

Wastewater surveillance trend alerts

Early warning from the sampling data we already collect

Watches the weekly wastewater sampling results for the metro's five treatment plants, flags statistically unusual rises for COVID, flu and RSV, and posts a plain-language alert to the epi team's channel before the Monday briefing.

Demo entry — Harborview Metro Health District (fictional)

AT A GLANCE

Wastewater surveillance trend alerts

What it does

Turns routine sampling spreadsheets into a short alert only when a trend actually moves — no dashboard babysitting.

How it's built

A scheduled script pulls the lab exports, runs a simple changepoint test, and an LLM drafts the two-sentence alert an epidemiologist approves.

What it took

One analyst, part-time, about six weeks. No new data collection — the samples were already being taken.

Data & governance

Aggregate plant-level counts only — no case-level or personal data anywhere in the pipeline. The public state dashboard is used to corroborate trends, not fed by the tool.

Reuse it

Any jurisdiction with routine wastewater sampling can adapt the write-up; the statistical test and prompt are in the entry.