



Application & Development Center

Water Treatment North America

Analytical services

At Brenntag, our Application and Development Center for Water Treatment provides analytical services to facilitate system optimization and increase operations intelligence.

Scope of study

A customized scope of study will be developed collaboratively with our water treatment specialist and the customer team. Analytical research characterizes water chemistry, helps troubleshoot treatment processes and diagnose system dynamics. The scope includes analytical service, sample handling, analytical report and residuals waste disposal.

Analytical packages

Analytical packages are standardized scopes of work that provide data on constituents commonly studied for certain applications, such as scale reduction or wastewater bioaugmentation.

Analytical report

The analytical report includes study data, technical analysis, and interpretation of results. Additional files or supplemental photos may be available for integration with other documents used in project development and presentations.



Available analyses

General		Nutrients	Standard packages
Alkalinity, “M”	Iron, soluble	Carbon, Total	Scale Reduction
Alkalinity, “P”	Molybdate	Carbon, Total Inorganic	Biologic Micronutrients
Alkalinity, Total	pH	Carbon, Total Organic (TOC)	
Chemical Oxygen Demand (COD)	Settled Sludge Volume (SSV)	Nitrogen, Elemental	
Chloride	Silica	Nitrogen, Total Kjeldahl (TKN)	
Conductivity	Total Suspended Solids (TSS)	Nitrate	
Hardness, Calcium	Turbidity	Nitrogen, Ammonia	
Hardness, Magnesium	Volatiles	Phosphate, Ortho	
Hardness, Total		Phosphorus, Total	

Elements

Aluminum	Europium	Molybdenum	Silver
Antimony	Gadolinium	Neodymium	Sodium
Arsenic	Gallium	Nickel	Strontium
Barium	Germanium	Niobium	Sulfur
Beryllium	Gold	Palladium	Tantalum
Bismuth	Hafnium	Phosphorus	Tellurium
Boron	Holmium	Platinum	Thallium
Cadmium	Indium	Potassium	Thorium
Calcium	Iridium	Praseodymium	Thulium
Cerium	Iron	Rhenium	Tin
Cesium	Lanthanum	Rhodium	Titanium
Chromium	Lead	Rubidium	Tungsten
Cobalt	Lithium	Ruthenium	Vanadium
Copper	Lutetium	Samarium	Ytterbium
Dysprosium	Magnesium	Selenium	Zinc
Erbium	Manganese	Silicon	Zirconium



Treatability research service

Our treatability research service delivers actionable insights backed by our technical, application, and product knowledge with the analytical capability of the Application and Development Center. Treatability research provides process optimization and product comparisons by replicating full-scale treatment processes at the bench-scale.

Scope of study

A customized scope of study will be developed collaboratively with our water treatment specialist and the customer team. Treatability research helps verify that chemical treatment processes remove or convert constituents to achieve in-process or discharge requirements. The scope includes comparative study of products and identifying Minimum Effective Dose (MED) to best achieve technical and economic process goals. Bench-scale process steps, test parameters, and constituents of focus will be developed and defined in scope of study.

Treatability report

The treatability report includes study data, technical and economic analyses, photos, and interpretation of results. Additional files or supplemental photos may be available for integration with other documents used in project development and presentations.

Available bench-top processes

Chemical Treatment	Solids Removal*
Coagulation	Bag Filtration
Flocculation	Cartridge Filtration
Foam Control	Clarification
Metals Precipitation	Dissolved Air Flotation (DAF)
Oxidation	Foam Fractionation
pH Adjustment	Induced Air Flotation (IAF)
Phosphorus Removal	Mixed Media Filtration
Sludge Conditioning	Sand Filtration
	Solids Dewatering



Contact

To learn more, contact your local Water Treatment technician or email contactus@brenntag.com

Check out Brenntag Connect, your online platform and 24/7 access to our products and services like orders, product information, documents, invoices, and more.

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