

Special Influent Studies at the Laguna Treatment Plant

Santa Rosa Water Board of
Public Utilities
September 18, 2025



OUR FUTURE IN EVERY DRÖP

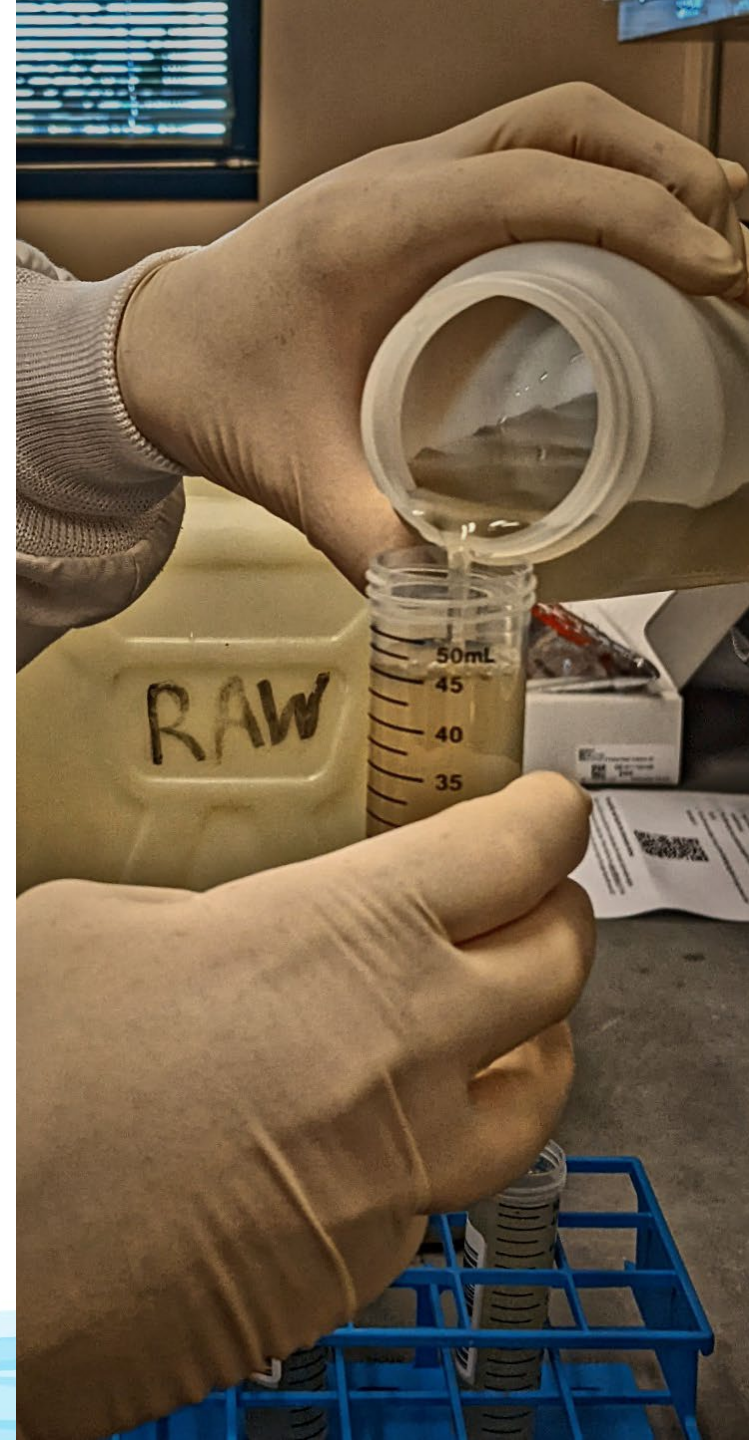


City of Santa Rosa's Influent Studies

- Submitted data as part of two studies
 - Biobot
 - Verily
- Program direction by Stanford and Emory Universities
- Three samples per week
- Samples are raw wastewater providing data anonymization
- Staff responsible for the collection, preservation, and shipping samples



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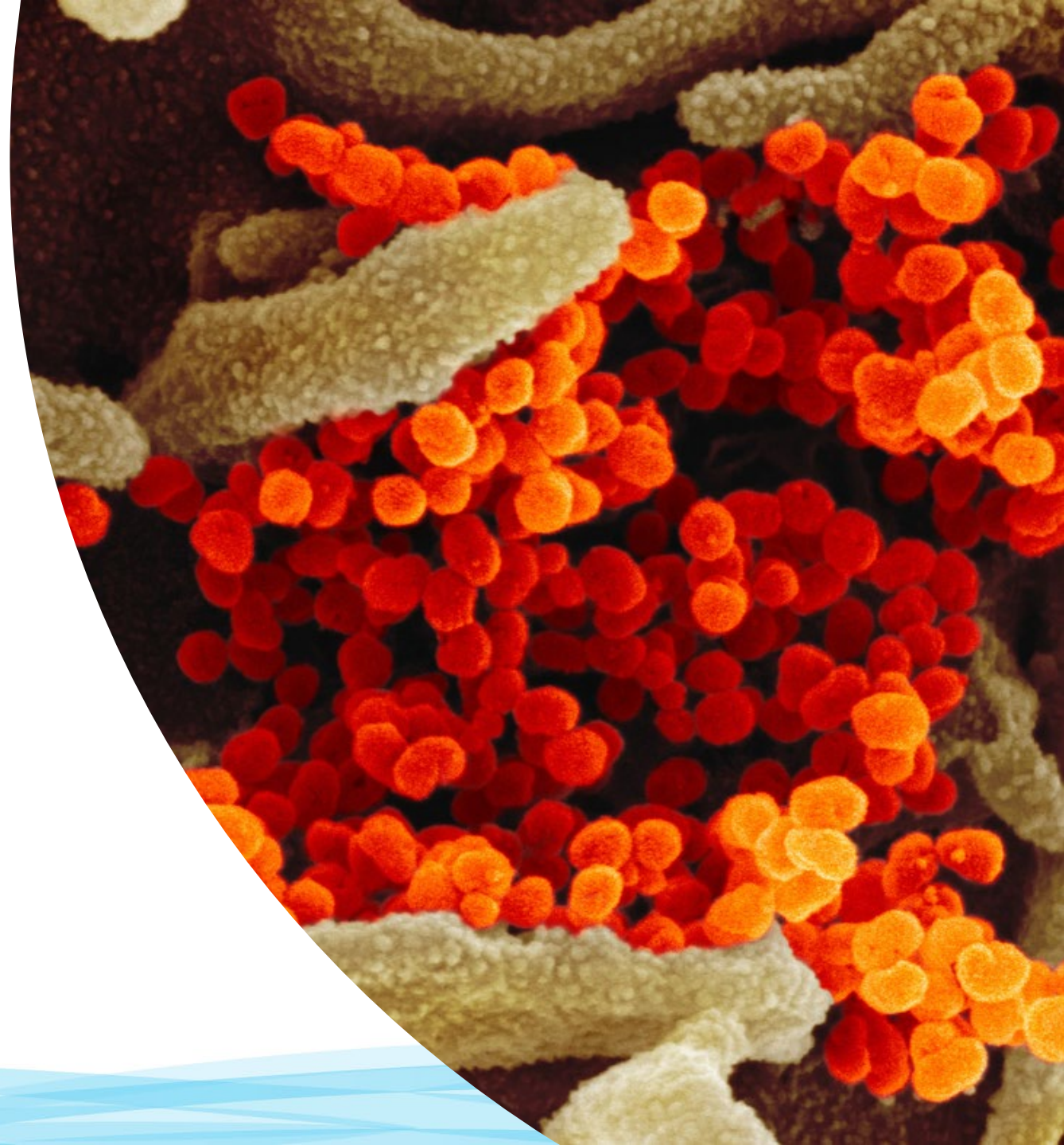


Wastewater Epidemiological Studies

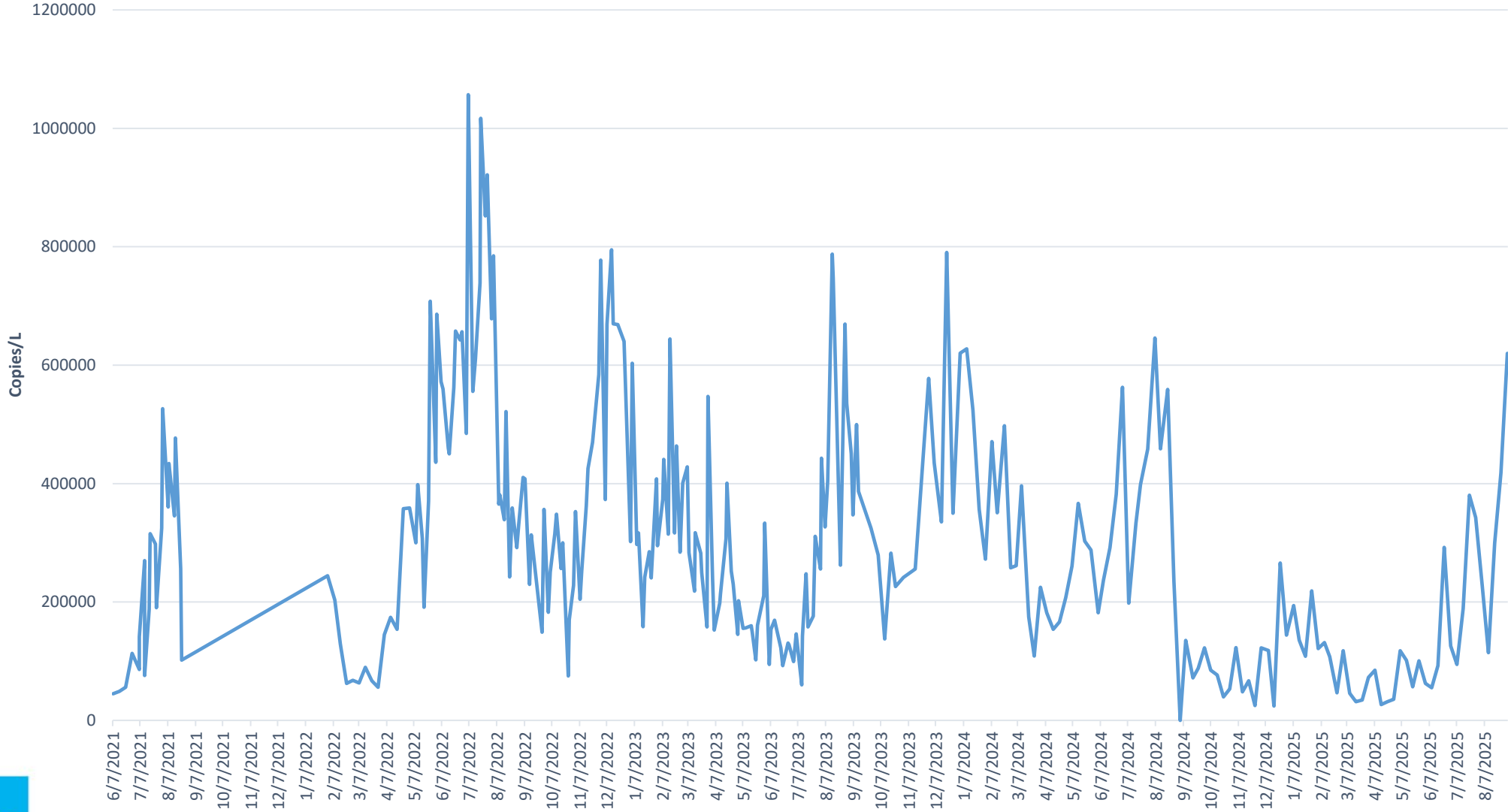
- The Water Department is participating in two National Studies
 - 147 wastewater treatment plants and >37M people
- Multiple viral studies including:
 - SARS-CoV-2
 - Influenza A, B, H1, H3, and H5
 - Respiratory Syncytial Virus (RSV)
 - Human Metapneumovirus
 - Norovirus
 - Rotavirus
 - Mpox
 - Hepatitis A
- Newly added Measles



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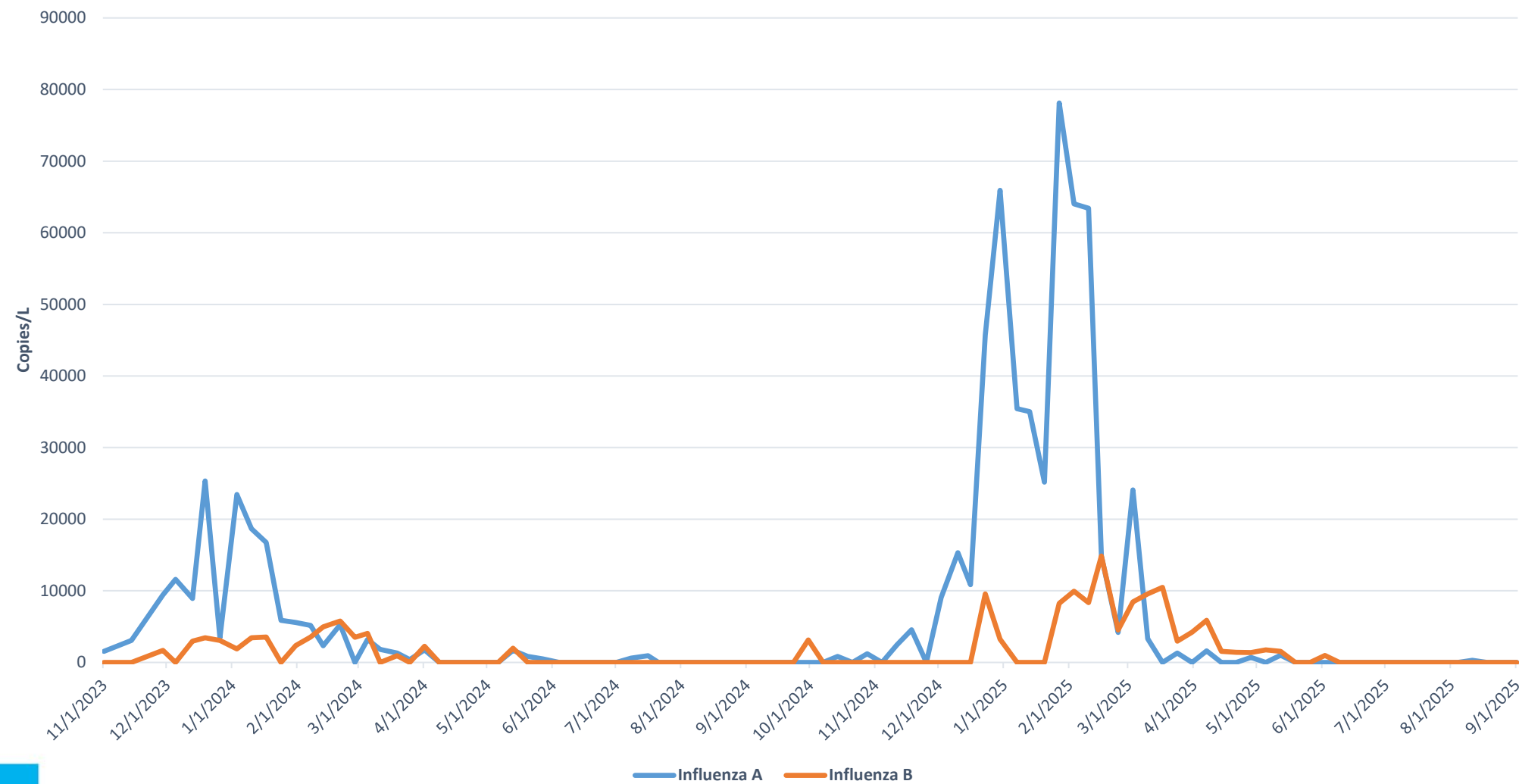


SARS-COV-2



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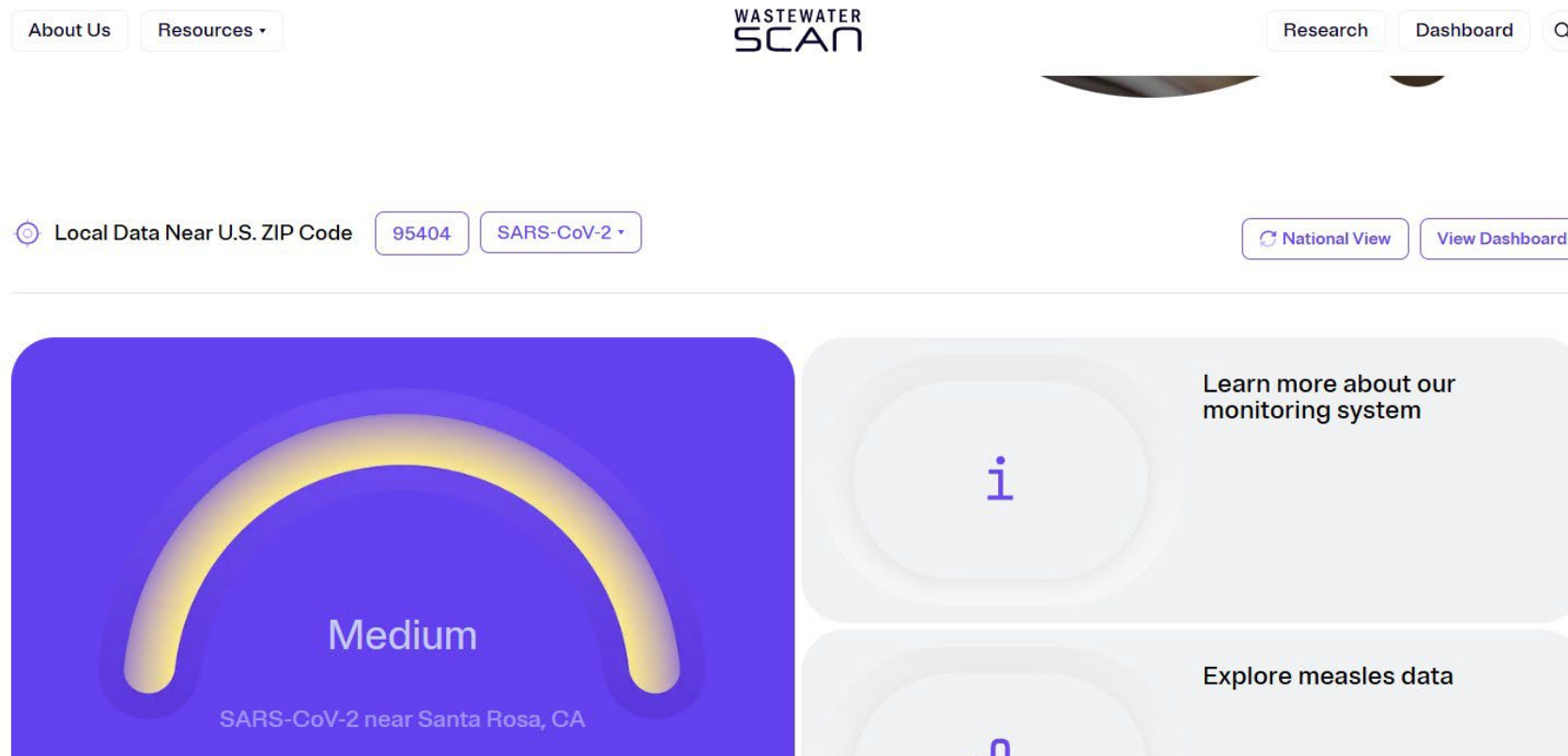
Influenza A & B



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Public Facing Dashboard

- Data can be viewed publicly at wastewaterscan.org



Overview for
Santa Rosa, CA

View chart details →

SARS-CoV-2

Medium

No trend in the last 21 days and medium concentration ⓘ

RSV

Low

Pathogen is seasonal and not in onset ⓘ

Influenza A

Low

Pathogen is seasonal and not in onset ⓘ

Influenza B

Low

Pathogen is seasonal and not in onset ⓘ

Human Metapneumovirus

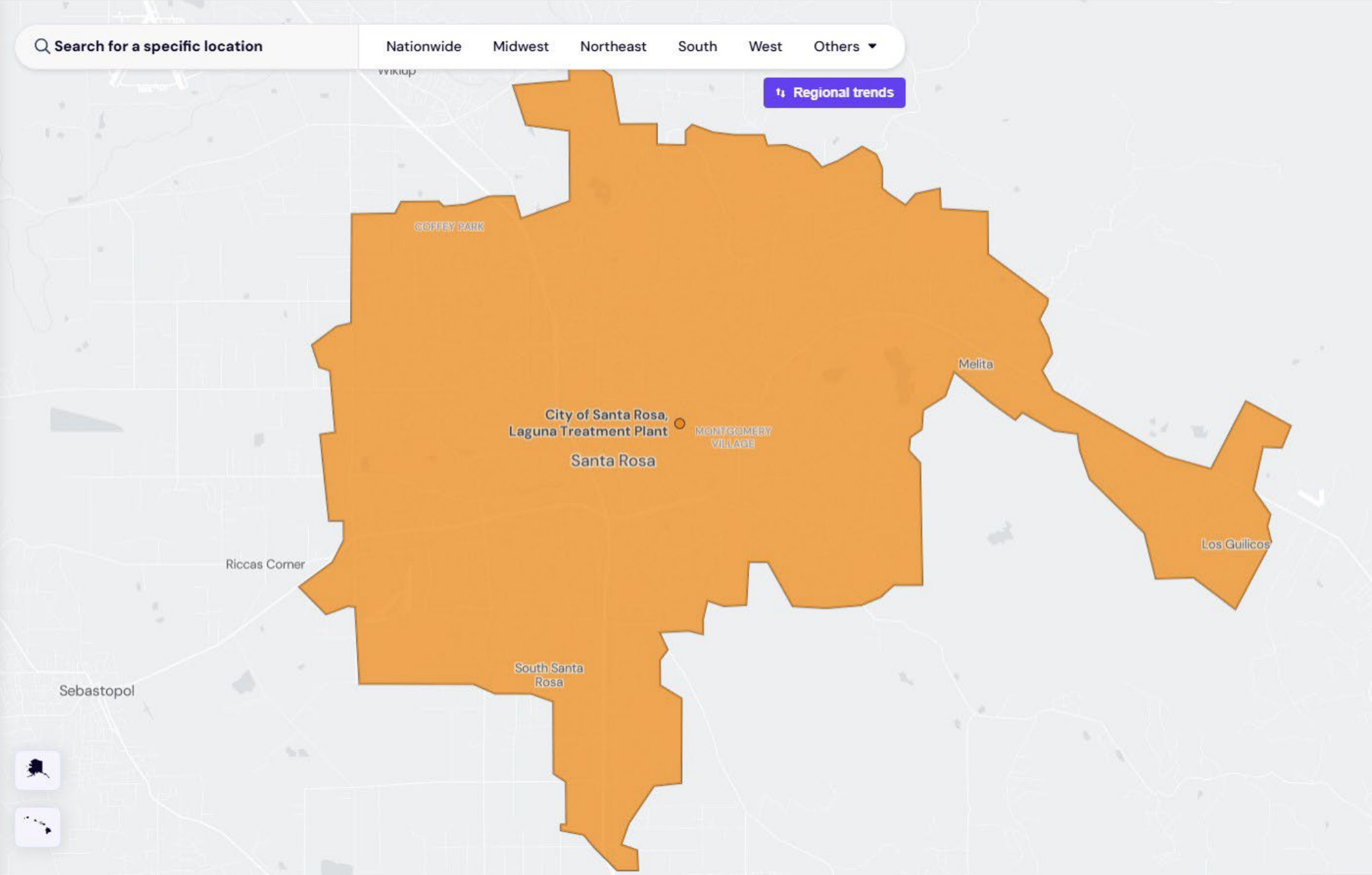
Low

Pathogen is seasonal and not in onset ⓘ

EVD68

Low

Pathogen is seasonal and

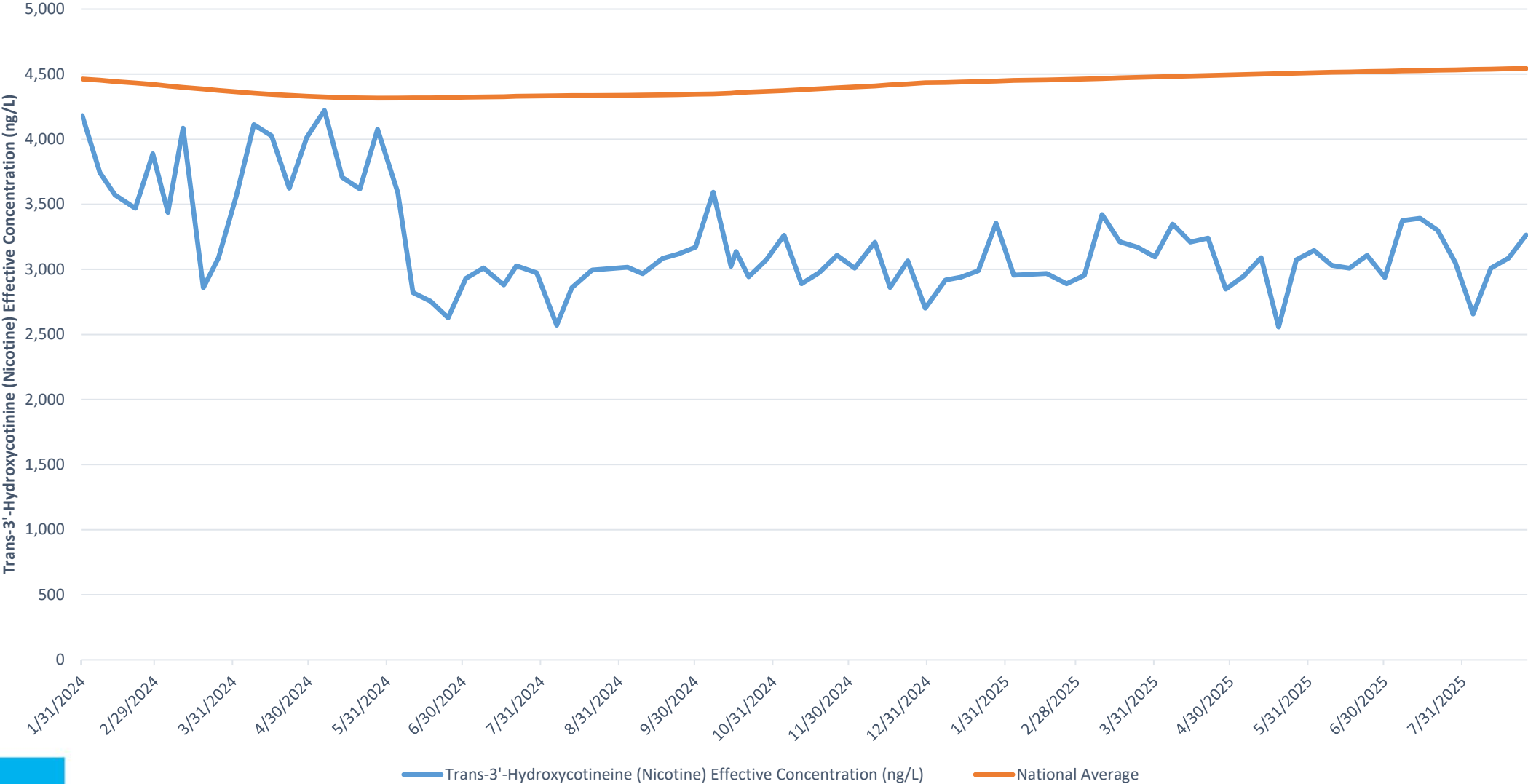


Illicit Drugs

- Development of data for public health needs in disadvantaged communities.
- Data is collected from wastewater influent for:
 - Fentanyl
 - Cocaine
 - Methamphetamine
 - Xylazine



Trans-3'-Hydroxycotinine (Nicotine) Consumption Estimate



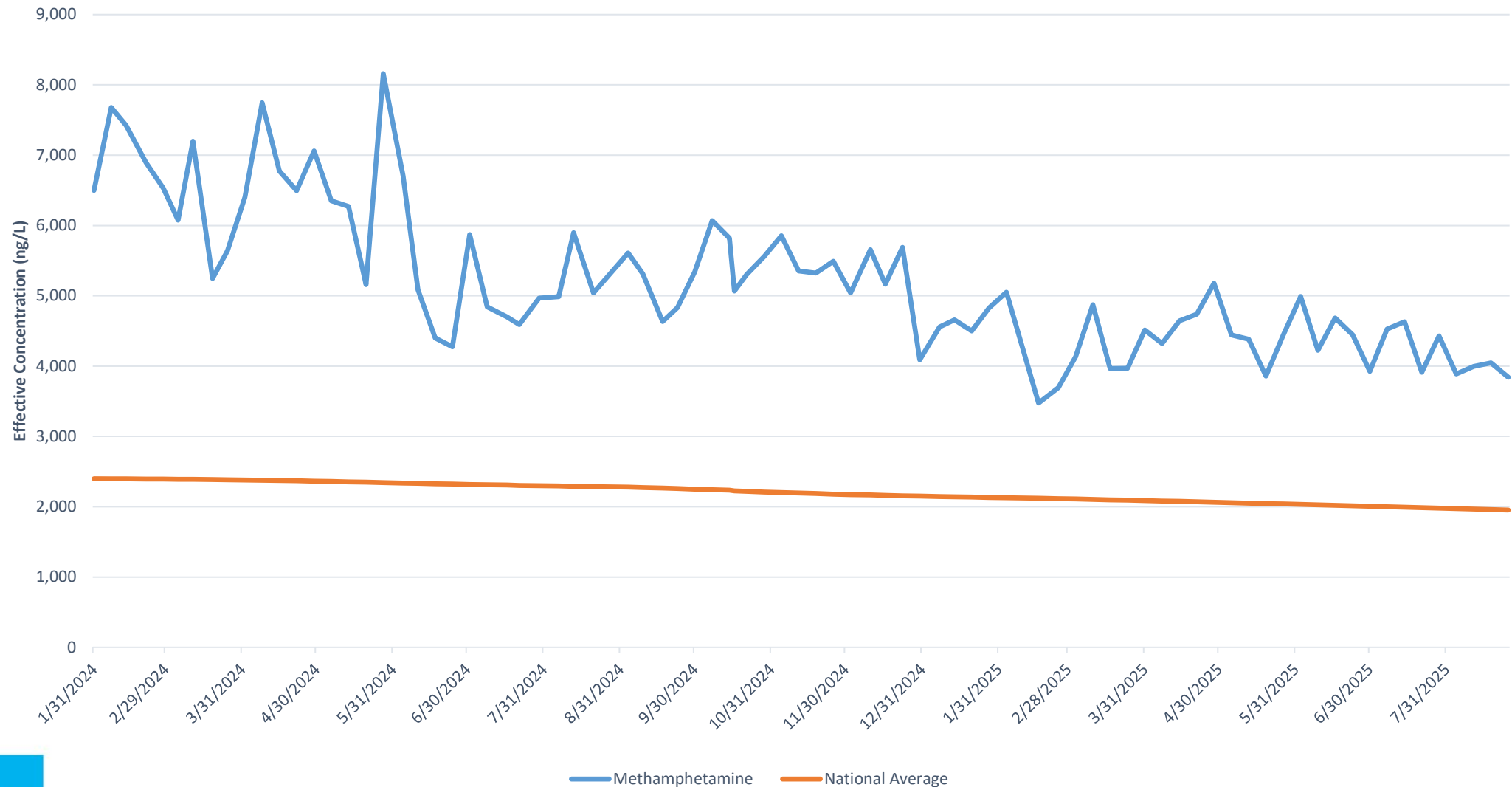
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Fentanyl Consumption Estimate



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Methamphetamine Consumption Estimate



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Questions

