHIBULUMA MINE

Number of Wells :

Total Production : **18**

Additional Information

Kalulushi. M. Council gets its water from ZCCM and it is under ground water supply. This water is not properly treated and there is need for Council to have its own water works. ZCCM may close the mine anytime it feels production

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **NKANA NEW & OLD WATER** Township : **VARIOUS** Record No. : **13**
District : **KITWE** Province : **COPPERBELT**

General

Managing Body : **MINE**
Population Served : **146,062** Total Population :
Design Capacity : **72,727** Current Supply : **81,818** Future Supply : **100,000**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **RAPID FILTER** c)
Other :
Chemical Treatment : a) **CHLORINE** b) **ALUM**
Other :
State of Operation : **FULL TIME** From : To :
Reasons : a) b) c)
Other :

Condition of Treatment Facility : **FAIR** Comments :

Distribution System : Piped supply : **134,412** Communal supply : **11,650**
Secondary Water Use : Irrigation : **25,394** Industrial water : **--**
Water Tariff Structure :

Planned Rehabilitation : **YES**
Describe : **Upgrading of new water treatment plant and raw water intake at Kafue Pump Station (replacement of existing pumping facilities).**

Planned Expansion : **YES**
Describe : **Upgrading of raw water pumps at Kafue and expansion of the new water treatment plant. Also upgrading of pumping facilities at N.W.T.P.**

Surface Water Project

Water Right No. : **2705** Date of Issue : Name of Holder : **ZCCM**
Tributary : River : **KAFUE** Amount :

Type of Intake Facility : **WEIR**

Dam type : Dam height : Dam length : Capacity :
Weir type : **GRAVITY OV** Weir height : **4M** Weir length : **12M** Intake rate :
Pump type : **CENTRIFUGAL** Pump lift : Power : **166.5 KW**
Pumping rate : **621.8 L/SEC**
Other Facility :
Name of Facility :
Condition of Intake Facility : **FAIR** Comments :

Groundwater Project

Name of Wellfield :
Number of Wells : Total Production :

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **MAKOMA WATER WORKS**

Township : **MINE**

Record No. : **14**

District : **LUANSHYA**

Province : **COPPERBELT**

General

Managing Body : **MINE**

Population Served : **90,000**

Design Capacity : **36,368**

Total Population : **90,000**

Current Supply : **33,000**

Future Supply : **50,000**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **RAPID FILTER** c)

Other : **COAGULATION**

Chemical Treatment : a) **CHLORINE** b) **ALUM**

Other : **LIME**

State of Operation : **FULL TIME**

From : To :

Reasons : a) b) c)

Other :

Condition of Treatment Facility : **GOOD**

Comments :

Distribution System : Piped supply : **90,000**

Communal supply : **--**

Secondary Water Use : Irrigation : **18,000**

Industrial water : **24,000**

Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **NO**

Describe :

Planned Expansion : **YES**

Describe :

Additional three filters under construction.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility : **WEIR**

Dam type :

Dam height :

Dam length :

Capacity :

Weir type : **RECTANGULAR**

Weir height : **6M**

Weir length : **30M**

Intake rate :

Pump type : **WEIR X 3**

Pump lift :

Power : **185.0 KW**

Pumping rate : **369.0 L/SEC**

Other Facility :

Name of Facility :

Condition of Intake Facility : **GOOD**

Comments : **REGULAR MAINTENANCE**

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

Ground water is obtained from mine shaft No. 28. An approximate flow of 900m per day is pumped to the water works.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **MASAITI**

Township :

Record No. : 15

District :

Province : **COPPERBELT**

General

Managing Body : **DWA**

Population Served : **2,000**

Design Capacity : **1,460**

Total Population : **3,000**

Current Supply : **1,125**

Future Supply : **1,533**

Water Treatment

Water Treatment Facility : a) **SLOW FILTER** b) c)

Other :

Chemical Treatment : a) **CHLORINE** b)

Other :

State of Operation : **FULL TIME**

From : To :

Reasons :

a) b) c)

Other :

Condition of Treatment Facility : **FAIR**

Comments :

Distribution System : Piped supply : **1,850**

Communal supply : **150**

Secondary Water Use : Irrigation : **337**

Industrial water : --

Water Tariff Structure : **MAJOR CONSUMERS METERED**

Planned Rehabilitation : **YES**

Describe :

Resanding of filters. Replacement of 1 no. SNC 1½ pump for the Boma.

Replacement of A.C. 5" rising main to farm institute with A.C. 6" pipes.

Planned Expansion : **YES**

Describe :

Purchase of SNB4 new pump for wet well. Expansion of distribution system to cater for surrounding villages.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary : **KAFULAFUTA**

River :

KAFUE

Amount :

Type of Intake Facility :

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : **WEIR-SNB4**

Pump lift : **4M**

Power : **19.0 KW**

Pumping rate :

10.0 L/SEC

Other Facility :

Name of Facility :

WET WELL

Condition of Intake Facility : **FAIR**

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **KAMFINS**

Township :

Record No. : 16

District :

Province : **COPPERBELT**

General

Managing Body : **DWA**

Population Served : **6,000**

Design Capacity : **3,470**

Total Population : **8,400**

Current Supply : **2,670**

Future Supply : **3,650**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **RAPID FILTER** c)

Other :

Chemical Treatment : a) **CHLORINE** b) **ALUM**

Other :

State of Operation : **FULL TIME**

From : To :

Reasons :

a)

b)

c)

Other :

Condition of Treatment Facility : **FAIR**

Comments :

Distribution System : Piped supply : **6,000**

Communal supply : --

Secondary Water Use : Irrigation : **800**

Industrial water : --

Water Tariff Structure : **ALL METERED**

Planned Rehabilitation : **YES**

Describe :

Replacement of 2 no. SNB4 pumps and 2 no. 50 HP motors for low lift, repair to dam spillway, replacement of 2 no. 50 HP motors for high lift.

Planned Expansion : **YES**

Describe :

Improve distribution system.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary : **KAMFINS**

River :

KAFUE

Amount :

Type of Intake Facility :

Dam type : **EARTH**

Dam height : **12M**

Dam length : **200M**

Capacity : **500,000**

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type :

Pump lift :

Power :

Pumping rate :

Other Facility :

Name of Facility :

WATER FLOW BY GRAVITY

Condition of Intake Facility : **GOOD**

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

Water flows by gravity through a pipe to the sedimentation tank.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **KASUMBALESA**

Township :

Record No. : 17

District :

Province : COPPERBELT

General

Managing Body : DWA

Population Served : 200

Design Capacity : 138

Total Population : 625

Current Supply : 50

Future Supply : 145

Water Treatment

Water Treatment Facility :

a) NONE

b)

c)

Other :

Chemical Treatment :

a) CHLORINE

b)

Other :

State of Operation :

PART TIME

From : 06

To : 20

Reasons :

a) ADEQUATE

b)

c)

Other :

Condition of Treatment Facility : FAIR

Comments :

Distribution System :

Piped supply : --

Communal supply : --

Secondary Water Use :

Irrigation : --

Industrial water : --

Water Tariff Structure :

FLAT RATE

Planned Rehabilitation :

YES

Describe :

Replacement of rotten timber tank slab, replacement of tanks, painting of tankstand and tanks.

Planned Expansion :

YES

Describe :

Drilling of another borehole and equipping it with a submersible pump.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility : PUMP

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : PLEUGER

Pump lift : 58M

Power : 2.0 KW

Pumping rate :

1.0 L/SEC

Other Facility :

Name of Facility :

BOREHOLE EQUIPPED

Condition of Intake Facility :

Comments :

PUMP HOUSE VANDALISED

Groundwater Project

Name of Wellfield :

KASUMBALESA

Number of Wells :

1

Total Production : 138

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : MOKAMBO

Township :

Record No. : 18

District :

Province : COPPERBELT

General

Managing Body : DWA

Population Served : 500

Total Population : 2,600

Design Capacity : 430

Current Supply : 160

Future Supply : 450

Water Treatment

Water Treatment Facility :

a) NONE

b)

c)

Other :

Chemical Treatment :

a) CHLORINE

b)

Other :

State of Operation :

PART TIME

From : 05

To : 20

Reasons :

a) ADEQUATE

b)

c)

Other :

Condition of Treatment Facility : FAIR

Comments :

Distribution System :

Piped supply : 500

Communal supply : --

Secondary Water Use :

Irrigation : --

Industrial water : --

Water Tariff Structure :

MAJOR CONSUMERS METERED

Planned Rehabilitation :

YES

Describe :

Purchase of 2 no. submersible pumps including starters. Provision of another borehole to be equipped with submersible pump.

Planned Expansion :

YES

Describe :

Extension of distribution pipeline including water meters.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility :

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : PLEUGER

Pump lift : 36M

Power : 3.0 KW

Pumping rate :

3.0 L/SEC

Other Facility :

Name of Facility :

B/HOLE FIT SUB. P

Condition of Intake Facility :

FAIR

Comments :

Groundwater Project

Name of Wellfield :

MOKAMBO

Number of Wells :

2

Total Production : 690

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : SAKANIA

Township :

Record No. : 19

District :

Province : COPPERBELT

General

Managing Body : DWA

Population Served : 200

Design Capacity : 285

Total Population : 1,155

Current Supply : 130

Future Supply : 300

Water Treatment

Water Treatment Facility : a) NONE b) c)

Other :

Chemical Treatment : a) CHLORINE b)

Other :

State of Operation : PART TIME From : 05:30 To : 20

Reasons : a) ADEQUATE b) c)

Other :

Condition of Treatment Facility : FAIR Comments :

Distribution System : Piped supply : 152 Communal supply : 48

Secondary Water Use : Irrigation : -- Industrial water : --

Water Tariff Structure : MAJOR CONSUMERS METERED

Planned Rehabilitation : YES

Describe : Purchase of 2 no. submersible pumps. Painting of tanks and tankstand. Procurement of 200m armoured cable. Replacement of A.C. rising main with GF pipes.

Planned Expansion : YES

Describe : Extension of the distribution system to cater for Kamalasha compound.

Surface Water Project

Water Right No : Date of Issue : Name of Holder :

Tributary : River : Amount :

Type of Intake Facility :

**Dam type : Dam height : Dam length : Capacity :
Weir type : Weir height : Weir length : Intake rate :
Pump type : PLEUGER Pump lift : 21M Power : 4.0 KW**

Pumping rate : 2.5 L/SEC

Other Facility :

Name of Facility : BOREHOLE EQUIPPED

Condition of Intake Facility : FAIR Comments :

Groundwater Project

Name of Wellfield : SAKANIA SITE 1&2

Number of Wells : 2 Total Production : 500

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : TSHINSENDA

Township :

Record No. : 20

District :

Province : COPPERBELT

General

Managing Body : DWA

Population Served : 150

Total Population : 500

Design Capacity : 9

Current Supply :

Future Supply :

Water Treatment

Water Treatment Facility :

a) NONE

b)

c)

Other :

Chemical Treatment :

a) CHLORINE

b)

Other :

State of Operation :

N/O

From :

To :

Reasons :

a)

b)

c)

Other : NO DIESEL TO RUN ENGINE

Condition of Treatment Facility : POOR

Comments :

Distribution System :

Piped supply : --

Communal supply : --

Secondary Water Use :

Irrigation : --

Industrial water : --

Water Tariff Structure :

FLAT RATE

Planned Rehabilitation :

NO

Describe :

Planned Expansion :

NO

Describe :

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility :

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : GROUNDFOSS

Pump lift : 48M

Power : 7.0 KW

Pumping rate :

1.8 L/SEC

Other Facility :

Name of Facility :

DIESEL ENG. EQUIP

Condition of Intake Facility :

FAIR

Comments :

Groundwater Project

Name of Wellfield :

TSHINSENDA

Number of Wells :

1

Total Production : 216

Additional Information

Intend to hand over the scheme to Immigration and Customs Department.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **MULUNGUSHI RIVER**

Township : **KABWE**

Record No. : **21**

District : **KAWBE-URBAN**

Province : **CENTRAL**

General

Managing Body : **COUNCIL**

Population Served : **120,000**

Total Population : **200,000**

Design Capacity : **37,500**

Current Supply : **18,000**

Future Supply : **40,000**

Water Treatment

Water Treatment Facility : a) **RAPID FILTER** b) c)

Other : **CLARIFLOCU**

Chemical Treatment : a) **CHLORINE** b) **ALUM**

Other : **LIME**

State of Operation : **FULL TIME**

From : To :

Reasons :

a)

b)

c)

Other :

Condition of Treatment Facility : **FAIR**

Comments :

Distribution System : Piped supply : --

Communal supply : --

Secondary Water Use : Irrigation : --

Industrial water : --

Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **YES**

Describe :

Repair of clarifier.

Planned Expansion : **YES**

Describe :

Increase water storage reservoirs.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

MULUNGUSHI

Amount :

Type of Intake Facility : **DAM**

Dam type : **CONCRETE**

Dam height : **16M**

Dam length : **470M**

Capacity : **25,000**

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type :

Pump lift :

Power :

Pumping rate :

Other Facility :

Name of Facility :

Condition of Intake Facility : **FAIR**

Comments :

Groundwater Project

Name of Wellfield :

KALULU WELL FIELD

Number of Wells :

Total Production :

Additional Information

Kabwe has 2 sources of water supply, i.e., surface water & groundwater. The above information has been for surface water source. The groundwater source (boreholes) has safe yield capacity of 45 million l/day but only 9 million l/day

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : CHIBOMBO WATER SUPPLY Township : CHIBOMBO Record No. : 22
District : KABWE-RURAL Province : CENTRAL

General

Managing Body : COUNCIL
Population Served : 1,000 Total Population :
Design Capacity : 120 Current Supply : 120 Future Supply : 500

Water Treatment

Water Treatment Facility : a) NONE b) c)
Other :
Chemical Treatment : a) NONE b)
Other :
State of Operation : FULL TIME From : To :
Reasons : a) b) c)
Other :
Condition of Treatment Facility : FAIR Comments :

Distribution System : Piped supply : -- Communal supply : --
Secondary Water Use : Irrigation : -- Industrial water : --
Water Tariff Structure : FLAT RATE

Planned Rehabilitation : YES
Describe : Recasing of the existing borehole and provision of 5 ~ hand pumps to existing wells.

Planned Expansion : YES
Describe : The Council has allocated an area for development such as residential, commercial and industrial premises which will require increased supply once they have been fully developed.

Surface Water Project

Water Right No : Date of Issue : Name of Holder :
Tributary : River : Amount :

Type of Intake Facility :

Dam type : Dam height : Dam length : Capacity :
Weir type : Weir height : Weir length : Intake rate :
Pump type : Pump lift : Power :
Pumping rate :
Other Facility :
Name of Facility :
Condition of Intake Facility : Comments :

Groundwater Project

Name of Wellfield : CHIBOMBO TOWNSHIP
Number of Wells : Total Production :

Additional Information

Recasing of existing borehole & provision of 5 hand pumps to existing wells is planned. Council has allocated an area for residential, commercial & industrial development — increased water supply will be required.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **KAPIRIMPOSHI WATER**

Township :

Record No. : 23

District : **KABWE-RURAL**

Province : **CENTRAL**

General

Managing Body : **COUNCIL**

Population Served : **8,000**

Total Population : **40,000**

Design Capacity :

Current Supply :

Future Supply :

Water Treatment

Water Treatment Facility : a) **SLOW FILTER** b) c)

Other :

Chemical Treatment : a) **CHLORINE** b)

Other :

State of Operation : **FULL TIME**

From :

To :

Reasons :

a)

b)

c)

Other :

Condition of Treatment Facility : **FAIR**

Comments :

Distribution System : Piped supply : **4,000**

Communal supply : **200**

Secondary Water Use : Irrigation : **--**

Industrial water : **--**

Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **YES**

Describe :

Filters, old distribution lines.

Planned Expansion : **YES**

Describe :

Filers, storage tanks, intake, distribution system.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility : **DAM**

Dam type : **EARTH**

Dam height :

Dam length :

Capacity : **1,000,000**

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : **CENTRIFUGAL**

Pump lift :

Power :

Pumping rate :

Other Facility :

Name of Facility :

Condition of Intake Facility : **FAIR**

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

Another earth dam of 8m³ capacity is needed.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **MAKULULU WATER FIELD** Township : **MINE/CHOWA** Record No. : **24**
District : Province : **COPPERBELT**

General

Managing Body : **MINE**
Population Served : **20,000** Total Population : **50,000**
Design Capacity : **21,000** Current Supply : **16000** Future Supply :

Water Treatment

Water Treatment Facility : a) **NONE** b) c)
Other :
Chemical Treatment : a) **CHLORINE** b)
Other :
State of Operation : **PART TIME** From : **05** To : **10**
Reasons : a) b) c)
Other : **INSUFFICIENT WATER**
Condition of Treatment Facility : **GOOD** Comments :

Distribution System : Piped supply : **20,000** Communal supply : **30,000**
Secondary Water Use : Irrigation : **--** Industrial water : **--**
Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **YES**
Describe : **Replacement of borehole pumps of two per year.**

Planned Expansion : **NO**
Describe :

Surface Water Project

Water Right No : Date of Issue : Name of Holder :
Tributary : River : Amount :

Type of Intake Facility :

Dam type : Dam height : Dam length : Capacity :
Weir type : Weir height : Weir length : Intake rate :
Pump type : Pump lift : Power :
Pumping rate :
Other Facility :
Name of Facility :
Condition of Intake Facility : Comments :

Groundwater Project

Name of Wellfield : **KALULU WATER WELLS**
Number of Wells : **10** Total Production : **8,404**

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : CHISAMBA

Township :

Record No. : 25

District : KABWE-RURAL

Province : CENTRAL

General

Managing Body : DWA

Population Served : 8,996

Design Capacity :

Total Population : 15,000

Current Supply : 3,416

Future Supply : 53

Water Treatment

Water Treatment Facility : a) NONE b) c)

Other :

Chemical Treatment : a) CHLORINE b)

Other :

State of Operation : PART TIME From : To :

Reasons : a) POWER b) FUNDS c)

Other :

Condition of Treatment Facility : GOOD **Comments :**

Distribution System : Piped supply : 604

Communal supply : 392

Secondary Water Use : Irrigation : --

Industrial water : --

Planned Rehabilitation : YES

Describe : Rehabilitate water tank and distribution system.

Planned Expansion : YES

Describe : Drill an extra borehole and equip it with submersible pump.

Surface Water Project

Water Right No. :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility :

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type :

Pump lift :

Power :

Pumping rate :

Other Facility :

Name of Facility :

Condition of Intake Facility :

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

1

Total Production :

Additional Information

New borehole has been drilled to supplement the water shortage & some funds being sort to alleviate the problem. The elevated tanks are leaking, some maintenance on it are to be done when funds are ready.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : MUMBWA

Township :

Record No. : 26

District : MUMBWA

Province : COPPERBELT

General

Managing Body : DWA

Population Served : 16,000

Total Population : 12,7821

Design Capacity :

Current Supply : 1,934

Future Supply :

Water Treatment

Water Treatment Facility : a) SEDIMENTATION b) RAPID FILTER c)

Other :

Chemical Treatment : a) CHLORINE b) ALUM

Other :

State of Operation : PART TIME

From : 07 To :

Reasons : a) FUNDS b) c)

Other :

Condition of Treatment Facility : GOOD

Comments :

Distribution System : Piped supply : 9,007

Communal supply : 3,504

Secondary Water Use : Irrigation : --

Industrial water : --

Water Tariff Structure : FLAT RATE

Planned Rehabilitation : NO

Describe :

Planned Expansion : NO

Describe :

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary : CHIBILA

River :

KAFUE

Amount :

Type of Intake Facility : WEIR

Dam type : EARTH FILL

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type :

Pump lift :

Power :

Pumping rate :

Other Facility :

Name of Facility :

Condition of Intake Facility : FAIR

Comments :

Groundwater Project

Name of Wellfield :

MUMBWA WELL FIELDS

Number of Wells :

5

Total Production : 230

Additional Information

- Rehabilitation is being taken place by Nicholas & Partners (International) Ltd. funded by (ADF) five towns.

- Minor works to be completed by the Contractor.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **MKUSHI**
District : **MKUSHI**

Township :
Province : **COPPERBELT**

Record No. : **27**

General

Managing Body : **DWA**
Population Served : **12,154**
Design Capacity :

Total Population : **68,188**
Current Supply :

Future Supply :

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **SLOW FILTER** c)
Other :
Chemical Treatment : a) **CHLORINE** b) **ALUM**
Other :
State of Operation : **PART TIME** From : **06** To :
Reasons : a) **FUNDS** b) c)
Other :
Condition of Treatment Facility : **FAIR** Comments :

Distribution System : Piped supply : **9,996** Communal supply : **2,158**
Secondary Water Use : Irrigation : **--** Industrial water : **--**
Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **NO**
Describe :

Planned Expansion : **NO**
Describe :

Surface Water Project

Water Right No : Date of Issue : Name of Holder : **DWA**
Tributary : River : **CHIBEFWE** Amount : **1,227**

Type of Intake Facility : **OTHER**

Dam type : Dam height : Dam length : Capacity :
Weir type : Weir height : Weir length : Intake rate :
Pump type : Pump lift : Power : **45.0 KW**
Pumping rate :
Other Facility :
Name of Facility :
Condition of Intake Facility : **FAIR** Comments :

Groundwater Project

Name of Wellfield :
Number of Wells : Total Production :

Additional Information

A weir has proposed to raise the water level at the channel intake. Design of the same was made in 1991/92, but the project is a non-starter due to non-availability of funds.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : SERENJE

Township :

Record No. : 28

District : SERENJE

Province : COPPERBELT

General

Managing Body : DWA

Population Served : 14,000

Total Population : 104,042

Design Capacity :

Current Supply :

Future Supply :

Water Treatment

Water Treatment Facility : a) SEDIMENTATION b) RAPID FILTER c)

Other :

Chemical Treatment : a) CHLORINE b) ALUM

Other :

State of Operation : PART TIME

From :

To :

Reasons :

a)

b)

c)

Other :

Condition of Treatment Facility :

Comments :

Distribution System : Piped supply : --

Communal supply : --

Secondary Water Use : Irrigation : --

Industrial water : --

Water Tariff Structure :

Planned Rehabilitation :

Describe :

Planned Expansion :

Describe :

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility :

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type :

Pump lift :

Power :

Pumping rate :

Other Facility :

Name of Facility :

Condition of Intake Facility :

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

Sedimentation tank is small for the storage.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **MWINILUNGA**
District : **MWINILUNGA**

Township : **MWINILUNGA**
Province : **NORTH WESTERN**

Record No. : **29**

General

Managing Body : **DWA**
Population Served : **2,658**
Design Capacity : **5,011**

Total Population : **14,000**
Current Supply : **1,911**

Future Supply : **5,011**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **RAPID FILTER** c)
Other :
Chemical Treatment : a) **CHLORINE** b) **ALUM**
Other :
State of Operation : **PART TIME** From : **06** To : **22**
Reasons : a) **POWER** b)
Other : **SAVE POWER & MACHINERY** c)
Condition of Treatment Facility : **FAIR** Comments :

Distribution System : Piped supply : **2,322** Communal supply : **336**
Secondary Water Use : Irrigation : **--** Industrial water : **--**
Water Tariff Structure : **MAJOR CONSUMER METERED**

Planned Rehabilitation : **YES**
Describe : **Control panel to be rehabilitated & new pump sets treated water & new flyghts pumps for raw water.**

Planned Expansion : **YES**
Describe : **To increase the plant capacity and supply lines & tanks.**

Surface Water Project

Water Right No : Date of Issue : Name of Holder :
Tributary : **WEST LUNGA** River : **KAFUE** Amount :

Type of Intake Facility : **PUMP**

Dam type : Dam height : Dam length : Capacity :
Weir type : Weir height : Weir length : Intake rate :
Pump type : **FLYGT** Pump lift : Power :
Pumping rate :
Other Facility : **WEST INTAKE**
Name of Facility :
Condition of Intake Facility : **FAIR** Comments :

Groundwater Project

Name of Wellfield :
Number of Wells : Total Production :

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : ZAMBEZI

Township :

Record No. : 30

District : ZAMBEZI

Province : NORTH WESTERN

General

Managing Body : DWA

Population Served : 2,748

Design Capacity : 5,962

Total Population : 1

Current Supply : 1,600

Future Supply : 7,000

Water Treatment

Water Treatment Facility : a) SEDIMENTATION b) RAPID FILTER c)

Other :

Chemical Treatment : a) CHLORINE b) ALUM

Other : HYDRATE LIME

State of Operation : FULL TIME

From : **To :**

Reasons :

a) b) c)

Other :

Condition of Treatment Facility : **Comments :**

Distribution System : Piped supply : 2,544

Communal supply : 204

Secondary Water Use : Irrigation : --

Industrial water : --

Water Tariff Structure : FLAT RATE

Planned Rehabilitation : YES

Describe :

Plant needs new flexible pipe from intake to treatment plant, and pumps need proper servicing, and control panel needs repair.

Planned Expansion : YES

Describe :

Extend supply to farm institute & other area that demand.

Surface Water Project

Water Right No. :

Date of Issue :

Name of Holder :

Tributary : ZAMBEZI

River : ZAMBEZI

Amount :

Type of Intake Facility :

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type :

Pump lift :

Power :

Pumping rate :

Other Facility :

Name of Facility :

Condition of Intake Facility :

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

The river has a lot of sand and changes course in the dry season. Thereby making the distance from the intake to the water very long. More rubber suction pipes are needed.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project: **KABOMPO**

Township:

Record No.: 31

District: **KABOMPO**

Province: **NORTH WESTERN**

General

Managing Body: **DWA**

Population Served: **4,758**

Design Capacity: **4,147**

Total Population:

Current Supply: **2,088**

Future Supply: **4,200**

Water Treatment

Water Treatment Facility: a) **SEDIMENTATION** b) **RAPID FILTER** c)

Other:

Chemical Treatment: a) **CHLORINE** b)

Other:

State of Operation: **FULL TIME**

From: To:

Reasons:

a)

b)

c)

Other:

Condition of Treatment Facility: **FAIR**

Comments:

Distribution System: Piped supply: **1,908**

Communal supply: **2,742**

Secondary Water Use: Irrigation: **--**

Industrial water: **--**

Water Tariff Structure: **MAJOR CONSUMERS METERED**

Planned Rehabilitation: **YES**

Describe:

Service raw water pumps & treated water pumps and control panel.

Planned Expansion: **NO**

Describe:

Surface Water Project

Water Right No:

Date of Issue:

Name of Holder:

Tributary: **KABOMPO**

River:

ZAMBEZI

Amount:

Type of Intake Facility:

Dam type:

Dam height:

Dam length:

Capacity:

Weir type:

Weir height:

Weir length:

Intake rate:

Pump type:

Pump lift:

Power:

Pumping rate:

Other Facility:

Name of Facility:

Condition of Intake Facility:

Comments:

Groundwater Project

Name of Wellfield:

Number of Wells:

Total Production:

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : MUFUMBWE

Township : MUFUMBWE

Record No. : 32

District : MUFUMBWE

Province : NORTH WESTERN

General

Managing Body : DWA

Population Served : 1,452

Design Capacity : 432

Total Population : 3,000

Current Supply : 134

Future Supply : 600

Water Treatment

Water Treatment Facility : a) NONE

b)

c)

Other :

Chemical Treatment : a) CHLORINE

b)

Other :

State of Operation : PART TIME

From : 15

To : 24

Reasons :

a) POWER

b) FUNDS

c)

Other : FUNDS NOT ENOUGH

Condition of Treatment Facility : FAIR

Comments :

Distribution System :

Piped supply : 612

Communal supply : 804

Secondary Water Use :

Irrigation : --

Industrial water : --

Water Tariff Structure :

FLAT RATE

Planned Rehabilitation :

YES

Describe :

Rehabilitation of electrical fittings at plant and the rehabilitation of pipe distribution network.

Planned Expansion :

YES

Describe :

Drill more borehole & expand the control panel, set up more tanks, more supply points, increase network piping.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility :

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type :

Pump lift :

Power :

Pumping rate :

Other Facility :

Name of Facility :

Condition of Intake Facility :

Comments :

Groundwater Project

Name of Wellfield :

MUFUMBWE

Number of Wells :

2

Total Production : 600

Additional Information

The river is about 15km away from the township. Power is supplied by a diesel generator.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : KASEMPA

Township :

Record No. : 33

District : KASEMPA

Province : NORTH WESTERN

General

Managing Body : DWA

Population Served : 2,148

Design Capacity : 2,938

Total Population : 13,126

Current Supply : 873

Future Supply : 2,938

Water Treatment

Water Treatment Facility : a) SEDIMENTATION b) RAPID FILTER c)

Other :

Chemical Treatment : a) CHLORINE b) ALUM

Other :

State of Operation : FULL TIME From : To :

Reasons : a) b) c)

Other :

Condition of Treatment Facility : FAIR Comments :

Distribution System : Piped supply : 2,028 Communal supply : 120

Secondary Water Use : Irrigation : -- Industrial water : --

Water Tariff Structure : MAJOR CONSUMERS METERED

Planned Rehabilitation : YES

Describe : Plant is in good condition, only distribution network needs to be rehabilitated.

Planned Expansion : YES

Describe : Expand water treatment work & intake, expand pipe network.

Surface Water Project

Water Right No : Date of Issue : Name of Holder :

Tributary : LUFUPA River : KAFUE Amount :

Type of Intake Facility :

Dam type : Dam height : Dam length : Capacity :

Weir type : Weir height : Weir length : Intake rate :

Pump type : Pump lift : Power :

Pumping rate :

Other Facility :

Name of Facility :

Condition of Intake Facility : Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **NAMUSHAKENDE**

Township :

Record No. : **34**

District : **MONGU**

Province : **WESTERN**

General

Managing Body : **DWA**

Population Served : **3,098**

Design Capacity : **432**

Total Population : **3,098**

Current Supply : **177**

Future Supply :

Water Treatment

Water Treatment Facility :

a) **NONE**

b)

c)

Other :

Chemical Treatment :

a) **CHLORINE**

b)

Other :

State of Operation :

PART TIME

From : **08**

To :

Reasons :

a) **ADEQUATE**

b)

c)

Other :

Condition of Treatment Facility : **GOOD**

Comments :

Distribution System :

Piped supply : **218**

Communal supply : **2,810**

Secondary Water Use :

Irrigation : **1**

Industrial water : **--**

Water Tariff Structure :

ALL METERED

Planned Rehabilitation :

NO

Describe :

Planned Expansion :

NO

Describe :

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility :

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type :

Pump lift :

Power :

Pumping rate :

Other Facility :

Name of Facility :

Condition of Intake Facility :

Comments :

Groundwater Project

Name of Wellfield :

NAMUSHAKENDI WELLFIELD

Number of Wells :

2

Total Production :

Additional Information

The metering of all the consumers is still in progress.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **LUKULU**

District : **LUKULU**

Province : **WESTERN**

Township :

Record No. : **35**

General

Managing Body : **DWA**

Population Served : **2,965**

Design Capacity : **800**

Total Population : **5,000**

Current Supply : **600**

Future Supply :

Water Treatment

Water Treatment Facility :

a) **NONE**

b)

c)

Other :

Chemical Treatment :

a) **CHLORINE**

b)

Other :

State of Operation :

PART TIME

From :

To :

Reasons :

a) **ADEQUATE**

b)

c)

Other :

Condition of Treatment Facility : **GOOD**

Comments :

Distribution System :

Piped supply : **1,565**

Communal supply : **1,400**

Secondary Water Use :

Irrigation : **--**

Industrial water : **--**

Water Tariff Structure :

ALL METERED

Planned Rehabilitation :

NO

Describe :

Planned Expansion :

NO

Describe :

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility :

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type :

Pump lift :

Power :

Pumping rate :

Other Facility :

Name of Facility :

Condition of Intake Facility :

Comments :

Groundwater Project

Name of Wellfield :

LUKULU WELLFIELD

Number of Wells :

2

Total Production : **791**

Additional Information

All consumers will be metered meanwhile the metering exercise is in progress.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project: KALABO

Township:

Record No.: 36

District: KALABO

Province: WESTERN

General

Managing Body: DWA

Population Served: 14,400

Total Population: 14,400

Design Capacity: 1,824

Current Supply: 888

Future Supply:

Water Treatment

Water Treatment Facility:

a) PRESS. FILTER

b)

c)

Other:

Chemical Treatment:

a) CHLORINE

b)

Other:

State of Operation:

PART TIME

From: 10

To:

Reasons:

a) ADEQUATE

b)

c)

Other:

Condition of Treatment Facility: GOOD

Comments:

Distribution System:

Piped supply: 10,400

Communal supply: 4,000

Secondary Water Use:

Irrigation: 1

Industrial water: --

Water Tariff Structure:

Planned Rehabilitation:

NO

Describe:

Planned Expansion:

NO

Describe:

Surface Water Project

Water Right No:

Date of Issue:

Name of Holder:

Tributary:

River:

LWANGINGA

Amount:

Type of Intake Facility: PUMP

Dam type:

Dam height:

Dam length:

Capacity:

Weir type:

Weir height:

Weir length:

Intake rate:

Pump type: GRUNDFOS

Pump lift: 10M

Power: 30.0 KW

Pumping rate:

8.0 L/SEC

Other Facility:

Name of Facility:

Condition of Intake Facility: GOOD

Comments:

Groundwater Project

Name of Wellfield:

Number of Wells:

Total Production:

Additional Information

The scheme pumps water from Luanginga River. The province has been exempted from water rights. The metering exercise is in progress. The idea is to meter every consumer.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : KAOMA

District : KAOMA

Township :

Record No. : 37

Province : WESTERN

General

Managing Body : DWA

Population Served : 7,150

Design Capacity : 1,591

Total Population : 7,150

Current Supply : 1,614

Future Supply :

Water Treatment

Water Treatment Facility :

a) NONE

b)

c)

Other :

Chemical Treatment :

a) CHLORINE

b)

Other :

State of Operation :

FULL TIME

From :

To :

Reasons :

a)

b)

c)

Other :

Condition of Treatment Facility : GOOD

Comments :

Distribution System :

Piped supply : 5,500

Communal supply : 1,650

Secondary Water Use :

Irrigation : --

Industrial water : --

Water Tariff Structure :

ALL METERED

Planned Rehabilitation :

NO

Describe :

Planned Expansion :

NO

Describe :

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility :

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type :

Pump lift :

Power :

Pumping rate :

Other Facility :

Name of Facility :

Condition of Intake Facility :

Comments :

Groundwater Project

Name of Wellfield :

KAOMA WELLFIELD

Number of Wells :

7

Total Production :

Additional Information

Metering of consumers is still in progress. The idea is to meter all consumers.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **SENANGA**

Township :

Record No. : 38

District : **SENANGA**

Province : **WESTERN**

General

Managing Body : **DWA**

Population Served : **8,300**

Design Capacity : **1,336**

Total Population : **8,300**

Current Supply : **1,429**

Future Supply :

Water Treatment

Water Treatment Facility : **PRESS. FILTER**

b)

c)

Other :

Chemical Treatment : **a) CHLORINE**

b)

Other :

State of Operation : **PART TIME**

From : 13

To :

Reasons : **a) ADEQUATE**

b)

c)

Other :

Condition of Treatment Facility : **GOOD**

Comments :

Distribution System : **Piped supply : 6,300**

Communal supply : **2,000**

Secondary Water Use : **Irrigation : --**

Industrial water : **--**

Water Tariff Structure : **ALL METERED**

Planned Rehabilitation : **NO**

Describe :

Planned Expansion : **NO**

Describe :

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

ZAMBEZI

Amount :

Type of Intake Facility : **PUMP**

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : **GRUNDFOS & KSB**

Pump lift : **9M**

Power : **37.0 KW**

Pumping rate :

42.0 L/SEC

Other Facility :

Name of Facility :

Condition of Intake Facility :

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

The scheme pumps water from Zambezi River. The province was exempted from water rights. All the consumers will be metered. Meanwhile the metering exercise is in progress.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **SESHEKE**
District : **SESHEKE**

Province : **WESTERN**

Township :

Record No. : **39**

General

Managing Body : **DWA**
Population Served : **7,610**
Design Capacity : **886**

Total Population : **7,610**
Current Supply : **915**

Future Supply :

Water Treatment

Water Treatment Facility : a) **PRESS. FILTER** b) c)
Other :
Chemical Treatment : a) **CHLORINE** b)
Other :
State of Operation : **PART TIME** From : **09** To :
Reasons : a) **ADEQUATE** b) c)
Other :
Condition of Treatment Facility : **GOOD** Comments :

Distribution System : Piped supply : **4,610** Communal supply : **3,000**
Secondary Water Use : Irrigation : **1** Industrial water : **--**
Water Tariff Structure : **ALL METERED**

Planned Rehabilitation : **NO**
Describe :

Planned Expansion : **NO**
Describe :

Surface Water Project

Water Right No : Date of Issue : Name of Holder :
Tributary : River : **ZAMBEZI** Amount :

Type of Intake Facility : **PUMP**

Dam type : Dam height : Dam length : Capacity :
Weir type : Weir height : Weir length : Intake rate :
Pump type : **GRUNDFOS & KSB** Pump lift : **13M** Power : **22.0 KW**
Pumping rate : **32.0 L/SEC**
Other Facility :
Name of Facility :
Condition of Intake Facility : Comments :

Groundwater Project

Name of Wellfield :
Number of Wells : Total Production :

Additional Information

The scheme pumps water from Zambezi River. The province was exempted from water rights. The scheme's consumers are all being metered, but the metering is still in progress.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **LIVINGSTONE**

Township : **LIVINGSTONE**

Record No. : **40**

District : **LIVINGSTONE**

Province : **SOUTHERN**

General

Managing Body : **COUNCIL**

Population Served : **80,000**

Total Population : **100,000**

Design Capacity : **65,000**

Current Supply : **20,000**

Future Supply : **65,000**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **RAPID FILTER** c)

Other :

Chemical Treatment : a) **CHLORINE** b) **ALUM**

Other : **LIME**

State of Operation : **FULL TIME**

From : To :

Reasons : a) b) c)

Other :

Condition of Treatment Facility : **FAIR**

Comments :

Distribution System : Piped supply : **60,000**

Communal supply : **20,000**

Secondary Water Use : Irrigation : **2,000**

Industrial water : **6,000**

Water Tariff Structure : **MAJOR CONSUMERS METERED**

Planned Rehabilitation : **YES**

Describe : Rehabilitation of the treatment plant to increase capacity and rehabilitation of water tanks through lift pumps.

Planned Expansion : **YES**

Describe : To site and service areas within town and Ind. Area on Gear North Station.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary : **MARAMBA**

River : **ZAMBEZI**

Amount :

Type of Intake Facility : **PUMP**

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : **200/250 SP**

Pump lift : **9M**

Power : **105.0 KW**

Pumping rate :

200.0 L/SEC

Other Facility :

Name of Facility :

LIVINGSTONE PUMP

Condition of Intake Facility : **FAIR**

Comments :

Groundwater Project

Name of Wellfield :

SENKOBO/SIMWAMI

Number of Wells :

Total Production :

Additional Information

Interview DJM/M. Luzanga 17/6/94

Wells/borehole serve smaller townships, supply is only communal wells or standings. -- Water Works

Supervisor, Mr. Peter Pelekamoyo

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **MAZABUKA TOWNSHIP** Township : **MAZABUKA** Record No. : **41**
District : **MAZABUKA** Province : **SOUTHERN**

General

Managing Body : **DWA**
Population Served : **39,430** Total Population : **40,360**
Design Capacity : **2,500** Current Supply : **5,600** Future Supply : **5,800**

Water Treatment

Water Treatment Facility : a) **SLOW FILTER** b) c)
Other :
Chemical Treatment : a) **CHLORINE** b) **ALUM**
Other :
State of Operation : **FULL TIME** From : To :
Reasons : a) b) c)
Other :
Condition of Treatment Facility : **POOR** Comments :

Distribution System : Piped supply : **33,000** Communal supply : **8,000**
Secondary Water Use : Irrigation : -- Industrial water : --
Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **YES**
Describe : **Rehabilitation of pumps/motors, rehabilitation of switch panel, rehabilitation of filters.**

Planned Expansion : **YES**
Describe : **Construction of bigger capacity storage tank.**

Surface Water Project

Water Right No : Date of Issue : Name of Holder : **MAZABUKA D. COUNCIL**
Tributary : River : **KAFUE** Amount : **200**

Type of Intake Facility : **PUMP**

Dam type : Dam height : Dam length : Capacity :
Weir type : Weir height : Weir length : Intake rate :
Pump type : **AUXILIARY** Pump lift : Power : **100 KW**
Pumping rate : **160.0 L/SEC**
Other Facility :
Name of Facility : **WATER TREATMENT**
Condition of Intake Facility : **FAIR** Comments :

Groundwater Project

Name of Wellfield : **RESEARCH, KABOBOLA, LUSUMPUKO**
Number of Wells : **3** Total Production : **3,500**

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **NAMALUNDU WATER SUPPLY** Township : **NAMALUNDU** Record No. : **42**
District : **MAZABUKA** Province : **SOUTHERN**

General

Managing Body : **ZESCO**
Population Served : **5,575** Total Population : **5575**
Design Capacity : **80l** Current Supply : **2,500** Future Supply :

Water Treatment

Water Treatment Facility : a) **RAPID FILTER** b) c)
Other :
Chemical Treatment : a) **CHLORINE** b)
Other :
State of Operation : **FULL TIME** From : To :
Reasons : a) b) c)
Other :
Condition of Treatment Facility : **GOOD** Comments :

Distribution System : Piped supply : **2,124** Communal supply : **3,451**
Secondary Water Use : Irrigation : **119** Industrial water : --
Water Tariff Structure :

Planned Rehabilitation : **YES**
Describe : **Replacement of old supply pipes to the homes from the distribution mains and upgrading of one line to camp.**

Planned Expansion : **NO**
Describe :

Surface Water Project

Water Right No : Date of Issue : Name of Holder :
Tributary : River : **KAFUE** Amount :

Type of Intake Facility : **DAM**

Dam type : **ROCK FILL** Dam height : **50M** Dam length : **380M** Capacity : **80,000,000**
Weir type : Weir height : Weir length : Intake rate :
Pump type : Pump lift : Power :
Pumping rate :
Other Facility : **POWER STATION**
Name of Facility :
Condition of Intake Facility : **GOOD** Comments :

Groundwater Project

Name of Wellfield :
Number of Wells : Total Production :

Additional Information

The dam was built for hydro power production not specifically for domestic water supply.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **MONZE WATER SUPPLY** Township : **MONZE** Record No. : **43**
District : **MONZE** Province : **SOUTHERN**

General

Managing Body : **COUNCIL**
Population Served : **21,990** Total Population : **36,961**
Design Capacity : **5,540** Current Supply : Future Supply :

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **SLOW FILTER** c)
Other :
Chemical Treatment : a) **CHLORINE** b) **ALUM**
Other :
State of Operation : **FULL TIME** From : To :
Reasons : a) b) c)
Other :
Condition of Treatment Facility : **FAIR** Comments :

Distribution System : Piped supply : **10,652** Communal supply : **11,338**
Secondary Water Use : Irrigation : **--** Industrial water : **--**
Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **YES**
Describe : **Rehabilitation of township's water supply is currently in progress.**

Planned Expansion : **NO**
Describe :

Surface Water Project

Water Right No : Date of Issue : Name of Holder : **MONZE. D. COUNCIL**
Tributary : **MAGOYE** River : **EARTH FILL DAM** Amount :

Type of Intake Facility : **DAM**

Dam type : **EARTH FILL** Dam height : **10M** Dam length : **130M** Capacity : **1,040,000**
Weir type : Weir height : Weir length : Intake rate :
Pump type : **SUBMERSIBLE** Pump lift : **6M** Power : **75.0 KW**
Pumping rate : **976.0 L/SEC**
Other Facility :
Name of Facility :
Condition of Intake Facility : **FAIR** Comments :

Groundwater Project

Name of Wellfield :
Number of Wells : Total Production :

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **CHOMA TOWNSHIP WATER** Township : **CHOMA** Record No. : **44**
District : **MAZABUKA** Province : **SOUTHERN**

General

Managing Body : **COUNCIL**
Population Served : **6,250** Total Population : **10,000**
Design Capacity : Current Supply : **129,600** Future Supply : **200,000**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **SLOW FILTER** c)
Other :
Chemical Treatment : a) **CHLORINE** b) **ALUM**
Other :
State of Operation : **FULL TIME** From : To :
Reasons : a) b) c)
Other : **A LOT OF LEAKAGE**
Condition of Treatment Facility : **FAIR** Comments :

Distribution System : Piped supply : **21,000** Communal supply : --
Secondary Water Use : Irrigation : -- Industrial water : --
Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **YES**
Describe : **The rehabilitation work will include the changing of filters at Zesco Plant and replacement of pumps at the same plant.**

Planned Expansion : **NO**
Describe :

Surface Water Project

Water Right No : Date of Issue : Name of Holder : **CHOMA D. COUNCIL**
Tributary : River : Amount :

Type of Intake Facility :

Dam type : **CONCRETE** Dam height : Dam length : **2M** Capacity :
Weir type : Weir height : Weir length : Intake rate :
Pump type : Pump lift : Power :
Pumping rate : **864.0 L/SEC**
Other Facility :
Name of Facility :
Condition of Intake Facility : **FAIR** Comments :

Groundwater Project

Name of Wellfield :
Number of Wells : Total Production :

Additional Information

Choma has 2 major sources of water supply, i.e., Choma Dam which is located 7km from town & Munzuma Dam which is situated 21km from the T/ship. Munzuma is the major dam which supplies to 3/4 of the population. Nutrient enrichment

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **SIAVONGA**

Township : **SIAVONGA**

Record No. : **45**

District : **SIAVONGA**

Province : **SOUTHERN**

General

Managing Body : **COUNCIL**

Population Served : **20,000**

Total Population : **25,000**

Design Capacity : **3600**

Current Supply : **3,600**

Future Supply : **5,400**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **SLOW FILTER** c)

Other :

Chemical Treatment : a) **CHLORINE** b) **ALUM**

Other :

State of Operation : **FULL TIME**

From : To :

Reasons :

a)

b)

c)

Other :

Condition of Treatment Facility : **GOOD**

Comments :

Distribution System : Piped supply : **20,000**

Communal supply : **5,000**

Secondary Water Use : Irrigation : **--**

Industrial water : **--**

Water Tariff Structure : **ALL METERED**

Planned Rehabilitation :

Describe :

Planned Expansion :

Describe :

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary : **L. KARIBA**

River :

ZAMBEZI

Amount :

Type of Intake Facility :

Dam type : **ARC**

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : **KSB**

Pump lift :

Power : **45.0 KW**

Pumping rate :

42.0 L/SEC

Other Facility :

Name of Facility :

Condition of Intake Facility : **GOOD**

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

Information on water rights is not available.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **NAMWALA**

Township : **NAMWALA**

Record No. : **46**

District : **NAMWALA**

Province : **SOUTHERN**

General

Managing Body : **DWA**

Population Served : **10,000**

Total Population :

Design Capacity :

Current Supply :

Future Supply :

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **RAPID FILTER** c)

Other :

Chemical Treatment : a) **CHLORINE** b) **ALUM**

Other :

State of Operation : **PART TIME**

From : **18**

To : **12**

Reasons :

a) **SPARES**

b) **FUNDS**

c) **ADEQUATE**

Other :

Condition of Treatment Facility : **POOR**

Comments :

Distribution System : Piped supply : **7,000**

Communal supply : **3,000**

Secondary Water Use : Irrigation : **--**

Industrial water : **--**

Water Tariff Structure : **MAJOR CONSUMERS METERED**

Planned Rehabilitation : **YES**

Describe :

Planning to improve distribution network and storage resources, improve metering and improve low and high lift pumping units.

Planned Expansion : **YES**

Describe :

Planning to extend the distribution to Massele compound [council residential compound].

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary : **NAMWALA**

River : **KAFUE**

Amount :

Type of Intake Facility : **OTHER**

Dam type : **ROCK FILL**

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : **KSB CENTRIFUGAL**

Pump lift :

Power : **22.0 KW**

Pumping rate :

14.0 L/SEC

Other Facility :

Name of Facility :

Condition of Intake Facility : **POOR**

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : ZIMBA
District : KALOMO

Township : ZIMBA
Province : SOUTHERN

Record No. : 47

General

Managing Body : DWA
Population Served : 15,000
Design Capacity :

Total Population : 20,000
Current Supply : 600

Future Supply :

Water Treatment

Water Treatment Facility : a) SEDIMENTATION b) SLOW FILTER c)
Other :
Chemical Treatment : a) CHLORINE b) ALUM
Other :
State of Operation : FULL TIME From : To :
Reasons : a) b) c)
Other :
Condition of Treatment Facility : GOOD Comments :

Distribution System : Piped supply : 5,000 Communal supply : 10,000
Secondary Water Use : Irrigation : -- Industrial water : --
Water Tariff Structure : FLAT RATE

Planned Rehabilitation : YES
Describe : Addition of 1 no. slow sand filter. Construction of 1 no. staff house - Railway Dam Intake. Filling of 4 no. pump sets - Treatment Plant Raw Water Intake (Nandukulu). Repair of 2 no. high level water distribution tanks and others.

Planned Expansion : YES
Describe : Addition of 2 no. high level tanks i.e., 1 no. treatment plant and 1 no. supply tank for treasure compound which experience water shortage due to its geographical location. Replace the existing wornout reticulation network. Expand the volume of the existing dams which are silted.

Surface Water Project

Water Right No :
Tributary : Date of Issue : Name of Holder :
River : Amount :

Type of Intake Facility : DAM

Dam type : EARTH Dam height : 5M Dam length : 500M Capacity : 377,725
Weir type : EARTH Weir height : 4M Weir length : 200M Intake rate :
Pump type : CENTRIFUGAL Pump lift : 1M Power : 30.0 KW
Pumping rate : 54.0 L/SEC
Other Facility :
Name of Facility : MECH/ELECT OPERATION
Condition of Intake Facility : FAIR Comments : REHABILITATED 1993

Groundwater Project

Name of Wellfield :
Number of Wells : Total Production :

Additional Information

Need to sink departmental borehole at water works to supplement the existing scheme infrastructures (dams) of which 1 dries in summer. De-silting the existing earth dams to gain higher volume. Expand treatment works, i.e., the

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **CHIRUNDU**

Township :

Record No. : 48

District :

Province : SOUTHERN

General

Managing Body : **DWA**

Population Served : **180**

Total Population :

Design Capacity :

Current Supply : **449**

Future Supply :

Water Treatment

Water Treatment Facility : a) SEDIMENTATION b) RAPID FILTER c)

Other :

Chemical Treatment : a) CHLORINE b) ALUM

Other :

State of Operation : **PART TIME**

From : 05

To : 22

Reasons :

a) SPARES

b) FUNDS

c) ADEQUATE

Other :

Condition of Treatment Facility : **FAIR**

Comments :

Distribution System : Piped supply : 80

Communal supply : 100

Secondary Water Use : Irrigation : --

Industrial water : --

Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **YES**

Describe :

Change of intake (size), replacement of branch network/extension, replacement of backwashing tanks and clear well tank roof to be replaced.

Planned Expansion : **YES**

Describe :

Extension of branch network to communal consumers, building of an office block, closed staff houses, stores.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River : **ZAMBEZI**

Amount :

Type of Intake Facility : **PUMP**

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : **KSB 2 STORA**

Pump lift : **2M**

Power : **22.0 KW**

Pumping rate :

144.0 L/SEC

Other Facility :

KSB SINGLE STAGE

Name of Facility :

RAW WATER PUMPS

Condition of Intake Facility : **POOR**

Comments : **NO PUMP HOUSE**

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

- Treatment plant unfenced. - No office block or closet. - No staff houses. - Back washing tanks needs replacement. - No spare parts, e.g., G.I. pipes in general fittings. - Floating drums at suction point. Stand point taps needs

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : GWEMBE
District : GWEMBE

Township :
Province : SOUTHERN

Record No. : 49

General

Managing Body : DWA
Population Served : 4,800
Design Capacity :
Total Population :
Current Supply : 400
Future Supply :

Water Treatment

Water Treatment Facility : a) SEDIMENTATION b) SLOW FILTER c)
Other :
Chemical Treatment : a) CHLORINE b) ALUM
Other :
State of Operation : PART TIME From : 04 To : 21
Reasons : a) ADEQUATE b) c)
Other :
Condition of Treatment Facility : GOOD **Comments :**

Distribution System : Piped supply : 1,600 Communal supply : 3,200
Secondary Water Use : Irrigation : -- Industrial water : --
Water Tariff Structure : FLAT RATE

Planned Rehabilitation : NO
Describe :

Planned Expansion : NO
Describe :

Surface Water Project

Water Right No. : **Date of Issue :** **Name of Holder :** WATER AFFAIRS
Tributary : **River :** **Amount :**

Type of Intake Facility : DAM

Dam type : EARTH **Dam height :** 6M **Dam length :** 200M **Capacity :** 72,000
Weir type : **Weir height :** **Weir length :** **Intake rate :**
Pump type : CENTRIFUGAL **Pump lift :** 7M **Power :** 30.0 KW
Pumping rate : 15.0 L/SEC
Other Facility :
Name of Facility : SINGONIA DAM
Condition of Intake Facility : FAIR **Comments :**

Groundwater Project

Name of Wellfield :
Number of Wells : **Total Production :**

Additional Information

Second intake facility: = 35-earth, = 36-5.5m, = 37-150m, = 38-6000m³ approx.
 = 43-centrifugal, = 44-6m, = 45-3.6Kw, 46-9 litres/second.
 = 48-Gwembe Dam

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **SINAZONGWE**

Township :

Record No. : **50**

District : **SINAZONGWE**

Province : **SOUTHERN**

General

Managing Body : **DWA**

Population Served :

Total Population :

Design Capacity : **56,000**

Current Supply : **112,000**

Future Supply : **100,000**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **RAPID FILTER** c)

Other :

Chemical Treatment : a) **CHLORINE** b) **ALUM**

Other :

State of Operation : **PART TIME** From : **06** To : **20**

Reasons : a) **ADEQUATE** b) c)

Other :

Condition of Treatment Facility : **GOOD** Comments :

Distribution System : Piped supply : -- Communal supply : --

Secondary Water Use : Irrigation : -- Industrial water : --

Water Tariff Structure : **MAJOR CONSUMERS METERED**

Planned Rehabilitation : **YES**

Describe : **Backwashing tanks need replacement.**

Planned Expansion : **YES**

Describe : **The service tank too small for growing township and population.**

Surface Water Project

Water Right No : Date of Issue :

Tributary : River : **LAKE KARIBA** Name of Holder : Amount :

Type of Intake Facility : **PUMP**

Dam type : Dam height : Dam length : Capacity :

Weir type : Weir height : Weir length : Intake rate :

Pump type : Pump lift : **20M** Power :

Pumping rate :

Other Facility :

Name of Facility :

Condition of Intake Facility : **FAIR** Comments :

Groundwater Project

Name of Wellfield :

Number of Wells : Total Production :

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **MANSA DISTRICT C.**
District : **MANSA**

Township : **MANSA**
Province : **LUAPULA**

Record No. : **51**

General

Managing Body : **COUNCIL**

Population Served : **45,000**

Design Capacity : **1,944**

Total Population : **105,000**

Current Supply : **6,480**

Future Supply : **36,000**

Water Treatment

Water Treatment Facility : a) **SLOW FILTER** b) c)

Other :

Chemical Treatment : a) **CHLORINE** b)

Other :

State of Operation : **PART TIME** From : **06** To : **18**

Reasons : a) **SPARES** b) **FUNDS** c)

Other : **LACK OF WATER FROM RIVER**

Condition of Treatment Facility : Comments : **TOO OLD & OUT DATED**

Distribution System : Piped supply : **37,500** Communal supply : **7,500**

Secondary Water Use : Irrigation : **--** Industrial water : **--**

Water Tariff Structure :

Planned Rehabilitation : **YES**

Describe : Pumping equipment, started and controls, storage filtration system, reticulation network.

Planned Expansion : **YES**

Describe : Construction of a weir, new pumping equipment of a bigger capacity storage, facilities, sinking of boreholes reticulation system construction of new treatment facilities.

Surface Water Project

Water Right No : Date of Issue : Name of Holder : **MANSA D. COUNCIL**
Tributary : **NAMWANDWE** River : **MANSA** Amount :

Type of Intake Facility : **OTHER**

Dam type : Dam height : Dam length : Capacity :
Weir type : Weir height : Weir length : Intake rate :
Pump type : **SUBMERSIBLE** Pump lift : Power : **50.0 KW**

Pumping rate : **53.3 L/SEC**

Other Facility : **SUMP 3 WATER WELLS**

Name of Facility :

Condition of Intake Facility : Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : NCHELENGE

Township :

Record No. : 52

District : NCHELENGE

Province : LUAPULA

General

Managing Body : DWA

Population Served : 2,680

Design Capacity :

Total Population : 5,100

Current Supply : 1,210

Future Supply :

Water Treatment

Water Treatment Facility :

a) PRESS. FILTER b)

c)

Other :

Chemical Treatment :

a) CHLORINE b)

Other :

State of Operation :

From :

To :

Reasons :

a) b)

c)

Other :

Condition of Treatment Facility : FAIR

Comments :

Distribution System :

Piped supply : --

Communal supply : --

Secondary Water Use :

Irrigation : --

Industrial water : --

Water Tariff Structure :

FLAT RATE

Planned Rehabilitation :

YES

Describe :

Introduction of pressure filters completion.

Planned Expansion :

NO

Describe :

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility : DAM

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : SURFACE CENTRIFUGAL

Pump lift : 7M

Power : 15.0 KW

Pumping rate :

14.0 L/SEC

Other Facility :

Name of Facility :

Condition of Intake Facility : FAIR

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **CHIENGE**

Township :

Record No. : 53

District :

Province : LUAPULA

General

Managing Body : DWA

Population Served : 300

Total Population : 810

Design Capacity :

Current Supply : 36

Future Supply :

Water Treatment

Water Treatment Facility :

a) NONE

b)

c)

Other :

Chemical Treatment :

a) CHLORINE

b) ALUM

Other :

State of Operation :

PART TIME

From : 06

To : 20

Reasons :

a) LABOUR

b) FUNDS

c)

Other :

Condition of Treatment Facility : FAIR

Comments :

Distribution System :

Piped supply : 110

Communal supply : 190

Secondary Water Use :

Irrigation : --

Industrial water : --

Water Tariff Structure :

FLAT RATE

Planned Rehabilitation :

NO

Describe :

Planned Expansion :

NO

Describe :

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility : PUMP

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : SURFACE CENTRIFUGAL

Pump lift : 7M

Power : 15.0 KW

Pumping rate :

5.0 L/SEC

Other Facility :

Name of Facility :

Condition of Intake Facility :

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : KAWAMBWA

Township : KAWAMBWA

Record No. : 54

District : KAWAMBWA

Province : LUAPULA

General

Managing Body : DWA

Population Served : 6,250

Design Capacity :

Total Population : 10,000

Current Supply : 1,440

Future Supply :

Water Treatment

Water Treatment Facility :

a) NONE

b)

c)

Other :

Chemical Treatment :

a) CHLORINE

b)

Other :

State of Operation :

FULL TIME

From :

To :

Reasons :

a)

b)

c)

Other :

Condition of Treatment Facility : FAIR

Comments :

Distribution System :

Piped supply : --

Communal supply : 2,600

Secondary Water Use :

Irrigation : --

Industrial water : --

Water Tariff Structure :

MAJOR CONSUMERS METERED

Planned Rehabilitation :

NO

Describe :

Planned Expansion :

YES

Describe :

Increase water production.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility : PUMP

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : SURFACE CENTRIFUGAL

Pump lift : 7M

Power : 18.5 KW

Pumping rate :

16.0 L/SEC

Other Facility :

Name of Facility :

Condition of Intake Facility : FAIR

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

Production from the spring source has dwindled from the original 28l/s to 16l/s. Water supply is limited to 10 hours per day.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project: MWENSE

Township: MWENSE

Record No.: 55

District: MWENSE

Province: LUAPULA

General

Managing Body: DWA

Population Served: 2,760

Total Population: 4,681

Design Capacity:

Current Supply: 1,580

Future Supply:

Water Treatment

Water Treatment Facility: a) SEDIMENTATION b) RAPID FILTER c)

Other:

Chemical Treatment: a) CHLORINE b) ALUM

Other:

State of Operation: FULL TIME

From: **To:**

Reasons: a) b) c)

Other:

Condition of Treatment Facility: FAIR

Comments:

Distribution System: Piped supply: 2,360

Communal supply: 400

Secondary Water Use: Irrigation: --

Industrial water: --

Water Tariff Structure: MAJOR CONSUMERS METERED

Planned Rehabilitation: NO

Describe:

Planned Expansion: NO

Describe:

Surface Water Project

Water Right No:

Date of Issue:

Name of Holder:

Tributary:

River:

Amount:

Type of Intake Facility: WEIR

Dam type:

Dam height:

Dam length:

Capacity:

Weir type:

Weir height: 1M

Weir length: 8M

Intake rate: 2,600

Pump type: FLYGT

Pump lift:

Power: 22.0 KW

Pumping rate:

25.0 L/SEC

Other Facility:

Name of Facility:

Condition of Intake Facility: FAIR

Comments:

Groundwater Project

Name of Wellfield:

Number of Wells:

Total Production:

Additional Information

Though operation is 24 hours, water supply is limited to 18 hours.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **SAMFYA**

Township : **SAMFYA**

Record No. : **56**

District : **SAMFYA**

Province : **LUAPULA**

General

Managing Body : **DWA**

Population Served : **6,900**

Design Capacity :

Total Population : **11,000**

Current Supply : **1,700**

Future Supply :

Water Treatment

Water Treatment Facility :

a) **SLOW FILTER**

b)

c)

Other :

Chemical Treatment :

a) **CHLORINE**

b)

Other :

State of Operation :

FULL TIME

From :

To :

Reasons :

a)

b)

c)

Other :

Condition of Treatment Facility : **GOOD**

Comments :

Distribution System :

Piped supply : **4,500**

Communal supply : **2,400**

Secondary Water Use :

Irrigation : **--**

Industrial water : **--**

Water Tariff Structure :

MAJOR CONSUMERS METERED

Planned Rehabilitation :

Describe :

Planned Expansion :

YES

Describe :

Increase water production.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility : **PUMP**

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : **SURFACE CENTRIFUGAL**

Pump lift : **7M**

Power : **5.5 KW**

Pumping rate :

25.0 L/SEC

Other Facility :

Name of Facility :

Condition of Intake Facility : **FAIR**

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

Storage facilities amount to 1600m³ and are hardly filled. Water supply is limited to 12 hours per day.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project: **MUSONDA FALLS** Township: **POWER STATION** Record No.: **57**
District: **MWENSE** Province: **LUAPULA**

General

Managing Body: **ZESCO**
Population Served: **500** Total Population: **800**
Design Capacity: **22** Current Supply: **106** Future Supply: **500**

Water Treatment

Water Treatment Facility: a) **NONE** b) c)
Other:
Chemical Treatment: a) **NONE** b) c)
Other:
State of Operation: **PART TIME** From: **06** To: **08**
Reasons: a) **ADEQUATE** b) c)
Other: **SMALL RANK CAPACITY**
Condition of Treatment Facility: **FAIR** Comments:
Distribution System: Piped supply: **100** Communal supply: **500**
Secondary Water Use: Irrigation: **--** Industrial water: **--**
Water Tariff Structure:
Planned Rehabilitation: **YES**
Describe: **Underground tank leaking. Bus requires standby tank before work plan proceeds to repair and add filtration and chlorination.**
Planned Expansion: **YES**
Describe: **Expand current capacity of tank. Complete filtration and chlorination plant to increase user numbers vigorously.**

Surface Water Project

Water Right No: Date of Issue: Name of Holder:
Tributary: **LIFUBU** River: **LUONGO** Amount:
Type of Intake Facility: **WEIR**

Dam type: Dam height: Dam length: Capacity:
Weir type: **MASONRY** Weir height: **6M** Weir length: **115M** Intake rate:
Pump type: **GRUNDEOS** Pump lift: Power: **7.5 KW**
Pumping rate:
Other Facility:
Name of Facility:
Condition of Intake Facility: **FAIR** Comments:
Groundwater Project

Name of Wellfield:
Number of Wells: Total Production:
Additional Information

Luapula (Musonda in particular) is prone to water borne diseases like cholera, diarrhoea, typhoid & dysentery.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **KASAMA WATER SUPPLY** Township : **KASAMA** Record No. : **58**
District : **KASAMA** Province : **NORTHERN**

General

Managing Body : **COUNCIL**
Population Served : **49,795** Total Population : **241,840**
Design Capacity : **72,096** Current Supply : **12,000** Future Supply : **21,600**

Water Treatment

Water Treatment Facility : a) **SLOW FILTER** b) **RAPID FILTER** c)
Other :
Chemical Treatment : a) **CHLORINE** b)
Other :
State of Operation : **FULL TIME** From : To :
Reasons : a) b) c)
Other :
Condition of Treatment Facility : **FAIR** Comments :
Distribution System : Piped supply : **35,780** Communal supply : **14,014**
Secondary Water Use : Irrigation : **--** Industrial water : **1,500**
Water Tariff Structure : **FLAT RATE**
Planned Rehabilitation : **YES**
Describe : **Improvements of water reticulation network in the township.**
Planned Expansion : **YES**
Describe : **Uprate water mains to Mulenga Hill. Lay new mains for development areas like Chikumanind, Kambotore, etc.**

Surface Water Project

Water Right No : Date of Issue : Name of Holder :
Tributary : **LUKUPA** River : Amount :

Type of Intake Facility : **PUMP**

Dam type : Dam height : Dam length : Capacity :
Weir type : Weir height : Weir length : Intake rate :
Pump type : **KSB-DEEPWELL** Pump lift : **58M** Power : **160.0 KW**
Pumping rate : **70.0 L/SEC**
Other Facility : **2 SAME TYPE**
Name of Facility : **LUKUPA WATER**
Condition of Intake Facility : **GOOD** Comments :

Groundwater Project

Name of Wellfield :
Number of Wells : Total Production :

Additional Information

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : MPIKA WATER SUPPLY **Township :** BOMA/TAZARA **Record No. :** 59
District : MPIKA **Province :** NORTHERN

General

Managing Body : COUNCIL
Population Served : 13,200 **Total Population :** 120,000
Design Capacity : 2,500 **Current Supply :** 1,500 **Future Supply :** 6,000

Water Treatment

Water Treatment Facility : a) SLOW FILTER b) c)
Other :
Chemical Treatment : a) CHLORINE b)
Other :
State of Operation : PART TIME **From :** **To :**
Reasons : a) SPARES b) LABOUR c) ADEQUATE
Other : PLANT HAS OVER STAY
Condition of Treatment Facility : POOR **Comments :**

Distribution System : Piped supply : 12,000 **Communal supply :** 1,200
Secondary Water Use : Irrigation : -- **Industrial water :** --
Water Tariff Structure : FLAT RATE

Planned Rehabilitation : YES
Describe : Overhauling the two existing plants, upgrading distribution lines including gadgets like valves, construction of service reservoirs & expansion of improving reservoirs.

Planned Expansion : YES
Describe : To extend or construct three more slow sand filters, expansion of the intake weir installation of two more pumps at the two plants.

Surface Water Project

Water Right No : **Date of Issue :** **Name of Holder :** MPIKA D. COUNCIL
Tributary : MALASHI **River :** MWAMFUSHI **Amount :** 4,500

Type of Intake Facility : DAM

Dam type : CONCRETE **Dam height :** 2M **Dam length :** 10M **Capacity :**
Weir type : ROCK FILL **Weir height :** 3M **Weir length :** 5M **Intake rate :**
Pump type : ROTORDYNAM **Pump lift :** **Power :** 380.0 KW
Pumping rate :
Other Facility :
Name of Facility :
Condition of Intake Facility : POOR **Comments :**

Groundwater Project

Name of Wellfield : **Total Production :**
Number of Wells :

Additional Information

Mpika mainly depends on surface water supply though in some villages wells have been dug by the local people.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : KAPUTA
District : KAPUTA

Township :
Province : NORTHERN

Record No. : 60

General

Managing Body : DWA
Population Served : 1,780
Design Capacity : 415
Total Population : 8,000
Current Supply : 74
Future Supply : 1,200

Water Treatment

Water Treatment Facility : a) SEDIMENTATION b) SLOW FILTER c)
Other :
Chemical Treatment : a) CHLORINE b) ALUM
Other :
State of Operation : PART TIME From : 07 To : 18
Reasons : a) FUNDS b) c)
Other : PIPES CLOGGED BY CAL
Condition of Treatment Facility : POOR **Comments :**

Distribution System : Piped supply : 820 Communal supply : 960
Secondary Water Use : Irrigation : -- Industrial water : --
Water Tariff Structure : FLAT RATE

Planned Rehabilitation : YES
Describe : Planned but no funds. Overhaul diesel engines. Repair sedimentation & filter tanks. Resanding of filters.

Planned Expansion : YES
Describe : Planned but no funds. Augmentation of network. Increase production capacity by installation of bigger pumps & motors. Electrification of scheme. Increase reservoir capacity and making elevated tank.

Surface Water Project

Water Right No. : **Date of Issue :** **Name of Holder :** DIRECTOR WATER A
Tributary : **River :** **Amount :**

Type of Intake Facility : PUMP

Dam type : **Dam height :** **Dam length :** **Capacity :**
Weir type : **Weir height :** **Weir length :** **Intake rate :**
Pump type : KSB E7A 65 **Pump lift :** 3M **Power :** 11.0 KW
Pumping rate : 100.0 L/SEC
Other Facility : PUMP RUN ENG ST2
Name of Facility : KAPUTA WATER SUPPLY
Condition of Intake Facility : POOR **Comments :**

Groundwater Project

Name of Wellfield : **Total Production :**
Number of Wells :

Additional Information

The water supply scheme is very old still operating using diesel engines. It has proved to be a very expensive scheme to run. The scheme generally is with a lot of problems. Very poor pressure distribution. Most of the houses

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : MPULUNGU WATER SUPPLY Township : MPULUNGU Record No. : 61
District : MBALA Province : NORTHERN

General

Managing Body :	DWA		
Population Served :	6,354	Total Population :	8,946
Design Capacity :	1,944	Current Supply :	1,150
			Future Supply : 3,500

Water Treatment

Water Treatment Facility :	a) SEDIMENTATION	b) SLOW FILTER	c)
	Other :		
Chemical Treatment :	a) CHLORINE	b) ALUM	
	Other :		
State of Operation :	PART TIME	From : 06	To : 18
Reasons :	a)	b)	c)
	Other : INSUFFICIENT STORAGE		
Condition of Treatment Facility :	FAIR	Comments :	

Distribution System :	Piped supply :	3,390	Communal supply :	555
Secondary Water Use :	Irrigation :	--	Industrial water :	--
Water Tariff Structure :	FLAT RATE			

Planned Rehabilitation :	YES
Describe :	Repair existing intake pump unit and install stand-by unit. Due to low water lake level, improve intake.

Planned Expansion : YES
Describe : Irish aid to construct an additional w/supply from a river and additional storage tanks.

Surface Water Project

Water Right No.:	Date of Issue:	Name of Holder:
Tributary:	River:	Amount:

Type of Intake Facility : PUMP

Dam type :	Dam height :	Dam length :	Capacity :
Weir type :	Weir height :	Weir length :	Intake rate :
Pump type : KSB (FRANCE)		Pump lift : 5M	Power : 37.0 KW
Pumping rate :			

Other Facility :
Name of Facility :
Condition of Intake Facility : FAIR Comments : THE TOP INTAKE BE LO

Groundwater Project

Name of Wellfield : _____
 Number of Wells : _____ Total Production : _____

Additional Information

Though the scheme is recently rehabilitated under the World Bank Programme. The scheme still experiences insufficient water due to low pumping capacity, therefore some outlying villages & new consumers cannot be connected due to

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **MPOROKOSO**

Township : **MPOROKOSO**

Record No. : **62**

District : **MPOROKOSO**

Province : **NORTHERN**

General

Managing Body : **DWA**

Population Served : **1,500**

Design Capacity :

Total Population : **6,000**

Current Supply : **430**

Future Supply :

Water Treatment

Water Treatment Facility :

a) **SLOW FILTER**

b)

c)

Other :

Chemical Treatment :

a) **CHLORINE**

b)

Other :

State of Operation :

PART TIME

From : **01**

To : **20**

Reasons :

a) **FUNDS**

b)

c)

Other : **PUMP NOT IN GOOD SHAPE**

Condition of Treatment Facility : **POOR**

Comments : **THE SCHEME IS OLD**

Distribution System :

Piped supply : **873**

Communal supply : **627**

Secondary Water Use :

Irrigation : **--**

Industrial water : **--**

Water Tariff Structure :

FLAT RATE

Planned Rehabilitation :

YES

Describe :

At district level, we need to replace the 6" ~ AC pipes with 8" ~ AC pipes of bigger diameter due to age, 2nd standby units, chlorination, resanding.

Planned Expansion :

YES

Describe :

Establishing of new water intake at Mutotoshi River and extension of reticulation system.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

DIRECTOR WATER A

Tributary :

River :

Amount :

Type of Intake Facility :

Dam type :

Dam height :

Dam length :

Capacity :

Weir type : **CONCRETE**

Weir height : **1M**

Weir length : **50M**

Intake rate :

Pump type : **KSB/RAPID**

Pump lift :

Power : **37.0 KW**

Pumping rate :

Other Facility :

EQUIP. TOO OLD

Name of Facility :

WATER AFFAIRS

Condition of Intake Facility :

POOR

Comments : **MUCH WATER LILLIES**

Groundwater Project

Name of Wellfield :

Number of Wells :

2

Total Production :

Additional Information

The intake is very small as compared to the township water demand. Often dries up towards dry seasons. There is need to establish new intake at Mutotoshi River where water is in abundance & a perennial river, 2 boreholes

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **LUWINGU**
District : **LUWINGU**

Township : **LUWINGU**
Province : **NORTHERN**

Record No. : **63**

General

Managing Body : **DWA**
Population Served : **7,500**
Design Capacity : **1,555**

Total Population : **12,000**
Current Supply : **1,100**

Future Supply : **2,652**

Water Treatment

Water Treatment Facility : a) **SLOW FILTER** b) c)
Other :
Chemical Treatment : a) **CHLORINE** b)
Other :
State of Operation : **PART TIME** From : **06** To : **15**
Reasons : a) **SPARES** b) c)
Other : **INADEQUATE TREATMENT**
Condition of Treatment Facility : **POOR** Comments : **11KM OF PUMP IS PVC**

Distribution System : Piped supply : **3,000** Communal supply : **4,500**
Secondary Water Use : Irrigation : **--** Industrial water : **--**
Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **YES**
Describe : **Replacement of 10" PVC pipes with 10" steel pipes on the rising main.
Repair of leaking elevated braithwaite tank. Installation of standby pumpsets.**

Planned Expansion : **YES**
Describe : **Construction of an extra slow sand filter. Replace low capacity pumps at
treatment works with higher capacity pumps.**

Surface Water Project

Water Right No : Date of Issue : Name of Holder : **DEPT. WATER AFFAIRS**
Tributary : River : Amount :

Type of Intake Facility : **PUMP**

Dam type : Dam height : Dam length : Capacity :
Weir type : **CONCRETE** Weir height : Weir length : Intake rate :
Pump type : **KSB** Pump lift : Power : **55.0 KW**
Pumping rate :
Other Facility :
Name of Facility : **DIRECT PIPE TO R
LUFUBU INTAKE**
Condition of Intake Facility : **FAIR** Comments :

Groundwater Project

Name of Wellfield :
Number of Wells : Total Production :

Additional Information

The 10 inch rising main consisting mainly of PVC pipes has frequent bursts & need replacing PVC with steel pipes/AC pipes. The 3 pumping stations have no standby facilities each having only one pump & one MOTPT. The scheme can

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : ISOKA

Township : ISOKA

Record No. : 64

District : ISOKA

Province : NORTHERN

General

Managing Body : DWA

Population Served : 10,000

Design Capacity : 1,512

Total Population : 15,000

Current Supply : 800

Future Supply : 3,024

Water Treatment

Water Treatment Facility :

a) NONE

b)

c)

Other :

Chemical Treatment :

a) CHLORINE

b)

Other :

State of Operation :

FULL TIME

From :

To :

Reasons :

a)

b)

c)

Other :

Condition of Treatment Facility : FAIR

Comments :

Distribution System :

Piped supply : 2,580

Communal supply : 7,420

Secondary Water Use :

Irrigation : --

Industrial water : --

Water Tariff Structure :

FLAT RATE

Planned Rehabilitation :

YES

Describe :

Replacement of bisser pumping units 55kW motor by the Irish aid to Zambia at water treatment plant.

Planned Expansion :

YES

Describe :

Extension of the distribution network to the new Isoka Township boundary which will extend to more than four villages.

Surface Water Project

Water Right No. :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility : OTHER

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : KSB 65-250

Pump lift : 3M

Power : 55.0 KW

Pumping rate :

14.0 L/SEC

Other Facility :

PUMP WILL 28.8M³

Name of Facility :

OLD SCHEME TANK

Condition of Intake Facility :

FAIR

Comments :

Groundwater Project

Name of Wellfield :

NEW INTAKE SOURCE

Number of Wells :

Total Production : 1,200

Additional Information

Isoka has 2 intakes; the old scheme & the spring drainage. Both are in fair condition. The reticulation system needs a complete augmentation including extending to outlying villages.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : NAKONDE WATER SUPPLY **Township :** KANYALA/MWENZO **Record No. :** 65
District : **Province :** NORTHERN

General

Managing Body : DWA
Population Served : 9,900 **Total Population :** 20,000
Design Capacity : 831 **Current Supply :** 731 **Future Supply :** 1,041

Water Treatment

Water Treatment Facility : a) SEDIMENTATION b) SLOW FILTER c) AERATION
Other :
Chemical Treatment : a) CHLORINE b) ALUM
Other :
State of Operation : FULL TIME **From :** **To :**
Reasons : a) b) c)
Other :
Condition of Treatment Facility : FAIR **Comments :**

Distribution System : Piped supply : 3,000 **Communal supply :** 6,900
Secondary Water Use : Irrigation : -- **Industrial water :** --
Water Tariff Structure : FLAT RATE

Planned Rehabilitation : YES
Describe : Resanding of slow sand filters, standby pump units at Raw Water and High Lift Pump houses, replace deformed Braithwater tank plates.

Planned Expansion : YES
Describe : A new distribution system between treatment works and Mwenzo, to supply Rasichila, and Malange villages. Replace aged 2" Asbestos pipe.

Surface Water Project

Water Right No : **Date of Issue :** **Name of Holder :**
Tributary : **River :** **Amount :**

Type of Intake Facility : DAM

Dam type : EARTH DAM **Dam height :** 3M **Dam length :** 76M **Capacity :**
Weir type : **Weir height :** **Weir length :** **Intake rate :**
Pump type : KSB E7A **Pump lift :** **Power :** 55.0 KW
Pumping rate :
Other Facility :
Name of Facility :
Condition of Intake Facility : POOR **Comments :**

Groundwater Project

Name of Wellfield : **Total Production :**
Number of Wells :

Additional Information

The Braithwaite storage tank requires immediate attention whose leak's contributes to more than 30% losses of water at Mwezo reservoir. Standby pump units are needed at both intake & treatment works. All valves require attention,

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : CHINSALI

Township : CHINSALI

Record No. : 66

District : CHINSALI

Province : NORTHERN

General

Managing Body : DWA

Population Served : 3,280

Design Capacity : 1,685

Total Population : 8,000

Current Supply : 1,447

Future Supply : 3,280

Water Treatment

Water Treatment Facility :

a) SLOW FILTER

b)

c)

Other :

Chemical Treatment :

a) CHLORINE

b)

Other :

State of Operation :

PART TIME

From : 06

To : 18

Reasons :

a)

b)

c)

Other : INSUFFICIENT PUMPS

Condition of Treatment Facility : FAIR

Comments :

Distribution System :

Piped supply : 1,870

Communal supply : 1,410

Secondary Water Use :

Irrigation : --

Industrial water : --

Water Tariff Structure :

FLAT RATE

Planned Rehabilitation :

YES

Describe :

Resanding of filters. Provide standby pumping facilities.

Planned Expansion :

YES

Describe :

Augmentation of network to cover new development areas and some council houses currently not supplied.

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility : PUMP

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : KSBVI65-26

Pump lift : 1M

Power : 33.0 KW

Pumping rate :

Other Facility :

Name of Facility :

Condition of Intake Facility : FAIR

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

The scheme was constructed in 1976. Pumps were replaced with higher capacity pumps at intake 7.5kw motors while the clear water tank replaced with 30kw motors & KSB E7A pumps. Most valves need to be replaced. The aged asbestos

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **CHAMA**
District : **CHAMA**

Province : **EASTERN**
Township :

Record No. : **67**

General

Managing Body : **DWA**
Population Served : **3,000**
Design Capacity :

Total Population : **3,700**
Current Supply : **23**

Future Supply :

Water Treatment

Water Treatment Facility : a) **NONE** b) c)
Other :
Chemical Treatment : a) **CHLORINE** b)
Other :
State of Operation : **PART TIME** From : **06** To : **08**
Reasons : a) **FUNDS** b) c)
Other :

Condition of Treatment Facility : **FAIR** Comments :

Distribution System : Piped supply : **1,800** Communal supply : **1,200**
Secondary Water Use : Irrigation : **--** Industrial water : **--**
Water Tariff Structure :

Planned Rehabilitation : **YES**
Describe : **Acquisition of more borehole pumps. Repair of leakage in the reticulation network.**

Planned Expansion : **YES**
Describe : **Proposal to run borehole pumps on solar energy. Acquisition of bigger high lift pumps.**

Surface Water Project

Water Right No : Date of Issue : Name of Holder :
Tributary : River : Amount :

Type of Intake Facility :

Dam type : Dam height : Dam length : Capacity :
Weir type : Weir height : Weir length : Intake rate :
Pump type : Pump lift : Power :
Pumping rate :
Other Facility :
Name of Facility :
Condition of Intake Facility : Comments :

Groundwater Project

Name of Wellfield : **BOREHOLE 1, 3, 7, 8, 9 & 10**
Number of Wells : **6** Total Production : **666**

Additional Information

Although the supply to consumers is for 2 hours & less, the pumps, i.e., lowlift operate for 7 hours. This is due to the fact that there are only 2 borehole out of 6 equipped with pumps. Water tariff is metered & unmetered connection

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : LUNDAZI

District : LUNDAZI

Township :

Record No. : 68

Province : EASTERN

General

Managing Body : DWA

Population Served : 10,000

Design Capacity :

Total Population : 10,000

Current Supply : 900

Future Supply :

Water Treatment

Water Treatment Facility : a) SEDIMENTATION b) SLOW FILTER c)

Other :

Chemical Treatment : a) CHLORINE b) ALUM

Other :

State of Operation : PART TIME From : 06 To : 15

Reasons : a) FUNDS b) c)

Other :

Condition of Treatment Facility : POOR **Comments :**

Distribution System : Piped supply : 5,500

Communal supply : 4,500

Secondary Water Use : Irrigation : --

Industrial water : --

Water Tariff Structure :

Planned Rehabilitation : YES

Describe :

Replacement of sand in slow sand filters. Some portions of the distribution lines need to have the 3/4" G.T. pipes replaced with 3" A.C. pipes.

Planned Expansion : YES

Describe :

Acquisition of bigger pumps, thereafter, extension of reticulation network to new areas being developed.

Surface Water Project

Water Right No. :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility : DAM

Dam type : EARTH

Dam height : 9M

Dam length : 250M

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : FLYGT (SUBM)

Pump lift : 7M

Power : 30.0 KW

Pumping rate :

25.0 L/SEC

Other Facility :

Name of Facility :

Condition of Intake Facility : POOR

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

Although consumers receive water for only 9 hours a day, the lowlift pump actually runs for over 20 hours a day.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **CHADIZA**
District : **CHADIZA**

Township :
Province : **EASTERN**

Record No. : **69**

General

Managing Body : **DWA**
Population Served : **4,000**
Design Capacity :

Total Population :
Current Supply : **900** Future Supply :

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **SLOW FILTER** c)
Other :
Chemical Treatment : a) **CHLORINE** b) **ALUM**
Other :
State of Operation : **PART TIME** From : **05** To : **09**
Reasons : a) **FUNDS** b) c)
Other :
Condition of Treatment Facility : **FAIR** Comments :

Distribution System : Piped supply : -- Communal supply : --
Secondary Water Use : Irrigation : -- Industrial water : --
Water Tariff Structure :

Planned Rehabilitation : **YES**
Describe : **Replacement of ball valves and pressure ring rubbers in the raising main.
Repair of high level tanks that are leaking.**

Planned Expansion : **YES**
Describe : **To lay distribution lines to the open air prison and the new compound east of
the township.**

Surface Water Project

Water Right No : Date of Issue : Name of Holder :
Tributary : River : Amount :

Type of Intake Facility : **WEIR**

Dam type : Dam height : Dam length : Capacity :
Weir type : **BUTTRESS** Weir height : **9M** Weir length : Intake rate :
Pump type : **SUBMERSIBLE** Pump lift : Power :
Pumping rate :
Other Facility :
Name of Facility : **NSADZU**
Condition of Intake Facility : **FAIR** Comments :

Groundwater Project

Name of Wellfield :
Number of Wells : Total Production :

Additional Information

Although the supply to consumers is about 10 hours a day, the lowlift pumps run for over 20 hours a day.

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : KATETE

Township :

Record No. : 70

District : KATETE

Province : EASTERN

General

Managing Body : DWA

Population Served : 2,500

Design Capacity :

Total Population : 7,500

Current Supply : 200

Future Supply :

Water Treatment

Water Treatment Facility :

a) NONE

b)

c)

Other :

Chemical Treatment :

a) CHLORINE

b)

Other :

State of Operation :

PART TIME

From : 06

To : 12

Reasons :

a) FUNDS

b)

c)

Other :

Condition of Treatment Facility : GOOD

Comments :

Distribution System :

Piped supply : 2,406

Communal supply : 94

Secondary Water Use :

Irrigation : --

Industrial water : --

Water Tariff Structure :

Planned Rehabilitation :

YES

Describe :

Acquisition of enough water metres and fittings to metre all consumers.

Planned Expansion :

YES

Describe :

Proposal to construct a dam or identification of additional well field.
Acquisition of booster pumps.

Surface Water Project

Water Right No. :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility :

Dam type :

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type :

Pump lift :

Power :

Pumping rate :

Other Facility :

Name of Facility :

Condition of Intake Facility :

Comments :

Groundwater Project

Name of Wellfield :

BOREHOLE 1, 4, 8, 11, 15

Number of Wells :

6

Total Production : 220

Additional Information

Although actual supply to consumers is only 6 hours, the borehole pumps run for almost 24 hours a day. Only a third of the township population receive the supply. On water tariff none of the given options satisfy the existing

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **PETAUKE**
District : **PETAUKE**

Township : **PETAUKE**
Province : **EASTERN**

Record No. : **71**

General

Managing Body : **DWA**
Population Served : **11,327**
Design Capacity : **535**

Total Population : **20,000**
Current Supply : **647**

Future Supply : **2,500**

Water Treatment

Water Treatment Facility : a) **AERATION** b) c)
Other :
Chemical Treatment : a) **CHLORINE** b)
Other :
State of Operation : **PART TIME** From : **05** To : **08**
Reasons : a) b) c)
Other : **INADEQUATE LOW LIFT C**
Condition of Treatment Facility : **POOR** Comments :

Distribution System : Piped supply : **10,031** Communal supply : **1,296**
Secondary Water Use : Irrigation : **--** Industrial water : **--**
Water Tariff Structure : **FLAT RATE**

Planned Rehabilitation : **YES**
Describe : **90m³/hr high lift motor and pump. New submersibles for five boreholes. Overhauling the distribution mains due to under size.**

Planned Expansion : **YES**
Describe : **New residentials and township expansions are not yet served ideally from the supply. Complete new scheme design and construction works are required. Present scheme designed for 3,500 persons as compared to present population of 11,000 persons.**

Surface Water Project

Water Right No : Date of Issue : Name of Holder :
Tributary : River : Amount :

Type of Intake Facility :

Dam type : Dam height : Dam length : Capacity :
Weir type : Weir height : Weir length : Intake rate :
Pump type : Pump lift : Power :
Pumping rate :
Other Facility :
Name of Facility :
Condition of Intake Facility : Comments :

Groundwater Project

Name of Wellfield : **NYIKA VALLEY**
Number of Wells : **7** Total Production : **726**

Additional Information

Urgent attention needed for water demand is higher than design capacity. The water works require expansion & township high level tanks & distribution mains to be expanded. Calcium to be trapped at water works

WATER SUPPLY PROJECT - DATA RECORD

Name of Project : **NYIMBA**

Township :

Record No. : **72**

District :

Province : **EASTERN**

General

Managing Body : **DWA**

Population Served : **5000**

Design Capacity : **675**

Total Population : **11377**

Current Supply : **162**

Future Supply : **1350**

Water Treatment

Water Treatment Facility : a) **SEDIMENTATION** b) **SLOW FILTER** c) **Other :**

Chemical Treatment : a) **CHLORINE** b) **ALUM** c) **Other :**

State of Operation : **PART TIME** From : **14** To : **20**

Reasons : a) **FUNDS** b) **Other :** c) **Other :**

Condition of Treatment Facility : **GOOD** Comments :

Distribution System : **Piped supply : 4317**

Communal supply : 683

Secondary Water Use : **Irrigation : --**

Industrial water : --

Water Tariff Structure :

Planned Rehabilitation :

Describe :

Planned Expansion :

Describe :

Surface Water Project

Water Right No :

Date of Issue :

Name of Holder :

Tributary :

River :

Amount :

Type of Intake Facility : **DAM**

Dam type : **MASONRY**

Dam height :

Dam length :

Capacity :

Weir type :

Weir height :

Weir length :

Intake rate :

Pump type : **CENTRIFUGAL**

Pump lift : **85M**

Power :

Pumping rate :

54.0 L/SEC

Other Facility :

EARTH COMPACT

Name of Facility :

2 GENER. & 4 PUMPSET

Condition of Intake Facility :

GOOD

Comments :

Groundwater Project

Name of Wellfield :

Number of Wells :

Total Production :

Additional Information

Reticulation line needed to 4 compounds. A big steel tank needed for future use as population grows.

Evacuation of trunkmain to areas above. Construction of new office block & 2 staff houses. 4 boreholes required near

DB-4-2 Water Rights by Province

LUSAKA PROVINCE WATER RIGHTS

NO.	DATE	HOLDERNAME	STATUS		TRIBUTARY	RIVER	AMOUNT		
1967.0	12/9/80	IGNATIUS.H. MUCHANG	FALSE	12	10	BUYUNI	CHALIMBANA	1	600
2567.0	12/4/80	NOEL M. MATONGO	TRUE	11	10	BUYUNI	CHALIMBANA	1	150
2370.0	10/17/78	MORESTER FARMS LTD	TRUE	12	10	CHILONGA	CHALIMBANA	1	10000
3081.0	5/21/87	RUTH ENDAENDA	TRUE	12	10	KACECELUKA	CHALIMBANA	1	200
3224.0	5/21/87	CHILSE WILLIAM PHIRI	TRUE	12	10	KAPILYOMBA	CHALIMBANA	1	2500
1288.0	5/30/68	K.J. ADAMS	FALSE	12	10	UNNAMED	CHALIMBANA	1	91
1298.0	10/12/63	CHALIMBANA GOVERN.F	FALSE	12	10	CHALIMBANA	CHONGWE	1	1364
1487.0	11/11/77	CHALIMBANA TRAINING	TRUE	12	10	CHALIMBANA	CHONGWE	1	540
1779.0	12/4/80	ZAMBIA CATTLE DEV.LTD	FALSE	12	10	CHALIMBANA	CHONGWE	1	1295
1837.0	12/4/80	ZAMBIA CATTLE DEV.LTD	FALSE	12	10	CHALIMBANA	CHONGWE	1	200
1847.0	11/10/77	CHRISTOFFEL ANDREIES	FALSE	12	10	CHALIMBANA	CHONGWE	1	400
1912.0	10/12/78	CLARA ANDREA KYRIAC	FALSE	12	10	CHALIMBANA	CHONGWE	1	900
2179.0	11/9/81	ZAMBIA CATTLE DEV LTD	FALSE	12	10	CHALIMBANA	CHONGWE	1	250
2202.0	10/14/83	DAPHIE S. KANOSO	FALSE	12	10	CHALIMBANA	CHONGWE	1	850
2269.0	10/14/83	SILVER RIVERS RANCH	FALSE	12	10	CHALIMBANA	CHONGWE	1	1136
2289.0	11/10/77	JOHANNES .T. PIETERSE	FALSE	12	10	CHALIMBANA	CHONGWE	1	150
2293.0	11/11/77	JOHN.F.W. FYUU	FALSE	12	10	CHALIMBANA	CHONGWE	1	1364
2312.0	10/12/78	UNIVERSITY FARM	FALSE	12	10	CHALIMBANA	CHONGWE	1	8000
2335.0	11/14/84	PETER SIKALU	TRUE	12	10	CHALIMBANA	CHONGWE	1	230
2344.0	10/12/78	TEDDY N SAKALA	TRUE	12	10	CHALIMBANA	CHONGWE	1	200
2375.0	10/14/83	FENELLA.M.W.PESTEL	FALSE	12	10	CHALIMBANA	CHONGWE	1	200
2472.0	5/21/87	RUTH ENDAENDA	FALSE	12	10	CHALIMBANA	CHONGWE	1	600
2479.0	11/26/82	CHAINDA DAIRY ZAMBIA	FALSE	12	10	CHALIMBANA	CHONGWE	1	500
2577.0	11/26/82	MITI CHIFIRE	TRUE	12	10	CHALIMBANA	CHONGWE	1	1000
2797.0	11/26/82	HINDU ASSOCIATION	FALSE	12	10	CHALIMBANA	CHONGWE	1	250
2896.0	11/14/84	WATERGREEN LTD	FALSE	12	10	CHALIMBANA	CHONGWE	1	1625
2897.0	11/14/89	WATERGREEN LTD	FALSE	12	10	CHALIMBANA	CHONGWE	1	2700
2897.0	11/13/84	WATERGREEN LTD		11	10	CHALIMBANA	CHONGWE	1	1625
2899.0	11/14/84	WATERGREEN LTD	FALSE	12	10	CHALIMBANA	CHONGWE	1	2700
2902.0	10/11/83	DAPHINE .S. KANOSO		11	10	CHALIMBANA	CHONGWE	1	850
2926.0	10/14/83	JAHHANNES GERHARDUS	TRUE	12	10	CHALIMBANA	CHONGWE	1	250
2931.0	10/14/83	G.F.W.FYNN	TRUE	12	10	CHALIMBANA	CHONGWE	1	4000
2946.0	10/14/83	DONALD B. BELL-CROSS	TRUE	12	10	CHALIMBANA	CHONGWE	1	1200
3012.0	11/14/84	EXCHANGE FARM LTD	TRUE	12	10	CHALIMBANA	CHONGWE	1	1000
1274.0	10/2/63	S.M. SHANKER	FALSE	12	10	CHALIMBANA	CHONGWE	1	455
3541.0	12/7/88	JAN GEORGE BERDER	TRUE	11	10	CHALIMBANA	CHONGWE	1	1200
2007.0	12/4/80	ZESCO LTD	FALSE	12	10	CHAMBA	CHONGWE	1	45
2304.0	12/12/85	MALAMBO.B. NGANDU	FALSE	12	10	CHINGA	CHONGWE	1	350
1988.0	11/1/73	ZAMANGLO INDUST. CO	FALSE	12	10	CHIPILIPILI	CHONGWE	1	0
2075.0	11/5/74	L.A. BANDA	FALSE	12	10	KANAKANTAPA	CHONGWE	1	25
2991.0	4/13/84	KARUBWE HOLDINGS LT	TRUE	12	10	KARUBWE	CHONGWE	1	3600
2149.0	11/14/84	KAPOSHI FARM	TRUE	12	10	KASENGE	CHONGWE	1	600
2992.0	11/14/84	CHIBOTE FARM LTD	TRUE	12	10	KASENGE	CHONGWE	1	300
2350.0	11/10/79	MAXWELL KANEMA	FALSE	12	10	LWIMBA	CHONGWE	1	90
2390.0	11/16/90	MAXWELL KANEMA	FALSE	11	10	LWIMBA	CHONGWE	1	90
1405.0	9/10/71	BUNTUNGWA CO-OP SO	FALSE	12	10	NGWERERE	CHONGWE	1	181
1860.0	11/22/72	B.J. STUART IRWIN	TRUE	12	10	NGWERERE	CHONGWE	1	800
1878.0	11/7/72	KASISI AGRICULTURE SC	FALSE	12	10	NGWERERE	CHONGWE	1	1135
2354.0	10/14/83	GALAUNIA FARMS	FALSE	12	10	NGWERERE	CHONGWE	1	4120
2523.0	12/4/80	GALAUNIA FARMS LTD	TRUE	12	10	NGWERERE	CHONGWE	1	7000
2638.0	11/9/81	MARK ZAMACK	FALSE	12	10	NGWERERE	CHONGWE	1	800
3092.0	11/5/92	GALAUNIA FARMS LTD	TRUE	12	10	NGWERERE	CHONGWE	1	6000

LUSAKA PROVINCE WATER RIGHTS

NO.	DATE	HOLDERNAME	STATUS		TRIBUTARY	RIVER		AMOUNT
3259.0	6/21/87	KALIBBA FARMS	FALSE	12	10	NGWERERE	CHONGWE	1 250
3326.0	12/7/88	HANSHEER WALTER	FALSE	12	10	NGWERERE	CHONGWE	1 100
3360.0	11/22/72	BRIAN J.S. IRWIN	TRUE	12	10	NGWERERE	CHONGWE	1 600
4039.0	11/25/92	AIRPORT FARMS LTD	TRUE	12	10	NGWERERE	CHONGWE	1 7000
1860.0	12/9/87	BRIAN J.S. IRWIN	TRUE	11	10	NGWERERE	CHONGWE	1 1400
835.0	3/3/65	F. JONBERT	FALSE	12	10	UNNAMED	CHONGWE	1 113650
2786.0	12/10/87	YWCA LUSAKA BRANCH	TRUE	12	10	UNNAMED	CHONGWE	1 240
1976.0	11/1/73	FRANK DUN NOHOLOVU	FALSE	12	10	KACHETA	KACHETA	1 455
2133.0	11/9/81	WALKOVER ESTATES LT	TRUE	12	10	UNNAMED	KAPILYOMBA	1 2000
3730.0	11/28/89	INDIA MUSOKOTWANE	TRUE	11	10	UNNAMED	KARUBWE	1 100
1969.0	12/4/80	CENTRAL AFRICAN MOT	FALSE	11	10	CHAMBA	NGWERERE	1 15
3539.0	11/28/89	PETER C. KASOLO	TRUE	12	10	CHAMBA	NGWERERE	1 300
2655.0	12/7/88	MINISTRY OF DEFENCE	TRUE	12	10	CHINGAMOTI	NGWERERE	1 400
3307.0	12/9/87	LEONARD T. NGWISHA	FALSE	12	10	CHINGAMOTI	NGWERERE	1 60
2913.0	11/28/89	GALAUNIA FARMS LTD	TRUE	12	10	CHINGAMOTI	NGWERERE	1 400
2524.0	11/3/85	DANIEL H. LUZONGO	TRUE	12	10	MUMPILO	NGWERERE	1 90
2158.0	1/5/76	DONALD B. BELL-CROSS	FALSE	12	10	UNNAMED	NGWERERE	1 6
2734.0	12/7/88	PATSON D.M. LOMBE	TRUE	11	10	UNNAMED	NGWERERE	1 750
1770.0	12/6/71	DIRECTOR WATER AFFAI	FALSE	12	10	CHONGWE	ZAMBEZI	1 1000
2236.0	11/11/77	CHILAO MPATISHA FAMI	FALSE	12	10	CHONGWE	ZAMBEZI	1 600
3158.0	5/15/87	JONAS MATIVENGA	FALSE	12	10	CHONGWE	ZAMBEZI	1 1000
3458.0	12/5/88	HOWARD P. GLASSPOOL	TRUE	12	10	CHALIMBANA		1 300
1879.0	12/10/87	BRIAN RAYMOND BOWE	TRUE	12	10	CHAMBA		1 45
2022.0	11/5/74	JOHN MIKE	FALSE	12	10	CHONGWE		1 25
3987.0	4/10/93	DEPT OF RESETTLEMEN	TRUE	12	10	CHONGWE		1 3500
2482.0	11/16/79	A.A.SALAMA	FALSE	11	10	KABULONGA DAM		1 580
2515.0	11/9/81	JOSEPH C. TEMBO	FALSE	11	10	KALIKILIKI DAM		1 500
2958.0	11/14/84	MINISTRY YOUTH & SPO	FALSE	12	10	NGWERERE		1 4000
3474.0	12/7/88	ROMANCE CHANDA SAM	TRUE	12	10	NGWERERE		1 100
3560.0	11/7/89	NGWERERE FARM ENTE	TRUE	12	10	NGWERERE		1 280
1834.0	11/22/72	H.E. JOHNSON	FALSE	11	10	CHITUMBA	CHUNGA	2 230
2331.0	11/26/82	LAVU MULIMBA	FALSE	11	10	MAYUKUYUKU	CHUNGA	2 600
2439.0	5/18/87	MUSAFWA J. STANLEY	TRUE	11	10	MAYUKUYUKU	CHUNGA	2 200
1582.0	8/30/68	R.J. CHIVERS	TRUE	11	10	MUMPILO	CHUNGA	2 146
1768.0	11/11/77	SELIANO JINYA BANDA	FALSE	11	10	MUPILO	CHUNGA	2 23
1720.0	9/10/70	F.D. NDHLOVU	FALSE	11	10	MUPILU	CHUNGA	2 23
3401.0	11/28/89	ZAMBIA NATIONAL SERVI	TRUE	11	10	MUSOPELO	CHUNGA	2 1000
1835.0	11/10/77	H.E. JOHNSON	FALSE	11	10	MUSUPELO	CHUNGA	2 125
2498.0	5/21/87	CHUNGA RANCHES LTD	TRUE	11	10	MUYUKUYUKU	CHUNGA	2 1000
2395.0	11/14/84	BENSON MACHI SITUMB	TRUE	11	10	NAMALOMBWE	CHUNGA	2 300
2572.0	12/4/80	FLETCHER M. SIZIBA	TRUE	11	10	NAMALOMBWE	CHUNGA	2 300
3135.0	5/19/87	NICHOLAS P. BOBO	TRUE	11	10	NAMALOMBWE	CHUNGA	2 30000
3414.0	12/10/87	MZANYWA SOLOMON M	TRUE	11	10	NAMALOMBWE	CHUNGA	2 50
1590.0	9/10/69	H.E. JOHNSON	FALSE	11	10	NAMALOMBWE	CHUNGA	2 273
2497.0	5/21/87	CHUNGA RANCHING LTD	TRUE	11	10	NAMALOMBWE	CHUNGA	2 1000
1848.0	11/9/81	RODGERS M.M. MUMBI	TRUE	11	10	NAMALOMBWE	CHUNGA	2 140
1822.0	11/22/72	J. H. PATEL		11	10	NAMALOMBWE	CHUNGA	2 130
2223.0	5/21/87	FRANCIS D. KAMPUNI	TRUE	11	10	NAMWIMBWA	CHUNGA	2 250
1662.0	10/16/75	L.R. HARTCHINSON	FALSE	11	10	NGWERERE	CHUNGA	2 545
1795.0	12/6/71	B.R. MWANZA	FALSE	11	10	UNKNOWN	CHUNGA	2 23
3452.0	12/7/88	LIVINGSTON J.C. NGULUB	TRUE	11	10	UNKNOWN	CHUNGA	2 300
1320.0	12/4/80	DAVID F. QUIRK	FALSE	11	10	UNNAMED	CHUNGA	2 45