

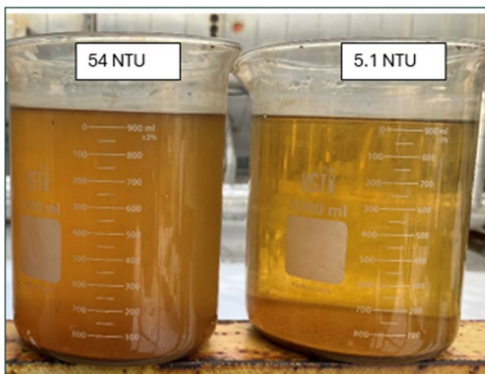
TRETOLITE solution reduces OPEX while improving water quality in SAGD operation, saving operator \$1.8M CAD

CHALLENGES

- Installation of a new once-Through Steam Generator (OTSG) was going to increase a customer's Hot Lime Softener (HLS) water throughput significantly
- This was an issue given that the incumbent water treatment program had already reached maximum pump rates and performance
- The persistent presence of variable floc granularity in HLS sludge bed suggested non-ideal coagulant and flocculant performance and the centrifuge system required coagulant trim injections to effectively dewater the sludge

SOLUTION

- Baker Hughes reviewed the program needs and developed a new coagulant and flocculant polymer type specifically to treat the SAGD-produced water
- After multiple iterations of jar testing, Baker Hughes proposed a trial of a [TRETOLITE™ coagulant](#) (RBW6932) and flocculant (RBW6936)
- The plan called for starting treatments at 60% of the incumbent injection rates and then optimizing the program based on HLS outlet turbidity, sludge bed quality, and after-filter performance checks



Incumbent

New products

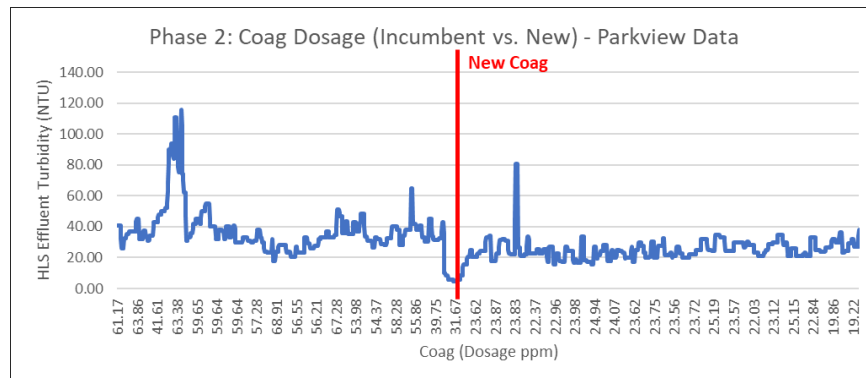


Chart showing HLS outlet turbidity with dosage of incumbent versus new RBW6932

RESULTS

Improved

water clarity, sludge bed granularity, and water throughput with higher efficiency treatments that simplified boiler water treatment operations

\$500,000k+ CAD

annualized savings by eliminating coagulant and flocculant trim injections at the centrifuge

\$700,000k CAD

annualized savings due to reduced sawdust demand

\$550,000k CAD

annualized savings as a result of cutting trucking resupply runs in half