

Environmental Services Division Update

Subregional Technical
Advisory Committee
April 4, 2024



OUR FUTURE IN EVERY DROP



Trucked Waste Program



Analysis of Drugs in Laguna Treatment Plant Influent



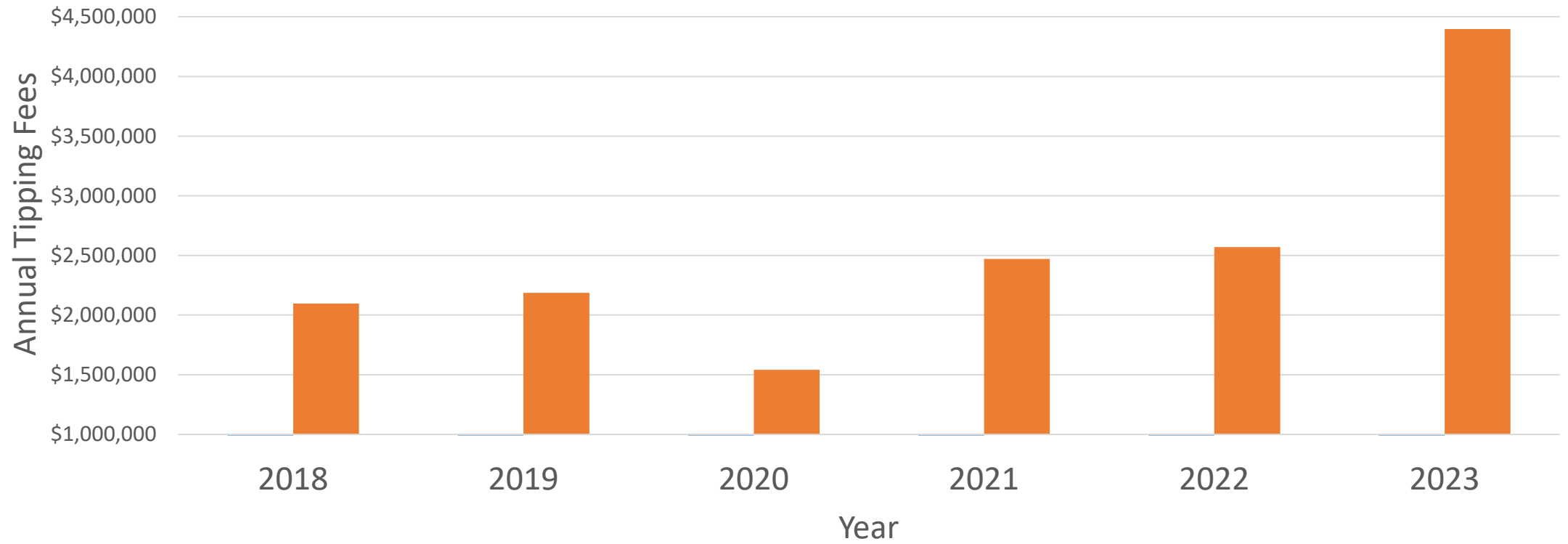
Trucked Waste

- Increased use
- Increased sampling and oversight
- Increased tipping fees
- Increased costs to manage



OUR FUTURE IN EVERY DRÖP

Trucked Waste Billing



OUR FUTURE IN EVERY DRÖP

Trucked Waste Growing Pains

- High strength waste receiving station full most days
- Ensuring discharges do not negatively impact plant processes
 - Leachate inhibits Ultraviolet Transmittance
 - pH issue
 - Solids blocking pumps
- Increased truckloads in the plant

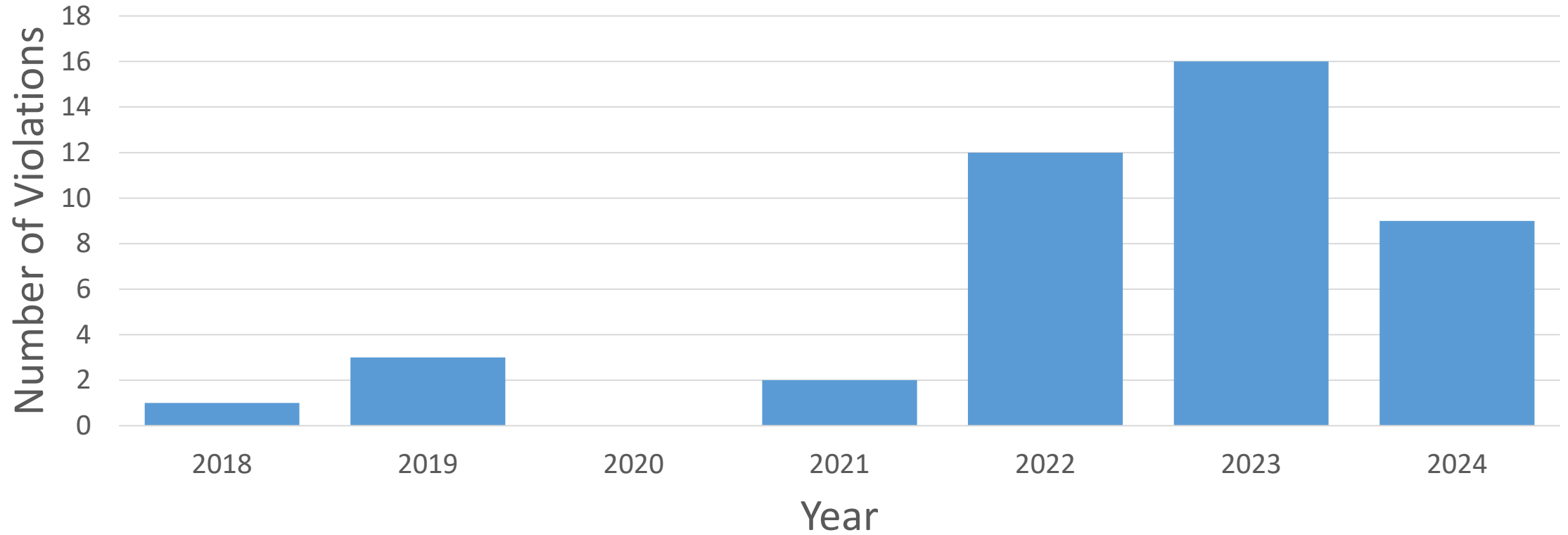
Trucked Waste Studies

- Wine waste and wine rinsate study - Completed
- Ultraviolet Light Transmittance Blocking (UVT) – In Progress
- Plant capacity to handle waste streams (Local Limits Study) – Will start next fiscal year

Tipping Fee Schedule

Waste Stream	2022 Fees	2023 Fees	2024 Fees	2025 Fees
Septic	\$ 130	\$ 130	\$ 130	\$ 131
Medium Strength	\$ 40	\$ 43	\$ 46	\$ 49
HSW -Receive Station	\$ 40	\$ 40	\$ 40	\$ 40
Gray Water	\$ 40	\$ 41	\$ 42	\$ 43
Leachate	\$ 17	\$ 20	\$ 23	\$ 26
Meacham Leachate	\$ 14	\$ 20	\$ 23	\$ 26
Low Strength	\$ 20	\$ 22	\$ 24	\$ 26

Trucked Waste Violations





Analysis of drugs in wastewater

- Trans-3'-Hydroxycotinine (Nicotine Metabolite)
- Fentanyl
- Cocaine
- Methamphetamine

Need/Context of the Data

- Development of data for public health needs in disadvantaged communities.
- Data is collected from wastewater influent.
- While not specifically looking at illicit drugs, the WaterReuse Research Foundation studied Pharmaceuticals and Personal Care Products (PPCPs) in recycled water and found concentrations of PPCPs much lower than acceptable levels and extremely low for effective dosage.

WHAT'S THE RISK?

A Comparison of Exposure to PPCPs from Recycled Water vs. Conventional Uses

This chart compares typical exposures to three Pharmaceuticals and Personal Care Products (PPCPs) — antidepressant, ibuprofen, hormone — with exposure to the same chemicals in recycled water under four different scenarios in which a person may come into contact with the water. For each scenario — child at play, agricultural worker, landscaper, and golfer — the chart shows how many years one could participate in that activity before reaching a single daily dose of the chemical from typical exposures.

Number of years of exposure to recycled water to equal conventional dose.



KEY: Four common scenarios where people may come into contact with recycled water.



Child at Play



Ag Worker



Landscaper



Golfer

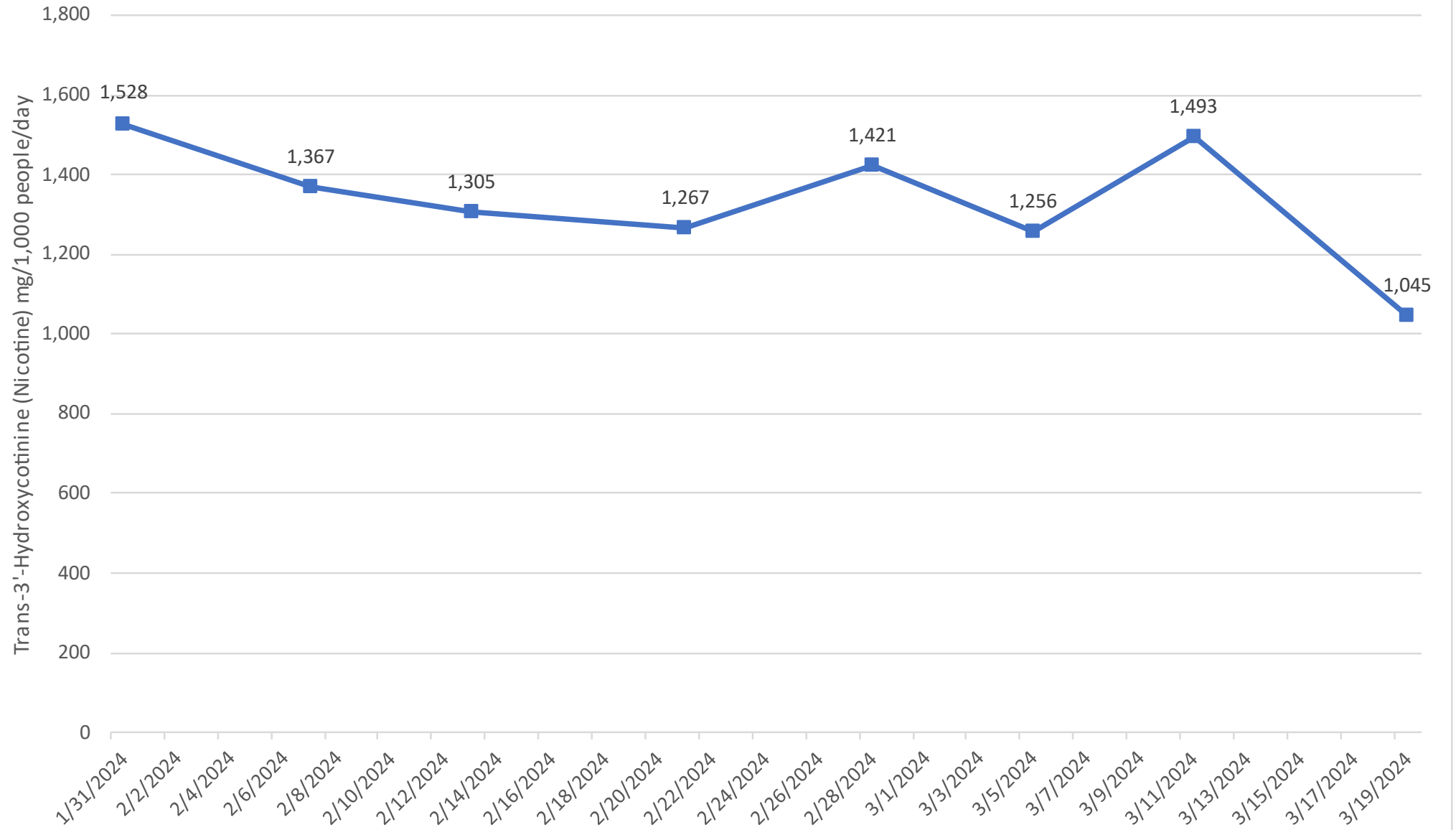


one day per
led water,
of play before
ivalent of one

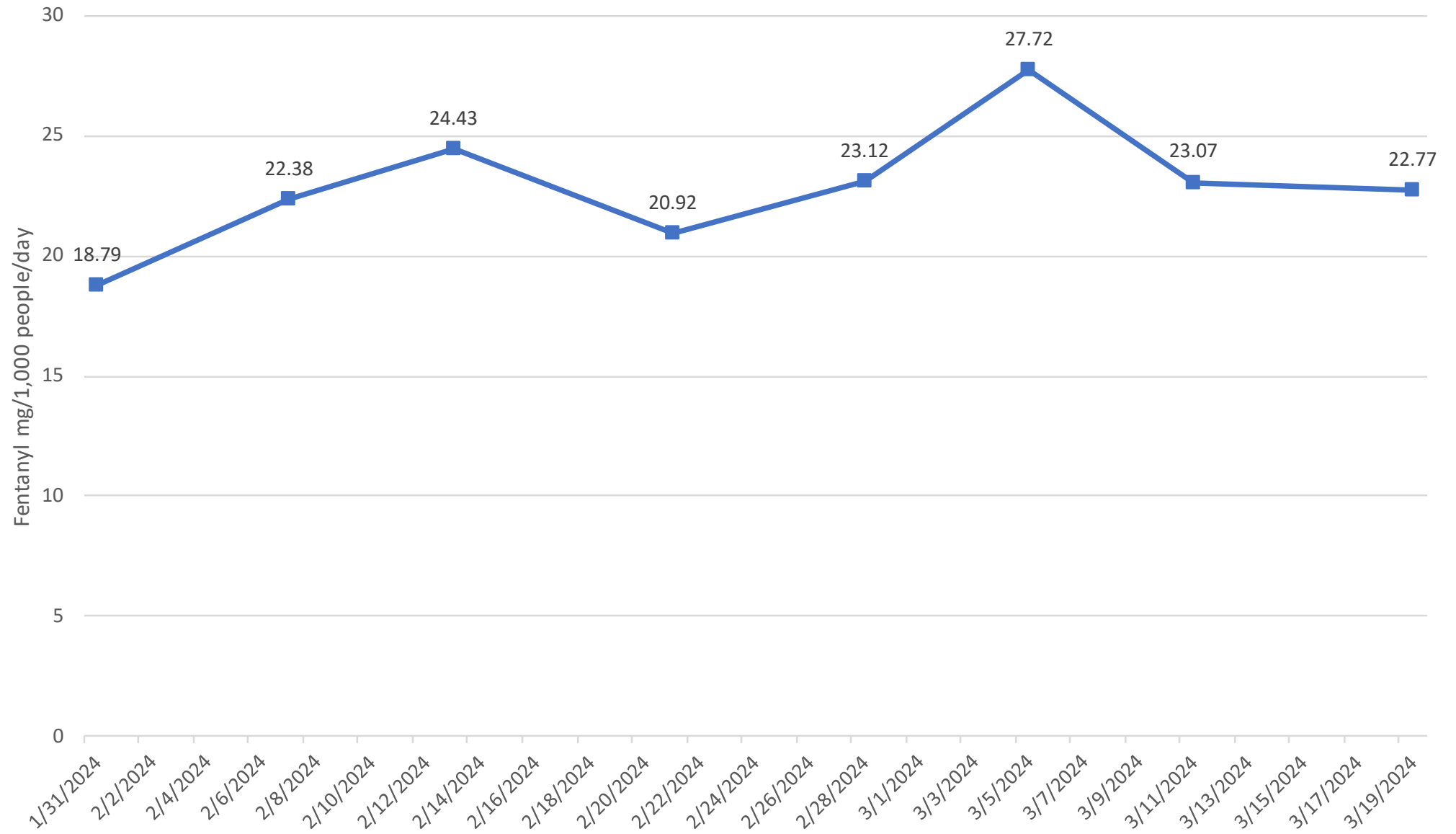
ount of caffeine
e, our child will

ights of safety
rio not only
school

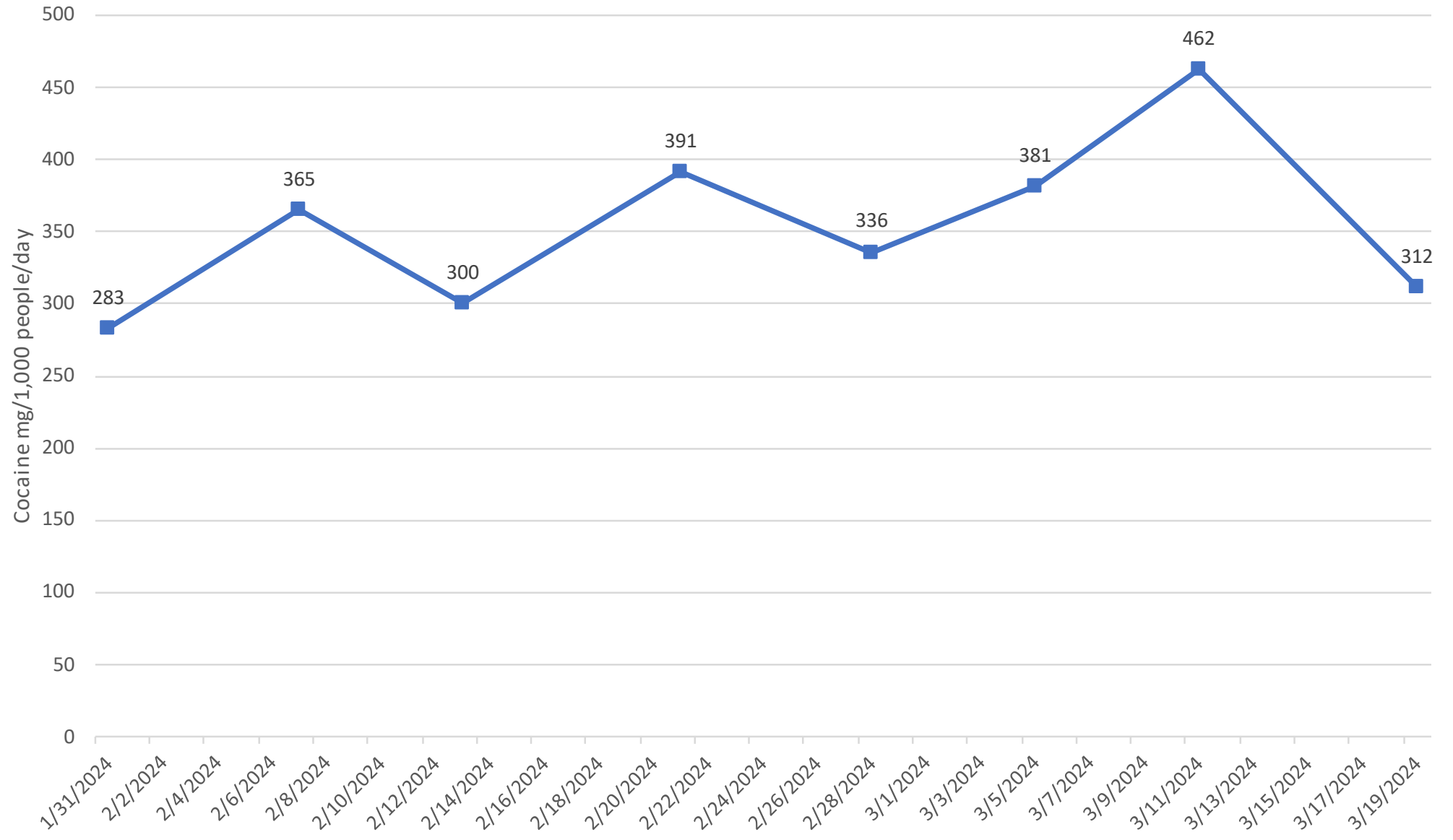
Trans-3'-Hydroxycotinine (Nicotine) Consumption Estimate



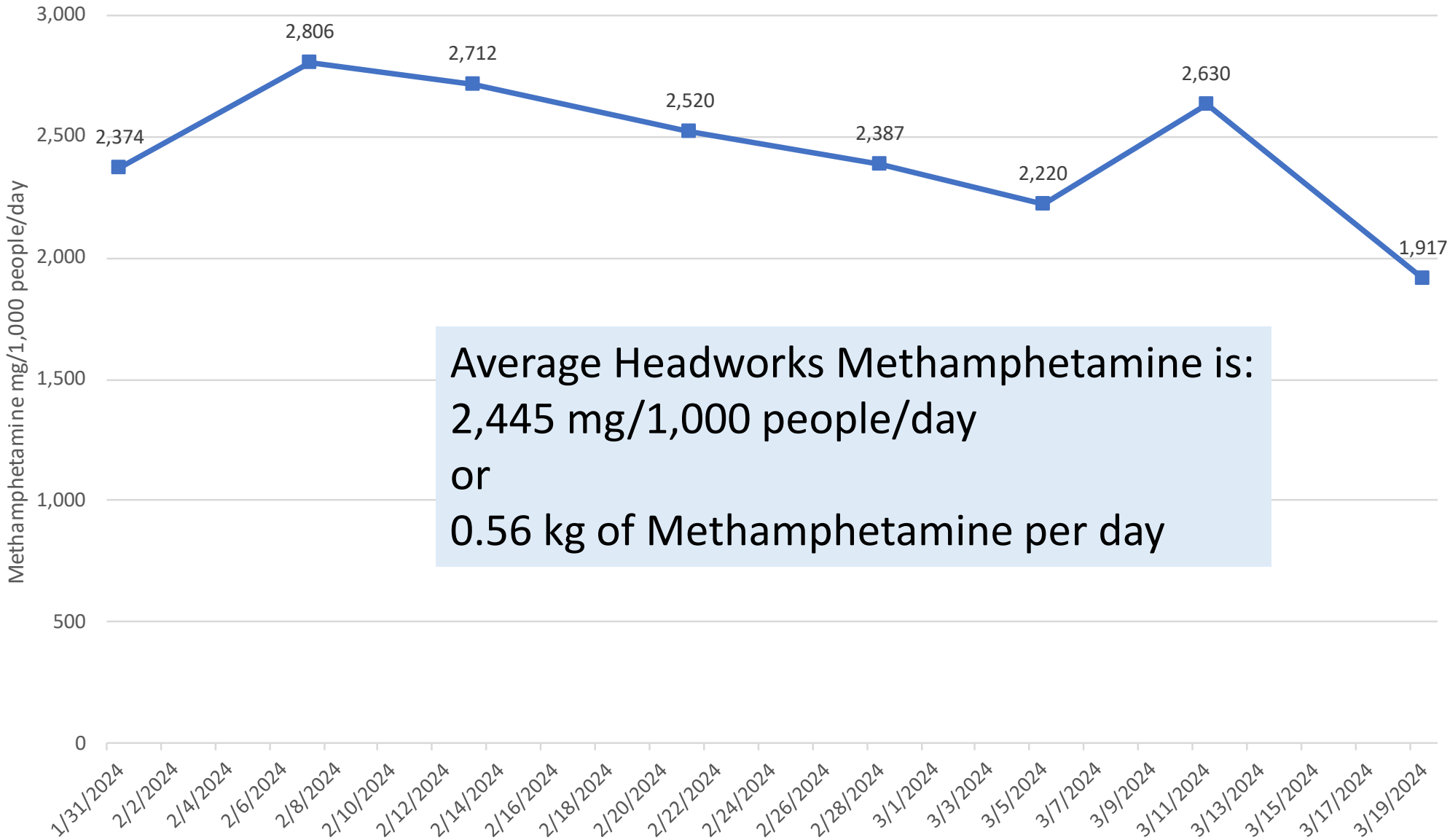
Fentanyl Consumption Estimate



Cocaine Consumption Estimate



Methamphetamine Consumption Estimate



Average Headworks Methamphetamine is:
2,445 mg/1,000 people/day
or
0.56 kg of Methamphetamine per day



Questions

