



























ANNEXES


















Annex A

MCWD Water Quality Standards

Mandatory Parameters

	Maximum Allowable Level (MAL) (mg/Li)	Water Source	Injection Point
1 Total Coliform	MTFT: <1.1 MPN/100 mL EST: Absent or <1 MPN/100 mL MFT: <1 total coliform colonies/100 mL		
2 Thermotolerant Coliform(E.Coli)	MTFT: <1.1 MPN/100 mL EST: Absent or <1 MPN/100 mL MFT: <1 thermotolerant coliform colonies/100 mL		
3 Heterotrophic Plate Count (HPC)	<500 CFU/mL		
4 Arsenic	0.01 mg/L	 	
5 Cadmium	0.003 mg/L	 	
6 Lead	0.01 mg/L	 	
7 Nitrate	50.00 mg/L	 	
8 Color, apparent	10 CU	 	
9 Turbidity	5 NTU	 	
10 pH	6.5-8.5		
11 Total Dissolved Solids	600 mg/L	 	
12 Disinfection Residual (Res Cl ₂)	1.0-1.5 mg/L	Daily	

Primary Drinking Water Quality Parameters

	Maximum Allowable Level (MAL) (mg/Li)	Water Source	Injection Point
1 1,2-Dibromo-3-chloropropane (DBCP)	0.001 mg/L		
2 1,2-Dichlorobenzene	1.0 mg/L		
3 1,2-Dichloroethane	0.03 mg/L		
4 1,2-Dichloroethene	0.05 mg/L		
5 1,4-Dichlorobenzene	0.3 mg/L		
6 2,4,6-Trichlorophenol	0.2 mg/L		
7 Acrylamide	0.0005 mg/L		
8 Aldrin and Dieldrin	0.00003 mg/L		
9 Alpha Particles	0.5 Bq/L		
10 Atrazine	0.1 mg/L		
11 Antimony	0.02 mg/L		
12 Barium	0.7 mg/L		
13 Benzene	0.01 mg/L		
14 Benzo(a)pyrene (PAHS)	0.0007 mg/L		
15 Beta Particles	1.0 Bq/L		
16 Boron	2.0 mg/L		
17 Bromate	0.01 mg/L		

18 Bromodichloromethane (BDCM)	0.06 mg/L
19 Bromoform	0.1 mg/L
20 Carbon Tetrachloride	0.004 mg/L
21 Carbofuran	0.007 mg/L
22 Chlorate	0.7 mg/L
23 Chlordane	0.002 mg/L
24 Chlorite	0.7 mg/L
25 Chloroform	0.3 mg/L
26 Chromium (Total)	0.05 mg/L
27 Cyanide (Total)	0.5 mg/L
28 Di(2-ethylexyl)phthalate	0.008 mg/L
29 Dibromochloromethane	0.1 mg/L
30 Dibromoacetonitrile	0.07 mg/L
31 Dichloroacetate	0.05 mg/L
32 Dichloroacetonitrile	0.02 mg/L
33 Dichlorodiphenyltrichloroethane(DDT)	0.001 mg/L
34 Dichloromethane	0.02 mg/L
35 Endrin	0.0006 mg/L
36 Epichlorohydrin	0.0004 mg/L
37 Ethylbenzene	0.3 mg/L
38 Ethylene Dibromide	0.0004 mg/L
39 Fluoride	1.5 mg/L
40 Glyphosate	1.0 mg/L
41 Lindane	0.002 mg/L
42 Manganese	0.4 mg/L
43 Mercury (Total)	0.001 mg/L
44 Monochloroacetate	0.02 mg/L
45 Nickel	0.07 mg/L
46 Nitrite	50.0 mg/L
47 Pendimethalin	0.02 mg/L
48 Radon	11.0 Bq/L
49 Sulfate	250 mg/L
50 Selenium	0.04 mg/L
51 Styrene	0.02 mg/L
52 Tetrachloroethene	0.04 mg/L
53 Trichloroacetate	0.2 mg/L
54 Toluene	0.7 mg/L
55 Total Trihalomethane	1.0 mg/L
56 Vinyl Chloride	0.003 mg/L



Secondary Drinking Water Quality Parameters

	Maximum Allowable Level (MAL) (mg/Li)	Water Source	Injection Point
1 Aluminum	0.2 mg/L		
2 Chloride	250 mg/L		
3 Copper	1.0 mg/L		
4 Hardness	300 mg/L		
5 Hydrogen Sulfide	0.05 mg/L		
6 Iron	1.0 mg/L		
7 Manganese	0.4 mg/L		
8 Odor	No objectionable Odor		
9 Sodium	200 mg/L		
10 Taste	No objectionable Taste		
11 Xylenes (Total)	0.5 mg/L		
12 Zinc	5.0 mg/L		
13 Langelier Saturation Index (LSI)	(-)1 to (+)1		
pH	} Components of LSI		
Water Temperature (°F)			
Carbonate Alkalinity (ppm)			
Total Dissolved Solids (ppm)			

**Please refer to PNSDW 2017 for Method of Analysis*

LEGEND:

- once a month
- before start of operation
- once a year
- annual for first 3 years /Once every 3 years if the water shows undetectable levels (< MDL-method detection limit)
- start of operation / Once every 5 years if water shows undetectable levels (<MDL-method of detection limit)
- as needed
- Daily
- Weekly

NOTE:

Please refer to PNSDW 2017 for Method of Analysis & other concerns.

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