

Environmental Services Division Update

Subregional Technical Advisory Committee
October 13th, 2022



OUR FUTURE IN EVERY DRÖP

Three Updates



ENFORCEMENT
RESPONSE PLAN
AND SIU POLICY
UPDATES



LAGUNA
ENVIRONMENTAL
LABORATORY



WASTEWATER
EPIDEMIOLOGICAL
TESTING

Enforcement Response Plan (ERP)

- General enforcement plan covering all wastewater users
- Mandatory for EPA approved pretreatment program
 - Pretreatment staff responsibilities
 - Administrative enforcement tools and guidelines
 - Fine ranges for industrial user non-compliance
- Current version approved 2010
- Referenced in and supported by all Regional Partner's Municipal Codes
- Establishes enforcement procedural uniformity in Regional System



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Changes to ERP Overview

- Staff titles and enforcement responsibilities updated
- Inclusion of hauled waste to the industrial users
- Department name updated



Significant Industrial User Enforcement Response Policy (SIU Policy)

- Specific SIU policy for users that meet the EPA definition of an SIU
- Defines user actions that result in non-compliance
- Provides structure for escalation of SIU non-compliance
- Outlines fine structure for administrative and reporting violations
- Current policy approved 2010

Changes to SIU Policy Overview

- Definition of Significant Non-Compliance changed to replicate language used in EPA regulations
- Updated acceptable user discharge pH range to match the City code



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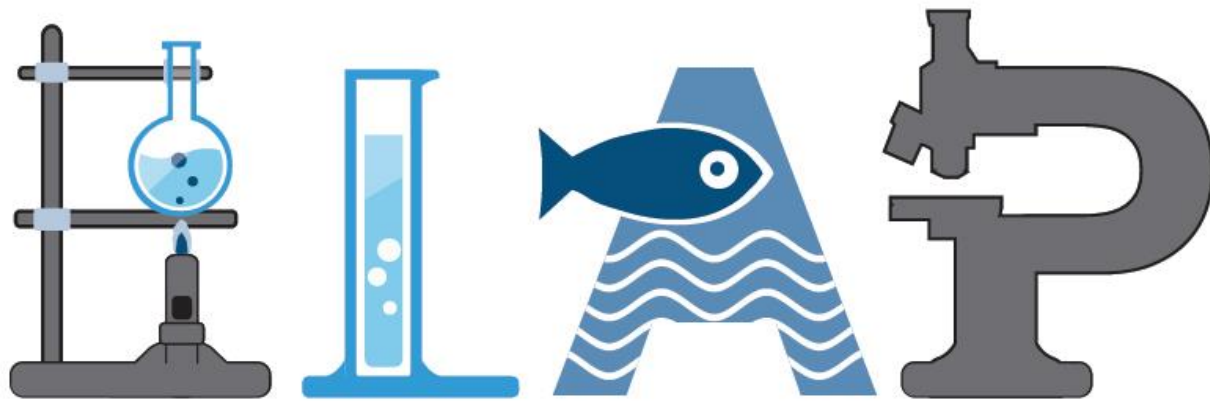




Laguna Environmental Laboratory (LEL)

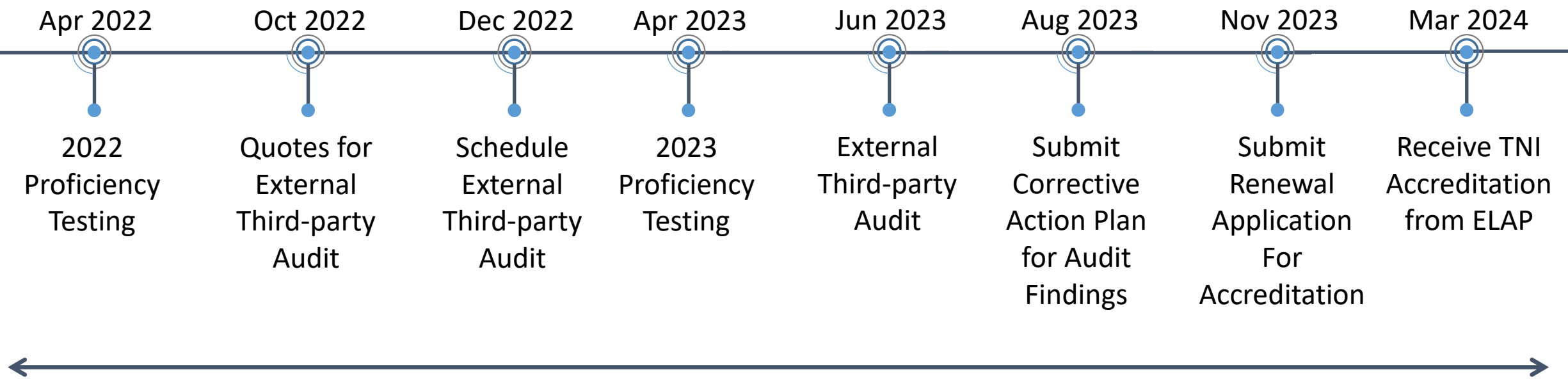
- LEL was established in 1968
- Expanded to add a broader scope of analytical testing in 2000
- Thirteen staff work 7 days/week
- Staff processed 19,108 samples last fiscal year

Maintaining Accreditation



Environmental Laboratory Accreditation Program
STATE WATER RESOURCES CONTROL BOARD

- Environmental Laboratory Accreditation Program (ELAP)
 - Accreditation body for environmental laboratories in California
 - Adopted The NELAC Institute (TNI) standard with laboratories needing to adopt new regulations by January 2024
 - Updates to the City Program are focused with the Quality Assurance Program



Updating: Quality Assurance Manual, Standard Operating Procedure Documentation, Bench Sheets, ETC...
&
Laboratory Training

TNI Compliance Timeline

- Quality Assurance Coordinator and the Laboratory Supervisor to maintain timeline
- New Supervising Analyst
- Support from ChemVal Consulting



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Instrument Replacement 2020 - 2022



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- Gas Chromatograph/Mass Spectrometer (Volatiles)
- Type I Deionized Water Systems
- rAPID-T (Cyanide)
- Ion Chromatograph (Nutrients)
- Inductively Coupled Plasma Mass Spectrometry (Low Level Metals)
- Cold Vapor Atomic Fluorescence (Low Level Mercury)
- Cold Vapor Atomic Absorbance (Mercury)
- Gas Chromatograph (Semi-volatiles)
- Gas Chromatograph/Mass Spectrometer (Pesticides)

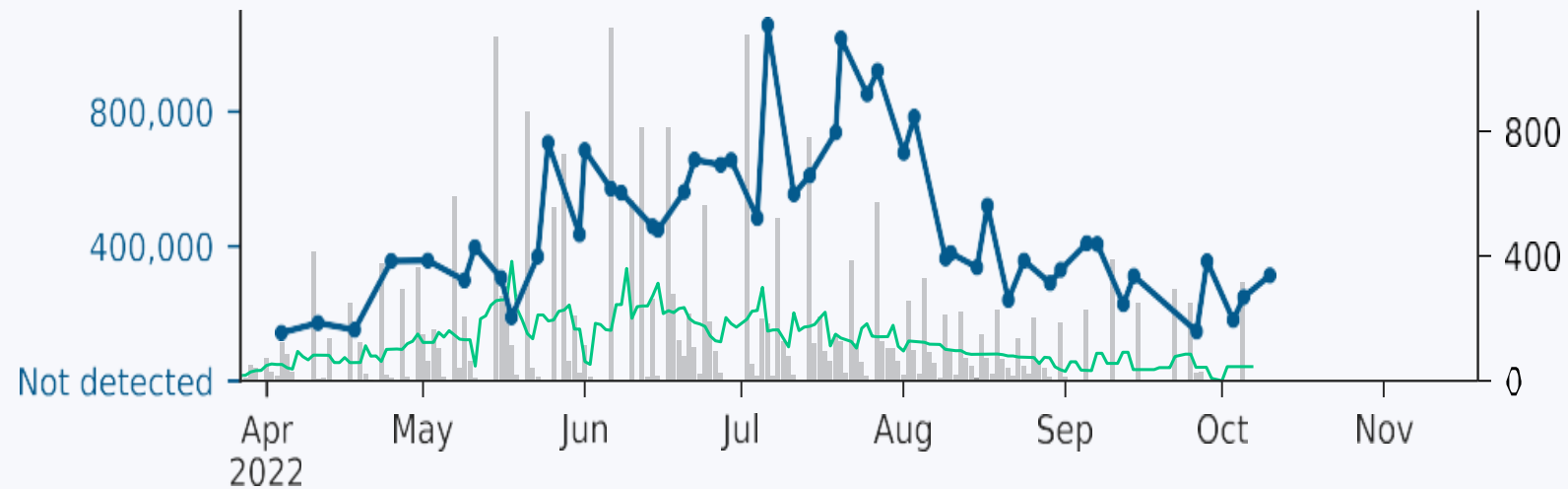
The background features a dark teal color with a faint, large-scale illustration of a DNA double helix on the left side. Scattered throughout the background are numerous small, detailed representations of various virus particles, including spherical ones with surface proteins and others with more complex, elongated structures.

Wastewater Epidemiological Studies

- COVID
- Monkey Pox
- Influenza A (not found yet)
- Respiratory Syncytial Virus (RSV)

Effective virus concentration over time

Effective SARS-CoV-2 virus
concentration (copies / L of sewage)

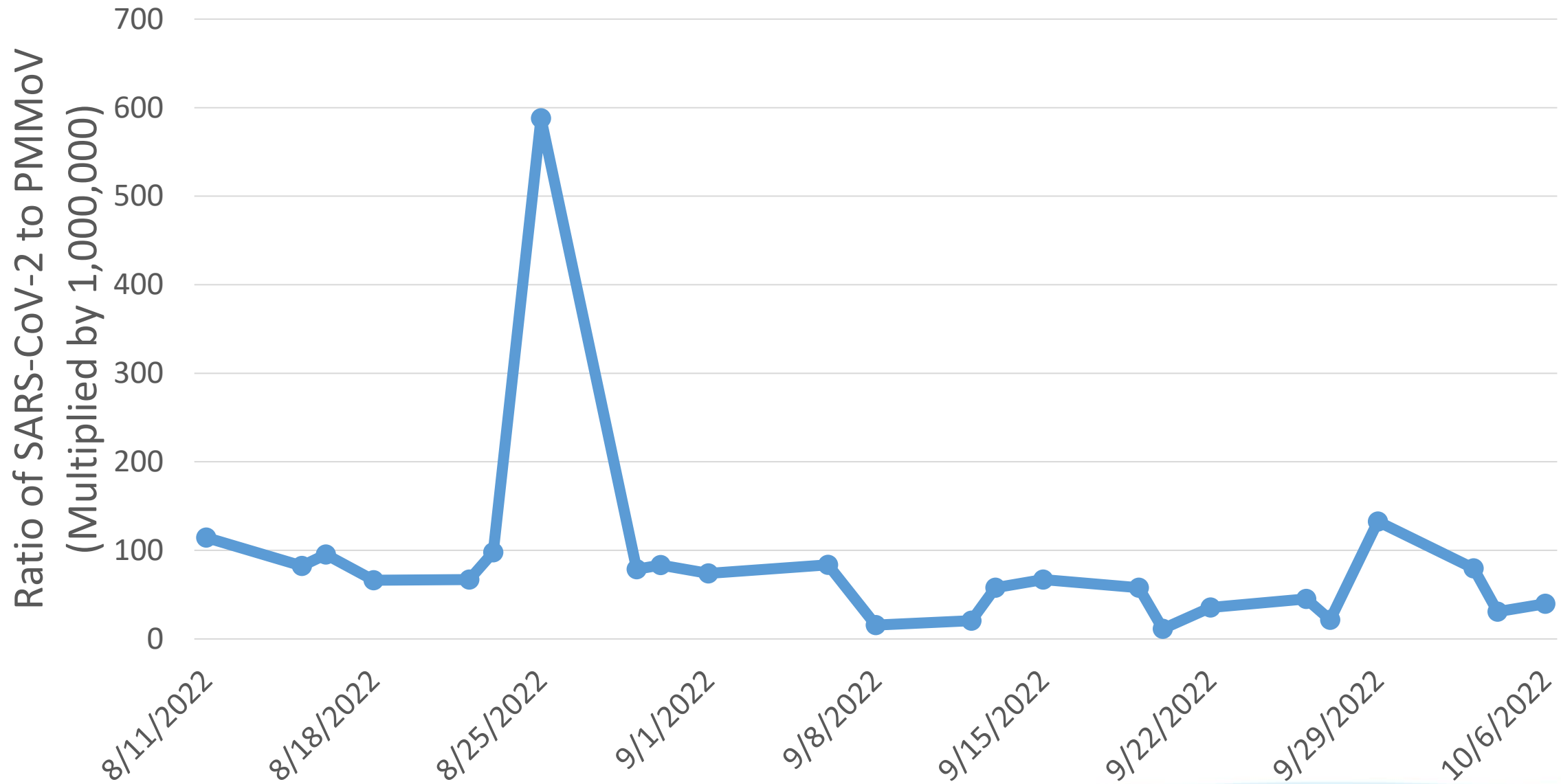


—● Effective SARS-CoV-2 virus
concentration

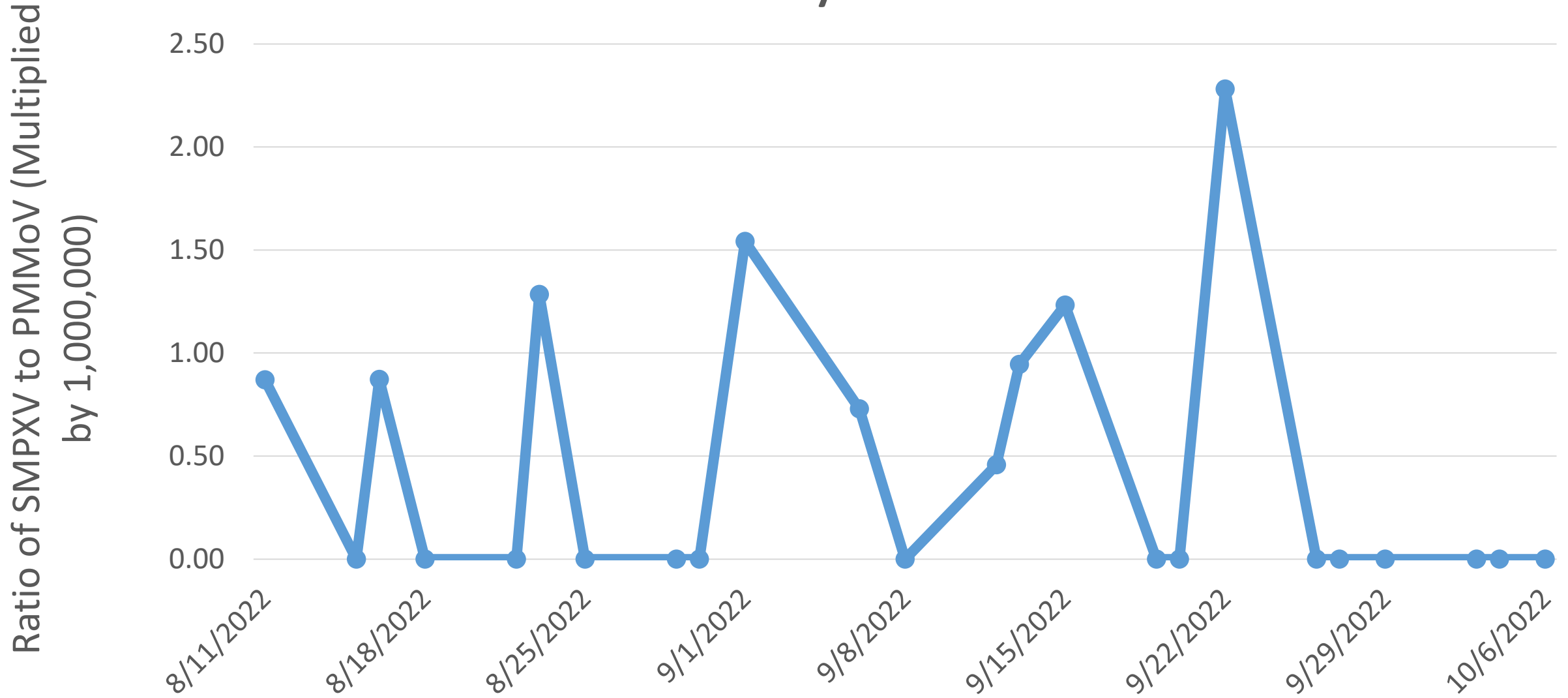
— 7-day rolling average of new cases in
your county New cases in your county



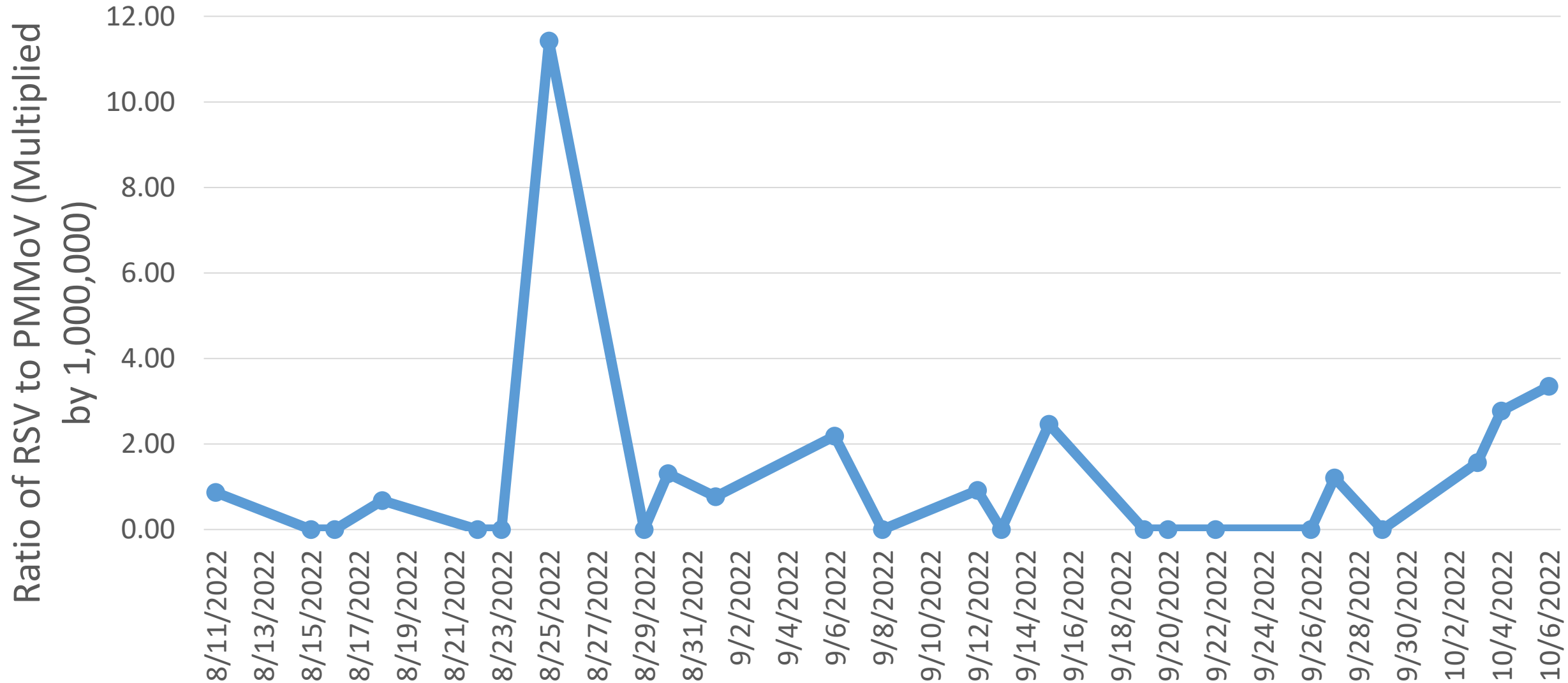
COVID-19



Monkey Pox



Respiratory Syncytial Virus



Questions



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