Biobot Analytics measures opioids in city sewage to estimate consumption.

A new standard by which to assess the opioid epidemic, this data is used to inform the allocation of resources to combat this public health crisis.

We're looking to form five new partnerships with pioneer cities in 2018. If combating the opioid epidemic is a priority for your city, we'd love to explore how we can help.

How it works:

1.
Zones of focus are identified based on GIS analysis of wastewater network and demographic census data.
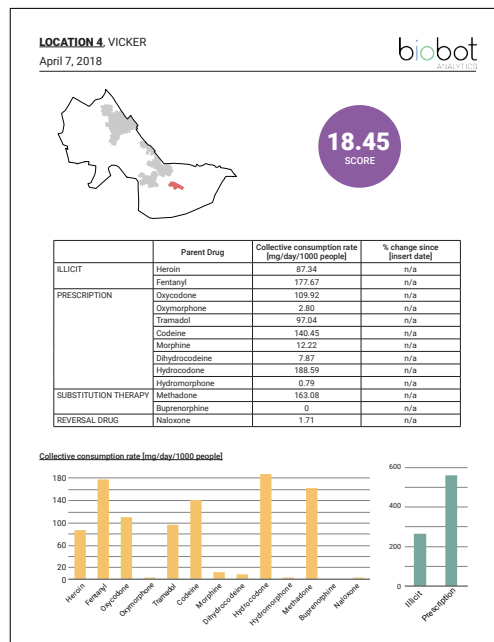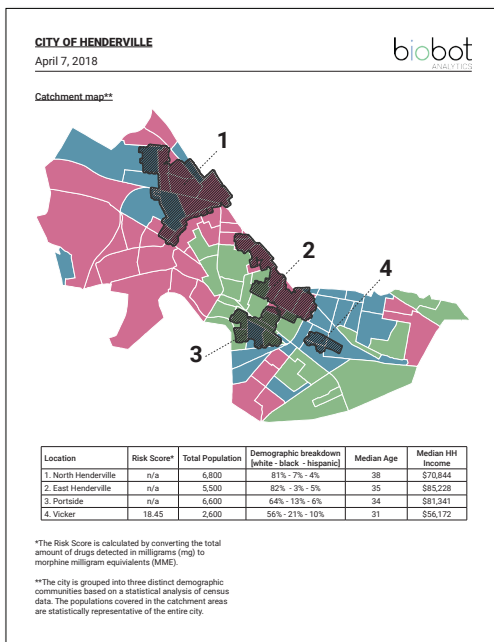
2.
Wastewater is collected with Biobot's automatic samplers and shipped to lab every 2 weeks for analysis.

3.
Chemical concentrations are reported in table and map format in an emailed Opioid Consumption Monitoring Report.

Opioid Consumption Monitoring Report:

- Measures drug consumption levels at every collection point for local assessment.
- Provides individual measurement for 13 different opioids metabolites.
- Tracks progress of interventions and compares progress with other municipalities.
- Characterizes the substances driving geographic and temporal differences.
- Investigates relation between consumption of different types of drugs in the panel.

Consumption data that is:

Representative of everyone living with opioid use disorder.

Not regulated and can be easily shared within agencies.

A single source of data for multiple drugs.

A tool for community engagement and reducing stigma.

CITY OF HENDERVILLE
April 7, 2018

Catchment map**

Location	Risk Score*	Total Population	Demographic breakdown [white - black - hispanic]	Median Age	Median HH Income
1. North Henderville	n/a	6,800	81% - 7% - 4%	38	$70,844
2. East Henderville	n/a	5,500	82% - 3% - 5%	35	$85,228
3. Portside	n/a	6,600	64% - 13% - 6%	34	$81,341
4. Vicker	18.45	2,600	56% - 21% - 10%	31	$56,172

*The Risk Score is calculated by converting the total amount of drugs detected in milligrams (mg) to morphine milligram equivalents (MME).

**The city is grouped into three distinct demographic communities based on a statistical analysis of census data. The populations covered in the catchment areas are statistically representative of the entire city.

LOCATION 4, VICKER
April 7, 2018

18.45 SCORE

	Parent Drug	Collective consumption rate [mg/day/1000 people]	% change since [insert date]
ILLICIT	Heroin	87.34	n/a
	Fentanyl	177.67	n/a
PRESCRIPTION	Oxycodone	109.92	n/a
	Oxymorphone	2.80	n/a
	Tramadol	97.04	n/a
	Codeine	140.45	n/a
	Morphine	12.22	n/a
	Dihydrocodeine	7.87	n/a
	Hydrocodone	188.59	n/a
	Hydromorphone	0.79	n/a
SUBSTITUTION THERAPY	Methadone	163.08	n/a
	Buprenorphine	0	n/a
REVERSAL DRUG	Naloxone	1.71	n/a

Collective consumption rate [mg/day/1000 people]

sample report, for demonstration purposes only