

**CoCC Seawater Desalination - Inner Harbor Source Water Quality Data
(12-month Sampling)**

Parameter	Units	Average Concentration	Sampling Frequency
Coliform, Fecal	CFU/100 mL	35.70434783	Twice monthly
Coliform, Total (only presence)	-	Present	Twice monthly
Cryptosporidium	cysts/L	0	Twice monthly
<i>Enterococci</i>	MPN	341.0772727	Twice monthly
Giardia	cysts/L	0	Twice monthly
<i>Heterotrophic Plate Count</i>	CFU	33.11363636	Twice monthly
Turbidity	NTU	10.07869565	Twice monthly
Antimony	mg/L	< 0.01223	Monthly
Arsenic	mg/L	0.04939	Monthly
Asbestos	MFL	<0.42583	Monthly
Barium	mg/L	0.07109	Monthly
Beryllium	mg/L	<0.04791	Monthly
Cadmium	mg/L	<0.00183	Monthly
Chromium	mg/L	<0.01583	Monthly
Cyanide	mg/L	<0.00833	Monthly
Fluoride	mg/L	1.07	Monthly
Mercury	mg/L	<0.0002	Monthly
Nitrate	mg/L	<0.17875	Monthly
Nitrite	mg/L	<0.46875	Monthly
Nitrate + Nitrite (Total)	mg/L	<0.6475	Monthly
Perchlorate	mg/L	<0.4	Monthly
Selenium	mg/L	<0.00769	Monthly
Thallium	mg/L	<0.00771	Monthly
Aluminum (Total)	mg/L	0.85591	Monthly
Chloride	mg/L	18824.7	Monthly
Color (true)	color units	13.4545	Monthly
Copper	mg/L	0.02029	Monthly
Fluoride	mg/L	0.552	Monthly
Foaming Agents (Surfactants)	mg/L	<0.61933	Monthly
Hydrogen sulfide	mg/L	<0.13455	Monthly
Iron (Total)	mg/L	0.586	Monthly
Manganese	mg/L	0.03001	Monthly
Odor	TON	26.8182	Monthly
pH	s.u.	8.13636	Monthly
Silver	mg/L	<0.00132	Monthly
Sulfate	mg/L	2464.6	Monthly
Total Dissolved Solids	mg/L	29736.1	Monthly
Zinc	mg/L	<0.01841	Monthly
Algae Count	count/mL	80	Monthly
Alkalinity, Total as CaCO3	mg/L	137.818	Monthly
Aluminum (Dissolved)	mg/l	<0.1071	Monthly
Ammonia (as N)	mg/L	<0.2	Monthly
Ammonium (NH4)	mg/L	0.1167	Monthly
Bicarbonate	mg/L	138.583	Monthly
Boron	mg/L	4.23818	Monthly
Bromide	mg/L	64.0545	Monthly
Calcium	mg/L	757.4	Monthly
Carbon Dioxide	mg/L	113.083	Monthly
Cesium	mg/L or pCi/L	<0.00181	Monthly
Conductivity	µmhos/cm	4594.5	Monthly
Dissolved Organic Carbon	mg/L	0.49636	Monthly
Dissolved Oxygen	mg/L	7.86545	Monthly
Hardness, Total as CaCO3	mg/L	6281.82	Monthly
Iron (Dissolved)	mg/l	<0.10429	Monthly
Lead	mg/L	<0.00495	Monthly
Magnesium	mg/L	1325	Monthly
Oil and Grease	mg/L	<4.52727	Monthly
Phosphorus, Total	mg/L	<0.19136	Monthly
Potassium	mg/L	346.273	Monthly
Silica, Total (Colloidal)	mg/L	10.336	Monthly
Silica, Dissolved	mg/L	3.97	Monthly
Silicon, Total	mg/L	4.91182	Monthly
Silt Density Index	-	0.35111	Monthly
Sodium	mg/L	9505.83	Monthly
Strontium	mg/L	7.1875	Monthly
Temperature	°F	62.5509	Monthly
Tin	mg/L	<0.02992	Monthly
Total Petroleum Hydrocarbons (TPH)	mg/L	<0.905	Monthly
Total Organic Carbon	mg/L	0.67	Monthly

These water quality parameters were gathered during a 12-month period in 2019 at the Inner Harbor Seawater Desalination Treatment Plant intake location. The data reflects concentrations in the raw water used in the desalination process.

All sources of raw water, including lakes, rivers, seawater, and groundwater contain various levels of metals, organics, and other constituents which are removed in the treatment process.

Parameter	Units	Average Concentration	Sampling Frequency
Total Suspended Solids	mg/L	42	Monthly
UV254	cm-1	0.07164	Monthly
Alachlor	mg/L	<0.0002	Quarterly
Atrazine	mg/L	<0.002564	Quarterly
Benzopyrene	mg/L	<0.001551	Quarterly
Carbofuran	mg/L	<0.000933	Quarterly
Chlordane	mg/L	<0.00025	Quarterly
Dalapon	mg/L	<0.0015	Quarterly
Dibromochloropropane	mg/L	<0.001272	Quarterly
Di(2-ethylhexyl)adipate	mg/L	<0.0016	Quarterly
Di(2-ethylhexyl)phthalate	mg/L	<0.003	Quarterly
Dinoseb	mg/L	<0.0007	Quarterly
Diquat	mg/L	<0.000605	Quarterly
Endothall	mg/L	<0.009	Quarterly
Endrin	mg/L	< 2.26E-05	Quarterly
Ethylene dibromide (1,2-Dibromoethane)	mg/L	< 2.32E-05	Quarterly
Glyphosate	mg/L	<0.006	Quarterly
Heptachlor	mg/L	<0.00004	Quarterly
Heptachlor epoxide	mg/L	<0.00004	Quarterly
Hexachlorobenzene	mg/L	<0.000163	Quarterly
Hexachlorocyclopentadiene	mg/L	<0.01	Quarterly
Lindane	mg/L	< 2.75E-05	Quarterly
Methoxychlor	mg/L	<0.000114	Quarterly
N-Nitrosodimethylamine (NDMA)	mg/L	<0.01	Quarterly
Oxamyl (Vydate)	mg/L	<0.002	Quarterly
Pentachlorophenol	mg/L	<0.002645	Quarterly
Picloram	mg/L	<0.0001	Quarterly
Polychlorinated biphenyls (PCBs)	mg/L	<0.000201	Quarterly
Simazine	mg/L	<0.000071	Quarterly
Toxaphene	mg/L	<0.000713	Quarterly
2,3,7,8-TCDD (Dioxin)	mg/L	0.00000001	Quarterly
2,4,5-TP (Silvex)	mg/L	<0.00062	Quarterly
2,4-D	mg/L	<0.00065	Quarterly
1,1-Dichloroethylene	mg/L	<0.001	Quarterly
1,1,1-Trichloroethane	mg/L	<0.001	Quarterly
1,1,2-Trichloroethane	mg/L	<0.001	Quarterly
1,2-Dichloroethane	mg/L	<0.001	Quarterly
1,2-Dichloropropane	mg/L	<0.001	Quarterly
1,2,4-Trichlorobenzene	mg/L	<0.001	Quarterly
Benzene	mg/L	<0.001	Quarterly
Carbon tetrachloride	mg/L	<0.001	Quarterly
cis-1,2-Dichloroethylene	mg/L	<0.001	Quarterly
Methylene Chloride (Dichloromethane)	mg/L	<0.00425	Quarterly
Ethylbenzene	mg/L	<0.001	Quarterly
Monochlorobenzene	mg/L	<0.001	Quarterly
o (1,2) -Dichlorobenzene	mg/L	<0.001	Quarterly
para (1,4) -Dichlorobenzene	mg/L	<0.001	Quarterly
Styrene	mg/L	<0.001	Quarterly
Tetrachloroethylene	mg/L	<0.001	Quarterly
Toluene	mg/L	<0.001	Quarterly
trans-1,2-Dichloroethylene	mg/L	<0.001	Quarterly
Trichloroethylene	mg/L	<0.001	Quarterly
Vinyl chloride	mg/L	<0.001	Quarterly
Xylenes (total)	mg/L	<0.003	Quarterly
Gross Alpha Particle Activity	pCi/L	-108.97	Quarterly
Beta Particle and Photon Radioactivity	pCi/L	60	Quarterly
Radium-226	pCi/L	0.37095	Quarterly
Radium-228	pCi/L	0.874	Quarterly
Combined Radium 226 + 228	pCi/L	1.24625	Quarterly
Uranium	µg/L	2.75	Quarterly
Radon-222	pCi/L	4.75	Quarterly

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