



Human Health Risk Assessment for 1,4-Dioxane in Drinking Water

NC Secretaries' Science Advisory Board

December 6, 2023

Sushma Masemore, P.E.



Regulatory Reform Act of 2023

- [House Bill 600/Session Law 2023-137](#)
- Section 9.(a)
 - Directs DEQ to prepare a human health risk assessment of 1,4-Dioxane in drinking water.
 - Assessment to be supported by peer-reviewed scientific studies.
 - Assessment report due May 1, 2024 to the Joint Legislative Commission on Governmental Operations.



Request for SAB's Assistance

- Small team of scientists assembled to conduct literature review, evaluate the latest science, and prepare a report on 1,4-Dioxane levels and associated risk to human health.
- Suggested participants
 - **DHHS: Dr. Betsey Tilson**
 - DEQ: Dr. Frannie Nilsen
 - **EPA: Dr. Elaina Kenyon**
 - **NC State University: Dr. Detlef Knappe**
 - NC Collaboratory
 - EPA Office of Research and Development
 - National Institute for Environmental Health Sciences
- Duration: Jan 1 – April 30, 2024
- Anticipated participation level
 - Weekly or biweekly calls
 - Literature review, discussion, synthesis of findings
 - Report preparation

