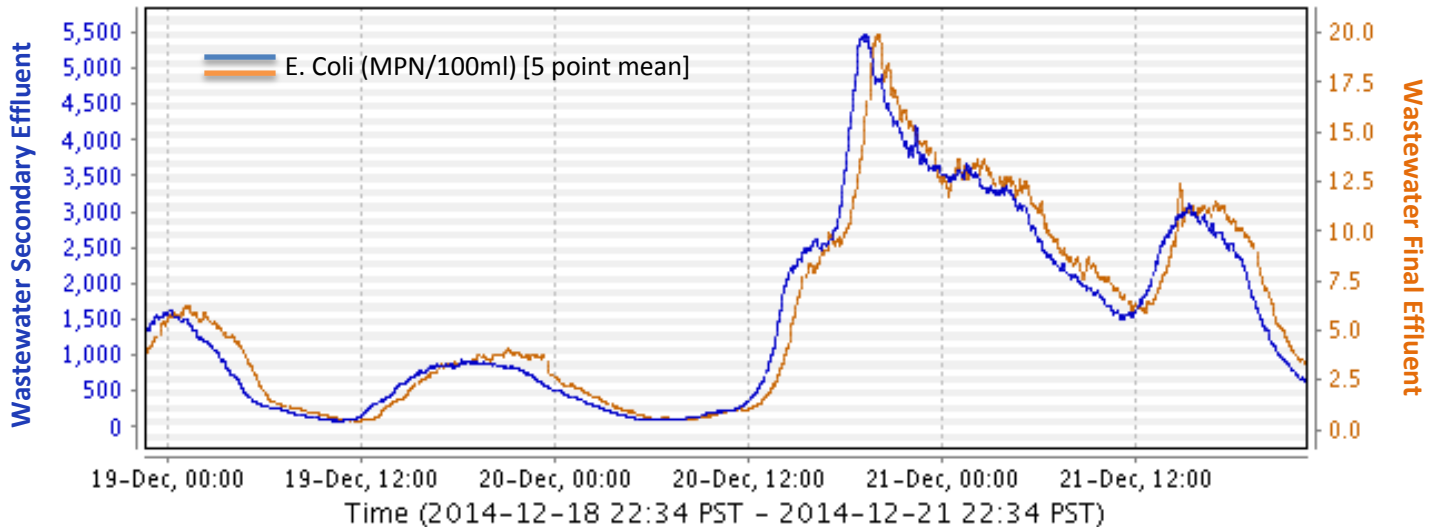


## Monitoring *E.coli* in Wastewater



## Improve Process and Save Money

The graph above shows *E. coli* concentrations just past the point of chlorine addition (**blue line**) and at the end of a small contact basin (**gold line**). Notice the short time offset (minutes) between maxima. Each 3-day data series consists of approximately 2,000 *E. coli* data points. Trends at these locations are driven by the *E. coli* content of Influent and plant processes with trends preserved through chlorination although over vastly different ranges. Differences between these monitoring points are driven by mixing and contact time. Such results offer the potential to improve the efficiency of chlorine addition and lower costs of sanitation. Savings using this monitoring process have been documented for plants with:

- Chlorine disinfection** – <http://www.zapstechnologies.com/case-study-e-coli-pacing-at-corvalis-wwtp/>
- and UV disinfection** – <http://www.zapstechnologies.com/case-study-real-time-e-coli-ultraviolet-control/>