

Table 2.27 Overall Effectiveness of Water Treatment Process for Cr(III) and Cr(VI) (MCL 0.1 Mg/L) (MWH, 2005).

Water treatment processes	% Cr(III) removal	% Cr(VI) removal
Ion-exchange (anion)	0	90-100
Ion-exchange (cation)	90-100	0
Reverse Osmosis	90-100	90-100
Coagulation	60-100	0
Coagulation/reduction: Ferrous	80-90	15-100
Coagulation: Alum and Ferric Chloride	20-99	0-10
Coagulation/reduction: H ₂ S, Na ₂ S, and Na ₂ SO ₃	0	20-80
Coagulation/reduction: CaS _x	90-100	95-100
Lime Softening	60-100	0
Activated Carbon	20-90	20-90

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