

CHEMICAL OXYGEN DEMAND (COD)	
Test Description	Determination of Chemical Oxygen Demand in water.
Test Use	Useful for evaluating drinking and non-drinking waters. May be applied to other matrices as well.
Test Department	Inorganic Chemistry: Phone 860-920-6666/6667 Fax 860-920-6670
Methodology	Hach 8000
Availability	Year-round
Sample Requirements	One (1) sample collected in a pre-cleaned plastic bottle free of contamination.
Container type /Preservative	½ Gallon plastic Chem Bottle. Sulfuric Acid preservative should be added to achieve pH < 2. No acid addition is necessary if sample is tested immediately.
Collection Instructions (Note 1)	For taps, remove aerators and let water run 4-5 minutes. For outdoor locations, sampling location should be in accordance with a preapproved quality assurance project plan.
Sample Holding Time & Transport	Samples are iced or refrigerated and kept at 4°±2°C from time of collection until analysis. Preserved samples must be analyzed within 28 days of collection.
Unacceptable Conditions	Incomplete requisition form. Insufficient sample volume. Preserved samples received beyond the 28-day holding time.
Requisition Form	Use the Inorganic Chemistry form (Drinking Water, Stream Survey, or Non-Potable Water) as appropriate to the type of water collected.
Required Information	Fill out entire requisition form.
Limitations	
Additional Comments	Samples can be acid-preserved at time of collection, or in the laboratory upon receipt.

Note 1: See *New England States Environmental Sampling Guide*, latest edition.

<https://www.epa.gov/sites/production/files/2015-06/documents/NE-States-Sample-Collection-Manual.pdf>