Update on OC San's COVID-19 Sewage Surveillance Efforts



1

Presentation

- Introduction to sewage surveillance
- OC San, SWRCB/CDPH, and CDC efforts
- Next steps
- Acknowledgement

Sewage Surveillance

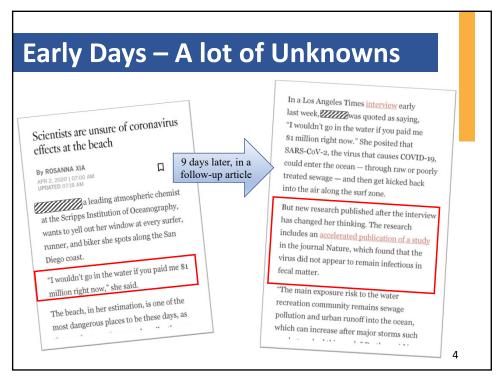
What is sewage surveillance (WBE)?

- Measure microbiological markers in wastewater
 - · Community-level infection
 - · Augment clinical surveillance
 - · Inform on public health interventions

How is it used during COVID-19?

- SARS-CoV-2 markers shed in feces (symptomatic/asymptomatic)
- Early and unbiased indicator of changes in community infection
- · Variant detection

3



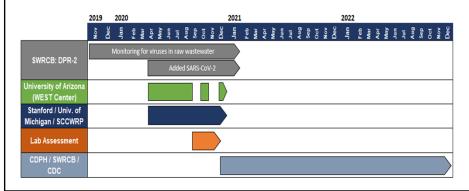
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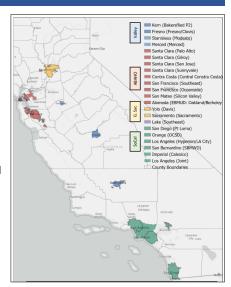
OC San Efforts

- Started with 4 partners and narrowed down to lab that met our needs
- Current partnership with CDPH and SWRCB to support CDC NWSS



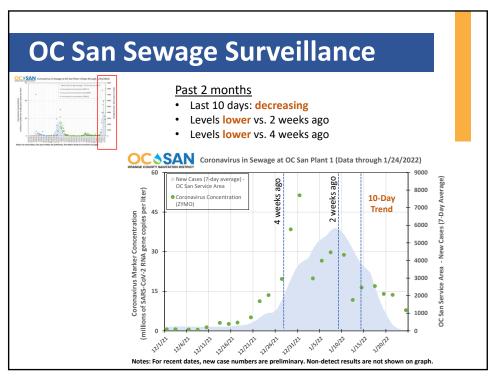
California and National Efforts

- California NWSS
 - · Part of CDC's NWSS
 - Began 12/2020 with 5 largest wastewater agencies
 - Currently includes 22 agencies
- Monitor sewage for SARS-CoV-2 marker and variants
- Data transmitted to CDC NWSS portal



7

OC San Sewage Surveillance Coronavirus In Sewage at OC San Plant 1 (Data through 1/24/2022) New Cases (7-day average) - OC San Service Area Coronavirus Concentration (DPR-2) Coronavirus Concentration (SCCWRP) Coronavirus Concentration (SCCWRPP) Coronavirus Concentration (SCCWRPP) Coronavirus Concentration (SCC



9

Looking Ahead

- Continue to partner with CDPH and SWRCB to support CDC NWSS
 - Test sewage 3x/week through December 2022
 - Continue surveillance and add variant monitoring



Statewide Recognition for OC San



STATE WATER RESOURCES CONTROL BOARD RESOLUTION NO. 2021-0049

RECOGNIZING WASTEWATER TREATMENT UTILITIES' VOLUNTARY CONTRIBUTIONS TO MONITORING FOR COVID-19 IN WASTEWATER



CALIFORNIA WATER QUALITY MONITORING COUNCIL RESOLUTION NO. 2021-0001

WASTEWATER-BASED SURVEILLANCE OF COVID-19

11

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Acknowledgements

- Margil Jimenez –Scientist
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- Management
- Partners



















13

Questions



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