

# Electroplating



Wastewater from electroplating processes contains elevated concentrations of heavy metals, suspended solids (TSS), dissolved solids (TDS), and can also include iron, oil, and organic contaminants. In 2007, Haliant Technologies commissioned a wastewater reclaim system to recover and purify 95% of the electroplating and coating wastewater for reuse in production.

Haliant utilized a combination of treatment technologies including chemical-induced precipitation of solids, ultrafiltration for removal of oil, organics, and TSS, media filtration for iron removal, and reverse osmosis for TDS reduction.

Purifying 95% of the electroplating and coating wastewater for reuse in production

Treated Water Results	Raw Water	Treated Water
Chemical Oxygen Demand (COD)	300 mg/L	< 10 mg/L
Total Suspended Solids (TSS)	350 mg/L	< 1 mg/L
Dissolved Iron	10 mg/L	< 1 mg/L
Total Dissolved Solids (TDS)	2,000 mg/L	150 mg/L

