



Complete List of Constituents recommended for Pre-screen of Designing an R.O. System

- Inorganic Analytes – Metals
- Physical Factors of Solution
- Inorganic Analytes – Non-metallic
- Organic Analytes \_ Total Organic Carbon

Contaminant	Results	Units	National Standards	Min. Detection Level
<b>Inorganic Analytes - Metals</b>				
Aluminum	-	mg/L	0.2	EPA Secondary 0.04
Arsenic	-	mg/L	0.01	EPA Primary 0.003
Barium	-	mg/L	2	EPA Primary 0.004
Beryllium	-	mg/L	0.004	EPA Primary 0.0005
Boron	-	mg/L	-	0.015
Cadmium	-	mg/L	0.005	EPA Primary 0.0005
Calcium	-	mg/L	-	0.06
Chromium	-	mg/L	0.1	EPA Primary 0.003
Copper	-	mg/L	1.3	EPA Action Level 0.004
Iron	-	mg/L	0.3	EPA Secondary 0.009
Lead	-	mg/L	0.015	EPA Action Level 0.001
Lithium	-	mg/L	-	0.001
Magnesium	-	mg/L	-	0.02
Manganese	-	mg/L	0.05	EPA Secondary 0.0005
Molybdenum	-	mg/L	-	0.002
Nickel	-	mg/L	-	0.0021
Potassium	-	mg/L	-	0.15
Selenium	-	mg/L	0.05	EPA Primary 0.004
Silica	-	mg/L	-	0.05
Silver	-	mg/L	0.1	EPA Secondary 0.001
Sodium	-	mg/L	-	0.15
Strontium	-	mg/L	-	0.001
Thallium	-	mg/L	0.002	EPA Primary 0.0015
Tin	-	mg/L	-	0.03
Vanadium	-	mg/L	-	0.015
Zinc	-	mg/L	5	EPA Secondary 0.004





Physical Factors					
Contaminant	Results	Units	National Standards Min. Detection Level		
Alkalinity (Total as CaCO3)	-	mg/L	-		5
Bicarbonate (as CaCO3)	-	mg/L	-		5
Carbon Dioxide (Free CO2)	-	mg/L	-		5
Carbonate (as CaCO3)	-	mg/L	-		5
Conductivity	-	umhos/cm	-		2
Hardness	-	mg/L	100	NTL Internal	0.22
Langelier Index	-	SI	-		
pH	-	pH Units	6.5 to 8.5	EPA Secondary	
Total Anions	-	mg/L	-		1
Total Cations	-	mg/L	-		1
Total Dissolved Solids	-	mg/L	500	EPA Secondary	20
Turbidity	-	NTU	1	EPA Action Level	0.1
Inorganic Analytes - Other					
Bromide	-	mg/L	-		0.05
Chloride	-	mg/L	250	EPA Secondary	0.05
Chlorine-Free	-	mg/L	-		0.05
Chlorine-Total	-	mg/L	-		0.1
Fluoride	-	mg/L	4	EPA Primary	0.05
Nitrate as N	-	mg/L	10	EPA Primary	0.05
Nitrite as N	-	mg/L	1	EPA Primary	0.05
Ortho Phosphate	-	mg/L	-		0.05
Sulfate	-	mg/L	250	EPA Secondary	0.05
Organic Analytes - Others					
Total Organic Carbon	-	mg/L			0.4



National Laboratories has an online-store for said analysis. Follow the link below to order the sample kit:

[Complete RO Screen Water Sample Kit](#)

Then follow these steps:

1. Freeze the kit over-night.
2. Fill the containers provided with the water sample in question.
3. Fill out the Chain-of-Custody form.
4. Mail back the sample with provided label and packaging.
5. Receive the results by e-mail and hard copy within a couple weeks.

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