

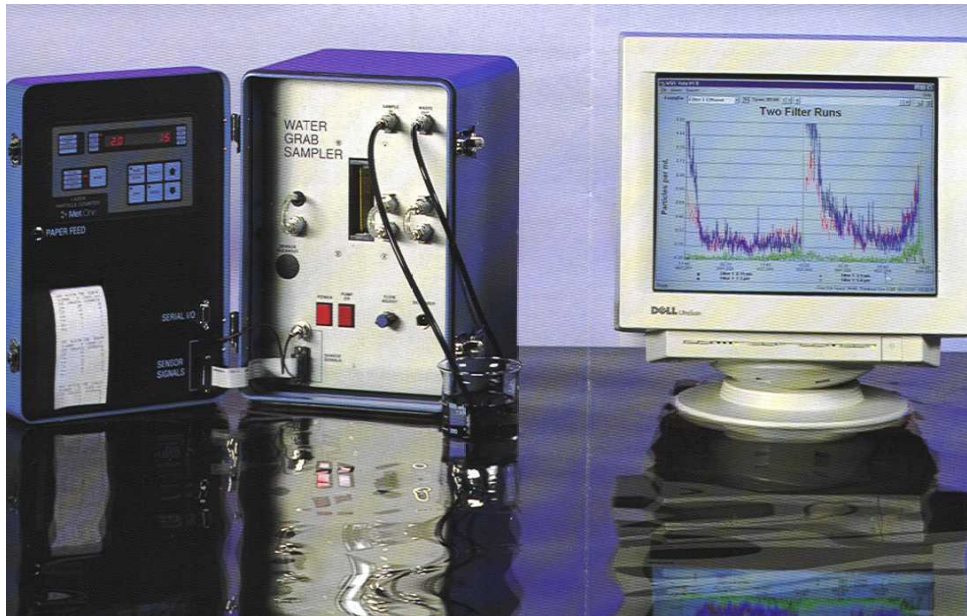


Ambient Water Treatment Consulting, Inc.

Water Treatment Monitoring
Cooling and Boiler Water Analyses
Water Treatment Bid Evaluations
Equipment Inspections
Pipe Analyses

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COOLING SYSTEM PARTICLE SIZE ANALYSIS FILTER PERFORMANCE EVALUATIONS



Suspended matter present in cooling water can and will eventually settle out in areas of that experience low flow and/or high heat-transfer rates. Low-flow areas include cooling tower basins, bypass piping, equalizing lines and branch piping serving units that are used intermittently. Locations with high heat-transfer rates include surface condensers and condenser tubes.

Once settled on a surface, this debris will provide an environment for biological growth and accelerated corrosion rates. The presence of biological growth and corrosion create an ideal environment for the amplification of *Legionella*. It is virtually impossible to control corrosion and fouling piping system and heat exchangers surfaces if corrosion inhibitors and biocides have no surface contact. To address these concerns, filtration is generally provided in the form of media (sand) filters, bag filters or strainers. Once this equipment, is installed it is seldom checked for adequate operation.



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On-Site Analyses Avoid Delays and Overcome Sampling Errors

To evaluate the efficiency of filtered water systems or to determine the need for filtration equipment, **Ambient Water Treatment Consulting, Inc.** utilizes a unique field-capable optical laser particle analyzer. Traditionally, a pint-sized sample of water is sent to a laboratory for evaluation; however, the analytical results are only as good as the sample. The sample might not be representative of typical operating conditions. The holding time of the sample (including transit time) also affects the accuracy of the results.

To avoid these costly sampling pitfalls, Ambient's equipment can go to the site and be used to obtain results from dozens of samples. The sample results are immediately processed via an on-board data logger and printer. Ambient's water treatment professionals also have the experience to understand your system and its equipment and interpret the particle count results in a meaningful way.

Ambient Water Treatment Consulting, Inc. is a full-service consulting firm staffed with water treatment professionals who are dedicated to providing you with **unbiased, independent information** on the state of your critical heat-transfer equipment. **We do not sell treatment products.** We perform a variety of testing and inspection services that determine the effectiveness of your existing water treatment program.

Since 1998, we have provided essential services to some of the best-known property management firms in the country, as well as health care facilities, data centers, museums and industrial complexes.

For more information on this subject and for answers to all of your water treatment questions, please visit our website www.awtconsulting.com and/or contact us at:

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