

planning
transport
design
environment
infrastructure

APPENDIX 7.6: Operational Noise Assessment Results

**Wheelabrator Kemsley Generating Station (K3) and Wheelabrator
Kemsley North (WKN) Waste to Energy Facility DCO**

S42 Draft ES

PINS ref: EN010083



Appendix 12.6: Operational Noise Assessment



Residential Receptors

Daytime

Receptor	Usage	Baseline Ambient Noise Level, $L_{Aeq, 16\text{-hours}}$ (dB)	Baseline Background Noise Level, L_{A90} (dB)	Specific Noise Level, $L_{Aeq, 1\text{-hour}}$ (dB)	Rating Level, $L_{Ar, Tr}$ (dB)	Rating / Background Difference (dB)	Ambient Noise Change (dB)	Significant?
Kemsley Primary School	Edu	47	39	24.7	29.7	-9.3	0.0	No
Kemsley Primary School	Edu	47	39	24.8	29.8	-9.2	0.0	No
Marsh Rise	Res	47	39	27.5	32.5	-6.5	0.0	No
Milton Creek	Rec	47	39	32.7	37.7	-1.3	0.2	No
Milton Creek	Rec	47	39	26.6	31.6	-7.4	0.0	No
Milton Creek (north)	Rec	47	39	37.5	42.5	3.5	0.5	Yes
Milton Creek (south)	Rec	47	39	32.7	37.7	-1.3	0.2	No
North of Reedbed	Eco	47	39	34.6	39.6	0.6	0.2	Yes
Off Reams Way	Res	47	39	27.9	32.9	-6.1	0.1	No
Reams Way	Res	47	39	28.0	33.0	-6.0	0.1	No
Reams Way N	Res	47	39	27.4	32.4	-6.6	0.0	No
Reams Way S	Res	47	39	27.6	32.6	-6.4	0.0	No
Recreation Way N	Res	47	39	27.5	32.5	-6.5	0.0	No
Recreation Way S	Res	47	39	27.0	32.0	-7.0	0.0	No
Reedbed (100 m from UEU)	Eco	47	39	47.9	52.9	13.9	3.5	Yes
Reedbed (200 m from URC)	Eco	47	39	43.1	48.1	9.1	1.5	Yes
The Swale	Rec	47	39	36.5	41.5	2.5	0.4	Yes
Walsby Drive N	Res	47	39	26.0	31.0	-8.0	0.0	No
Walsby Drive S	Res	47	39	26.2	31.2	-7.8	0.0	No

Appendix 12.6: Operational Noise Assessment



Night-time

Receptor	Usage	Baseline Ambient Noise Level, $L_{Aeq, 8\text{-hours}}$ (dB)	Baseline Background Noise Level, L_{A90} (dB)	Specific Noise Level, $L_{Aeq, 5\text{-min}}$ (dB)	Rating Level, $L_{Ar,Tr}$ (dB)	Rating / Background Difference (dB)	Ambient Noise Change (dB)	Significant?
Kemsley Primary School	Edu	45	35	24.7	29.7	-5.3	0.0	No
Kemsley Primary School	Edu	45	35	24.8	29.8	-5.2	0.0	No
Marsh Rise	Res	45	35	27.5	32.5	-2.5	0.1	No
Milton Creek	Rec	45	35	32.7	37.7	2.7	0.2	Yes
Milton Creek	Rec	45	35	26.6	31.6	-3.4	0.1	No
Milton Creek (north)	Rec	45	35	37.5	42.5	7.5	0.7	Yes
Milton Creek (south)	Rec	45	35	32.7	37.7	2.7	0.2	Yes
North of Reedbed	Eco	45	35	34.6	39.6	4.6	0.4	Yes
Off Reams Way	Res	45	35	27.9	32.9	-2.1	0.1	No
Reams Way	Res	45	35	28.0	33.0	-2.0	0.1	No
Reams Way N	Res	45	35	27.4	32.4	-2.6	0.1	No
Reams Way S	Res	45	35	27.6	32.6	-2.4	0.1	No
Recreation Way N	Res	45	35	27.5	32.5	-2.5	0.1	No
Recreation Way S	Res	45	35	27.0	32.0	-3.0	0.1	No
Reedbed (100 m from UEU)	Eco	45	35	47.9	52.9	17.9	4.7	Yes
Reedbed (200 m from URC)	Eco	45	35	43.1	48.1	13.1	2.2	Yes
The Swale	Rec	45	35	36.5	41.5	6.5	0.6	Yes
Walsby Drive N	Res	45	35	26.0	31.0	-4.0	0.1	No
Walsby Drive S	Res	45	35	26.2	31.2	-3.8	0.1	No