



Comprehensive Microbiological and Chemical Analysis for Wastewater



Our Lab Services



Microscopic Assessment

EBS offers several levels of microscopic analyses including an in-depth assessment of the health of your biomass, filamentous bacteria identification, and higher life form analysis.



Bacterial Health Check

With the use of Flow Cytometry and Heterotrophic Plate Counts, we can determine the amount of total, live and viable bacteria within the system.



Bioflocculation Potential

A unique suite of testing aimed at identifying the potential for the bacterial population to form large, healthy, and well settled floc. These three tests include: Exocellular Polymeric Substances (EPS), Mixed Liquor Surface Charge, and Hydrophobicity.



Fecal Bacteria Source Tracking

Our lab has the capability to quantify fecal indicator bacteria (fecal coliform, *E. coli*, and *Enterococci*) using EPA-approved methods for wastewater. This also includes the use of DNA markers to identify the source of fecal bacteria.



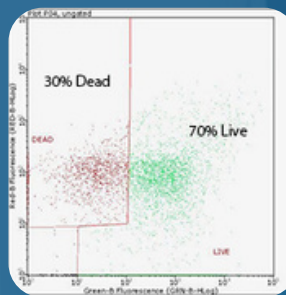
Basic Chemical Analysis

Basic testing includes: Chemical Oxygen Demand (COD), Total Organic Carbon (TOC), Biochemical Oxygen Demand (BOD), Oxygen Uptake rates (DOUR/SOUR), Total and Volatile Suspended Solids (TSS/VSS), and a full complement of nutrient (nitrogen and phosphorus) testing.

Customizable Testing

EBS offers a comprehensive suite of lab capabilities that can be tailored to your system's specific needs. Using a unique combination of chemical, microbial and treatability testing, we can provide a more holistic approach to addressing even the most advanced wastewater treatment issues.

Our wastewater laboratory specialists and microbiologists utilize various approaches, including both established and cutting-edge laboratory techniques, to provide direct support to clients, third party consultants, engineers, vendors, and our internal field personnel.



Total and Live Cell Counts

EBS quantifies the total and live bacteria within your system using flow cytometry. This technique is used to better understand how growth pressure stressors impact bacterial activity within a wastewater treatment system.



Advanced Chemical Analysis

The EBS Advanced Analytical Lab (AAL) provides comprehensive analytical capabilities to identify and quantify compounds known to have toxic or inhibitory effects on biomass. Including: biocides, long chain fatty acids, VFAs, QACs, heavy metals, terpenes, resin acids and surfactants.

” Our rapid turnaround time and unique perspectives will help you make quicker/better decisions, stay compliant, and reduce operating costs.

-Mike Foster, Founder and CEO

Why Choose Us?

1

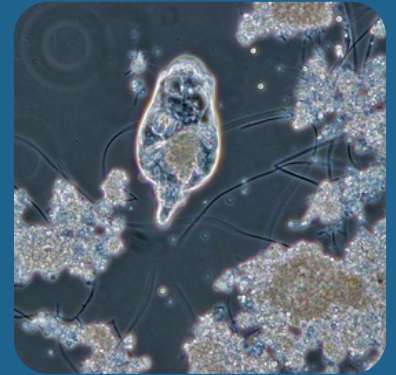
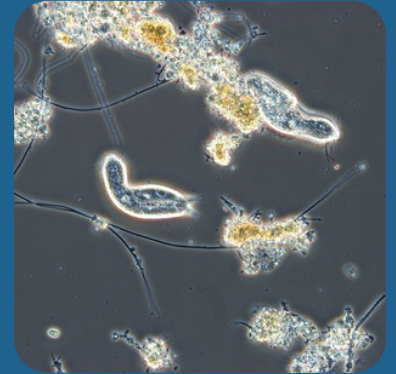
Comprehensive wastewater technical support lab with treatability, microbiological, and chemical testing capabilities all in the same facility.

2

In-house expertise in applying lab results to actual real-world situations.

3

Rigorous QA/QC procedures.



The EBS team serves as trusted advisors to our clients and is committed to helping them protect North America's natural resources while supporting their financial and sustainability goals. An important component of this role is providing data and information regarding wastewater characteristics and treatment system operating conditions.

EBS offers a comprehensive suite of lab capabilities that can be tailored to your system's specific needs to provide timely and unique perspectives, which will help you make better decisions, save money, and stay compliant.

In addition to conducting chemical and microbiological assessments of operating wastewater systems, EBS offers our clients a wide array of treatability and wastewater characterization options. The expansion of the EBS Advanced Analytical Lab in 2019 positioned EBS as one of North America's most comprehensive wastewater assessment and treatability resources.

Industries We Serve



Pulp and Paper



Food & Beverage



Petroleum Refining



Petrochemical



Oil & Gas



Municipal