

“Innovative Products & Services for Wastewater Professionals”



The System



The Biology



The Results



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Customized Nutrient Blends for Wastewater Treatment with the EBS MacroGro™ Product Line

EBS provides customized nitrogen and phosphorus blends to meet the nutrient needs of your aerated stabilization basin (ASB) or activated sludge system. Using state-of-the-art respirometry techniques, EBS determines the optimum formulation and dosage of our MacroGro nutrient blends for your plant. Our extensive network of blending facilities ensures competitive pricing and reduces lead times for deliveries. MacroGro nutrient programs are backed by outstanding technical support from a recognized expert in the area of wastewater nutrient optimization.

Summary of Benefits

- Because of our low overhead, excellent raw material supply positions, and high level of technical expertise, no other company can provide nutrient blends with this level of service at a lower cost.
- Our commitment to service and in-house laboratory capabilities result in rapid response and faster report turnaround times, greatly improving the relevance of our findings and recommendations.
- EBS currently supplies MacroGro nutrient formulations to over twenty mills in the Southern, Midwest, and Eastern United States. We have consistently been able to reduce overall nutrient costs, while maintaining or improving treatment system performance.
- We provide our other supplemental services such as on-site operator training and state DEQ-approved online training courses at a discount to our nutrient customers.

MacroGro Product Features

The EBS MacroGro nutrient formulations offer several advantages:

- Over 25% of the nitrogen is in the ammonia form making it immediately available to the bacteria. Urea-based products show a lag phase as the urea is converted to ammonia.
- Formulation flexibility allows us to change in the N:P ratio based on program results.
- All products are pH neutral, improving safe handling and creating greater product stability.
- No waste acids or industrial byproducts are used in our formulations.
- We formulate high-active, low salt-out blends to reduce the number of deliveries and freight costs. A lower salt-out temperature than your existing product improves reliability of feed and eliminates the need to heat the storage tank.
- We ship in bulk or non-returnable totes.

Service Commitment and Flexibility

- **Formula Optimization.** EBS is the pioneer in the use of respirometry for nutrient optimization and product selection. We have conducted nutrient treatability studies for over thirty paper mills in the United States and presented several technical papers on nutrient optimization in pulp and paper mills.
- **Pricing.** EBS offers several pricing and service options based on your mill's purchasing requirements. We offer delivered or non-delivered pricing as well as product-only pricing versus full service pricing.
- **Tanks & Equipment.** Depending on the equipment available at your wastewater treatment plant, EBS can include bulk tanks and pumping equipment for your application. This may be purchased separately or included in the product price until it is paid off.
- **Nutrient Models.** Based on available historical data and analysis, EBS may be able to incorporate our BioWizard™ Nutrient Control Model into your WWT program to optimize dosage and minimize nutrient cost.
- **Other Services.** Service visits can range from weekly to quarterly and may consist of the following:
 - Conducting system performance profiles consisting of microscopic examinations, DOOR testing and nutrient analyses at designated points across the system and submit a service report.
 - Monitoring product inventory and usage rates.
 - Ordering product as required.
 - Reviewing program results and modifying the BioWizard model, as required.



Moreover, additional respirometry tests may be incorporated into your pricing as well as other studies such as lithium tracer studies, pond depth and flow pattern surveys.

**For more information please see our website at
www.ebsbiowizard.com
or contact us at (985)674-0900 or foster@ebsbiowizard.com**