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Met Engineers Monckton Coke Works ATC Survey Report Feb 2021

PROJECT NO.	11440
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INTRODUCTION

Nationwide Data Collection (NDC) was instructed by Met Engineers to undertake Automatic Traffic Counts on Lund Hill Lane, Royston, Barnsley.

A general location plan is given below, with site photos included within the results.

AUTOMATIC TRAFFIC COUNTS

Automatic traffic counts were undertaken at the following sites:

Site No.	Location.	Day / Date
1	B6428 Lund Hill Lane - 53.602027,-1.433561	Saturday, 30 January 2021 - Friday, 5 February 2021

METROCOUNT 5600 series automatic traffic counters, attached to pneumatic tubes, were used at all the sites. Data was collected in both directions at both locations.

The survey was carried out with survey hours of 00:00 to 00:00 (24 Hours).

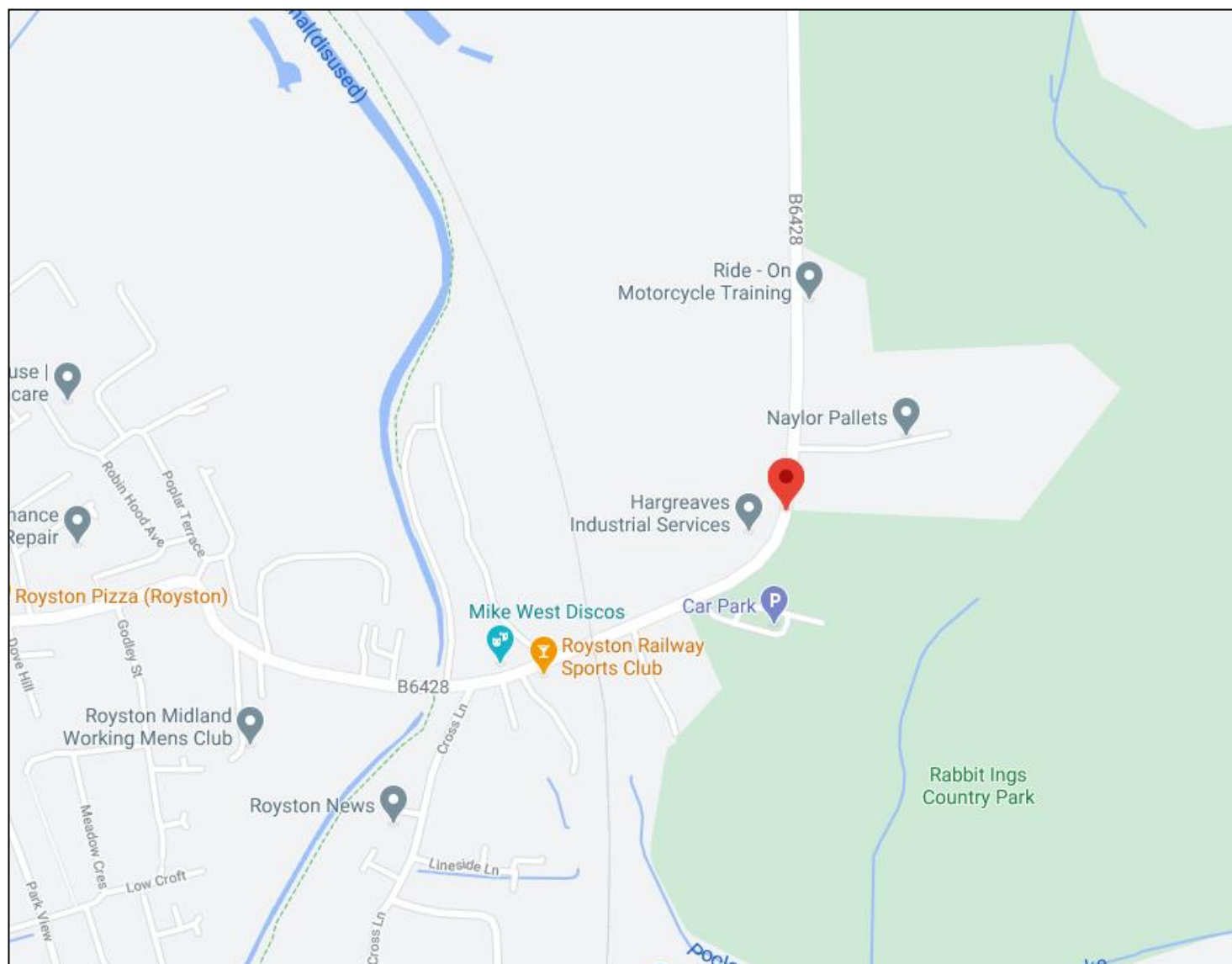
The results have been provided in excel, in hourly totals and includes the following information:

- Total Vehicles
- Class Bin Totals (12 Class)
- Number of Vehicles over Speed Limit
- Percentage of Vehicles over Speed Limit
- Number of Vehicles over Speed Limit 1 (ACPO Standard – 110% Speed Limit + 2mph)
- Percentage of Vehicles over Speed Limit 1
- Number of Vehicles over Speed Limit 2 – (DfT Standard – 100% Speed Limit + 2mph)
- Percentage of Vehicles over Speed Limit 2
- Mean Speed
- 85th Percentile Speed
- Speed Bin Totals (Range 0 to 140mph)

12hr (07:00 to 19:00), 16hr (06:00 to 22:00), 18hr (06:00 to 00:00) and 24hr (00:00 to 00:00) totals are also included along with a virtual day, week and grand total. The peak time period for both the a.m (00:00 to 12:00) and p.m (12:00 to 24:00) are also highlighted.

A detailed description of the vehicles included in each category is provided in Appendix A.

GENERAL LOCATION PLAN



APPENDIX A

VEHICLE CATEGORIES

ATC VEHICLE CATEGORIES

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

APPENDIX C

SPEED BINS & DATA HEADINGS

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 15mph.
>SL2% DfT	Greater than DfT displayed as a percentage
Mean	Average speed
Vpp 85	85th percentile speed

APPENDIX C

SURVEY RESULTS



	Site / Location:	B6428 Lund Hill Lane - 53.602027,-1.433561	Project No:	11440	Photo No:	1	Drawn By:	RN
	Survey Date:	Saturday, 30 January 2021 - Friday, 5 February 2021	Project Name:	Monckton Coke Works				
	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
1	B6428 Lund Hill Lane - 53.602027,-1.433561	North	30	Saturday, 30 January 2021	Friday, 5 February 2021	11638	1681	1663	7806	67.1	3147	27.0	136	1.2	32.1	37.2
		South	30	Saturday, 30 January 2021	Friday, 5 February 2021	11809	1729	1687	6894	58.4	2321	19.7	97	0.8	31.0	36.0
		Both Directions	30	Saturday, 30 January 2021	Friday, 5 February 2021	23447	3409	3350	14700	62.7	5468	23.3	233	1.0	31.5	36.7