

OVG Manchester:

Appendix 10.4 – Operational Traffic Noise

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Noise and Vibration – Operational Traffic Noise – Appendix 10.4

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Revision 03

Revision	Description	Issued by	Date	Checked
00	First Issue.	GD	17/01/20	BFB
01	Incorporated comments from stakeholders.	GD	17/1/20	BFB
02	Scoping Opinion and Legal Review comments incorporated.	GD	14/2/20	BFB
03	Traffic data updated to reflect 180 events.	GD	18/3/20	BFB

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author **Gareth Davies**

date **18/3/20**

approved **Ben Burgess**

signature



date **18/3/20**

1 Operational Traffic Noise

Annual average weekday traffic (AAWT) flow counts were carried out by the project transport consultant. Observed and predicted traffic flows have been used to assess the magnitude of impact on the roads due to operational traffic in the short and long-term, as shown in the following Tables.

Furthermore, traffic data has been provided with mode splits described as follows:

- The Base Mode split is worst case assuming no transport mitigation is applied; and
- The Aspirational Mode split has been derived assuming that transport mitigation to reduce car travel is applied.

Magnitude of impact from operational traffic – 2026 Base Mode

Link	AAWT 2026 future baseline traffic flow		AAWT 2026 (Base Mode – future baseline + development – 180 events)		Predicted change in traffic noise level - dB	Magnitude of impact
	Total traffic flow 18h	% HGV	Total traffic flow 18h	% HGV		
Bradford Road (west of Saxon Street)	13979	8%	13942	8%	0.0%	Negligible
Briscoe Lane (west of Riverpark Road)	18414	9%	18227	9%	0.0%	Negligible
Stuart Lane (east of Archer Street)	5342	3%	5162	3%	0.0%	Negligible
Gibbon Street (east of Alan Turing Way)	14491	4%	14267	4%	0.0%	Negligible
A6010 Alan Turing Way (south of Gibbon Street)	33943	11%	35505	11%	0.2%	Negligible
A622 Ashton New Road (east of Alan Turing Way)	21570	8%	21223	8%	0.0%	Negligible
A6010 Alan Turing Way (south of Ashton New Road)	32020	13%	32890	12%	0.1%	Negligible
A622 Ashton New Road (west of Grey Mare Lane)	19429	8%	19154	8%	0.0%	Negligible
A6010 Alan Turing Way (north of Ashton Old Road)	29602	12%	30552	11%	0.1%	Negligible
A635 Ashton Old Road (west of Mill Street)	27286	11%	26774	11%	0.0%	Negligible
A6010 Pottery Lane (north of Ambrose Street)	30695	13%	30798	13%	0.1%	Negligible

Link	AAWT 2026 future baseline traffic flow		AAWT 2026 (Base Mode – future baseline + development – 180 events)		Predicted change in traffic noise level - dB	Magnitude of impact
	Total traffic flow 18h	% HGV	Total traffic flow 18h	% HGV		
A635 Ashton Old Road (east Whitehurst Drive)	25114	12%	24674	12%	0.0%	Negligible
Welcomb Street (north of Whitworth Street)	2438	15%	2356	15%	0.0%	Negligible
A622 Ashton New Road (east of Linfield Street)	15712	9%	15562	9%	0.0%	Negligible
A635 Ashton Old Road (west of Louisa Street)	25784	9%	25322	9%	0.0%	Negligible
Ashton Old Road (east of Lime Bank Street)	30894	10%	30287	10%	0.0%	Negligible
A662 Ashton New Road (west of Hillkirk Street)	15014	9%	14887	9%	0.0%	Negligible

Magnitude of impact from operational traffic – 2026 Aspirational Mode

Link	AAWT 2026 future baseline traffic flow		AAWT 2026 (Aspirational Mode – future baseline + development – 180 events)		Predicted change in traffic noise level - dB	Magnitude of impact
	Total traffic flow 18h	% HGV	Total traffic flow 18h	% HGV	Aspirational Mode	Aspirational Mode
Bradford Road (west of Saxon Street)	13979	8%	14217	8%	0.1%	Negligible
Briscoe Lane (west of Riverpark Road)	18414	9%	18652	9%	0.0%	Negligible
Stuart Lane (east of Archer Street)	5342	3%	5342	3%	0.0%	Negligible
Gibbon Street (east of Alan Turing Way)	14491	4%	14636	4%	0.0%	Negligible
A6010 Alan Turing Way (south of Gibbon Street)	33943	11%	35428	11%	0.1%	Negligible
A622 Ashton New Road (east of Alan Turing Way)	21570	8%	21778	8%	0.0%	Negligible
A6010 Alan Turing Way (south of Ashton New Road)	32020	13%	33089	12%	0.2%	Negligible

Link	AAWT 2026 future baseline traffic flow		AAWT 2026 (Aspirational Mode – future baseline + development – 180 events)		Predicted change in traffic noise level - dB	Magnitude of impact
	Total traffic flow 18h	% HGV	Total traffic flow 18h	% HGV	Aspirational Mode	Aspirational Mode
A622 Ashton New Road (west of Grey Mare Lane)	19429	8%	19637	8%	0.1%	Negligible
A6010 Alan Turing Way (north of Ashton Old Road)	29602	12%	30671	11%	0.1%	Negligible
A635 Ashton Old Road (west of Mill Street)	27286	11%	27509	11%	0.1%	Negligible
A6010 Pottery Lane (north of Ambrose Street)	30695	13%	31318	13%	0.1%	Negligible
A635 Ashton Old Road (east Whitehurst Drive)	25114	12%	25336	12%	0.0%	Negligible
Welcomb Street (north of Whitworth Street)	2438	15%	2438	15%	0.0%	Negligible
A622 Ashton New Road (east of Linfield Street)	15712	9%	15920	9%	0.1%	Negligible
A635 Ashton Old Road (west of Louisa Street)	25784	9%	26007	9%	0.0%	Negligible
Ashton Old Road (east of Lime Bank Street)	30894	10%	31132	10%	0.0%	Negligible
A662 Ashton New Road (west of Hillkirk Street)	15014	9%	15222	9%	0.1%	Negligible

Magnitude of impact from operational traffic - 2038

Link	AAWT 2038 future baseline traffic flow		AAWT 2038 (Aspirational Mode – future baseline + development – 180 events)		Predicted change in traffic noise level - dB	Magnitude of impact
	Total traffic flow 18h	% HGV	Total traffic flow 18h	% HGV		
Bradford Road (west of Saxon Street)	15476	8%	15714	8%	0.1%	Negligible
Briscoe Lane (west of Riverpark Road)	20386	9%	20623	9%	0.0%	Negligible
Stuart Lane (east of Archer Street)	5914	3%	5914	3%	0.0%	Negligible

Link	AAWT 2038 future baseline traffic flow		AAWT 2038 (Aspirational Mode – future baseline + development – 180 events)		Predicted change in traffic noise level - dB	Magnitude of impact
	Total traffic flow 18h	% HGV	Total traffic flow 18h	% HGV		
Gibbon Street (east of Alan Turing Way)	16042	4%	16187	4%	0.1%	Negligible
A6010 Alan Turing Way (south of Gibbon Street)	37577	11%	39062	11%	0.2%	Negligible
A622 Ashton New Road (east of Alan Turing Way)	23879	8%	24087	8%	0.1%	Negligible
A6010 Alan Turing Way (south of Ashton New Road)	35448	13%	36517	12%	0.1%	Negligible
A622 Ashton New Road (west of Grey Mare Lane)	21509	8%	21717	8%	0.0%	Negligible
A6010 Alan Turing Way (north of Ashton Old Road)	32770	12%	33839	11%	0.2%	Negligible
A635 Ashton Old Road (west of Mill Street)	30207	11%	30430	11%	0.0%	Negligible
A6010 Pottery Lane (north of Ambrose Street)	33981	13%	34604	13%	0.1%	Negligible
A635 Ashton Old Road (east Whitehurst Drive)	27802	12%	28025	12%	0.0%	Negligible
Welcomb Street (north of Whitworth Street)	2699	15%	2699	15%	0.0%	Negligible
A622 Ashton New Road (east of Linfield Street)	17394	9%	17602	9%	0.0%	Negligible
A635 Ashton Old Road (west of Louisa Street)	28544	9%	28767	9%	0.0%	Negligible
Ashton Old Road (east of Lime Bank Street)	34201	10%	34439	10%	0.0%	Negligible
A662 Ashton New Road (west of Hillkirk Street)	16621	9%	16829	9%	0.0%	Negligible

The tables above show a negligible magnitude of impact at the surrounding NSRs and therefore the significance of effect from traffic noise generated by operational traffic at all highly sensitive NSRs is calculated to be negligible.