Speed Survey summary of results.

Surveys were undertaken at 3 sites: A143 The Street (74583, just north of Meadow Drive), A143 Chevington Road (74582, by Godfreys Cottages), and Westley Road (74584, locations shown in appendix 1). Chevington Road and Westley Road surveys were conducted between 15th and 22nd April 2024; the Street survey was conducted between 6th and 12th June 2024.

Traffic volume:
The daily average number of vehicles recorded Mon-Fri and Mon-Sun, and weekly totals are:

Northbound			
The Street	5,112	4,616	32,312
Chevington Road	5,594	4,974	34,818
Westley Road	3,011	2,739	19,173
Southbound			
The Street	5,001	4,548	31,836
Chevington Road	3,669	3,580	25,060
Westley Road	2,791	2,603	18,221

This shows that:
1) Mon-Fri is busier than the weekend.
2) Northbound is busier than southbound, considerably so at the Chevington Road site.
3) The differences in Chevington Rd & Westley Rd vs The Street imply alternative routes taken (i.e. A143 into BSE, down Sharpes Lane), although differential traffic volumes between Apr/June should be considered.

Speed:
The average, standard deviation and 85th percentile of recorded speeds (Mon-Sun) are:

Northbound			
The Street	28mph	4mph	33mph
Chevington Road	32mph	9mph	39mph
Westley Road	36mph	5mph	41mph
Southbound			
The Street	29mph	4mph	34mph
Chevington Road	31mph	5mph	36mph
Westley Road	35mph	5mph	40mph

The standard deviation is a measure of variability, implying greater overall ‘spread’ in vehicle speeds northbound into Horringer (surveyed at Chevington Road site, where standard deviation = 9mph vs 4 or 5mph elsewhere).

The 85th percentile is the speed that 85% of vehicles were recorded travelling at or below. This is the favoured measure of traffic speeds by Highways and police, but takes no account of traffic volume.

The average daily number (percentage of total) of vehicles recorded travelling at 35+ and 40+mph (Mon-Sun) are:

Northbound		
The Street	210 (4.55%)	50 (1.08%)
Chevington Road	1,054 (21.19%)	625 (12.57%)
Westley Road	1,629 (59.47%)	524 (19.13%)
Southbound		
The Street	332 (7.3%)	80 (1.76%)
Chevington Road	619 (17.29%)	161 (4.50%)
Westley Road	1,185 (45.52%)	309 (11.87%)

This shows a high level of speeding at Chevington Road, and a very high level at Westley Road.
NB: the categories (bins) used in recording the speeds prevented calculation of the number or percentage of vehicles exceeding the speed limit (bins 25-<30, 30-<35, 35-<40mph etc).

Vehicles types:
Vehicles type data was not recorded at The Street site due to equipment being tampered with (which also accounts for the discrepancy in recording dates). Different methods were used at the Chevington Road and Westley Road site resulting in different categories.

The Westley Road survey total numbers of recorded vehicle lengths (Mon-Sun) are shown (northbound top, southbound bottom):

<2.8m	**2.8-<5.2m**	**5.2m-<6.5m**	**6.5-<7.5m**	**7.5-<11.5m**	**=<11.5m**
898	14,559	3,170	285	230	29
52	14,906	2,118	512	517	119

NB motorcycles are <2.8 metres, cars and light vans 2.8-5.2 metres. A key is shown in Appendix 2.

The Chevington Road survey recorded vehicle categories (Mon to Sun) are shown (northbound top, southbound bottom, a key is given in Appendix 2):

Bin 1 Mb	Bin 2 Car[+Tr]	Bin 3 Van	Bin 4 Bus	Bin 5 2AxSng	Bin 6 & 7 3/4AxSng	Bin 8+ AxDbl+
469	17,095	8,594	2,147	6,075	202	236
399	18,108	5,081	350	599	245	277

These results show a disparity in Bin3-5 (vans, buses and trucks with 2 axles) with a notably greater number travelling northbound vs southbound at the Chevington Road site.
It also shows that there are approximately 30 to 40 of the largest category HGV (bin8+, cab and trailer[s]) travelling in either direction per day.

Summary

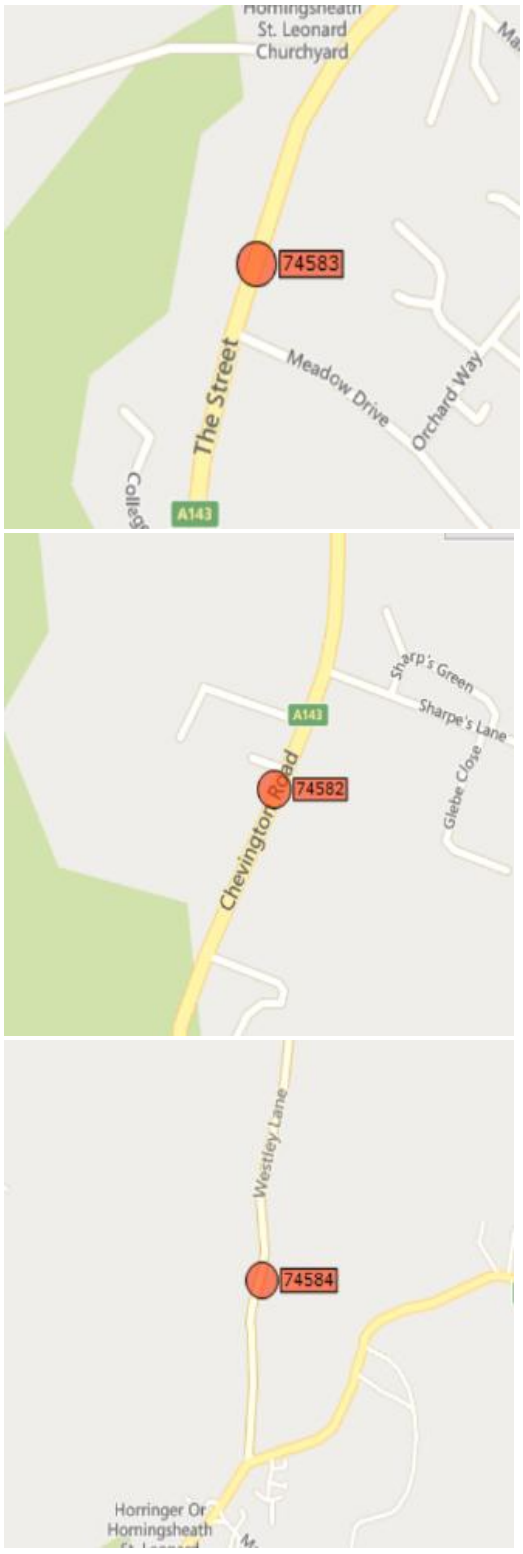
The 'take-home' points from these surveys are:

- A huge number of vehicles travel through Horringer on the A143, between 25,000 and 30,000 in each direction per week.
- The number of vehicles using Westley Road is approaching 20,000 per week in each direction.
- Speeding is a major issue away from the 'centre' of Horringer, with up to 21% of vehicles travelling at 35mph or more at Godfreys Cottages and - incredibly - 59% of vehicles at Westley Road. Both these are residential areas.
- The A143 is used by a large number of HGVs, particularly northbound where there are 6,500 HGVs (vehicles with 3 axles or more) using the road each week. The proportion of smaller vehicles (motorbikes, cars and vans) accounts for about 94-97% of vehicles surveyed throughout the village, except northbound on the A143 where this drops to 75%, implying that 25% of traffic is larger vehicles.
- Extrapolating from speed data, this implies that over 1,350 HGVs per week are travelling at 35mph or more northbound past Godfreys Cottages.

Interpretation

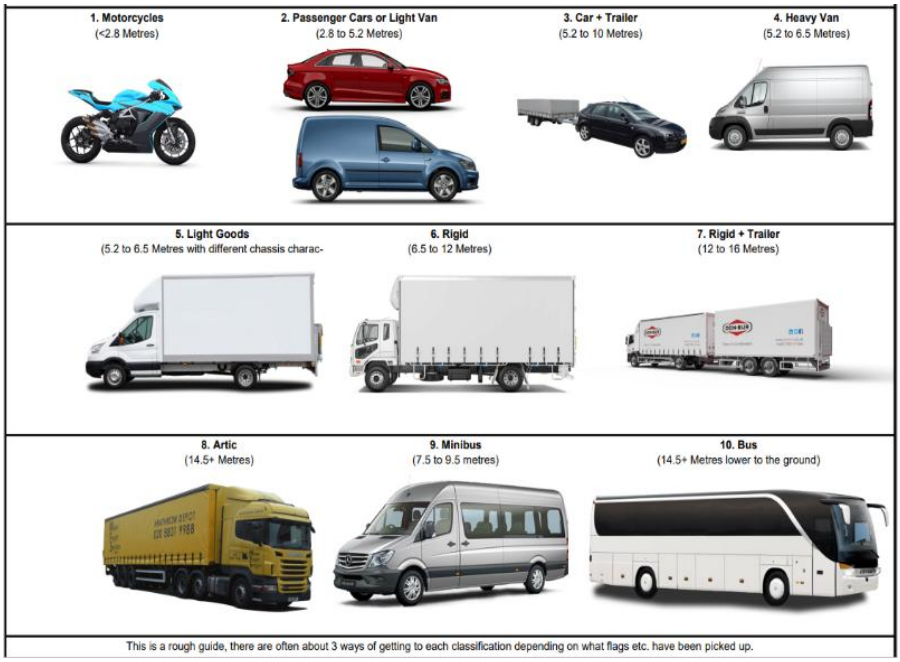
Although the 85th percentile speed is often used to describe the extent of the speeding problem in a location, this is flawed as it takes no account of the number of vehicles travelling at speed, let alone the local highways infrastructure and therefore the impact and risks to other road users. The number of speeding vehicles is integral to the risk of a 'vehicle x pedestrian' or 'vehicle x other road' user incident. Speed will exacerbate the consequences of such incidents. This survey has shown that there are over 11,400 vehicles per week speeding at or over 35mph at Westley Road, and 7,300 at Godfreys Cottages.
The type and volume of traffic will also have an effect on villagers; for example the effects of 6,500 HGVs per week on the road and accompanying infrastructure (e.g. verges, kerbs, drains etc) and on private properties (e.g. Weavers Cottages).

Appendix 1. Site locations



Appendix 2

Westley Road vehicle type survey key:



Chevington Road vehicle type survey key:

