

Balochistan Environmental Quality Standards for Drinking Water

Properties/Parameters	Standard Values	WHO Standards	Remarks
All water intended for drinking (E. Coli or Thermo-tolerant Coliform bacteria)	Must not be detectable in any 100 ml sample	Must not be in any 100 ml	Most Asian countries also follow WHO standards
Treated water entering the distribution system (E. Coli or thermo tolerant coliform and total coliform bacteria)	Must not be detectable in any 100 ml sample	Must not be detectable in any 100 ml sample	Most Asian countries also follow WHO standards
Treated water in the distribution system (E, Coli or thermo tolerant coliform and total coliform bacteria)	Must not be detectable in any 100 ml sample In case of large supplies, where sufficient samples are examined, must not be present in 95% of the samples taken throughout any 12- month period.	Must not be detectable in any 100 ml sample In case of large supplies, where sufficient samples are examined, must not be present in 95% of the samples taken throughout any 12- month period.	Most Asian countries also follow WHO standards
Colour	<15 TCU	<15 TCU	
Taste	Non objectionable/ Acceptable	Non objectionable/ Acceptable	
Turbidity	Non objectionable/ Acceptable	Non objectionable/ Acceptable	
	<15 NTU	<15 NTU	

Properties/Parameters	Standard Values	WHO Standards	Remarks
Total hardness as CaCO³	<500 mg/l	-----	
TDS	<1000	< 1000	
pH	6.5—8.5	6.5—8.5	
Essential Inorganic	Mg/Liter	Mg/liter	
Aluminum (Al)mg/l	< 0.2	0.2	
Antimoney *Sb)	< 0.005(P)	0.02	
Arsenic (As)	< 0.05(P)	0.01	Standard for Pakistan similar to most Asian developing countries
Barium (Ba)	0.7	0.7	
Boron (B)	0.3	0.3	
Casmium (Cd)	0.01	0.003	Standard for Pakistan similar to most Asian developing countries
Chloride(Cl)	< 250	250	
Chromium(Cr)	< 0.05	0.05	
Copper(Cu)	2	2	
Toxic Inorganic	Mg/l	Mg/l	
Cyanide (CN)	< 0.05	0.07	Standard for Pakistan similar to most Asian developing countries

Fluoride(F)	<_1.5	1.5	
Lead(Pb)	<_0.05	0.01	Standard for Pakistan similar to most Asian developing countries
Manganese(Mn)	<_0.5	0.5	
Mercury(Hg)	<_0.001	0.001	
Nickle(Ni)	<_0.05	0.02	
Nitrate(NO³)	<_50	50	
Nitrate(NO²)	<_3 (P)	3	
Selenium(Se)	0.01 (P)	0.01	

Properties/Parameters	Standard Values	WHO Standards	Remarks
Residual Chlorine	0.2-0.5 at consumer end 0.5-1.5 at source		
Zinc (Zn)	5.0	3	Standard for Pakistan similar to most Asian developing countries
Organic			
Pesticides Mg/l			PSQCA No. 4639-2004, page No.1 Table No 3 Serial No 20-58 may be consulted
Phenolic Compounds (as Phenols) mg/l			
Poly nuclear aromatic hydrocarbons (as PAHs) g/l		0.01 (By GC/MS Method)	
Alpha Emitters bq/L or pCi	0.1	0.1	
Beta emitters	1	1	

- *Indicates priority health related inorganic constituents, which need regular monitoring.
- ** PSQCA: Pakistan Standards Quality Control Authority.