

# Where, why, what and how to analyse

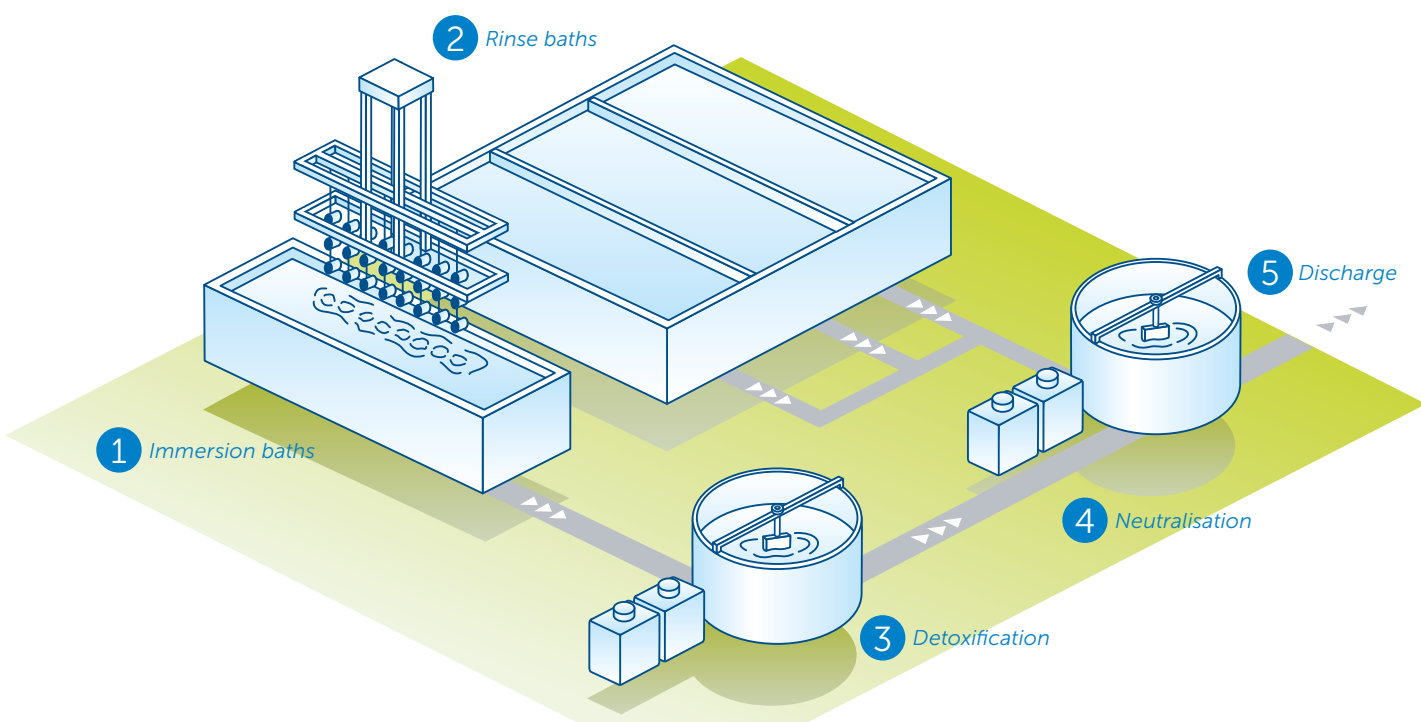
You need to be sure

- That your products comply to your high quality standards
- That your production runs efficiently without unplanned interruptions
- That your wastewater complies to regulatory requirements.

This means that the analytics, processes and products you rely on to make informed decisions must be accurate, reliable and informative all the time.

The HACH LANGE analytics portfolio is designed to give you confidence. From a simple, dedicated meter to on-line measurement or wastewater treatment optimization our solutions are based on years of innovation and a desire to provide the simplest way to results you can trust. Our products, application support and local service help you achieve:

- Maximised uptime of equipment and production
- Consistent, high quality finished products
- Analytical solutions that give a real return on your investment



Where	Why	What*	How
1 Immersion baths	Quality control / production performance, to ensure products comply to specifications and to extend bath service life	Chrome bath colour Copper bath colour Nickel bath colour pH value	▶ ▶ ▶ ▶●
2 Rinse baths	Process efficiency, to detect carry-over, optimise rinse steps, and to monitor reusability of rinse water	Conductivity pH value Cyanide Metal ions	▶● ▶● ▶ ▶
3 Detoxification	Process efficiency / environmental safety, to monitor correct elimination of cyanide and nitrite	Cyanide Nitrite pH value Redox potential	▶ ▶ ▶● ▶●

▶ Lab analysis ● Online analysis

Where	Why	What*	How
4 Neutralisation	Regulatory compliance, monitor treatment process performance and ensure compliance with legal limit values	Conductivity	▶ ●
		pH value	▶ ●
		Redox potential	▶ ●
5 Discharge	Regulatory compliance, monitor wastewater quality, and ensure compliance with legal limit values	AOX	▶
		Chlorine free and total	▶ ●
		Cyanide	▶
		Nitrite	▶
		Sulphide	▶
		Surfactants	▶
		Cadmium	▶
		Cobalt	▶
		Copper	▶
		Chromium, Chromium VI	▶
		Lead	▶
		Nickel	▶
		Silver	▶
		Tin	▶
		Zinc	▶
Zirconium	▶		

▶ Lab analysis ● Online analysis

\* For additional parameters and solutions please contact your local HACH LANGE representative or visit our website.



Benchtop and portable instruments for lab analysis, with special tests for plating baths. Inspection, maintenance and equipment qualification services available



Controllers and sensors for online analysis