

## Potable Water

Some examples of the effectiveness of electrocoagulation include the following:

Potable Water			
Item	Raw concentration	After electrocoagulation	% Removal
Aldrin (pesticide)	0.063 mg/l	0.001 mg/l	98.40%
Aluminum	224.00 mg/l	0.69 mg/l	99.69%
Americium-241	71.99 pCi/L	0.57 pCi/L	99.20%
Arsenic	0.30 mg/l	< 0.01 mg/l	96.70%
Bacteria	110,000,000 cfu	2,700 cfu	99.99%
Barium	0.0145 mg/l	< 0.0010 mg/l	93.10%
Boron	4.86 mg/l	1.41 mg/l	70.98%
Cadmium	0.1252 mg/l	< 0.0040 mg/l	96.81%
Calcium	1,321.00 mg/l	21.40 mg/l	98.40%
Chlorieviphos (pesticide)	5.87 mg/l	0.03 mg/l	99.50%
Chromium	139.00 mg/l	< 0.10	99.92%
Cobalt	0.1238 mg/l	0.0214 mg/l	82.71%
Copper	0.7984 mg/l	< 0.0020	99.75%
Cypermethrin (pesticide)	1.30 mg/l	0.07 mg/l	94.60%
DDT (pesticide)	0.261 mg/l	0.002 mg/l	99.20%
Diazinon (pesticide)	34.00 mg/l	0.21 mg/l	99.40%
E coli Bacteria	> 2,419.2 mpn	0.0 mpn	99.99%
Iron	68.34 mg/l	0.1939 mg/l	99.72%
Lead	0.3497 mg/l	< 0.0250 mg/l	92.85%
Lindane (pesticide)	0.143 mg/l	0.001 mg/l	99.30%
Magnesium	13.15 mg/l	0.0444 mg/l	99.66%
Manganese	1.061 mg/l	0.0184 mg/l	98.27%
Mercury	0.01 mg/l	< 0.002	66.60%
Molybdenum	0.18 mg/l	0.04 mg/l	80.60%
Nickel	183 mg/l	0.07 mg/l	99.96%
Nitrate	11.7 mg/l	2.6 mg/l	77.78%
Nitrite	21 mg/l	12 mg/l	42.86%
Nitrogen TKN	1,118.88 mg/l	59.08 mg/l	94.72%
Petroleum Hydrocarbons	72.5 mg/l	< 0.2 mg/l	99.72%
Phosphate	28 mg/l	0.2 mg/l	99.28%
Plutonium-239	29.85 pCi/L	0.29 pCi/L	99.00%
Potassium	200 mg/l	110 mg/l	45.00%
Proptamphos (pesticide)	80.87 mg/l	0.36 mg/l	99.60%
Radium	1093.0 pCi/L	0.1 pCi/L	99.99%
Selenium	68 mg/L	38 mg/l	44.00%
Silicon	21.07 mg/l	0.10 mg/l	99.50%
Sodium	8,690 mg/l	5,770 mg/l	33.60%
Sulfate	104 mg/l	68 mg/l	34.61%
Tin	0.213 mg/l	< 0.0200 mg/l	90.61%
Total Coliform Bacteria	> 2,419.2 mpn	0.0 mpn	99.99%

Uranium	10.8 mg/l	0.1 mg/l	99.07%
Vanadium	0.2621 mg/l	< 0.0020 mg/l	99.24%
Zinc	221.00 mg/l	0.14 mg/l	99.90%