

APPENDIX 1

NOISE IMPACT ASSESSMENT

30 November 2017

Our Ref: R17.7796/1/RK/Let1

e-mail to: willie.booth@dalgleshassociates.co.uk



Mr W Booth
Dalglesh Associates Limited
Cathedral Square
Dunblane
FK15 0AH

Dear Mr Booth

**Re: Relocation of Proposed Storage Mound at Shierglas Quarry, Perthshire -
Noise Impact Assessment**

As requested, the noise prediction model for the proposed future operations at Shierglas Quarry has been updated to reflect the newly proposed location of the soils and overburden mound on the eastern edge of the quarry, rather than to the northwest as previously proposed.

The only receptor considered in the updated noise prediction calculation is Strathgarry House to the east of the quarry, as this is the only property with the potential for a greater noise impact due to a reduced separation distance; albeit it would only be the plant associated with the mound construction that would come slightly closer to the property.

All noise level predictions have been undertaken in accordance with the methods outlined in the original noise impact assessment, Vibrock reference R13.7796/2/RK, which was Appendix 3 of the Environmental Statement that accompanied the application for planning permission.

The updated results of the noise prediction calculations are presented in Table 1 below. It can be seen that a worst-case noise level of 49 dB $L_{Aeq,1h}$ is predicted for all scenarios considered in the assessment. The predicted noise level remains unchanged as the noise emanating from the top of the asphalt plant is the dominant noise source throughout all scenarios considered.

When compared with the results of the noise prediction calculations in the original noise impact assessment, it can be seen that there is largely no difference in the levels predicted, again due to the dominance of the noise level emanating from the top of the asphalt plant. In fact, there is a slight reduction in the noise level predicted for Phase 6 Operations; a 1 dB(A) reduction. This is due to the fact that the eastern mound would be largely complete by this stage and will provide screening of the plant at the upper levels of the quarry; additional screening that was not present in the original noise impact assessment.

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The worst-case noise level of 49 dB $L_{Aeq,1h}$, predicted for all scenarios, comfortably meets the limit of 55 dB $L_{Aeq,1h}$ outlined in Condition 5 of the relevant Planning Consent issued by Perth and Kinross Council, Ref' 13/01333/FLL.

We trust the above satisfies your immediate requirements but if any further information or clarification is required please do not hesitate to contact us.

Yours sincerely



RICHARD KENNEDY
Consultant

TABLE 1

**Summary of Worst-Case Predicted Noise Levels
Shierglas Quarry – Relocation of Proposed Mound**

Location No. 1: Strathgarry House

Description of Operation	Existing Noise Levels dB(A)		Predicted Worst Case dB $L_{Aeq,1h}$	Difference dB(A)	
	L_{Aeq}	L_{A90}		Existing L_{Aeq}	55 dB L_{Aeq}
Soils / overburden handling including normal operations	50	43	49	-1	-21
Phase 1 Operations	50	43	49	-1	-6
Phase 2 Operations	50	43	49	-1	-6
Phase 3 Operations	50	43	49	-1	-6
Phase 4 Operations	50	43	49	-1	-6
Phase 5 Operations	50	43	49	-1	-6
Phase 6 Operations	50	43	49	0	-5
Phase 7 Operations	53	42	49	-4	-6