

RDIC Resource Laboratory
Water Quality Information Sheet

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Parameter	Formula	Units	Minumum Detection Limit	Drinking Water Standards		Discharge Standards		Method	2014 Price
				CDWQS ¹	WHO ²	SDWPC protected public water area	SDWPC public water area and sewer		
Alkalinity	-	mg/L	-	-	-	-	-	Titration	\$3.00
Ammonia	NH ₃	mg/L as NH ₃	-	1.5	-	5	7	Colorimetric Spectrophotometry	\$5.00
Ammonium	NH ₄ ⁺	mg/L	-	1	-	-	-	Ion Chromatography	\$8.00
Arsenic	As	mg/L	-	0.05	0.01	0.1	1	Test Strip Kit	\$2.00
			.0015ppm					Atomic Fluorescence Spectrophotometer	\$10.00
Bacteria: E. Coli and Total Coliforms	-	cfu/100 mL	-	0	-	-	-	Membrane Filtration	\$7.00
Bacteria Testing by using H2S test strip kit	-	-	-	0	-	-	-	H2S test strip kit	\$2.00
BOD5	-	DO mg/L	-	-	-	30	80	BOD5	\$15.00
Calcium	Ca	mg/L	-	-	-	-	-	Ion Chromatography	\$8.00
Chloride	Cl ⁻	mg/L	0.18	250	-	500	700	Ion Chromatography	\$4.00
Chlorine (Combined/Free/Total)	Cl	mg/L	-	0.2 - 0.5	0.2 - 0.5	-	-	Colorimetric Spectrophotometry	\$4.00
COD	-	DO mg/L	-	-	-	50	100	Digestion, Colorimetric Spectrophotometry	\$15.00
Conductivity	-	µS/cm	-	500	-	-	-	Meter	\$1.00
Color	-	TCU	-	5	-	-	-	-	\$2.00
Cyanide	CN ⁻	mg/L	-	0.07	-	-	-	Colorimetric Spectrophotometry	\$4.00
Dissolved Oxygen	-	DO mg/L	-	-	-	> 2	> 1	Meter	\$2.00
Fluoride	F	mg/L	0.35	1.5	1.5	-	-	Ion Chromatography	\$4.00
Hardness (Carbonate)	-	mg/L CaCO ₃	-	300	-	-	-	Titration	\$1.00
Hardness (Total)	-	mg/L CaCO ₃	-	300	-	-	-	Titration	\$2.00
Iron (Ferrous)	Fe	mg/L	-	0.3	-	1	20	Atomic Absorption Spectrophotometer	\$5.00
			-					Colorimetric Spectrophotometry	\$2.00
Magnesium	Mg	mg/L	-	-	-	-	-	Ion Chromatography	\$8.00
Manganese	Mn	mg/L	-	0.1	-0.4	1	5	Colorimetric Spectrophotometry	\$3.00
			0.03					Atomic Absorption Spectrophotometer	\$5.00
Mercury	Hg	mg/L	-	0.001	0.006	0.002	0.05	Atomic Fluorescence Spectrophotometer	\$25.00
Nitrate	NO ₃ ⁻	mg/L as NO ₃	0.13	50	50	10	20	Ion Chromatography	\$4.00
Nitrite	NO ₂ ⁻	mg/L as NO ₂	0.15	3	3	-	-	Ion Chromatography	\$4.00
pH	-	pH units	-	6.5 - 8.5	-	6.0 - 9.0	5.0 - 9.0	Meter	\$1.00
Potassium	K	mg/L	-	-	-	-	-	Ion Chromatography	\$8.00
Phosphate	PO ₄ ³⁻	mg/L as PO ₄	0.62	-	-	3	6	Ion Chromatography	\$4.00
Total Phosphorus	P	mg/L as P	-	-	-	-	-	Digestion, Colorimetric Spectrophotometry	\$6.00
Salinity	-	pp thousand	-	-	-	-	-	Meter	\$1.00
Sodium	Na	mg/L	-	200	-	-	-	Ion Chromatography	\$8.00
Sulfate	SO ₄ ²⁻	mg/L	-	250	-	300	500	Ion Chromatography	\$4.00
Temperature	-	° Celcius	-	-	-	-	-	Probe	\$1.00
Total Dissolved Solids	-	mg/L	-	800	-	1000	2000	Meter	\$1.00
Total Suspended Solids	-	g/L	-	-	-	50	80	Filtration	\$5.00
Turbidity	-	NTU	-	5	5	-	-	Meter	\$1.00

1. Cambodian Drinking Water Quality Standards (Draft Proposed Cambodian National Drinking Water Quality Standards Version 4 as of June 21, 2003)

2. World Health Organization (Guidelines for Drinking-water Quality, 3rd Edition, Volume 1, WHO 2004)

mg/L = parts per million (ppm)

ug/L = parts per billion (ppb)

NTU = nephelometric turbidity units

TCU = true color unit

Combined and discounted packages available, see 'Water Quality Analysis Packages'