

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE VARIOUS SOURCE PUMPS
(SAMPLING DATE 27/03/14)**

Parameters	Desirable Limit	Maximum Limit	P1	P2B	P3	P4	P7	P8	P9	P10	P11
pH	6.5 to 8.5	No relaxation	7.8	6.9	7.2	7.2	7.2	7.2	7.2	7.1	7.16
TDS (mg/l)	500	2000	475	379	447	698	683	744	411	664	709
Hardness (as CaCO ₃) (mg/l)	300	600	100	130	120	120	160	170	200	170	160
Alkalinity (as CaCO ₃) (mg/l)	200	600	300	320	320	330	320	330	320	340	380
Nitrate (mg/l)	50	No relaxation	0.2	0.21	0.27	0.31	0.29	0.35	0.39	0.47	0.55
Sulfate (mg/l)	200	400	45	56	64	41	52	55	60	66	57
Fluoride (mg/l)	1	1.5	0.58	0.74	0.76	0.57	0.35	0.3	0.73	0.74	0.39
Chloride (mg/l)	250	1000	145	37	142	212	295	105	80	125	117
Turbidity (NTU)	5	10	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
Arsenic (mg/l)	0.01	No relaxation	0.002	0.0013	0.0024	0.0017	0.0017	0.0019	0.0008	0.0007	0.0017
Copper (mg/l)	0.05	1.5	0.0024	BDL	BDL	BDL	0.0001	0.0008	BDL	BDL	BDL
Cadmium (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0017	BDL	0.00025	0.0022	0.003	0.0054	BDL	0.0056	0.0025
Lead (mg/l)	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	1	0.285	0.126	0.223	0.152	0.240	0.253	0.286	0.145	0.25
Zinc (mg/l)	5	15	BDL	0.005	BDL	BDL	0.002	BDL	BDL	0.004	BDL
Fecal Coliform (cfu)	0	0	0	0	0	0	0	0	0	0	0
E. Coli (cfu)	0	0	0	0	0	0	0	0	0	0	0

*BDL Below Detection Limit; NTU – Nephelometric Turbidity Unit; cfu - Colony forming Units in 100 ml of the sample
Detection Limits Pb 0.0001 mg/l, Cu 0.0001 mg/l, Cr 0.0005 mg/l, Fe 0.0001 mg/l, Cd 0.0004 mg/l, As 0.0001 mg/l, Zn 0.0005 mg/l*

REMARKS: Except Total dissolved solids (TDS) in source pumps P4, P7, P8, P10 and P11, all the other water quality parameters were within desirable limits. However, all the water quality parameters analyzed were within the maximum limits.