



## Are You Monitoring the Biomass?

Accurately measure your true living biomass in minutes

Wastewater operators, process engineers and plant managers have traditionally relied upon suspended solid measurements to quantify biomass in their process. However, solids tests detect dead biomass and inert material in addition to what is alive, resulting in inaccurate and unresponsive indicators of the living population. While Volatile Suspended Solids (VSS) tests are an attempt to better indicate active biomass, it still cannot differentiate between live and dead cells. As such, 2nd Generation ATP monitoring renders this test unnecessary.

## Realize a new level of process stability and efficiency

### For industries

- Detect toxic influent and its impact on your bioreactor
- Assess damage done by upsets and speed up the recovery process
- Pace dosing of nutrient blends and biostimulants
- Assess Treatability of challenging substrates through bench scale jar tests

### For municipalities

- Optimize F/M, Dissolved Oxygen, and other key process variables
- Eliminate excess solids and minimize sludge handling costs
- Detect sludge bulking well in advance of conventional parameters (i.e. SVI)
- Diagnose deflocculation and other settling issues

# LuminUltra's 2nd Generation ATP® compared to other microbiological tools

Analysis	2nd Generation ATP	Particulate Analysis	Respirometry
What is detected?	Total microorganisms	Suspended solids	Metabolic activity
Interferences in detecting total living biomass?	None	Dead biomass; non-biological particles	Respiration type
How long to get results?	Minutes	Hours	Minutes to hours
Can give results on-site?	Yes	Yes	Yes
What type of samples can be tested?	Fluids & solids	Fluids only	Fluids only
What is its best use?	Living biomass concentration and health	Total solids inventory	Aerobic activity

## Monitor growth in high-risk areas with 2nd Generation ATP

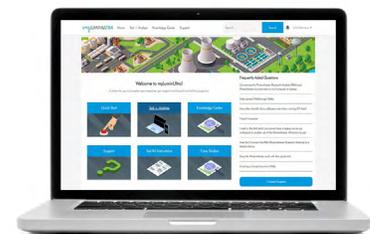
LuminUltra's 2nd Generation ATP Wastewater (QG21W™) Test kit provides direct biomass insight which allows you to observe your biomass' response to changes and establish cause-and-effect relationships with all key variables. Our biological monitoring solution was engineered to provide best-in-class balance between ease-of-use and accuracy available to discover the total microbiology in your sample.

- **Rapid:** Results within minutes of sampling
- **Thorough:** 100% of microorganisms are detected
- **Cost-effective:** Fully assess risk within minutes and provide effective on-the-spot corrective action



### myLuminUltra™

Access our data management and decision support platform to rapidly manage data, gain insight with analysis and reporting, and oversee testing programs.



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**LUMINULTRA®**  
microbial monitoring