



Deck Plate Home Inspections

*2139 Daisy Rd
Woodbine, MD 21797
4435365005*

123 Main St Anywhere, MD

Detached Multi-Level Home



Powered by Digital Environment

Property Summary report for: 123 Main St Anywhere, MD



Detached Multi-Level Home

Owner: Daniel Doyle (deckplatehomeinspections@gmail.com)

Creator: Daniel Doyle (deckplatehomeinspections@gmail.com)

Sensors: Forms via Android/iOS, GPS via Android/iOS, Images via Android/iOS, Notes via Android/iOS, Pocket Particle AQI 2.0, BLE

Pocket Particle 2.0

Room	# of Meas. collected	PM2.5 Min ($\mu\text{g}/\text{m}^3$)	PM2.5 Average ($\mu\text{g}/\text{m}^3$)	PM2.5 Max ($\mu\text{g}/\text{m}^3$)	PM10 Min ($\mu\text{g}/\text{m}^3$)	PM10 Average ($\mu\text{g}/\text{m}^3$)	PM10 Max ($\mu\text{g}/\text{m}^3$)
Basement	35	18.0	20.8	24.2	15.0	16.6	17.2
Living Room	35	16.0	17.5	19.4	14.0	15.6	17.0
Exterior	35	21.0	22.6	26.0	17.0	20.5	22.2

Room	# of Meas. collected	VOC Min (ppb)	VOC Average (ppb)	VOC Max (ppb)	eCO2 Min (ppm)	eCO2 Average (ppm)	eCO2 Max (ppm)
Basement	35	24.6	30.4	44.2	563.6	602.5	693.6
Living Room	35	13.4	17.0	25.2	488.4	514.8	568.2
Exterior	35	0.0	5.0	14.0	400.0	436.2	495.2

Rooms Without Relevant Data

Room	Description	Last Updated
Office	1st Floor	8/09/2020 7:33 pm EDT

Pocket Particle AQI 2.0, BLE

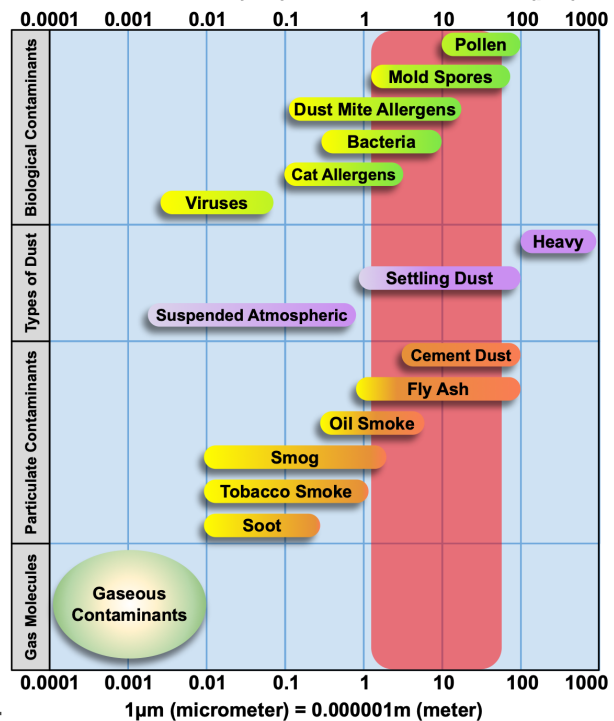
WHAT DOES THE AIR QUALITY SURVEY DATA MEAN?

PM2.5 & PM10 - Particulate Matter:

Reductions in airborne particulate matter have been shown to have a wide range of positive effects¹. The toxicity of particulate matter depends on the type of particulate matter, but elevated particulate levels of all types have been associated with adverse health effects.

PM2.5/10 ($\mu\text{g}/\text{m}^3$)	LEVEL ²	MEANING
0 - 50	Good	Air quality is considered satisfactory air pollution poses little or no risk
50 - 100	Moderate	Air quality is acceptable
100 - 150	Unhealthy for Sensitive Groups	Members of sensitive groups may experience health effects
150 - 200	Unhealthy	Everyone may begin to experience health effects
200 - 300	Very Unhealthy	Health Alert: Everyone may experience more serious health effects
300 - 500	HAZARDOUS	Health Warning: Emergency conditions

Particulate Matter (PM) Sizes - micrometers (μm)⁶



eTVOC - Equivalent Total Volatile Organic Compound:

Total VOC concentration represents all VOCs in the air. Some types of VOCs like formaldehyde are very dangerous and should be monitored at lower levels. Below is guidance published by the German Federal Environmental Agency that allows for direct comparison to the assessment data readings.

eTVOC (ppb)	LEVEL	EXPOSURE LIMIT	RECOMMENDATIONS ³
0 - 65	Background	No Limit	No action required
65 - 220	Normal	No Limit	Ventilation recommended
220 - 660	Elevated	< 12 Months	Ventilation recommended, look for sources
660 - 2,200	High	< 1 Month	Intensified ventilation, look for sources
> 2,200	Dangerous	Hours	Should be avoided, intense ventilation

eCO₂ - Carbon Dioxide Equivalent:

Elevated levels of carbon dioxide can cause headache and fatigue, while very high concentrations can cause dizziness, nausea, and vomiting. Extremely high levels can cause loss of consciousness and even death.

eCO ₂ (ppm)	LEVEL	HEALTH EFFECTS ⁴⁻⁵
250 - 350	Background	Normal level for outdoor air
350 - 1,000	Normal	Typical concentrations found in indoor air
1,000 - 2,000	Elevated	Symptoms will begin to develop, starting with drowsiness
2,000 - 5,000	High	Headaches, sleepiness, poor concentration, increased heart rate and slight nausea
> 5,000	Dangerous	Dizziness, fatigue, nausea, vomiting, loss of consciousness and death

¹ Fisk, W.J. (2013). Health benefits of particle filtration. *Indoor Air*, 23(5), 357-368. doi:10.1111/ina. 12036

² <https://www.airnow.gov/index.cfm?action=aqibasics.aqi#good>

³ <http://www.innenraumanalytik.at/pdfs/handreichung.pdf>

⁴ <https://www.dhs.wisconsin.gov/chemical/carbondioxide.htm>

⁵ <https://ohsonline.com/articles/2016/04/01/carbon-dioxide-detection-and-indoor-air-quality-control.aspx?m=1>

⁶ <https://www.medical-reference.net/2014/01/what-are-particulate-matter-25.html>

Room Summary report for: Basement

lower level

Participants: Daniel Doyle

Sensors: Pocket Particle 2.0

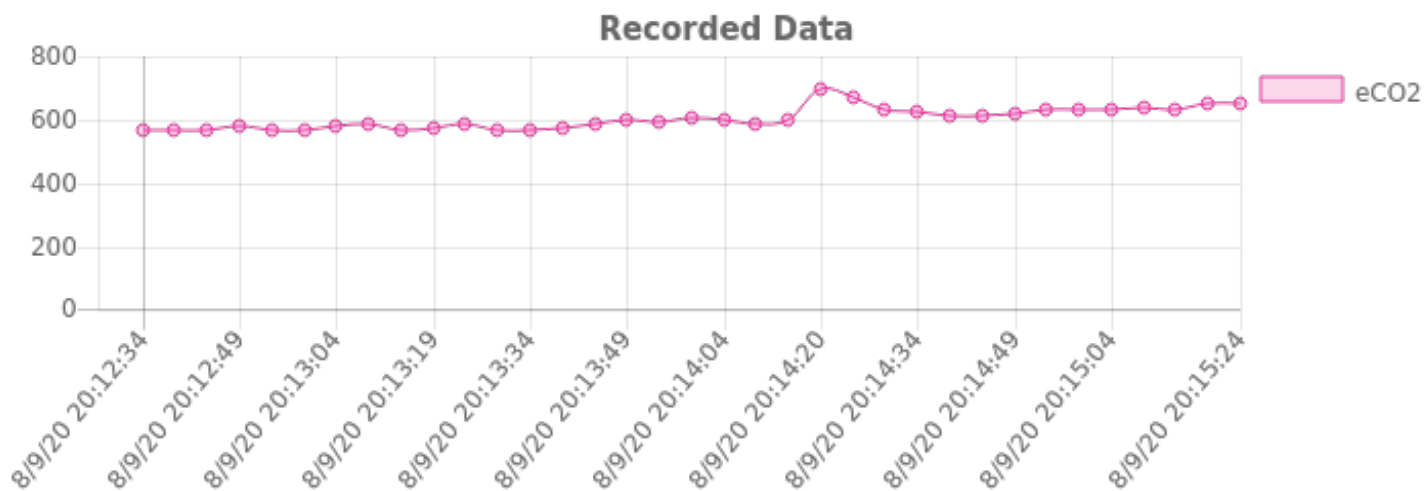
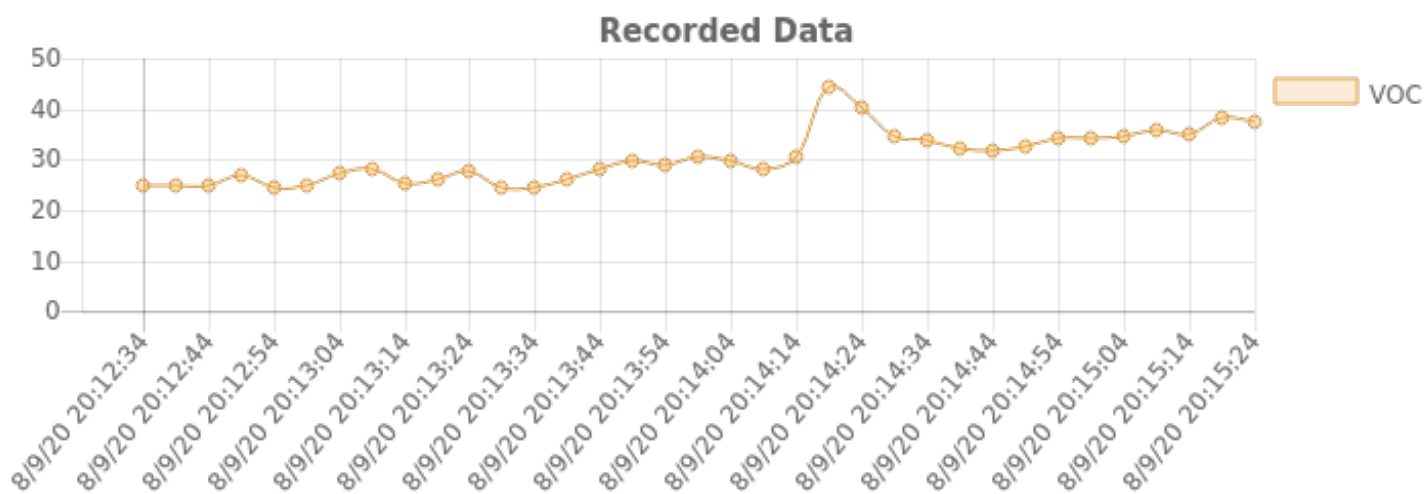
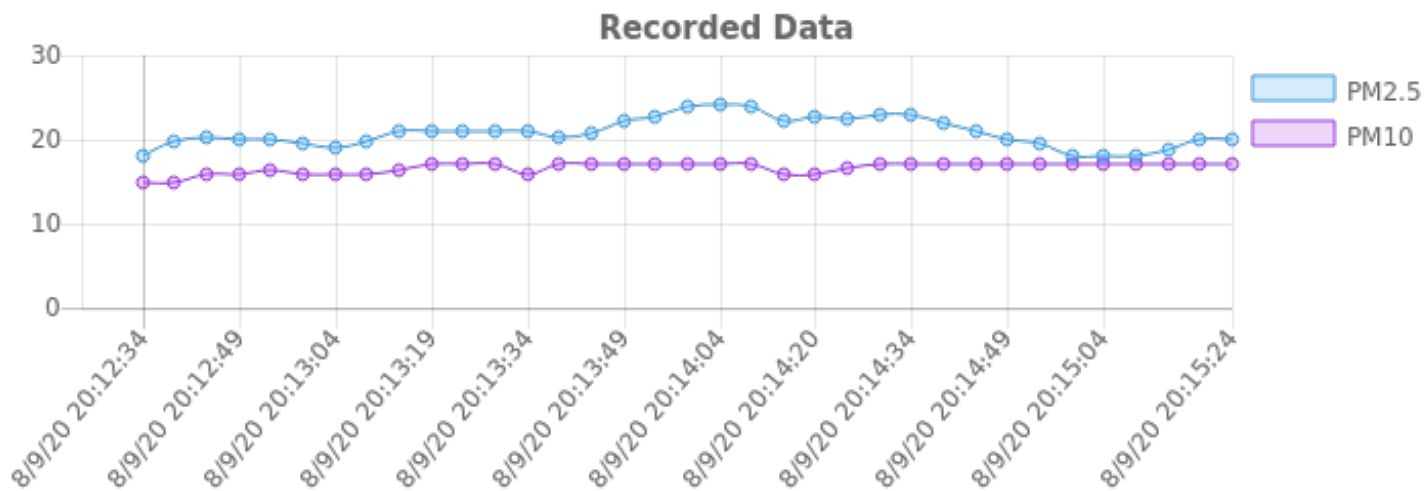
Last Updated: 8/09/2020 7:48 pm EDT

Location: 39.31273101, -77.06091953



Pocket Particle 2.0

PM2.5 Average		PM10 Average		VOC Average		eCO2 Average	
20.8 ($\mu\text{g}/\text{m}^3$)		16.6 ($\mu\text{g}/\text{m}^3$)		30.4 (ppb)		602.5 (ppm)	
Min	Max	Min	Max	Min	Max	Min	Max
18.0	24.2	15.0	17.2	24.6	44.2	563.6	693.6
($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ppb)	(ppb)	(ppm)	(ppm)



Room Summary report for: Living Room

1st Floor

Participants: Daniel Doyle

Sensors: Pocket Particle 2.0

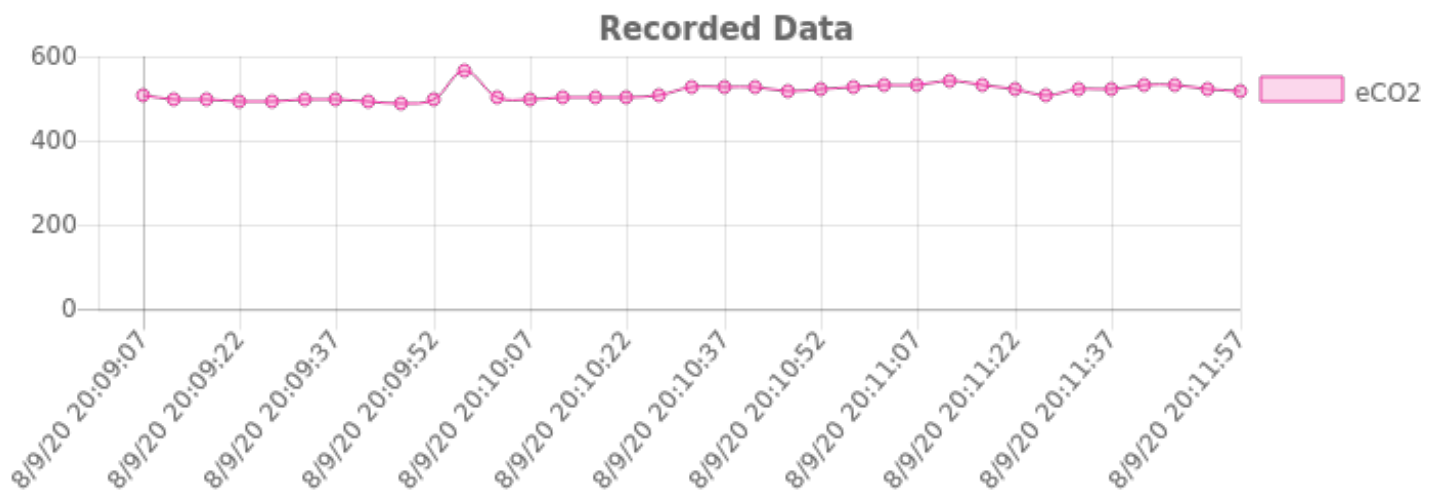
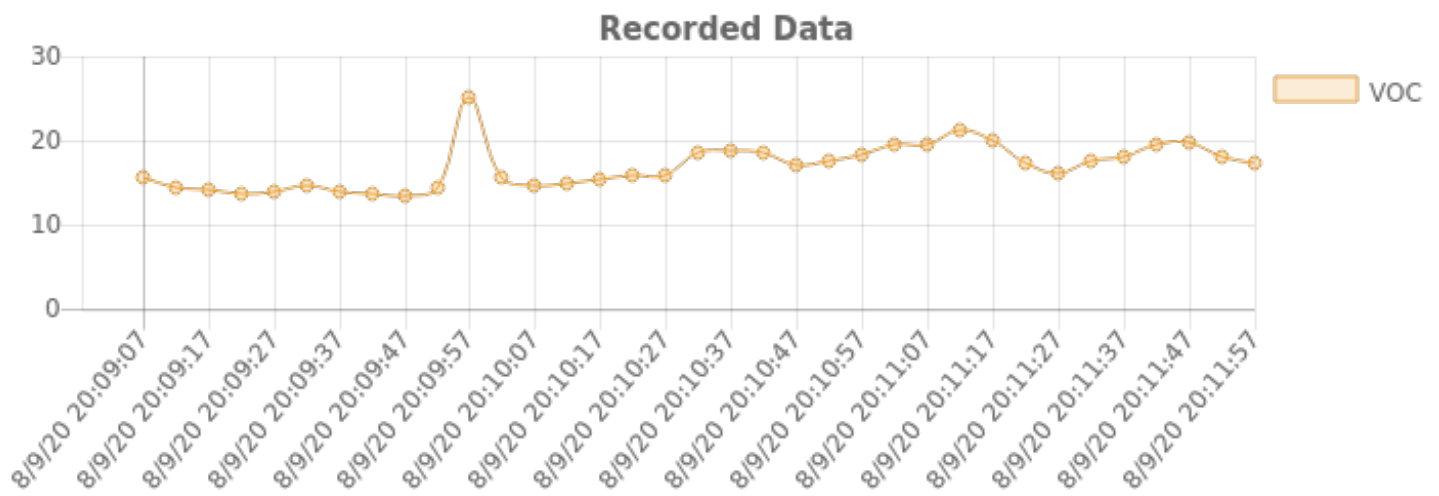
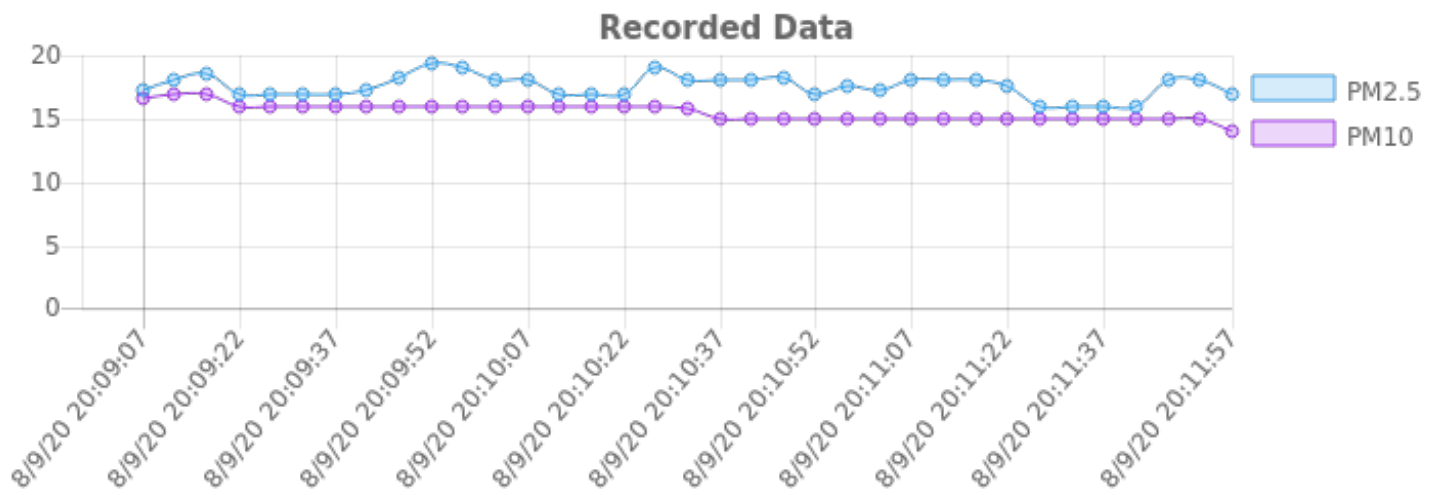
Last Updated: 8/09/2020 7:38 pm EDT

Location: 39.31307787, -77.06078834



Pocket Particle 2.0

PM2.5 Average		PM10 Average		VOC Average		eCO2 Average	
17.5 ($\mu\text{g}/\text{m}^3$)		15.6 ($\mu\text{g}/\text{m}^3$)		17.0 (ppb)		514.8 (ppm)	
Min	Max	Min	Max	Min	Max	Min	Max
16.0	19.4	14.0	17.0	13.4	25.2	488.4	568.2
($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ppb)	(ppb)	(ppm)	(ppm)



Room Summary report for: Exterior

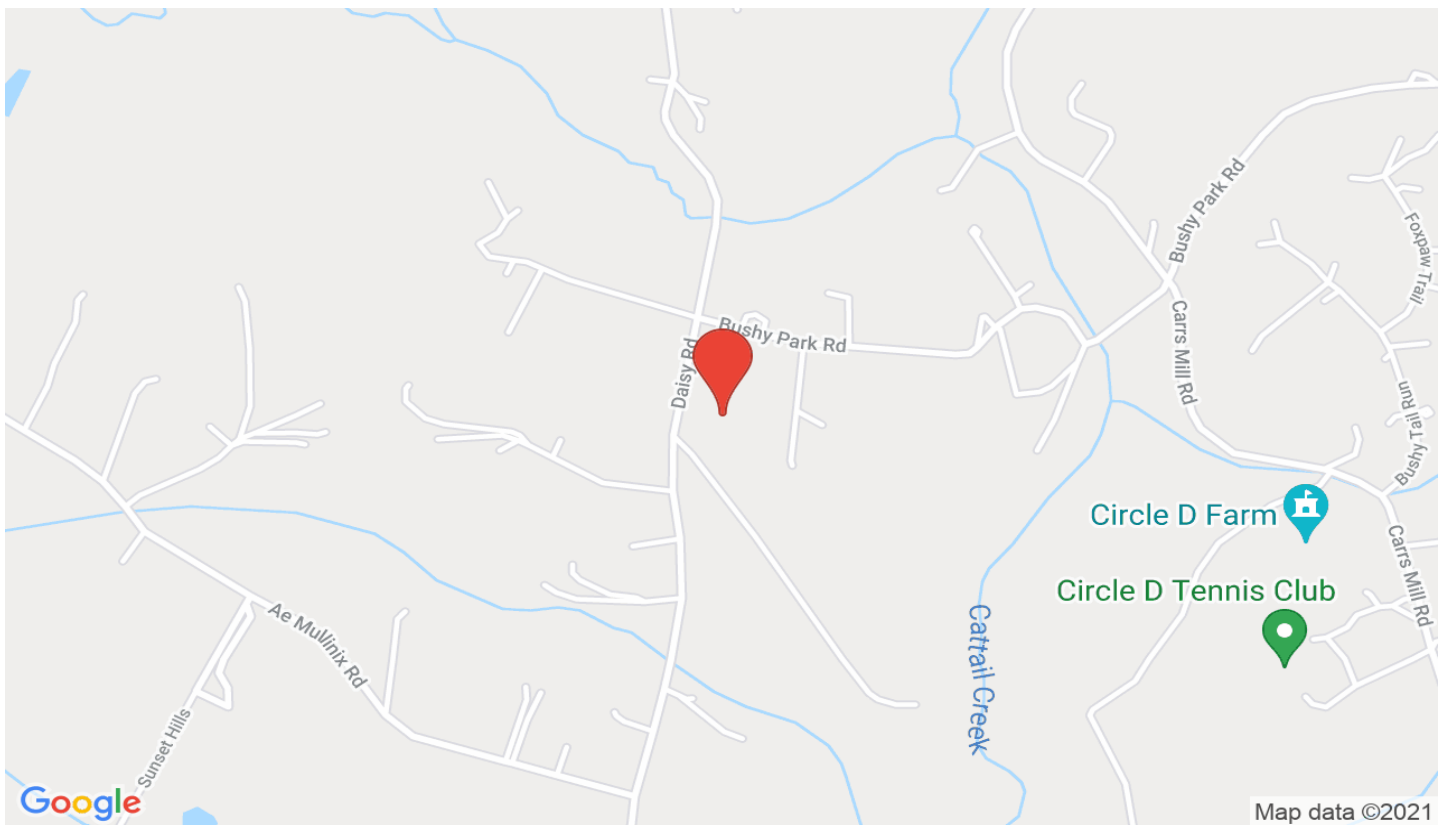
Exterior

Participants: Daniel Doyle

Sensors: Pocket Particle 2.0

Last Updated: 8/09/2020 7:48 pm EDT

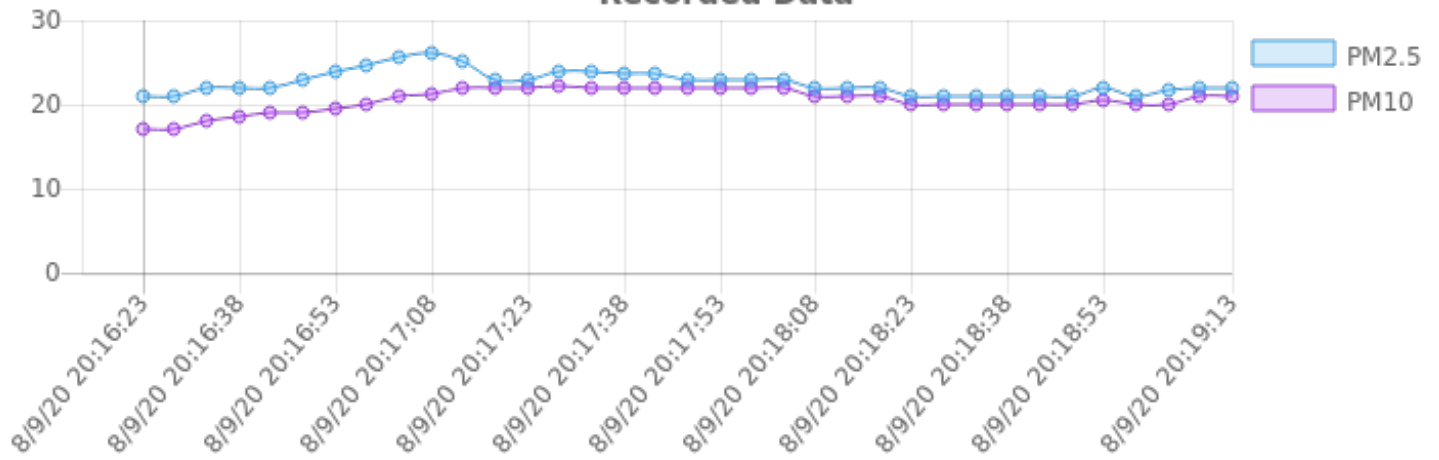
Location: 39.31273101, -77.06091953



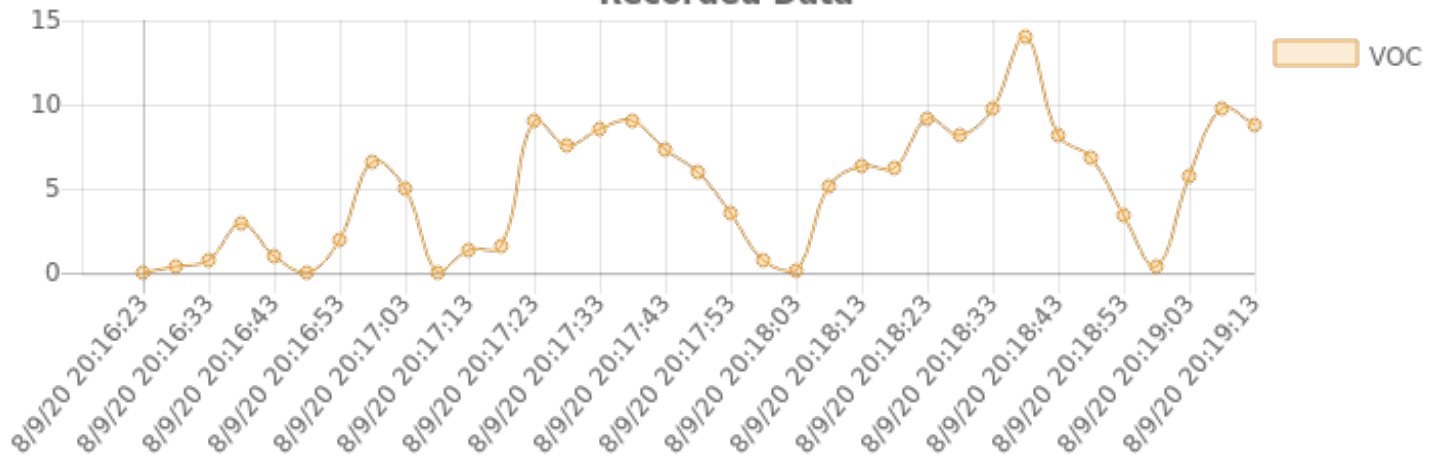
Pocket Particle 2.0

PM2.5 Average		PM10 Average		VOC Average		eCO2 Average	
22.6 ($\mu\text{g}/\text{m}^3$)		20.5 ($\mu\text{g}/\text{m}^3$)		5.0 (ppb)		436.2 (ppm)	
Min	Max	Min	Max	Min	Max	Min	Max
21.0	26.0	17.0	22.2	0.0	14.0	400.0	495.2
($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ppb)	(ppb)	(ppm)	(ppm)

Recorded Data



Recorded Data



Recorded Data

