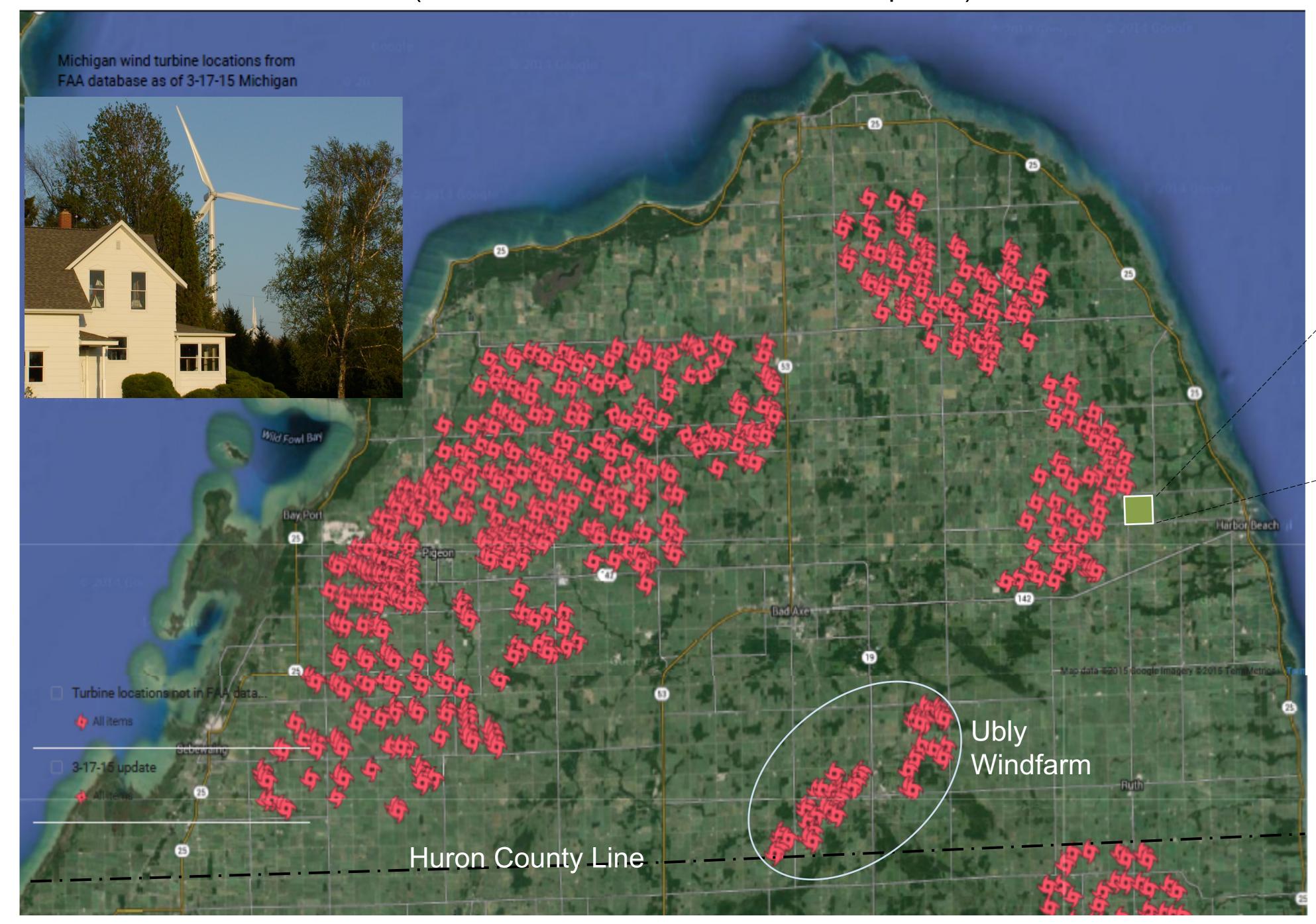
## Wind Turbine 2015

## Direct Experience of Low Frequency Noise and Infrasound within a Windfarm Community. M.A.Swinbanks, MAS Research Ltd

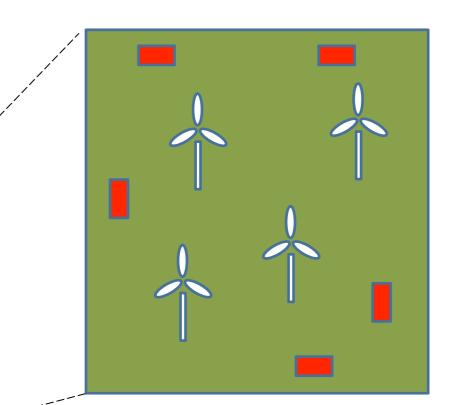
Huron County, Michigan Wind Turbine Locations

(328 Installed + ~ 150 in Immediate Pipeline)



County is Made-Up of 1-mile Square Sections, Bounded by Roads on all Sides

Typical 1-mile Square Section



4 - 6 Residences

3 - 4 Wind-Turbines, 100m - 114m Diameter (7-9 Turbines in Several Sections)

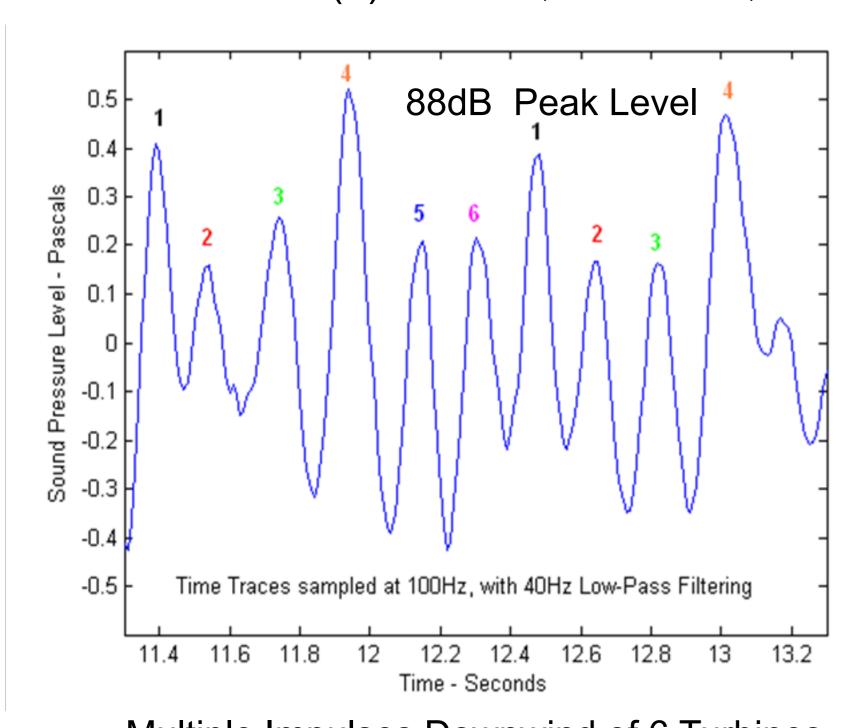
Ordinance Setbacks 1320ft (400m)

Setbacks chosen to meet Wind-Developer Requirements, given Limitations of 1-mile Sections

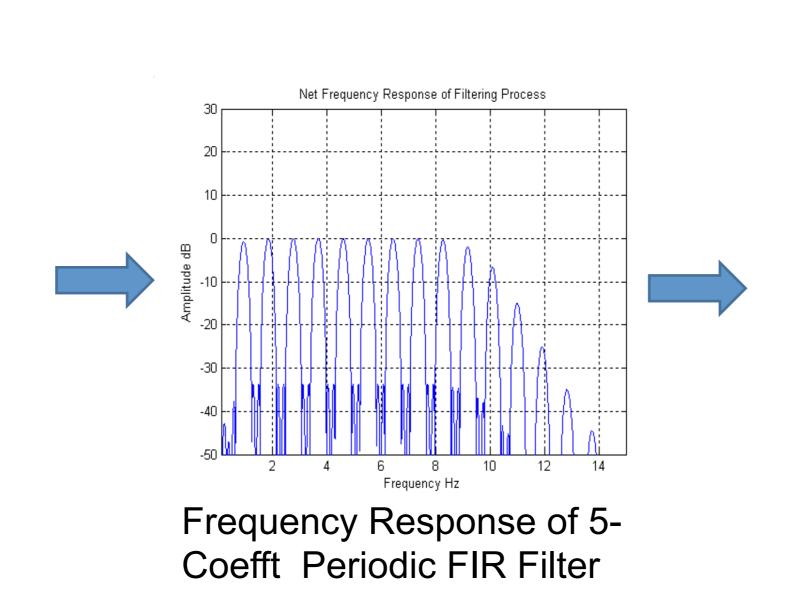
Ubly Windfarm (46, 77m Turbines) designed 2005 by same developer as Dr N. Pierpont opposed in 2005. All effects that she warned have been manifest at this Windfarm.

- (1) Sleep Disturbance (~45 50dBA)
- (2) Infrasonic & LF Pulsations

(3) Nausea, Dizziness, Loss of Concentration & Coordination



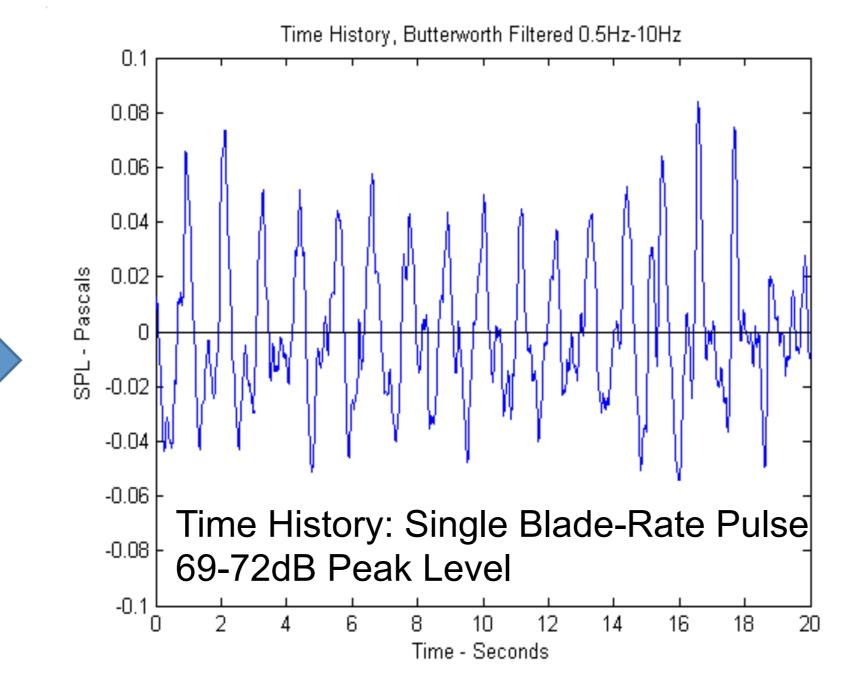
Multiple Impulses Downwind of 6 Turbines

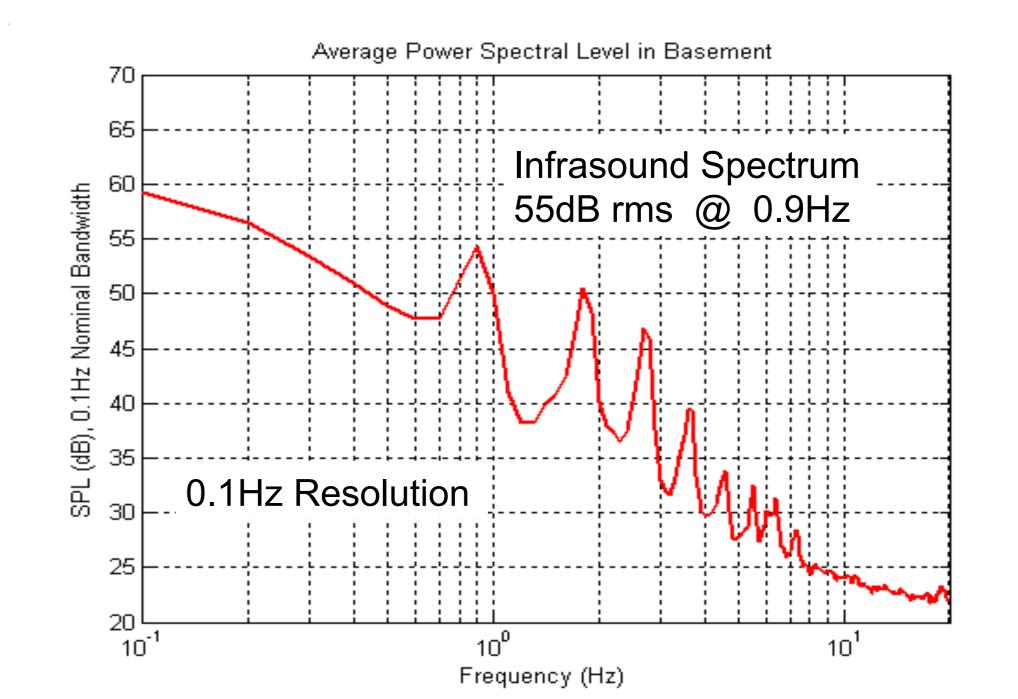


Time History: Blade-Passage Detail v's Successive Blade Passages

Very Low Frequency Infrasound in Basement. 5 Hours Exposure left Author Extremely Unwell.

Loss of Concentration & Coordination => Driving Ability Thoroughly Compromised





Windfarm Noise Predicted only for Individual Windfarms.

Failure to Consider Cumulative Low-Frequency & Infrasound Effects arising from Multiple Windfarms coupled with Low Rates of Attenuation (-3dB/ Doubling of Distance)

