



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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PIPE SAMPLING PROTOCOL FOR METALLURGICAL ANALYSIS

FOLLOW THESE STEPS TO ENSURE THE BEST OUTCOME WHEN OBTAINING PIPE SAMPLES FOR DESTRUCTIVE EVALUATION:

SPOT SAMPLE LOCATION WITH THE HELP OF AN AMBIENT WATER TREATMENT CONSULTING, INC. REPRESENTATIVE.

WHEN SAMPLING A FAILURE BE SURE TO OBTAIN A SAMPLE THAT INCLUDES THE FAILURE POINT AS CLOSE TO THE CENTER OF THE PIPE LENGTH AS POSSIBLE.

SAMPLES SHOULD BE TAKEN APPROXIMATELY TWO FEET FROM ELBOWS OR VALVES UNLESS FAILURE OCCURRED IN THESE AREAS.

IDEAL SAMPLE LENGTH IS 12 INCHES FOR PIPE GREATER THAN 2" OD AND 18 INCHES FOR PIPE 2" OD AND SMALLER.

PHOTOGRAPH THE PIPE SECTION IN PLACE PRIOR TO REMOVAL.

DOCUMENT THE LOCATION RELATIVE TO THE ENTIRE WATER SYSTEM.

MARK SAMPLE WITH DIRECTION OF WATER FLOW, AS WELL AS IDENTIFYING THE TOP AND BOTTOM. IDENTIFY SUPPLY AND RETURN AND VERTICAL OR HORIZONTAL ORIENTATION.

AVOID DISTURBING ANY WATERSIDE DEPOSITS. IF POSSIBLE, CUT THE SAMPLE OUT WITH A SAW. USING A TORCH MAY OVERHEAT PIPE SURFACES.





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MAINTAIN THE SAMPLES IN A WET CONDITION SUBMERGED IN A CLEAN CONTAINER OF SYSTEM WATER. DO NOT USE A CONTAINER PREVIOUSLY USED FOR OILS, BIOCIDES OR CHLORINE/BROMINE.

NOTIFY **AMBIENT WATER TREATMENT CONSULTING INC.** AS FAR IN ADVANCE AS POSSIBLE AS TO THE EXPECTED DATE OF THE PIPE SAMPLE REMOVAL.



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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