Session3A: **Water Monitoring and Human Health Related Issues**
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Proposed Nutrient Criteria for Potable Water Sources in New York State
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Historically, nutrients and nutrient-related indices have not been thought of in terms of human health concerns. How enrichment of public water supply source waters can pose significant risk to public health. There are a number of human health concerns that are indirectly associated with nutrient enrichment and related issues. The human health concerns investigated during this investigation are the issue of disinfection by-product (DBP) formation and production of algal toxins. There is a growing body of literature to indicate that levels of both DBPs and algal toxins found in public drinking water supplies are, at least in part, dependent upon the trophic status of the water source.

The project investigated the relationship between nutrient-related indices and certain human health related indices in nutrient criteria and thresholds protective of potable water sources. The New York State Department of Environmental Conservation in collaboration with its partner organizations conducted studies to develop statewide nutrient criteria for ponded water to protection of potable water sources. Preliminary findings and recommendations from the study will be presented.

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