

Community Air Monitoring Program

December 9, 2021

Matt Van Vleck



CAMP Logo

HARRIS COUNTY POLLUTION CONTROL **COMMUNITY AIR MONITORING PROGRAM**

The Harris County Community Air Monitoring Program (CAMP) is designed to:

- and public health across Harris County.
- communities.
- to clean air and environmental sustainability.
- Highlight patterns and trends that may support environmental regulatory activities.

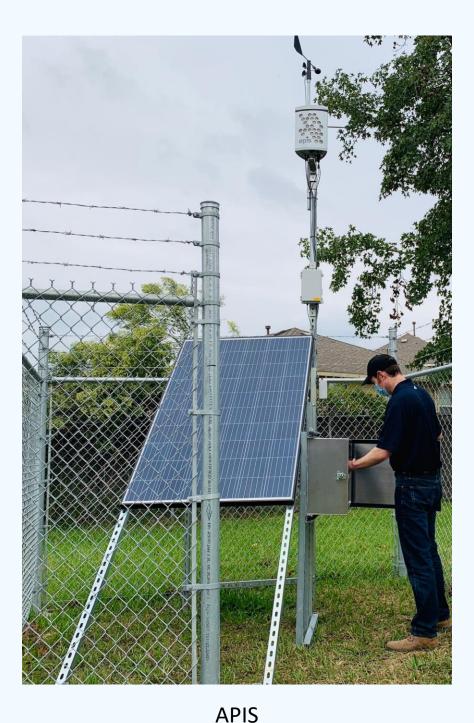
Measure pollution levels that affect environmental health

Identify emission sources that adversely impact local

Inform the public and elected officials on priorities related

Monitoring Equipment





- Two makes of monitor fielded
- Sensit SPOD, Apis Air Quality Monitoring System
- Volatile organic compounds (VOC)
- Particulate Matter (PM1, PM2.5, PM10)
- Wind Speed, Wind Direction, Temperature,
 - Humidity
- Sensit SPOD now used at all VOC/PM sites

SPOD

Sensit SPOD



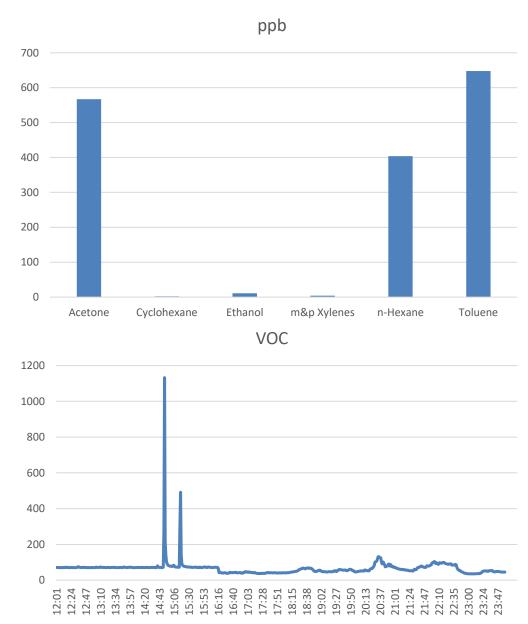
Tripod mounted in Hockley Park

Mounted to existing utility structure in Lindsay Lyons Park

Canisters



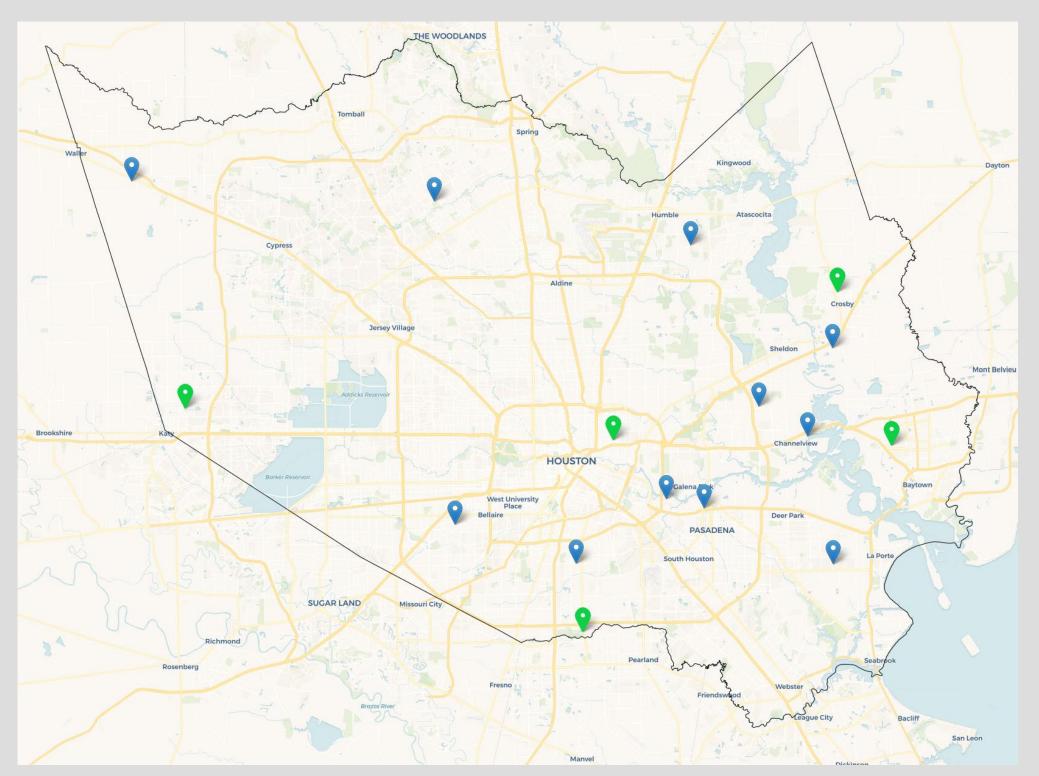
analysis.



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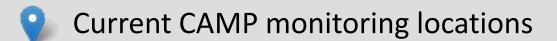
High VOC readings trigger canister samples for laboratory

CAMP Monitoring Locations



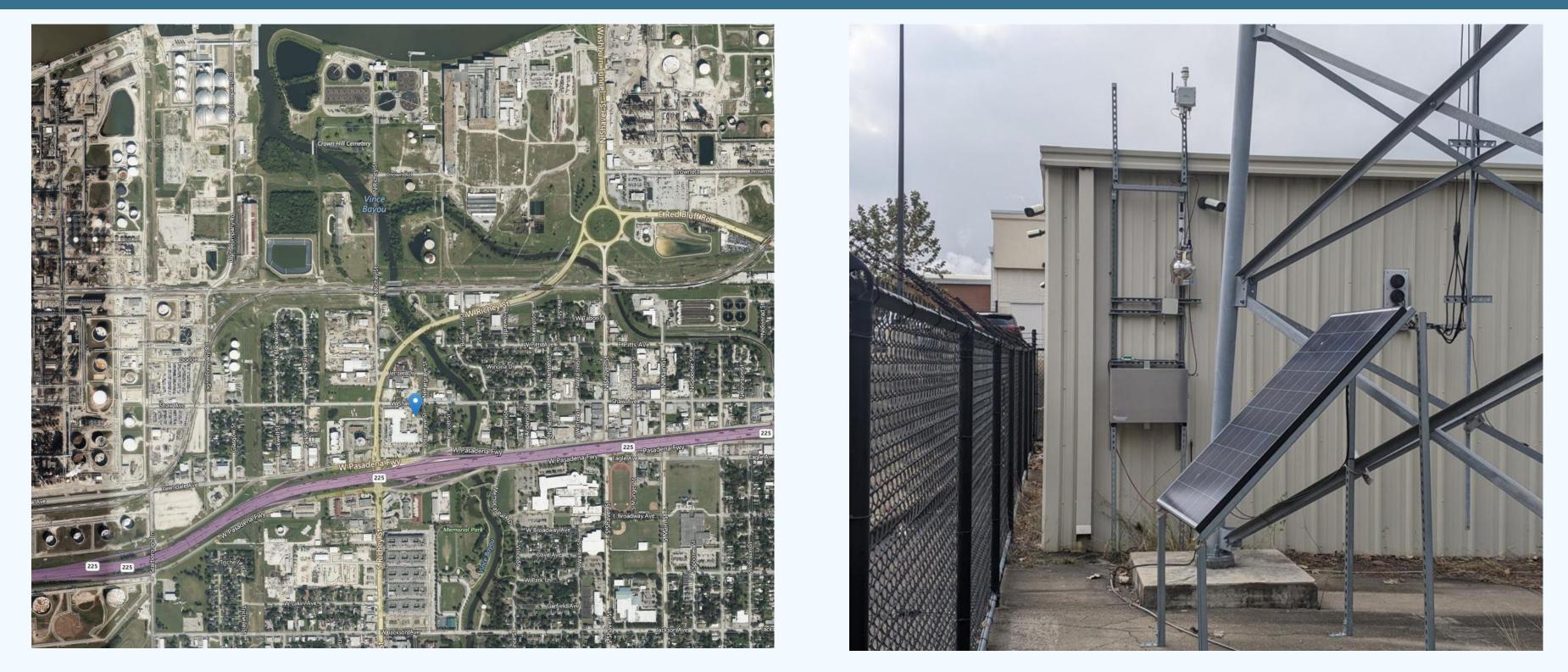
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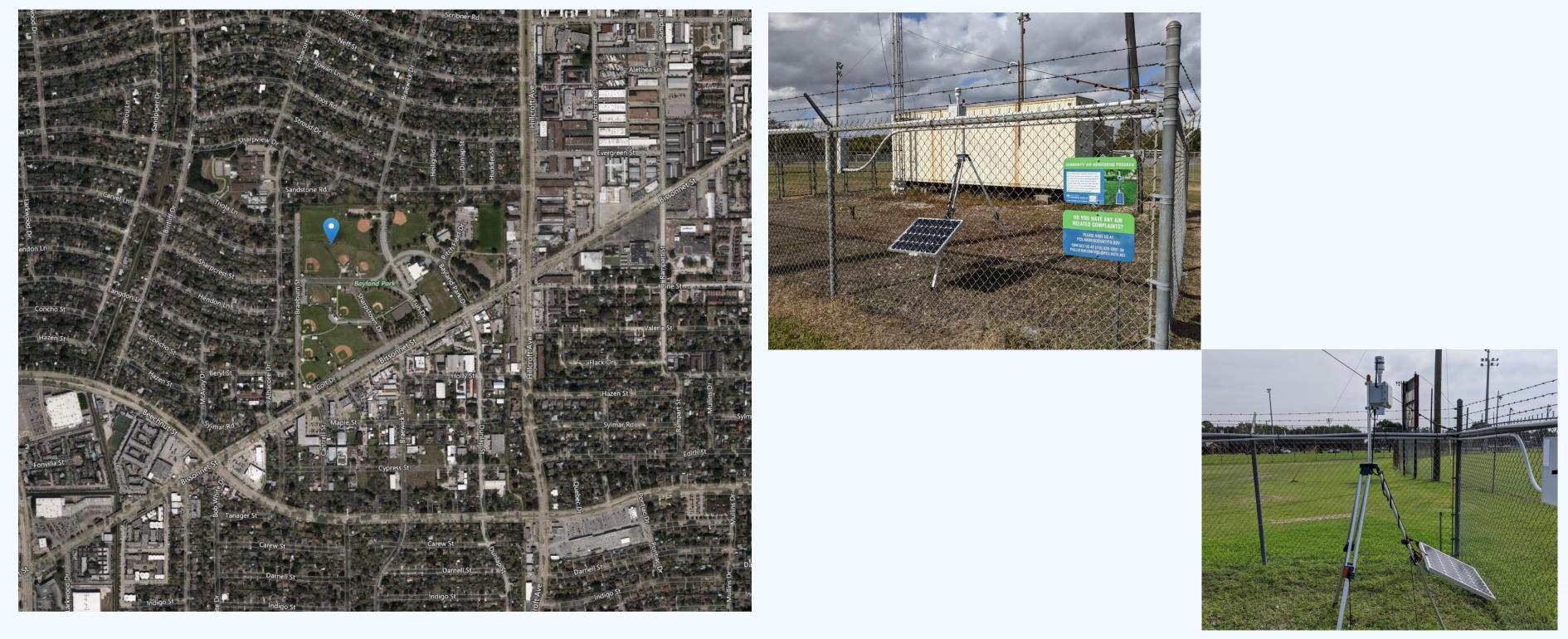
Planned CAMP monitoring locations Q1 2022

John Phelps Courthouse

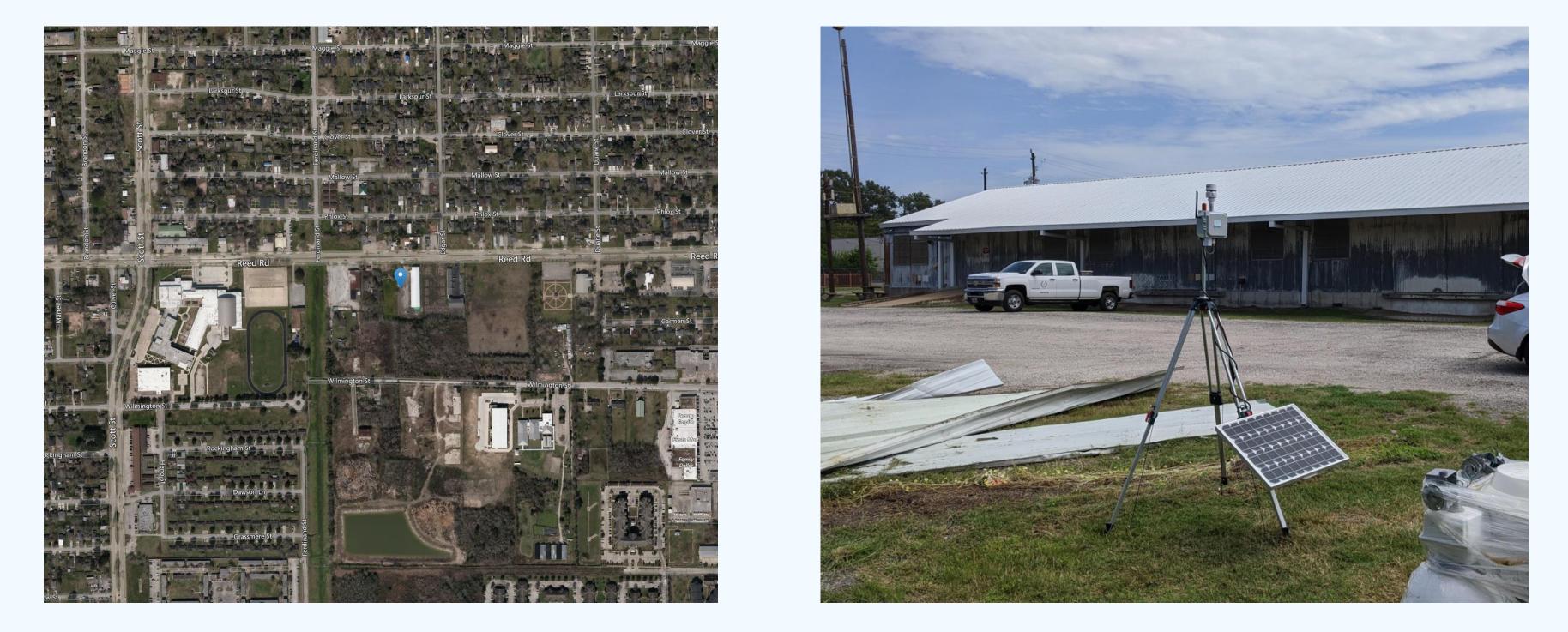


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Bayland Park



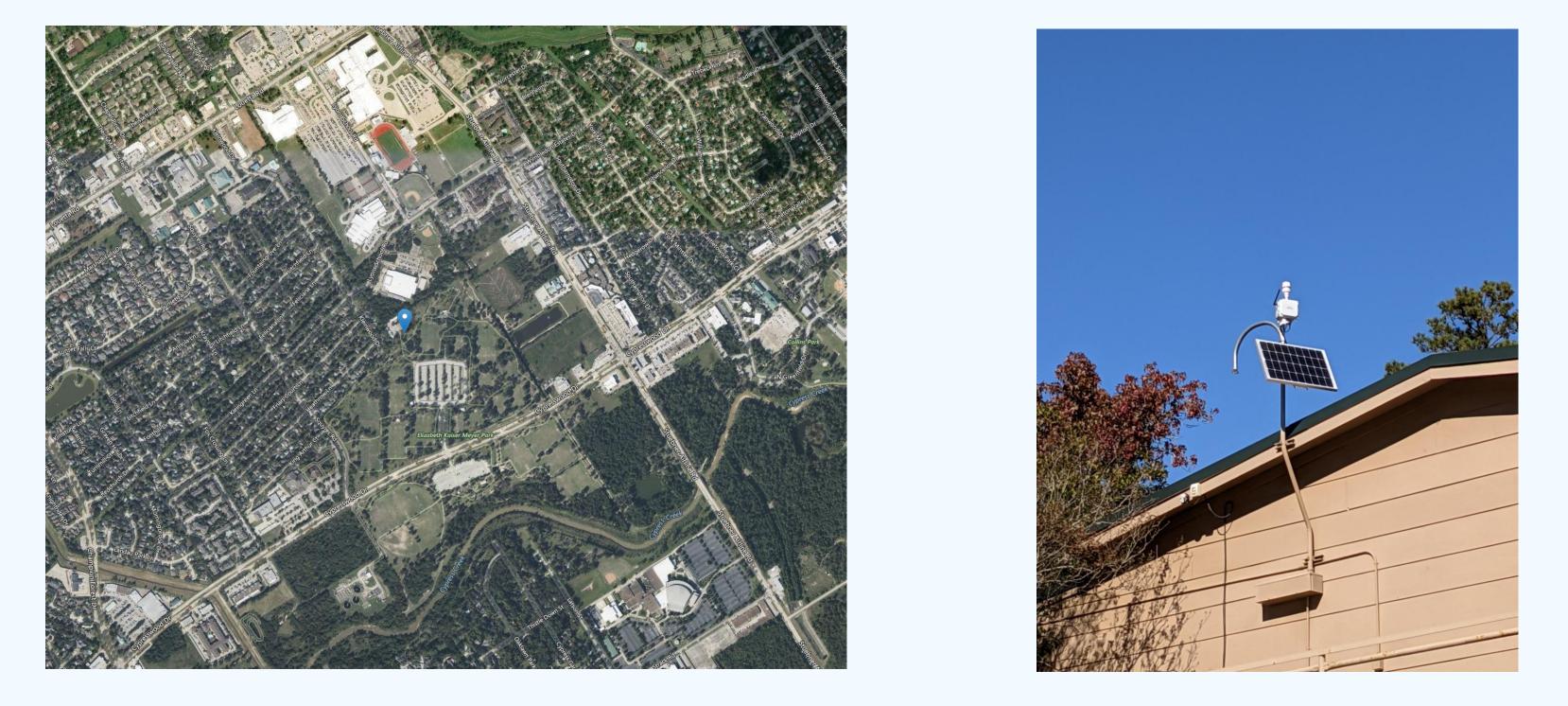
Reed Road



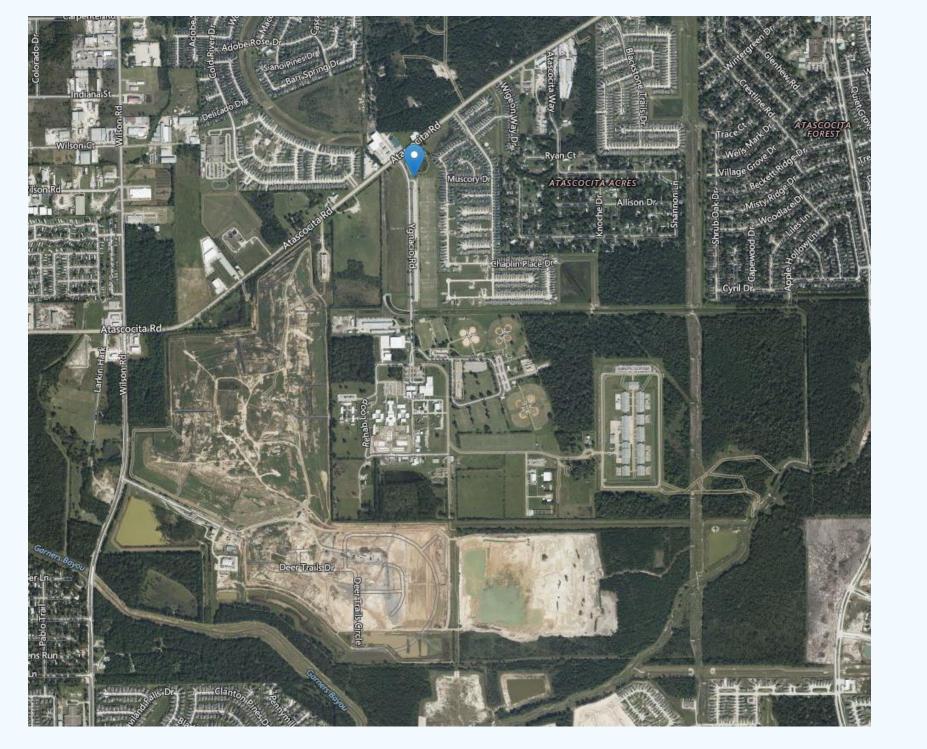
Hockley Park



Meyer Park



Lindsay Lyons Park



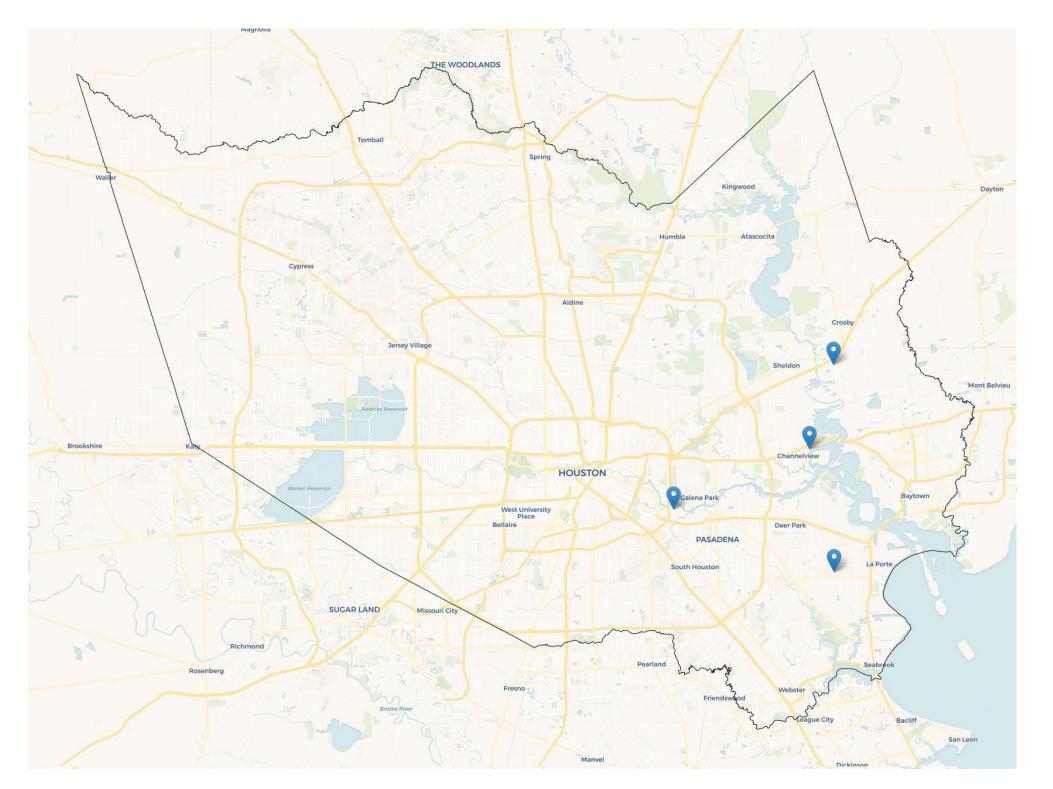


North Channel Library



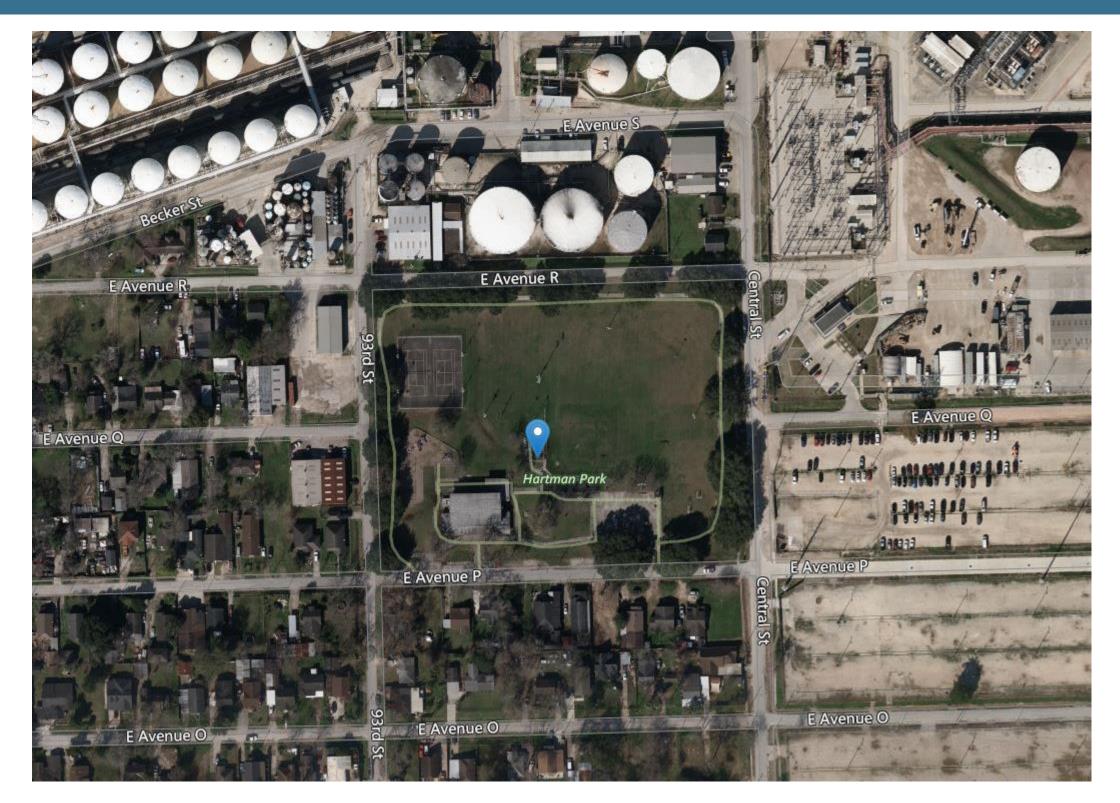


ACC Grant Funded Locations

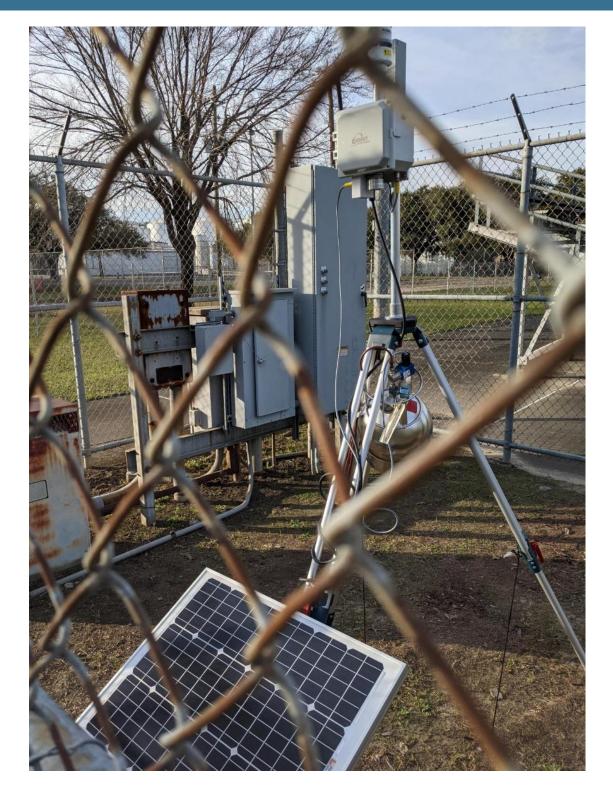


- City of La Porte Fairmont Park
- City of Houston Hartman Park and Community Center
- River Terrace Park
- Riley Chambers Park

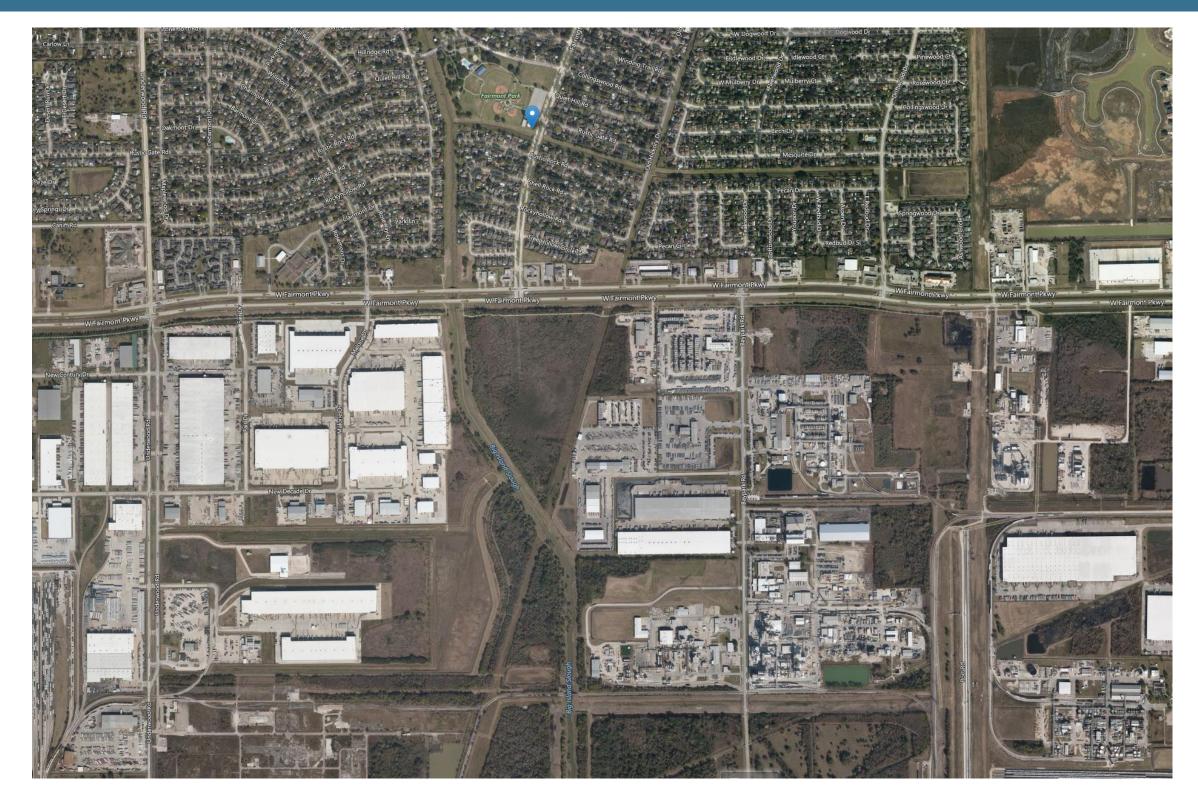
Hartman Park



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Fairmont Park



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River Terrace Park





Riley Chambers Park



PCS.HARRISCOUNTYTX.GOV



Pollution Control Services Department

The Texas Public Information Act (Texas Government Code, Chapter 552), gives you the right to access government records; the officer for public information may not ask you why you want them. All government information is presumed to be available to the public, although certain exceptions may apply. Governmental bodies shall release the requested information as promptly as possible unless the information is exempt from disclosure under the Public Information Act.

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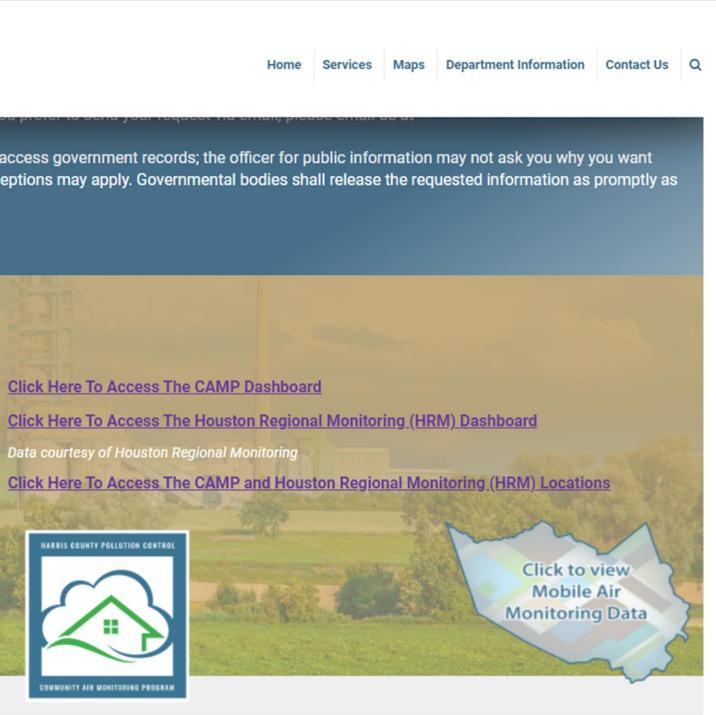
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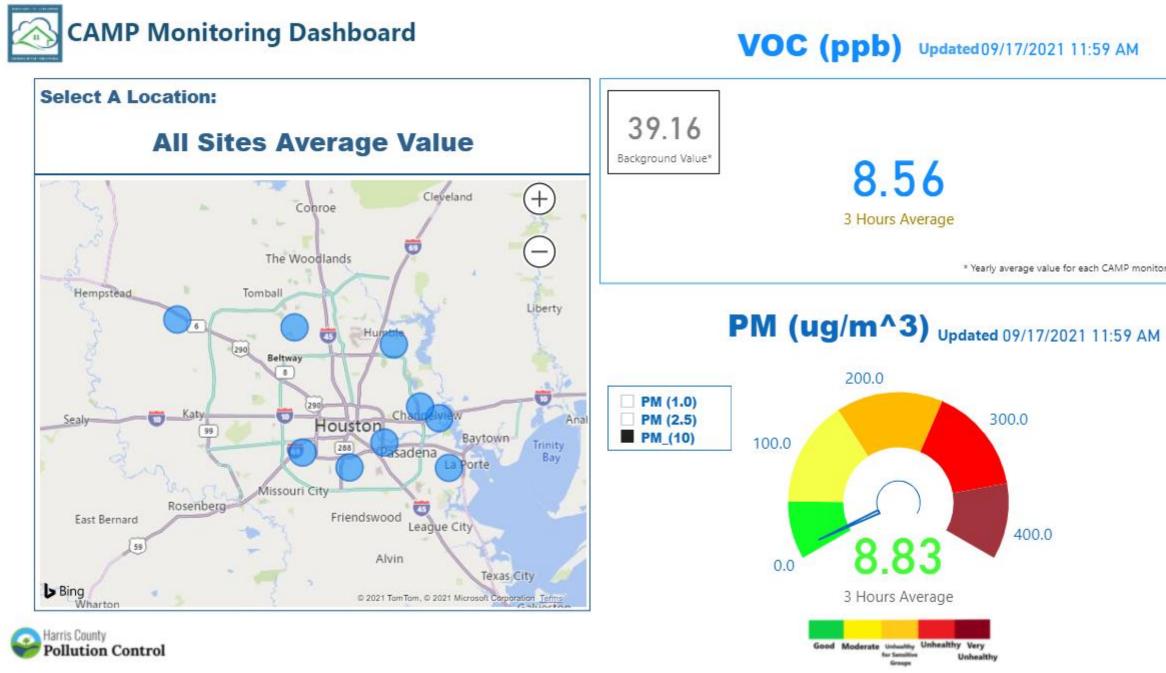
Click Here To Access The CAMP Dashboard Data courtesy of Houston Regional Monitoring







CAMP Dashboard

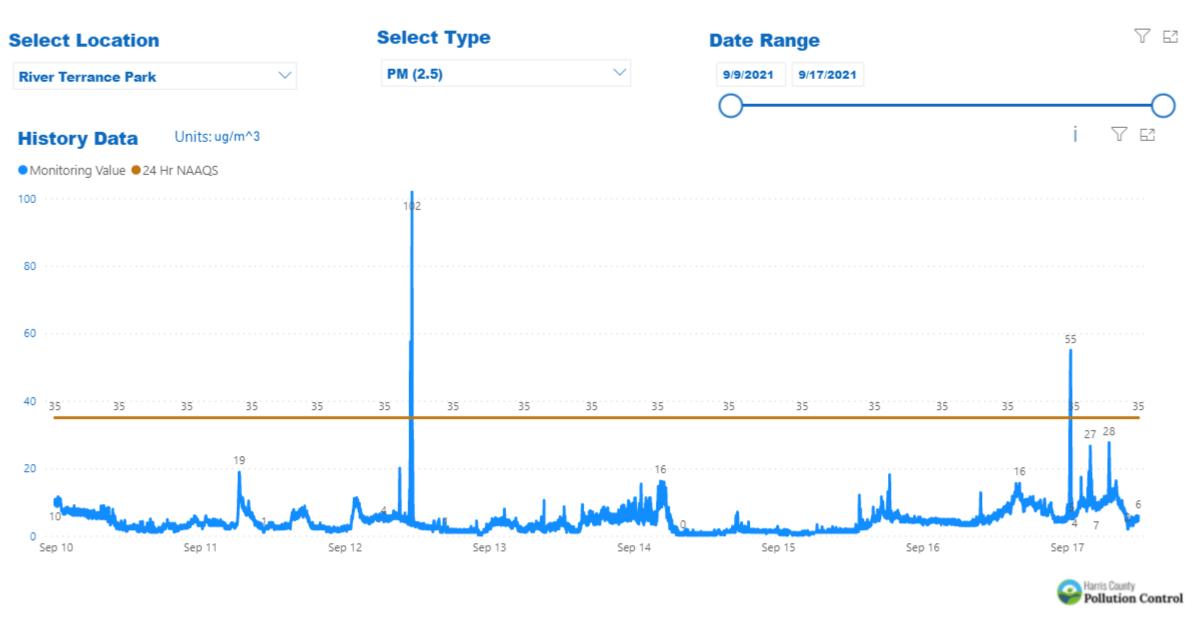


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* Yearly average value for each CAMP monitor site

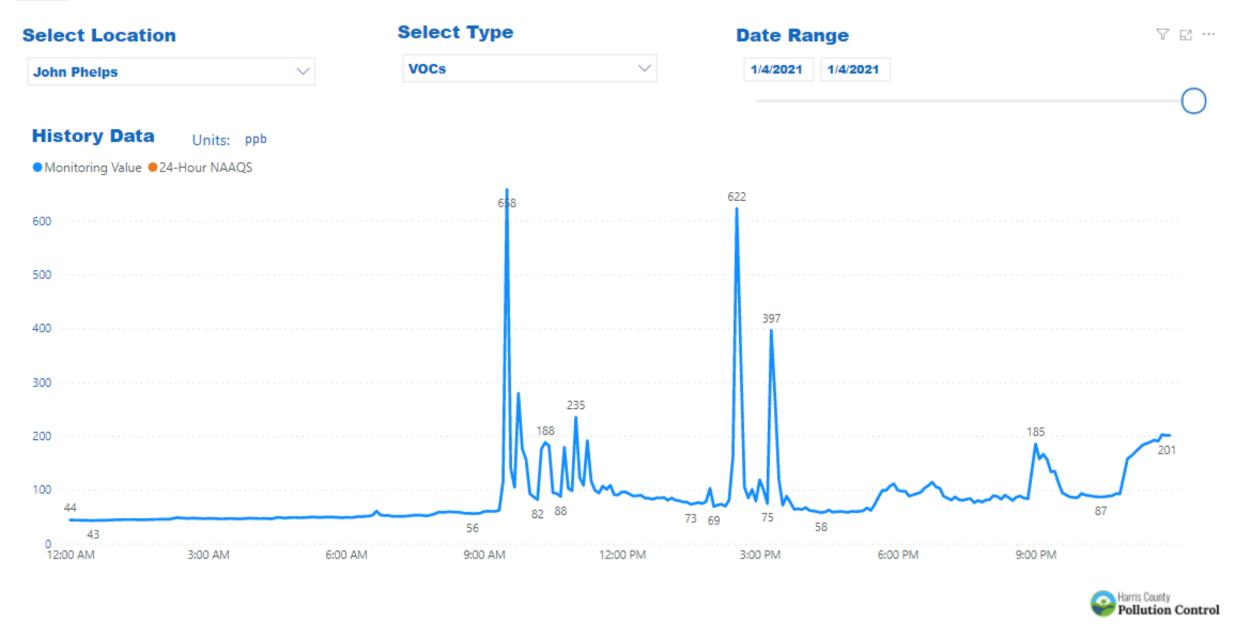
Sensor Data



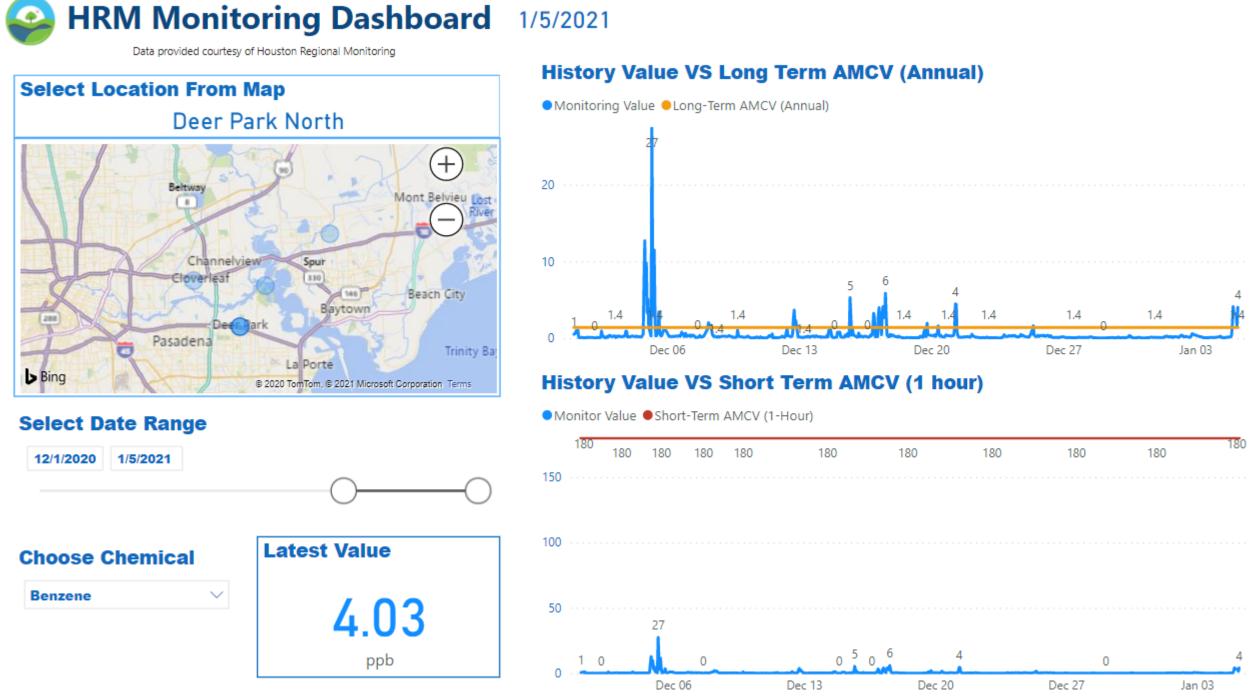


Sensor Data

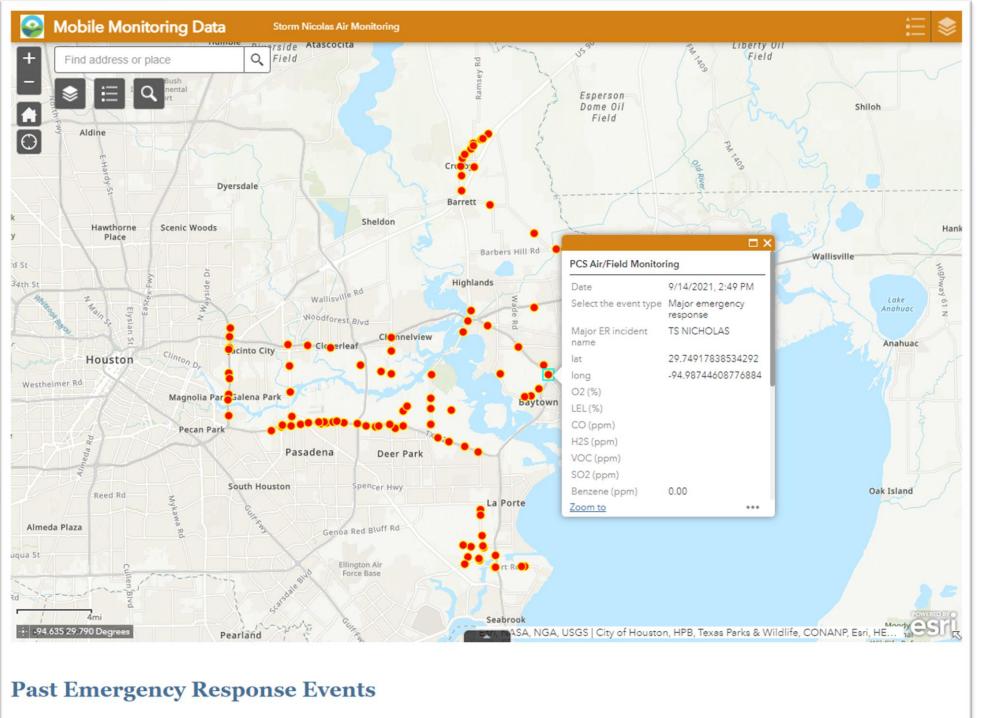




Sensor Data



CAMP Mobile Monitoring



Click here to view past emergency response events.

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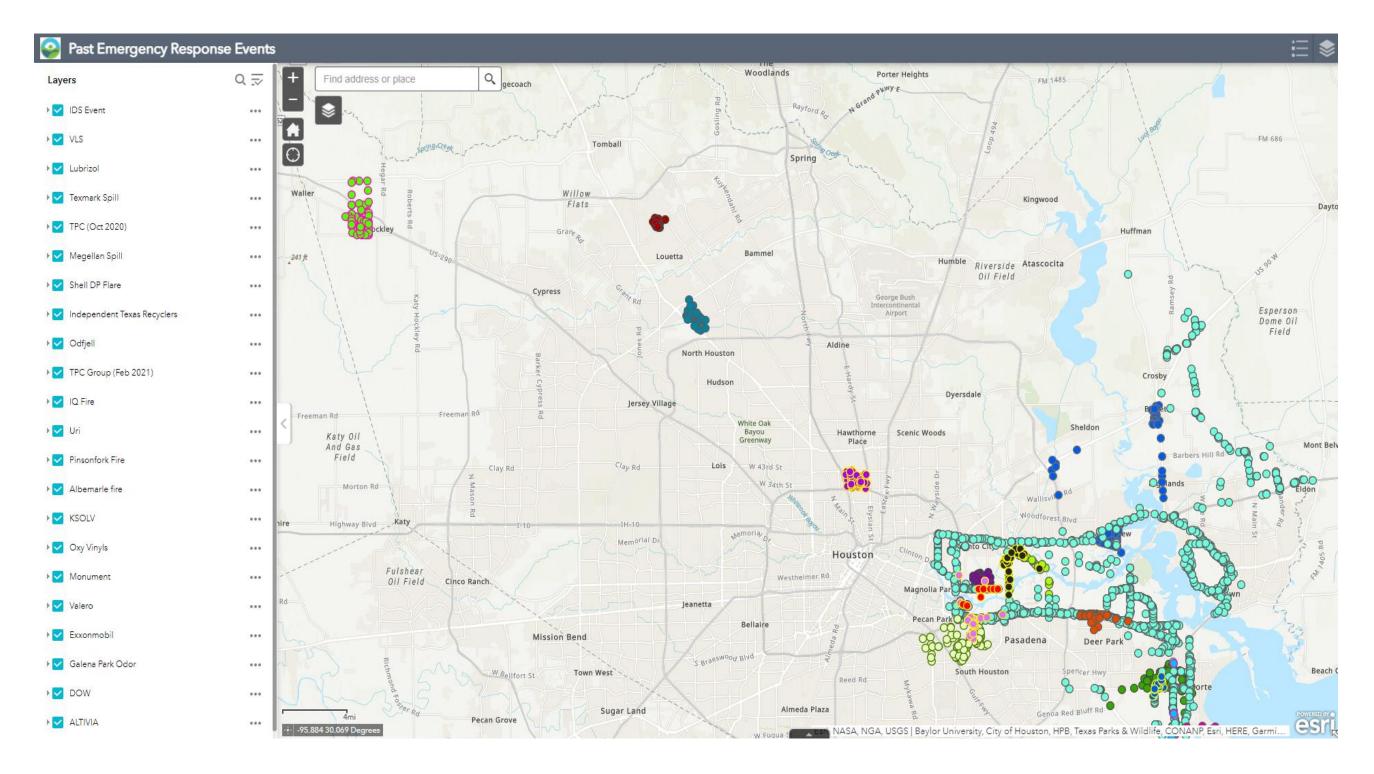


data.

• PCS Emergency Response Section collects mobile air monitoring

• The data is published in near-real time on the PCS webpage

Past Emergency Response Event Monitoring



- Filter by event on the left •
- Click on dots to view data •

Handheld and Portable Mobile Monitoring



Cerex UV Hound

Rapid identification and quantification of 18 compounds including benzene



Flir Griffin G510 GC-Mass Spec

• Rapid identification of thousands of compounds





IultiRAP



Drager X-pid

Rapid identification and quantification of 19 compounds including benzene, 1,3-butadiene, and ethylene oxide

Rapid Ambient Air Monitoring Vehicle



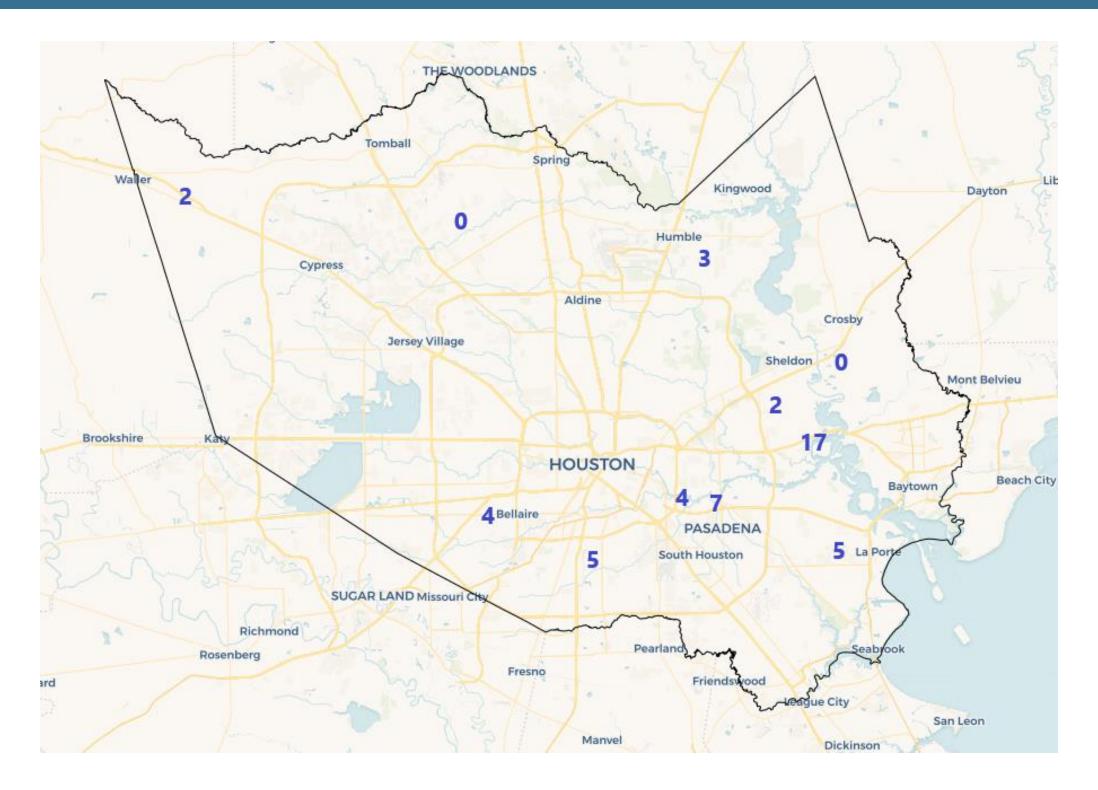
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RAAM

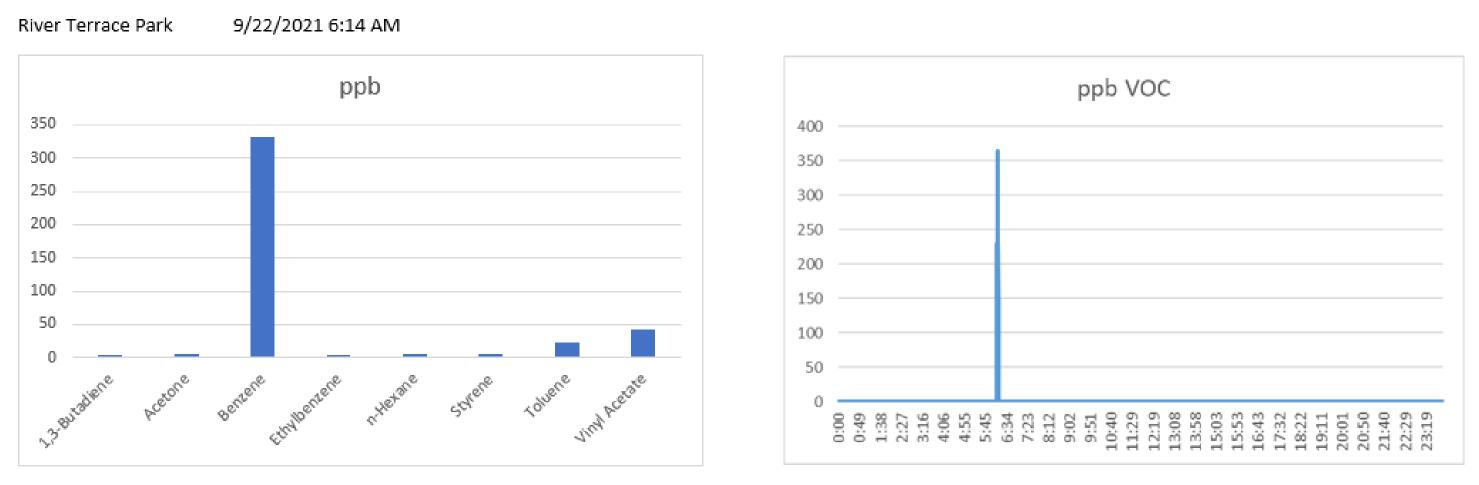
- Entanglement AROMA ●
- FLIR Griffin ullet
- Cerex UV Hound \bullet
- PM monitor

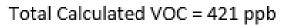
CAMP Canister Samples





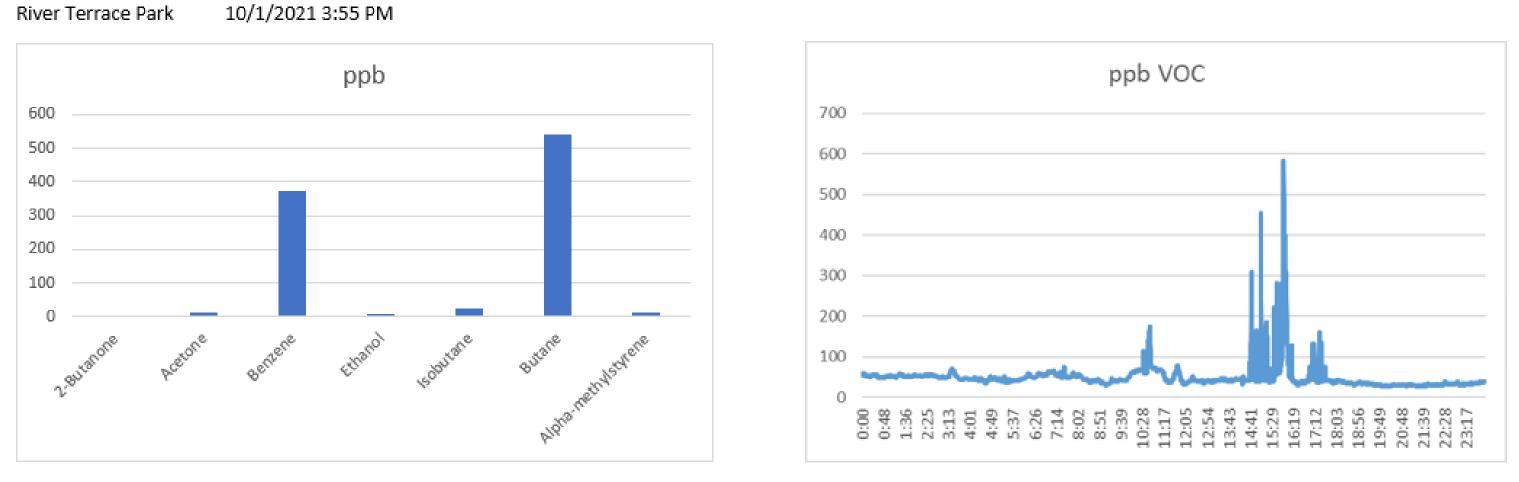
- 49 canister samples collected since \bullet August 2020
- 40 second grab sample ullet
- Triggered at 250 to 300 ppb (isobutylene)
- Typical sampling events occur during \bullet short duration peaks (<10 minutes) in VOC data
- River Terrace is most active site \bullet
- Ethanol and acetone are frequently encountered





SPOD response. Sample collected at 06:14.

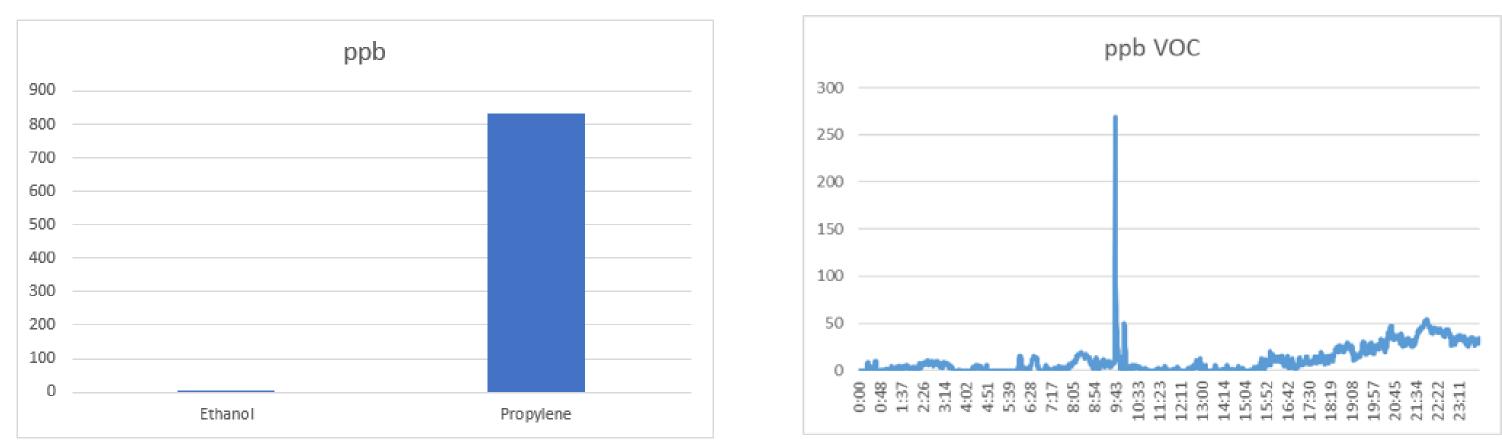




Total Calculated VOC = 976 ppb

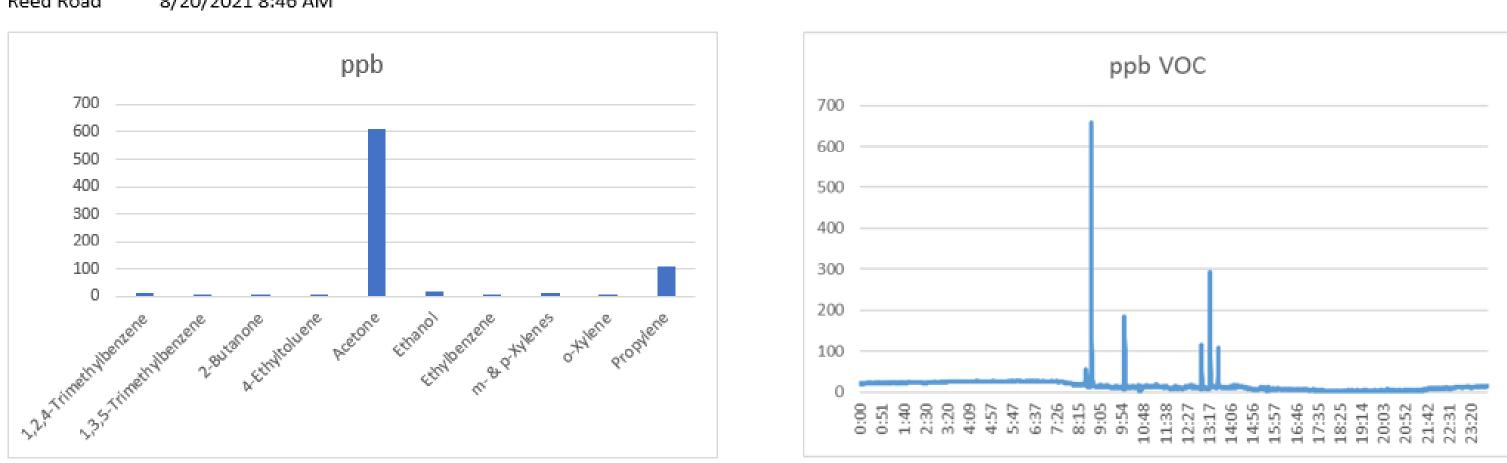


Fairmont Park 9/29/2021 9:41 AM



Total Calculated VOC = 837 ppb

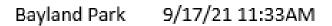
SPOD response. Sample collected at 09:41.

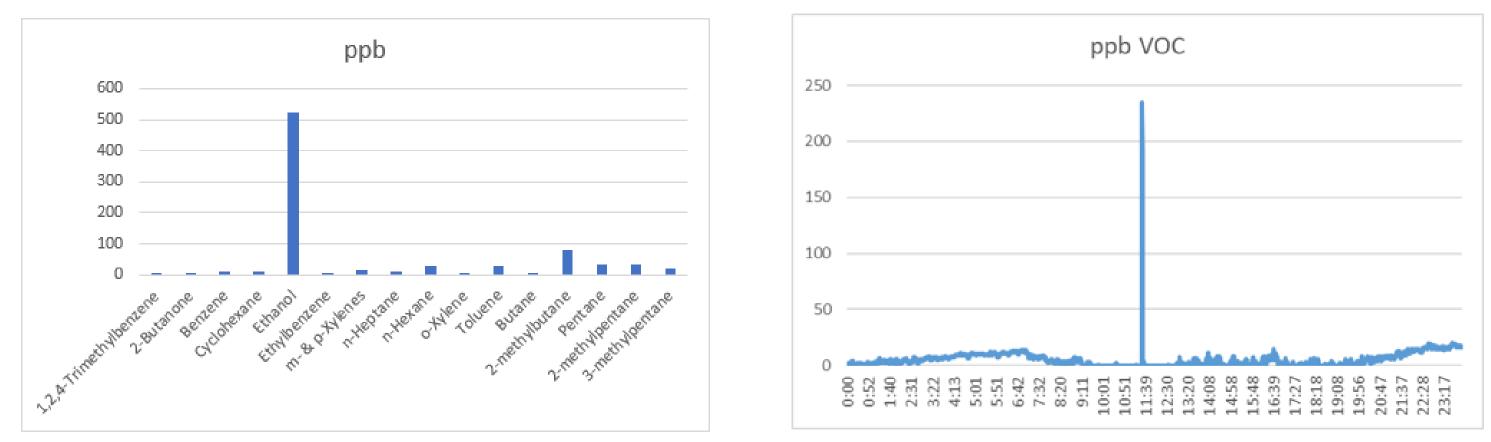


8/20/2021 8:46 AM Reed Road

Total Calculated VOC = 782 ppb

SPOD response. Sample collected at 08:46.





Total Calculated VOC = 816 ppb

SPOD response. Sample collected at 11:33.

OUR NEW COMPLAINT FORM IS NOW LIVE!

QUESTIONS? COMMENTS?

LET US KNOW!

ADDRESS

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Harris County Pollution Control Services Department

