



Taste and Odor Treatment Evaluations

Finding both an effective and practical solution is important to our clients.

Combining our expert process engineering and laboratory staff, CH2M HILL can provide a treatability team to tackle these challenges.

We have been conducting taste and odor treatment evaluations for many years and have a broad base of experience finding effective and practical solutions. We conduct bench- and pilot-scale testing to aid in the selection or implementation of a treatment process for a specific water source. We have optimized existing plants and designed new plants to address taste and odor treatment using the following options:

Powdered Activated Carbon (PAC) – Evaluated in the lab using an isotherm test to provide taste and odor compound adsorption capacity information. PAC offers treatment on an as-needed or “event” basis.

Granular Activated Carbon (GAC) – Evaluated by the isotherm test or in combination with a Rapid Small Scale Carbon Treatment (RSSCT) test to provide both adsorption capacity and design criteria, such as bed life.

Ozone – Often used in combination with advanced oxidation options such as peroxide, this test provides taste and odor and demand/decay information for treating a specific water source.

UV – Evaluated using a bench-level collimated beam system in combination with advanced oxidation options.

Our analytical laboratory provides ongoing support to our clients through system monitoring and treatability studies. We analyze for taste and odor compounds using Standard Method 6040D. This extremely sensitive technique is used to achieve reporting limits at the 1 ng/L parts per trillion level for taste and odor compounds.

Taste and odor events can present a significant challenge to a water treatment team.

Contacts

For more information on this and other services CH2M HILL’s ASL can provide, please contact:

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