

CLEVE HILL SOLAR PARK

ENVIRONMENTAL STATEMENT

VOLUME 4 - TECHNICAL APPENDIX A12.6

CHANGE IN ROAD TRAFFIC NOISE CALCULATION SHEET

November 2018 Revision A

Document Reference: 6.4.12.6 APFP Regulation: 5(2)(a)

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Baseline														
Location	Annual Average Daily Traffic	Low Flows	% HGV	Average Speed	Basic Noise Level	ΔρV	Basic Noise Level (inc HGV) L+ΔpV	distance from road edge, d (m)	Receiver height, H (m)	Slant distance, d'(m)	Distance correction,	Façade Correction, dB		Noise Level, corrected for 4m distance, facades and low flows, dB
Head Hill Rd (South)	2920	CORRECTION	7	81	63.8	2.2	66.0	1.0	1.5	4.7	4.5	2.5	-0.2	63.7
Head Hill Rd (North)	2525	CORRECTION	5	81	63.1	1.8	64.9	1.0	1.5	4.7	4.5	2.5	-0.5	62.4
Seasalter Road	1675	CORRECTION	4	81	61.3	1.6	62.9	1.0	1.5	4.7	4.5	2.5	-1.9	59.0
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Additional Traffic Due to Development											
Location	All Vehicles HGV onl		Difference, dB	Magnitude of Impact							
Head Hill Rd (South)	222	60	0.6	Negligible							
Head Hill Rd (North)	222	60	0.9	Negligible							
Seasalter Road	222	60	1.6	Minor							

Road Class	Speed, km/h
Roads not Subject to a speed limit of less than 60mph	108
Special roads (rural) exclusing slip roads	97
Special roads (urban) excluding slip roads	97
Single carriageways, more than 9m wide	88
Single carriageways, less than 9m wide	81
Slip roads - estimate individually	
Dual carriageways, 50mph speed limit	80
Single carriageways, 50mph speed limit	70
Dual carriageways, 30mph speed limit	60
Single carriageways, 30mph speed limit	50
Roads subject to a speed limit of 30mph or less	50

With Development														
Location	Annual Average Daily Traffic	Low Flows	% HGV	Average Speed	Basic Noise Level	ΔρV	Basic Noise Level (inc HGV) L+ApV	distance from road edge, d (m)	Receiver height, H (m)	Slant distance, d'(m)	Distance correction,	Façade Correction, dB		Noise Level, corrected for 4m distance, facades and low flows, dB
Head Hill Rd (South)	3142	CORRECTION	8.4	81	64.1	2.5	66.5	1.0	1.5	4.7	4.5	2.5	-0.1	64.3
Head Hill Rd (North)	2747	CORRECTION	6.8	81	63.5	2.2	65.7	1.0	1.5	4.7	4.5	2.5	-0.4	63.3
Seasalter Road	1897	CORRECTION	6.7	81	61.9	2.1	64.0	1.0	1.5	4.7	4.5	2.5	-1.4	60.6
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