Evaluation of ozone decay characteristics in waters with various qualities
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Rationale:
• Ozone decay characteristic plays important roles in disinfection and abatement of trace organic contaminants
• Water quality such as physical properties of natural organic matter (NOM) has substantial influence on ozone decay.

Objectives:
• To evaluate ozone decay in waters with various water qualities
• To understand the alteration of NOM characteristics in a given water treatment

Approach:
• Measurement of ozone decay using indigo trisulfonate method
• Measurement of organic water quality parameters to understand the alteration of NOM characteristics.

Key Deliverables:
• Residual ozone concentration over time of exposure (ultimately provides the information on how much ozone exposure can be achieved at a given ozone dose) (Fig. 1)
• NOM characteristic change over the course of treatments (e.g., ozone, Fig. 2)

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