

Pigment Production

Pigment manufacturers generate significant quantities of wastewater containing high levels of Chemical Oxygen Demand (COD), and total suspended solids (TSS) and total dissolved solids (TDS). Haliant provided the wastewater treatment system for a large pigment producer with excessive concentrations of TDS, TSS, and dissolved iron.

The Haliant-supplied system utilizes a combination of bio-chemical and membrane filtration treatment. The bio-chemical treatment precipitates the dissolved iron, adjusts the pH, and removes the suspended solids to a level compliant with discharge standards. Ultrafiltration and reverse osmosis membranes treat the bio-chemical effluent to a level suitable for reuse in production.



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Treated Water Results	Raw Water	Treated Water
Dissolved Iron	131 mg/L	< 1 mg/L
Total Suspended Solids (TSS)	> 500 mg/L	< 1 mg/L
Chemical Oxygen Demand (COD)	71 mg/L	< 1 mg/L
Total Dissolved Solids (TDS)	> 10,000 mg/L	< 300 mg/L

