

TECHNICAL APPENDIX 7.3 – DETAILS OF CONSTRUCTION PLANT

Tables A7.3.1 to A7.3.3 presents the noise emission data for each assessed construction activity. The results of which are detailed in Table 7.16 of the EIA Report.

Table A7.3.1: Construction of Access Tracks

BS 5228 Reference	Plant	Quantity	On-time	Sound Pressure Level at 10 m, dB, LAeq	Sound Power Level (LWA), dB
C2.14	Tracked excavator	1	100	79	107
C4.32	Concrete Mixer Truck + Truck Mounted Concrete Pump + Boom Arm	1	50	78	106
C4.33	Poker Vibrator	2	25	78	109
C2.30	Dump Truck (tipping fill)	1	25	79	107
C2.37	Roller (rolling fill)	1	25	79	107
D6/11	Batching Plant	1	100	80	108
Total Sound Power Level					115
C.2/34	Haulage Lorry movements (per hour - worst case scenario)	6			
	Sound Power Level (LWA), dB	105.5			
	Speed, km/h	15			

Table A7.3.2: Turbine Foundations

BS 5228 Reference	Plant	Quantity	On-time	Sound Pressure Level at 10 m, dB, LAeq	Sound Power Level (LWA), dB
C.5/18	Tracked excavator	2	100	80	111
C.6/16	Articulated dump truck 25t	1	100	88	116
C.5/14	Bulldozer 35t	1	100	86	114
C.5/24	Vibratory roller 12t	1	100	84	112
Total Sound Power Level					120
C.2/34	Haulage Lorry movements (per hour - worst case scenario)	6			
	Sound Power Level (LWA), dB	105.5			
	Speed, km/h	15			

Table A7.3.3: Turbine Construction

BS 5228 Reference	Plant	Quantity	On-time	Sound Pressure Level at 10 m, dB, LAeq	Sound Power Level (LWA), dB
C.4/38	400t Wheeled Mobile Crane	1	100	78	106
C.4/39	mobile telescopic crane	1	100	77	105
C.4/85	Diesel Generator	1	100	66	94
N/A	torque guns	2	100	82	113
Total Sound Power Level					114
C.2/34	Haulage Lorry movements (per hour - worst case scenario)	6			
	Sound Power Level (LWA), dB	105.5			
	Speed, km/h	15			

Table A7.3.4 presents the traffic flow data used in this assessment, the results of which are detailed in Table 7.17 of the EIA Report.

Table A7.3.3: Traffic Flow Summary

Location	Annual Average Baseline Daily Traffic	Low Flow Corrections	% HGV	Average Speed	Noise Level, corrected for distance, facades and low flows, dB
1 - M8: Between J5 and Services	6,779	-	13.23%	108	79.9
2 – B7066 West Main Street: West of Westcraigs Road Junction	4,454	-	10.40%	50	65.4
3 - B718 Westcraigs Road: At proposed Site Entrance	8,242	CORRECTION	11.59%	50	62.3
Additional Traffic Due to Development					
Location	All Vehicles		HGV only	Increase in Noise Level, dB	Magnitude of Impact
1 - M8: Between J5 and Services	199		100	0.0	Negligible
2 – B7066 West Main Street: West of Westcraigs Road Junction	199		100	0.6	Negligible
3 - B718 Westcraigs Road: At proposed Site Entrance	114		54	0.7	Negligible