Warndon Parish Council SID report covering Nov 2022 for Dec Meeting

The Westcotec machine is on Plantation Drive on the lamppost just before Barass Avenue for vehicles heading west. The proportion of vehicles are more than the 30mph speed limit has reduced to 22,6% since October. Further down Plantation Drive our new sign (referred to as the Elan City sign) was installed on lamppost 7828 just before Haywain Drive. This sign is solar powered, and it has been discovered the lack of daylight has resulted in battery failure. A charger has since been purchased so provided the batteries will be charged regularly during the winter months. The attached graphs show where the period in mid-December when the battery was flat with no means to recharge them.

Comparison with Previous Months (Westcotec SID)

Report	Dates Covered	Days	Veh Counts	Ave Daily Count	85th Percentile Speed mph	85th Percentile Vehicles	NB. of Speeders	Speeders % of veh counts
Plantation Drive(1) n l/c with no number just before Barass Ave (A4440 side) for vehicles heading west.								
Dec for Jan 2023	01/12 to 31/12	31	63,380	2,045	32.0	58,873	14,341	22.6%
Nov for Dec 2022	01/11 to 30/11	30	80,905	2,697	32.1	68,769	18,741	23.2%
Oct for Nov 2022	01/10 to 31/10	31	72,180	2,328	32.5	61,353	18,953	26.3%
Dugdale Drive (1) on l/c no.7920 opposite Bright Ave for vehicles heading west								
May for Jun 2022	09/05 to 31/05	23	31,522	1,372	31.6	26,794	6,476	20.5%
Jun for Jul 2022	01/06 to 30/06	30	39,268	1,309	32.1	33,378	9,099	23.2%
Jul for Aug 2022	01/07 to 31/07	27	33,403	1,237	31.8	28,393	7,255	21.7%
Aug for Sep 2022	01/08 to 31/08	31	33,576	1,083	31.8	30,240	7,525	21.2%
Sept for Oct 2022	01/09 to 30/09	30	37,666	1,256	31.3	32,101	7,188	19.0%
Millwood Drive, Northbound, on lamppost opposite Ankerage Green								
Apr for May 2022	01/04 to 30/04	30	57,234	1,908	28.9	48,649	3,549	6.2%

Compiled by Councillor Stephen Hodgson 01.01.2023

TRAFFIC ANALYSIS REPORT



TRAFFIC ANALYSIS REPORT FOR WESTCOTEC SID

For Project: 2022.12 Plantation Drive
Projects Notes/Address: Plantation Drive(1)30 mph n l/c with no number just before Barass Ave (A4440 side) for vehicles heading west.
Location/Name: Incoming
Report Generated: 01/01/2023 12:20:35 PM
Speed Intervals = 5 MPH
Time Intervals = Instant

Traffic Report From 01/12/2022 12:00:00 AM through 31/12/2022 11:59:59 PM

85th Percentile Speed = 32.0 MPH
85th Percentile Vehicles = 53,873 counts
Max Speed = 50.0 MPH on 03/12/2022 13:15:00
Total Vehicles =63,380 counts
AADT: 2044.5

Volumes - weekly vehicle counts

		5 Day	7 Day
Average Daily	Time	2,438	2,261
AM Peak	08:00 to 09:00	169	156
PM Peak	04:00 to 05:00	289	245

Speed
Speed Limit: 30 MPH
85th Percentile Speed: 32.0 MPH
50th Percentile Speed: 27.5 MPH
10 MPH Pace Interval: 25.0 MPH to 35.0 MPH
Average Speed: 27.5 MPH

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Count over limit	2007	2325	1760	2275	2438	2232	1305
% over limit	21.4	21.9	21.6	20.2	22.2	27	27.7
Avg Speeder	33.3	33.3	33.3	33.2	33.2	33.4	33.4

TRAFFIC ANALYSIS REPORT



TRAFFIC ANALYSIS REPORT FOR ELAN CITY SID

The newly purchased SID is manufactured by Elan City and uses its own software that is different to the Houston Radar software on the Westcotec devices the Parish Council has previously used.

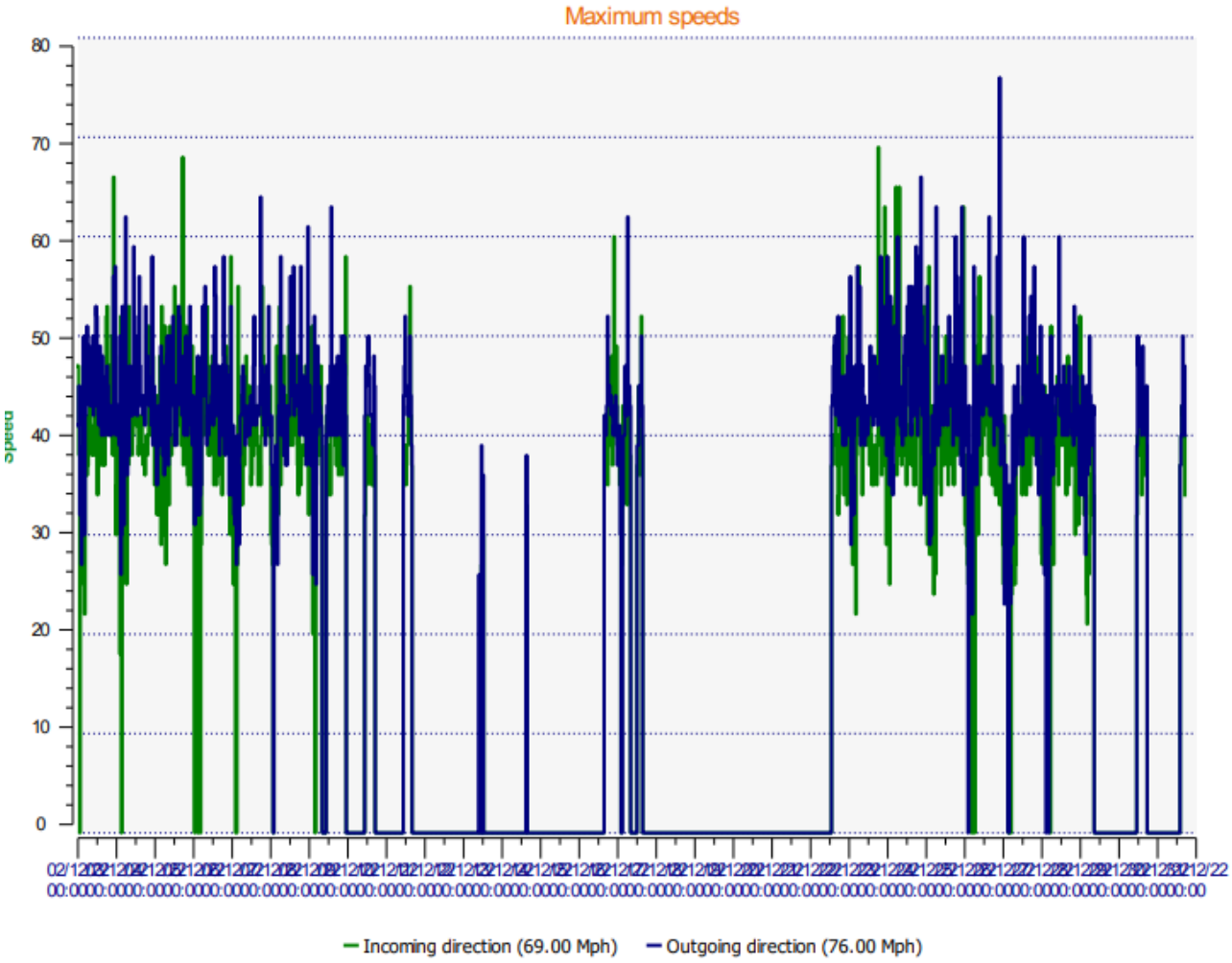
There were battery issues in December due to using a solar powered device. The batteries will be regularly recharged in the winter months going forward. The graph below shows not only the level of speeds recorded but also when the batteries need recharging.

One of the most significant differences is data is recorded in both direction so the data on the blue graph line shows traffic that does not see the message from the sign. It would appear that the sign is slowing traffic down (shown as green), although it is possible traffic is heading towards the A4440 roundabout is speeding up, hence the large difference. Traffic in the opposite (incoming) direction could be slowing to turn left onto The Haywain or Millwood Drive.

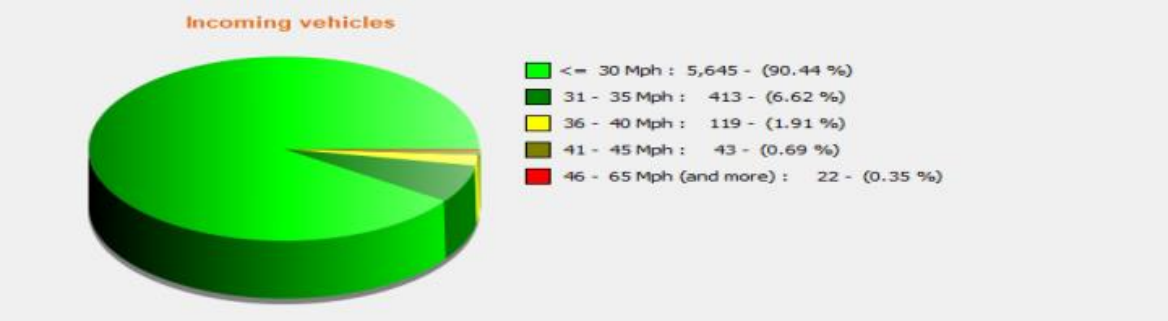


Maximum speeds are much higher for eastbound traffic (speed warning only displayed to westbound traffic). Plantation Drive is a long relatively straight road, and some drivers are tempted to exceed the speed limit by significant amount. This graph shows the some of the speeds reached. The Westcotec SID does not capture speeds as high as this.

However, this needs to be put into context with the two pie charts. Almost 91% of westbound traffic is within the 30mph limit (almost 98% below 35mph). Eastbound traffic speeds (not in sight of the sign) are higher at 68% below 30mph and just under 90% below 35mph).



Incoming Vehicles (sign visible to driver, heading west on Plantation Drive)



Outgoing Vehicles (sign not visible to driver, heading east on Plantation Drive)

