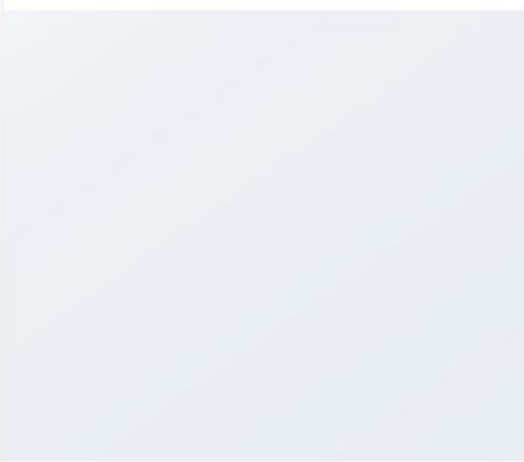


Mirfield Town Council

ATC Summary

Mirfield Speed Surveys

Kitson Hill Road (Site 8 and 9)



Control Sheet

CLIENT: Mirfield Town Council
PROJECT TITLE: ATC Summary
 Mirfield Speed Surveys
REPORT TITLE: Kitson Hill Road (Site 8 and 9)
PROJECT REFERENCE: 166446
DOCUMENT NUMBER: 007
ISSUE NUMBER: 01
DATE: January 2026

Issue & Approval Schedule	Issue 01 Final		Name		Signature		Date	
	Prepared by		Daniel Watson		A signed copy is available on request		08/01/2026	
	Checked by		Carly Pulling				13/01/2026	
	Approved by		Carly Pulling				13/01/2026	
Issue Record	Issue	Date	Status	Description	Name			
	02				Prepared			
					Checked			
					Approved			
	03				Prepared			
					Checked			
Approved								

Sanderson Associates Consulting Engineers is a trading name of Fairhurst Group LLP, a limited liability partnership registered in Scotland with the registered number SO307306 and registered office at 43 George Street, Edinburgh EH2 2HT.

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Acknowledgements

Google MyMaps has been used to generate figures included in this report for illustrative purposes only.

Traffic count data has been provided by Nationwide Data Collection.

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Appendix A

ATC08 – Kitson Hill Road (1) Data

Appendix B

ATC09 – Kitson Hill Road (2) Data

1. Introduction

1.1 Sanderson Associates Consulting Engineers have been appointed by Mirfield Town Council to provide highway consultancy services in relation to speed surveys for 16no. sites located around Mirfield.

1.2 The site locations comprise:

- Hopton Lane (2no. locations)
- Granny Lane
- Steanard Lane
- Church Lane
- Dunbottle Lane
- Lee Green
- Kitson Hill Road (2no. locations)
- Stocks Bank Road (2no. locations)
- Knowle Road
- Crowlees Road
- Flash Lane
- Shillbank (2no. locations)

1.3 The site locations identified are summarised in **Figure 1**.

Figure 1 – Site Locations [Google MyMaps]



- 1.4 Prior to the commissioning of the surveys, the sites, identified by Mirfield Town Council, were assessed for suitability for ATC surveys during a site visit conducted by Sanderson Associates and Councillors Martyn Bolt and Vivien Lees-Hamilton on Monday 17th November 2025.
- 1.5 Nationwide Data Collection (NDC) were commissioned to carry out the 16.no 24hr Automatic Traffic Count (ATC) surveys concurrently for a period of 7 days.
- 1.6 NDC use Metrocount vehicle by vehicle classifiers or Houston Radar loggers, for sites where tubes are not suitable. Counters are always installed, monitored and removed by full time, experienced technicians; who install ATCs on a regular basis (& undertake full risk assessments on a site-by-site basis prior to installation). Counters were to be installed for 7 full (& aligned) 24hr periods.

Table 1 - Glossary of terms for ATC

Heading	Description
>PSL	Greater than the posted speed limit
>PSL%	Greater than the posted speed limit as a percentage
>SL1 ACPO	Greater than ACPO (Association of Chief Police Officers) standard. ACPO is PSL x 10%+2mph
>SL1% ACPO	Greater than ACPO displayed as a percentage
>SL2 DfT	Greater than DfT (Department for Transport) standard. DfT is PSL plus 10mph.
>SL2% DfT	Greater than DfT displayed as a percentage
Mean	Average speed
Vpp 85	85th percentile speed

- The ACPO (Association of Chief Police Officers) limits refer to UK guidelines for speed enforcement, generally allowing a tolerance of 10% + 2 mph over the limit before action (like a fine or course) is considered.
- 85th percentile speed is the speed at or below which 85% of drivers on a road are travelling.

- 1.7 The following sections will analyse the results for the Kitson Hill Road sites.

2. Site ATC08 – Kitson Hill Road (1)

2.1 Figure 2 shows the site location plan and photo of the equipment in place.

Figure 2 – ATC08 – Kitson Hill Road (1) [NDC]



2.2 The survey was carried out between Thursday 4th December 00:00 and Wednesday 10th December 23:59. The ATC was damaged during the initial survey period of 28th November to 4th December and therefore had to be repeated.

2.3 The data collected is summarised in **Tables 2 and 3**.

Table 2 – Summary of speed results – ATC08 – Kitson Hill Road (1)

Posted Speed Limit 30mph						
Direction of Travel	Average Speed (mph)	85th %ile Speed (mph)	Highest Recorded Speed (mph)	Time of Highest Speed	% over speed limit (06:00-22:00)	% over ACPO limit (06:00-22:00)
East	22.9	27.8	55-60	01:00-02:00	5.8	0.9
West	22.9	27.0	55-60	01:00-02:00	3.5	0.4

Table 3 – Summary of traffic flows – ATC08 – Kitson Hill Road (1)

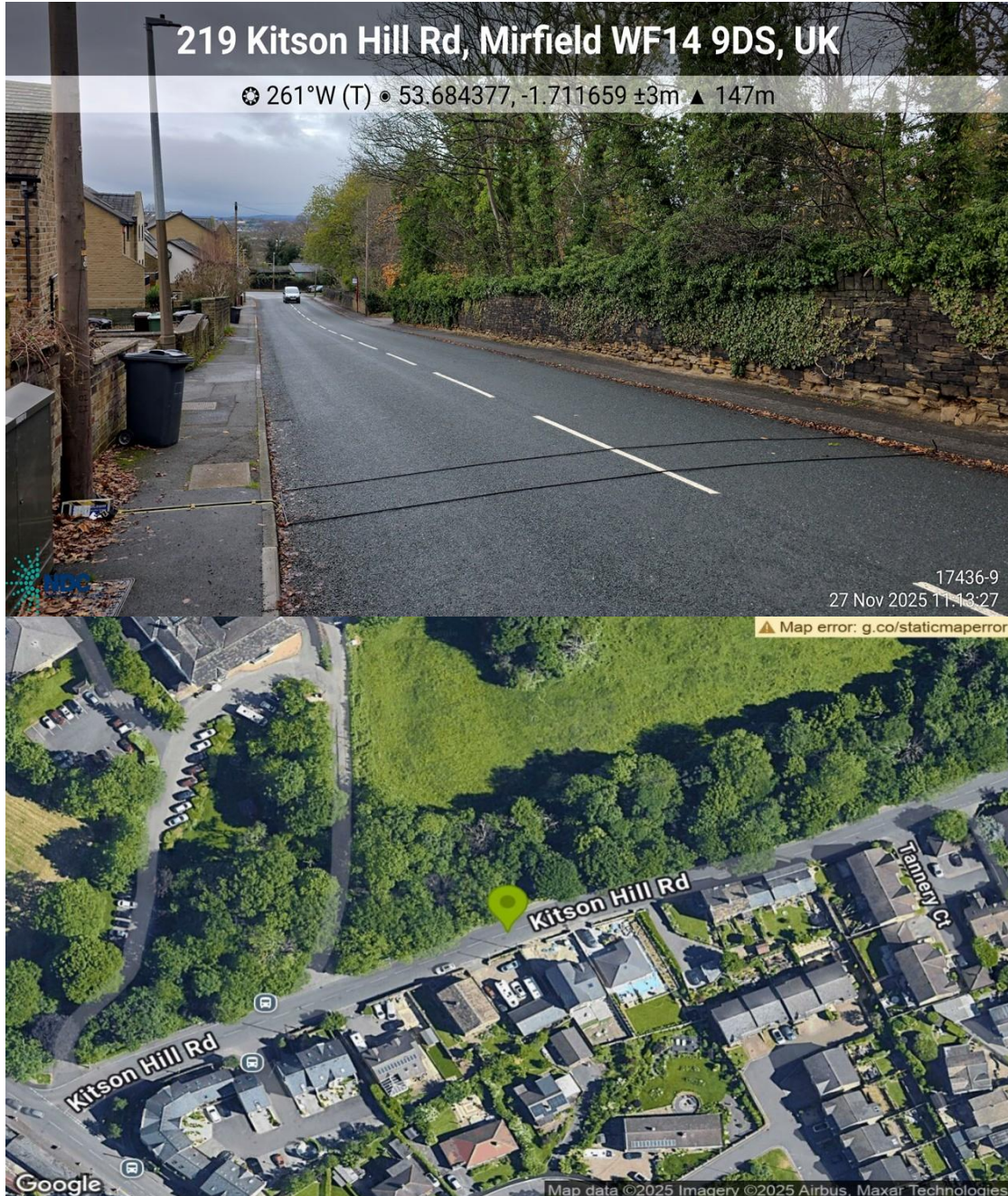
Direction of Travel	Average Daily Total Vehicles (5-day)	Average Daily Total Vehicles (7-day)	Weekday AM Peak Time Period	Weekday PM Peak Time Period	Weekend Peak Time Period
East	1933	1804	08:00-09:00	16:00-17:00	12:00-13:00
West	2363	2144	08:00-09:00	15:00-16:00	12:00-13:00

- 2.4 The weekday peak time periods at this site were 08:00-09:00 in the AM and 16:00-17:00 in the PM. The weekend peak time period is 12:00-13:00.
- 2.5 On average, 5% of vehicles exceeded the posted speed limit of 30mph between the hours of 06:00 and 22:00, over the 7-day survey period. During the same period, an average of 0.6% of vehicles exceeded the ACPO limit (35mph).
- 2.6 The highest speed of 55-60mph was recorded twice on Saturday 6th December at 01:00-02:00 and once on Wednesday 10th December at 01:00-02:00 in the eastbound direction; and once on Wednesday 10th December at 01:00-02:00 in the westbound direction.
- 2.7 The full data report is included at **Appendix A**.

3. Site ATC09 – Kitson Hill Road (2)

3.1 **Figure 3** shows the site location plan and photo of the equipment in place.

Figure 3 – ATC09 – Kitson Hill Road (2) [NDC]



3.2 The survey was carried out between Friday 5th December 00:00 and Thursday 11th December 23:59. The ATC was damaged during the initial survey period of 28th November to 4th December and therefore had to be repeated.

3.3 The data collected is summarised in **Tables 4 and 5**.

Table 4 – Summary of speed results – ATC09 – Kitson Hill Road (2)

Posted Speed Limit 30mph						
Direction of Travel	Average Speed (mph)	85th %ile Speed (mph)	Highest Recorded Speed (mph)	Time of Highest Speed	% over speed limit (06:00-22:00)	% over ACPO limit (06:00-22:00)
East	27.8	31.7	70-75	19:00-20:00	26.0	4.2
West	27.8	32.0	50-55	<i>Various see below</i>	27.3	4.5

Table 5 – Summary of traffic flows – ATC09 – Kitson Hill Road (2)

Direction of Travel	Average Daily Total Vehicles (5-day)	Average Daily Total Vehicles (7-day)	Weekday AM Peak Time Period	Weekday PM Peak Time Period	Weekend Peak Time Period
East	1876	1755	08:00-09:00	16:00-17:00	11:00-12:00
West	2228	2034	08:00-09:00	15:00-16:00	13:00-14:00

- 3.4 The weekday peak time periods at this site were 08:00-09:00 in the AM and 15:00-16:00 in the PM. The weekend peak time period was 11:00-12:00.
- 3.5 On average, 27% of vehicles exceeded the posted speed limit of 30mph between the hours of 06:00 and 22:00, over the 7-day survey period. During the same period an average of 4.4% of vehicles exceeded the ACPO limit (35mph).
- 3.6 The highest recorded speed eastbound was 70-75mph, which occurred once at 19:00-20:00. The highest recorded speed westbound was 50-55mph, recorded a total of 11 times at various times of day, 6 of these occurrences were between the hours of 06:00-22:00.
- 3.7 The full data report is included at **Appendix A**.



Appendix A


ATC08 – Kitson Hill Road (1) Data

47 Kitson Hill Rd, Mirfield WF14 9EN, UK

☉ 124°SE (T) ● 53.685816, -1.702653 ±3m ▲ 161m














17436-8
27 Nov 2025 11:35:02

	Site / Location:	Kitson Hill Road - 53.685772, -1.702602	Project No:	17346	Photo No:	8	Drawn By:	RN
	Survey Date:	Thursday, 04 December 2025 - Wednesday, 10 December 2025	Project Name:	Mirfield				
	Survey Times:	00:00 - 00:00 (24 Hour)	Title:	Site Photograph				

Automatic Traffic Count

Site No.	Location.	Direction.	Speed Limit - PSL (mph)	Start Date.	End Date.	Total Vehicles.	5 Day Ave.	7 Day Ave.	No. > Speed Limit.	% > Speed Limit.	No. > ACPO Limit.	% > ACPO Limit.	No. > DfT Limit.	% > DfT Limit.	Mean Speed	85%ile Speed
8	Kitson Hill Road - 53.685772, -1.702602	East	30	Thursday, 04 December 2025	Wednesday, 10 December 2025	12630	1933	1804	811	6.4	149	1.2	38	0.3	22.9	27.8
		West	30	Thursday, 04 December 2025	Wednesday, 10 December 2025	15010	2363	2144	614	4.1	85	0.6	13	0.1	22.9	27.0
		Both Directions	30	Thursday, 04 December 2025	Wednesday, 10 December 2025	27640	4296	3949	1425	5.2	234	0.8	51	0.2	22.9	27.3

ATC VEHICLE CATEGORIES

Axles	Groups	Description	Class		Parameters	Dominant Vehicle	Aggregate
2	1 or 2	Very Short - Bicycle or Motorcycle	MC	1	$d(1) < 1.7m$ & axles=2		
2	1 or 2	Short - Sedan, Wagon, 4WD, Utility, Light Van	SV	2	$d(1) \geq 1.7m$, $d(1) \leq 3.2m$ & axles=2		
3, 4 or 5	3	Short Towing - Trailer, Caravan, Boat, etc.	SVT	3	groups=3, $d(1) \geq 2.1m$, $d(1) \leq 3.2m$, $d(2) \geq 2.1m$ & axles=3,4,5		1 (Light)
2	2	Two axle truck or Bus	TB2	4	$d(1) > 3.2m$ & axles=2		
3	2	Three axle truck or Bus	TB3	5	axles=3 & groups=2		
>3	2	Four axle truck	T4	6	axles>3 & groups=2		2 (Medium)
3	3	Three axle articulated vehicle or Rigid vehicle and trailer	ART3	7	$d(1) > 3.2m$, axles=3 & groups=3		
4	>2	Four axle articulated vehicle or Rigid vehicle and trailer	ART4	8	$d(2) < 2.1m$ or $d(1) < 2.1m$ or $d(1) > 3.2m$ axles = 4 & groups>2		
5	>2	Five axle articulated vehicle or Rigid vehicle and trailer	ART5	9	$d(2) < 2.1m$ or $d(1) < 2.1m$ or $d(1) > 3.2m$ axles=5 & groups>2		
>=6	>2	Six (or more) axle articulated vehicle or Rigid vehicle and trailer	ART6	10	axles=6 & groups>2 or axles>6 & groups=3		
>6	4	B-Double or Heavy truck and trailer	BD	11	groups=4 & axles>6		
>6	>=5	Double or triple road train or Heavy truck and two (or more) trailers	DRT	12	groups>=5 & axles>6		3 (Heavy)

ATC SPEED BINS & DATA HEADINGS

Heading	Description
0 - 5	Speed bin totals 0 - 5 mph
5 - 10	Speed bin totals 5 - 10 mph
10-15	Speed bin totals 10 - 15 mph
15 - 20	Speed bin totals 15 - 20 mph
20 - 25	Speed bin totals 20 - 25 mph
25 - 30	Speed bin totals 25 - 30 mph
30 - 35	Speed bin totals 30 - 35 mph
35 - 40	Speed bin totals 35 - 40 mph
40 - 45	Speed bin totals 40 - 45 mph
45 - 50	Speed bin totals 45 - 50 mph
50 - 55	Speed bin totals 50 - 55 mph
55 - 60	Speed bin totals 55 - 60 mph
60 - 65	Speed bin totals 60 - 65 mph
65 - 70	Speed bin totals 65 - 70 mph
70 - 75	Speed bin totals 70 - 75 mph
75 - 80	Speed bin totals 75 - 80 mph
80 - 85	Speed bin totals 80 - 85 mph
85 - 90	Speed bin totals 85 - 90 mph
90 - 95	Speed bin totals 90 - 95 mph
95 - 100	Speed bin totals 95 - 100 mph
100 - 105	Speed bin totals 100 - 105 mph
105 - 110	Speed bin totals 105 - 110 mph
110 - 115	Speed bin totals 110 - 115 mph
115 - 120	Speed bin totals 115 - 120 mph
120 - 125	Speed bin totals 120 - 125 mph
125 - 130	Speed bin totals 125 - 130 mph
130 - 135	Speed bin totals 130 - 135 mph
135 - 140	Speed bin totals 135 - 140 mph

Heading	Description
>PSL	Greater than the posted speed limit
>PSL%	Greater than the posted speed limit as a percentage
>SL1 ACPO	Greater than ACPO (Association of Chief Police Officers) standard. ACPO is PSL x 10%+2mph
>SL1% ACPO	Greater than ACPO displayed as a percentage
>SL2 DFT	Greater than DFT (Department For Transport) standard. DFT is PSL plus 10mph.
>SL2% DFT	Greater than DFT displayed as a percentage
Mean	Average speed
Vpp 85	85th percentile speed



Appendix B

ATC09 – Kitson Hill Road (2) Data

219 Kitson Hill Rd, Mirfield WF14 9DS, UK

☉ 261°W (T) ● 53.684377, -1.711659 ±3m ▲ 147m










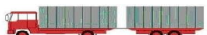



NDC NATIONWIDE DATA COLLECTION	Site / Location:	Kitson Hill Road - 53.684372, -1.711766	Project No:	17436	Photo No:	9	Drawn By:	RN
	Survey Date:	Friday, 05 December 2025 - Thursday, 11 December 2025	Project Name:	Mirfield				
	Survey Times:	00:00 - 00:00 (24 Hour)	Title:	Site Photograph				



Site No.	Location.	Direction.	Speed Limit - PSL (mph)	Start Date.	End Date.	Total Vehicles.	5 Day Ave.	7 Day Ave.	No. > Speed Limit.	% > Speed Limit.	No. > ACPO Limit.	% > ACPO Limit.	No. > DfT Limit.	% > DfT Limit.	Mean Speed	85%ile Speed
9	Kitson Hill Road - 53.684372, -1.711766	East	30	Friday, 05 December 2025	Thursday, 11 December 2025	12282	1876	1755	3239	26.4	561	4.6	134	1.1	27.8	31.7
		West	30	Friday, 05 December 2025	Thursday, 11 December 2025	14236	2228	2034	4045	28.4	729	5.1	123	0.9	27.8	32.0
		Both Directions	30	Friday, 05 December 2025	Thursday, 11 December 2025	26518	4104	3788	7284	27.5	1290	4.9	257	1.0	27.8	31.9

ATC VEHICLE CATEGORIES

Axles	Groups	Description	Class		Parameters	Dominant Vehicle	Aggregate
2	1 or 2	Very Short - Bicycle or Motorcycle	MC	1	$d(1) < 1.7m$ & axles=2		
2	1 or 2	Short - Sedan, Wagon, 4WD, Utility, Light Van	SV	2	$d(1) \geq 1.7m$, $d(1) \leq 3.2m$ & axles=2		
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2	2	Two axle truck or Bus	TB2	4	$d(1) > 3.2m$ & axles=2		
3	2	Three axle truck or Bus	TB3	5	axles=3 & groups=2		
>3	2	Four axle truck	T4	6	axles>3 & groups=2		2 (Medium)
3	3	Three axle articulated vehicle or Rigid vehicle and trailer	ART3	7	$d(1) > 3.2m$, axles=3 & groups=3		
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>SL2 DFT	Greater than DFT (Department For Transport) standard. DFT is PSL plus 10mph.
>SL2% DFT	Greater than DFT displayed as a percentage
Mean	Average speed
Vpp 85	85th percentile speed



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