



Environmental Sciences Graduate Program Student Seminar Series

Wastewater SARS-CoV-2 Surveillance: Small City Perspective

Emma Lancaster

February 19th, 2021 | 2:00-3:00 PM

Join Zoom Meeting

<https://osu.zoom.us/j/99820921442?pwd=d3hpTS9wYnc2Z29uZDR4NE4wNy81UT09>

Meeting ID: 998 2092 1442

Password: 143516



Abstract

Since the summer of 2019, The Ohio State University has partnered with the Ohio Department of Health, Ohio EPA, and Ohio WRC to implement a statewide SARS-CoV-2 wastewater monitoring program to help slow the spread of COVID-19. OSU is responsible for surveilling 8 central Ohio cities: Athens, Circleville, Columbus, Lancaster, Marietta, Marysville, Newark, and Athens. This project utilizes influent wastewater from the cities' municipal wastewater treatment plants to quantify SARS-CoV-2 gene copies/fragments. As a result, this data can be used to evaluate the association between SARS-CoV-2 concentrations and clinical COVID-19 case numbers. A glimpse at preliminary results will be presented. However, the socioeconomic parameters of each city and WWTP will be reminded. This presentation raises questions on the relationship of wastewater, socioeconomic, and COVID-19 dynamics between small/medium sized cities and large, metropolitan cities (Columbus).