Risk-based Water Quality Guidelines for Industrial Use
Detailed fitness-for-use assessment report

Date:
Full Name:
Position:
Location:
Contact Details:
Comments:

Assessment Criteria

Risk(s) assessed	Corrosion, Scaling, Fouling
Sector	Petrochemical
Unit under assessment	Distillation Columns
Material of construction	Stainless steel 304/304L

Water Quality inputs

Paramemter	Units	Value
pH	n	
Electrical Conductivity	µS/cm @ 25°C	
Calcium	mg/L	
Alkalinity	mg/L $CaCO_3$	

Total Dissolved Solids	mg/L
Temperature	ºC
Flouride	mg/L
Chloride	mg/L
Silica in steam	mg/L
Magnesium	mg/L
Silica	mg/L
Sulphate	mg/L
Suspended Solids	mg/L
Contains Antiscalants?	n

Results

Adverse Effect	Parameter	Value	Risk category	Description	Treatment Recommendations
		20	Unacceptable	Low sea water resistance	Treatment recommended - Consider a higher PREN alloy for use OR Addition of

	PREN of Alloy				chemical corrosion inhibitors
	Calcium Sulphate Scale Formation	None	Acceptable	Acceptable Calcium Sulphate Scaling	-
Fouling	Suspended Solids Fouling (mg/l)	1.0	Ideal	No Fouling predicted	No treatment