## Falmouth Board of Health Hearing Health Effects of Wind Turbines May 24, 2012

Oral and written testimony on wind turbine effects were submitted to the Board at a public hearing on May 24<sup>th</sup>, 2012, and further written testimony was accepted during the following week (until May 31<sup>st</sup>, 2012). Additional complaint reporting has been ongoing since April 2011, and is summarized separately. The testimony from May 2012 represents 63 individuals, and includes 47 individuals with self-reported health effects. Only written testimony is included in the following analysis.

The submitted written testimony is included in this package of data, and summarized in the tables below. Table 1 describes the number and type of testimony submitted; Table 2 summarizes the health effects; and Table 3 defines the health effects categories. The summary data is derived from a spreadsheet analysis of the written testimony, also attached. We have also mapped the location of the respondents' homes in relationship to the wind turbines, attached as Figure 1.

The major health effect reported was sleep deprivation (85%) with attendant stress (53%), mental health problems (45%), hearing problems (32%), cognitive difficulties (25%), and other effects, summarized in Table 2 below. The testimonials

Total number of testimonies submitted	58
Testimonies not meeting criteria for hearing	1
Total number of valid testimonies	57
Number of people represented	63
Testimonies with health effects	41
People with health effects	47
Testimonies with no health effects	15
- People employed at Technology Park	12
- People who live near Wind 1, Wind 2	3

## Table 1. Number and type of testimony submitted

Table 2. Number and Percent of People with Health Effects by Specific
Category of Health Effect

Category	Number Percent
Sleep Deprivation/ Fatigue	40 (85.1%)
Stress	25 (53.2%)
Cognitive difficulty	12 (25.5%)
Decreased memory, concentration	
Hearing problems	15 (31.9%)
Pressure, tinnitus, pain	
Headache	11 (23.4%)
Mental Health Problems	21 (44.7%)
Depression, mood disorders, anxiety	
Systemic symptoms	10 (21.3%)
Increased BP, P, palpitations	
Difficulty with spatial relationships	6 (12.8%)
Vertigo, loss of balance	
Eye problems	3 (6.4%)
Difficult interpersonal relationships	2 (4.3%)
Thoughts of or attempted suicide	2 (4.3%)
Have symptoms; requested interview	6 (12.8%)
Total number with health effects	47
	6/11/2012

Table 3. Spreadsheet Category Definitions.Self-reported symptoms from attached testimony were categorized using the<br/>following definitions to produce Table 2.

Category	Definitions
Effects	(Yes/no)
Sleep	Disturbance, deprivation, waking up at
	night
Stress	Mentioned stress in dialog
Cognitive	Decreased memory, decreased
	concentration, confusion
Ear symptoms	Pressure, tinnitus, throbbing
Fatigue	Tiredness; (combined with sleep)
Headache	Pressure in head, headache
Anxiety	(Combined with mental health)
Spatial Relationships	Clumsiness, vertigo, balance problems
Eye	Burning, dry
Mental Health	Depression, mood disorders, (anxiety)
Inter-personal relationships (IPR)	Separation, difficulty with people
Suicide	Thoughts, attempted

Nausea	Vomiting (combined with systemic
	symptoms)
Better	Better when out of geographical area
Interview	Have health effects, requested DPH
	confidential interview
Other	Decreased property values, need to
	leave home, need to sleep in basement
	or elsewhere, inability to enjoy property