WATER MANAGEMENT - OPTIMIZED

Functionality vs. Optimization

Your water management program may be functional, but does that constitute *efficient, clean, and optimized for low shut-down rates and maximized use of raw produced water*? Oftentimes, it can be difficult to discern that water usage may be contributing to frac shut-downs and even worse, down the road production failures. "Wait 'til it fails" is not a water-management program; good data and analytical review are.

> The OLA process starts on the ground, at the water facility, where our team of trained technicians collect high-quality samples for testing on-site. Testing off-site is performed at OLA's ANAB ISO-17025 accredited performance laboratory. The results are transparent and unbiased, leaving you with the insights you need for optimized performance.

AN EYE ON ESG

There's more to water management than costs. OLA partners with E&P companies to help drive the use of raw produced water in the industry.

By optimizing your pond management on the frontside, OLA helps operators both reduce chemical expenses and achieve their sustainability goals.

OLA's 5-Step Process

1 DISCOVERY MEETING (15—30 min)

We kick off with an informal discussion with key players touching your water management program, to gain an understanding of any issues at hand, for example:

- High completions shut down rates (likely caused by H2S)
- High ATP/bacteria in the ponds
- Increased use of fresh water vs. raw/produced

2 POND SELECTION PROCESS

OLA can perform a total assessment of your ponds or a start with the most used water facilities.

3 POND SAMPLING (1-2 DAYS)

We send our own field technicians to collect samples - done right the first time- to diagnose the water profile of each pond. Our technicians perform tests onsite including: ORP, pH, conductivity, H2S and gas, dissolved H2S, ATP/serial dilution (bug bottles) by RP38.

4 REVIEW RESULTS (1 HOUR)

In this meeting, we uncover testing results on the pond performance.

We'll also provide guidance and insights toward gaining efficiencies, to optimize your water management program via dilution ratios, chemical application, etc.

5 SET A MAINTENANCE PROGRAM

If you decide to expand the program to a routine pond management program, we will create a custom schedule for pond sampling and testing that includes data analysis and routine benchmark reviews, tailored to your specific KPI targets. All data is stored and made available to you for continuous monitoring and improvement planning.

Ready To Get Started?

Contact us to learn more about our full line of services for your organization.

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ANAB
ANSI National Accreditation Board
ACCREDITED
ISO/IEC 17025
TESTING LABORATORY

OLA Case Study

Water Management Optimization

A large-scale Permian basin operator utilizes OLA services to optimize use of produced water for completions and mitigate shut-downs in the frac program.

THE SITUATION

The operator was challenged with encountering shut-downs in the frac program due to H2S presence in the working tanks. The operator brought in OLA, as an accredited 3rd party, to resolve the issue and start trending data.

THE SOLUTION

OLA discovered 25-50 ppm dissolved H2S in the water. Starting with 5 new wells, OLA took samples at every source: raw/produced water inlet, to AST, to Pond, then back to the working tanks. Recognizing the need for standardization, OLA then assisted the operator to create SOPs for the field sampling and treatment program of their frac sites. With this OLA provides data and analytics to allow the operator to watch trends daily.

AN EYE ON ESG

OLA helped this operator continuously meet their KPI's, tailored to their ESG initiatives.

This operator maintains

- ZERO ppm H2S
- continuous raw/ produced water usage

KEY RESULTS

Identified the root cause,

SRB BACTERIA

Initiating their H2S issues.

ATP counts decreased from 50,000 pg/mL to

3-200 pg/mL

Dropped H2S from 25 ppm

to zero

dissolved H2S.

Maintain use of

produced water

avoiding use of costly fresh water.

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