NALCO Water
An Ecolab Company

MINING OPTIMIZER 2.0

SCALE CONTROL MONITORING FOR PROCESS WATER

When it comes to modeling, mining process water can be a challenge.

- **Process water is highly dynamic:** Process water has multiple water constituents originating from reagents, oxidative dissolution of the ores, microbial species, and a harsh physicochemical environment characterized by high pH, TSS and conductivity.
- **Process water is highly complex:** Most software packages are not designed to model complex mining water. In fact, many existing models resort to a 'trial and error' method to attempt to understand scale formation in mining water.

Take Control of Your Water with Mining Optimizer 2.0

Mining Optimizer 2.0 from Nalco Water models mine water using a 'whole site' water management approach to help better predict and control scaling events.

This proven approach includes a process survey, water sampling, modeling, and creation of a water map to help identify your facility's unique challenges. Our experts work to address identified issues with a suite of innovative offerings beyond chemical treatment, including:

Water management and blending philosophy

Chemistry selection and dosage optimization

Monitoring and control panels

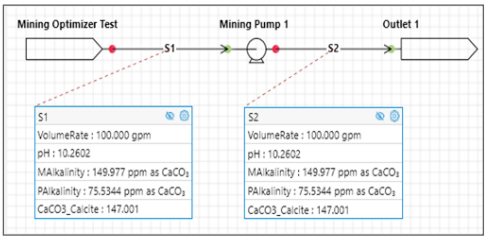
Service and maintenance planning

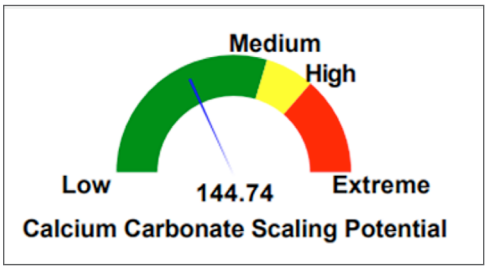
MINING OPTIMIZER PROCESS WATER SCALE CONTROL MONITORING

What-If Analysis Aids Risk Mitigation & Scenario Planning

Mining Optimizer 2.0 factors in the complex nature of managing an entire site's water blending to provide a more holistic solution for keeping your pipes clean and flowing. Built specifically for mine water conditions, it leverages What-If Analysis to:

- Learn scale formation drivers
- Assess water blending impact
- Inform product selection based on sound scientific principles
- Model the impact of pH modifiers (i.e., lime and acid)
- Optimize dose points





The Mining Optimizer 2.0 Advantage

Compared to traditional modeling, Optimizer 2.0 is mine-water specific, allowing it to:

- Account for water species salient to mine waters then apply correction factors in the simulation
- Model speciation in high-alkaline environments with greater accuracy
- Identify alternate water sources for more efficient water management and blending

ecolab.com/nalco-water

Ecolab, Nalco Water and the logos are Trademarks of Ecolab USA Inc.
©2025 Ecolab USA Inc. All Rights Reserved 05/25 ADV-2165

NALCO Water
An Ecolab Company