



3D TRASAR™ Technology for Steel Water

OUTFALL

Enhanced Outfall Results

3D TRASAR for Steel Water delivers real-time insight into steel mill outfalls, detecting trends early and enabling fast intervention to help prevent costly problems.

Steel mill outfalls are highly sensitive to oil cross contamination. Detecting even low concentrations of oil and grease enables faster response, reduces risk and strengthens environmental compliance.

Outfall quality is critical, yet many steel manufacturers rely on grab samples and traditional analytical methods that lack real-time visibility, limiting their ability to anticipate and prevent issues.

3D TRASAR for Steel Water provides continuous, real-time monitoring for instant visibility into key outfall parameters, so operators can respond quickly to deviations and take proactive action to minimize cross contamination before problems escalate.

Nalco Water partners with your Environmental Team to select sampling locations that do not interfere with permit requirements or generate reportable data. Water flowing to the final plant effluent can be monitored, giving you full control to determine how you want to use that information.

Case Study: 3D TRASAR™ for Steel Water Outperforms Traditional Outfall Testing

A steel mill's outfall quality was impacted by a cooling system prone to occasional oil cross contamination. Nalco Water deployed 3D TRASAR for Steel Water to continuously monitor critical parameters, detecting an oil event with its ultra sensitive ppb level probe long before lab tests could. Traditional methods, with a 0.3 ppm detection limit, missed the spike entirely, while the probe clearly revealed it. This early warning enabled swift corrective action, preventing cross contamination and avoiding potential compliance risks.

Real-Time Water Management

3D TRASAR for Steel Water is a digitally-enabled service that provides continuous insight into water treatment performance and outfall quality, helping to reduce downtime, lower operating costs and support environmental compliance.

With 24/7 monitoring of outfall quality and upstream flows, 3D TRASAR for Steel Water tracks critical parameters like turbidity and oil concentration in real time, giving teams the visibility to make informed decisions and prevent out-of-spec conditions before they occur—delivering a proactive approach to operational efficiency and sustainability.

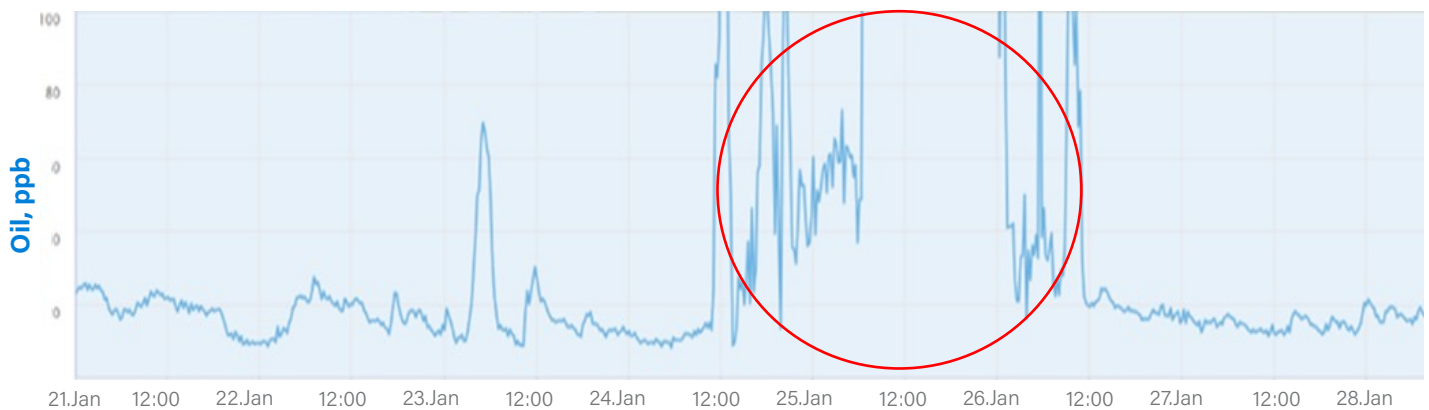


Figure 1 - Oil trend with time

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