

11571 – Airfield Quarry

Technical Note 01 Rv2: Traffic Movement Review

12 December 2025

Document Status

Rev	Issue Status	Prepared / Date	Checked / Date	Approved / Date
0	Draft	M.A'Lee 28/10/25	B. Morgan 28.10.25	M.A'Lee 28.10.25
1	Final	M.A'Lee 03.12.25	A.McGill 03.12.25	M.A'Lee 03.12.25
2	Final	M.A'Lee 12.12.25	A.McGill	M.A'Lee 12.12.25

1 Introduction

- 1.1.1 This Technical Note (TN) has been prepared to provide a review of the number of vehicle movements generated by Airfield Quarry and the potential impact the extension of mineral working at Airfield Quarry will have on the local highway network.
- 1.1.2 An application for the proposed extension of the quarry works has been submitted as part of a Section 73 application ref: 2025/9270 which seeks to extend the life of the quarry from December 2025 to December 2040, an extension of 15 years, to allow for additional quarrying of mineral deposits and infill/restoration with inert waste brought into the site.

2 Traffic Movements

- 2.1.1 The Planning Statement produced by Bright Associates dated July 2025 advises that the maximum tonnage per day secured under the existing planning permission will remain unchanged at 300 tonnes per day with a maximum of 82,500 tonnes per annum (50,000 m³ Per Annum) being imported to the site. On this basis, the daily number of HGV movements to and from the site is not expected to change.
- 2.1.2 To determine the number of movements that is generated by the site on a daily basis, an Automatic Traffic Counter was positioned on the access road (Thewlis Lane) for a period of 2 weeks, the daily (24hr) two-way results are summarised in the table below and a copy of the survey data is provided in **Appendix 1**.

	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
	AV	HGV's	AV	HGV's	AV	HGV's	AV	HGV's	AV	HGV's	AV	HGV's
Week 1	375	32	367	47	377	20	412	29	378	26	171	16
Week 2	382	46	293	24	405	22	345	27	317	28	139	8
Ave	379	39	330	36	391	21	379	28	348	27	155	12

Table 2-1: 24hour two-way traffic flow on Thewlis Lane.

- 2.1.3 **Table 2-1** shows that over a 24-hour period Monday to Friday, the site on average generates 365 two-way vehicle movements per day of which 30 are HGV movements. The movements on a Saturday are much lower with an average of 155 two-way movements of which 12 are HGV's.
- 2.1.4 As part of the pre-application comments the highway authority have requested a maintenance fee for maintaining the existing public highway although there was no maintenance fee requirement as part of the original planning consent.
- 2.1.5 To determine the impact of the HGV's that are currently generated by the site has on the local road network, a review of the existing traffic movements along Blackmoorcroft Road has also been carried out. This review is based on Automatic Traffic Counters being positioned on Blackmoorcroft Road either side of the quarry access for the same 2-week period as the access road. The 24-hour two-way traffic movements are summarised in the tables below for Monday to Saturday, the full survey data is included in **Appendix 1**.

	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
	AV	HGV's	AV	HGV's	AV	HGV's	AV	HGV's	AV	HGV's	AV	HGV's
Week 1	6042	458	6440	559	6601	568	6788	536	6527	459	4960	314
Week 2	5918	531	6133	491	6105	495	6052	510	5867	465	4259	232
Ave	5980	495	6287	525	6353	532	6420	523	6197	462	4610	273

Table 2-2: 24hour two-way traffic flow on Blackmoorcroft Road (East).

	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
	AV	HGV's	AV	HGV's	AV	HGV's	AV	HGV's	AV	HGV's	AV	HGV's
Week 1	5758	675	6138	672	6335	716	6460	761	6146	646	4778	400
Week 2	5709	729	5866	715	5874	652	5798	650	5691	622	4050	360
Ave	5734	702	6002	694	6105	684	6129	706	5919	634	4414	380

Table 2-3: 24hour two-way traffic flow on Blackmoorcroft Road (West).

- 2.1.6 The above tables show that on average Monday to Friday, Blackmoorcroft Road (excluding traffic from Thewlis Lane) has 5,747 two-way movements over a 24hour period of which there are an average of 566 two-way HGV movements. The traffic movements associated with the Quarry will be primarily HGV movements (34 daily two-way), this equates to 0.5% of the total traffic movements on Blackmoorcroft Road and just 6% of the HGV movements.
- 2.1.7 Based on the above, it is shown that the impact associated with the traffic movements generated by the Quarry site are significantly less than the existing movements along Blackmoorcroft Road, and as such, it is not considered to be possible to determine that any deterioration of the carriageway would be as a result of traffic movements generated by the site. It is therefore considered inappropriate to request a maintenance fee for the public highway associated with this use.
- 2.1.8 The lifespan of a road surface will vary depending upon the volume and type of traffic that uses it although typically a road surface should last between 10 – 20 years before re-surfacing is required.

3 Disclaimer

- 3.1.1 The conclusions and recommendations contained herein are limited to those given the general availability of background information and the planned usage of the site.

- 3.1.2 Third party information has been used in the preparation of this report, which Brookbanks, by necessity assumes is correct at the time of writing. While all reasonable checks have been made on data sources and the accuracy of data, Brookbanks accepts no liability for same.
- 3.1.3 The benefits of this report are provided solely to Bright Associates & Johnsons Wellfield Quarries Ltd., for the Quarry at Thewlis Lane only.
- 3.1.4 Brookbanks excludes third party rights for the information contained in the report.

| Appendix 1 – Traffic Survey Data