

Kennington Green Construction Noise

Phase 1 - Enabling Works

Plant	On-time	BS 5228-1 Ref	Sound Pressure Level at 10m					
			63	125	250	500	1000	2000
Mini Excavator	50.0%	C4-68	71	71	66	59	59	58
Secondary Excavator	16.7%	C4-68	71	71	66	59	59	58
Muck away Lorries	25.0%	C2-34	73	78	78	78	74	73

Phase 2 - Establish Worksite

Plant	On-time	BS 5228-1 Ref	Sound Pressure Level at 10m					
			63	125	250	500	1000	2000
100T crane	16.7%	C4-41	73	71	68	70	66	63
Flat bed lorries	16.7%	C2-34	73	78	78	78	74	73

Phase 3 - Shaft Excavation

Plant	On-time	BS 5228-1 Ref	Sound Pressure Level at 10m					
			63	125	250	500	1000	2000
100T crane	66.7%	C4-41	73	71	68	70	66	63
Compressor	100.0%	C4-81	63	57	58	53	51	46
Generator	100.0%	C4-81	63	57	58	53	51	46
Batching Plant	16.7%	D6-10	-100	-100	-100	78	-100	-100
Excavator	66.7%	C2-25	77	65	67	67	63	61
Secondary Excavator	83.3%	C2-25	77	65	67	67	63	61
Muck away trucks	25.0%	C2-34	73	78	78	78	74	73
Flat bed lorries	8.3%	C2-34	73	78	78	78	74	73

Phase 4 - SCL Gallery Tunnel Construction

Plant	On-time	BS 5228-1 Ref	Sound Pressure Level at 10m					
			63	125	250	500	1000	2000
Compressor	100.0%	C4-81	63	57	58	53	51	46
Generator	100.0%	C4-81	63	57	58	53	51	46
Batching Plant	50.0%	D6-10	-100	-100	-100	78	-100	-100
100T Crane	50.0%	C4-41	73	71	68	70	66	63
Secondary Excavator	50.0%	C2-25	77	65	67	67	63	61
Muck away trucks	50.0%	C2-34	73	78	78	78	74	73

Phase 5 - SCL Tunnel Construction

Plant	On-time	BS 5228-1 Ref	Sound Pressure Level at 10m					
			63	125	250	500	1000	2000
Compressor	100.0%	C4-81	63	57	58	53	51	46
Generator	100.0%	C4-81	63	57	58	53	51	46
Batching plant	50.0%	D6-10	-100	-100	-100	78	-100	-100
100T Crane	50.0%	C4-41	73	71	68	70	66	63
Secondary Excavator	50.0%	C2-25	77	65	67	67	63	61
Muck-away trucks	50.0%	C2-34	73	78	78	78	74	73

Phase 6 - Step Plate Junction Construction

Plant	On-time	BS 5228-1 Ref	Sound Pressure Level at 10m					
			63	125	250	500	1000	2000
Compressor	100.0%	C4-81	63	57	58	53	51	46
Generator	100.0%	C4-81	63	57	58	53	51	46
Batching Plant	16.7%	D6-10	-100	-100	-100	78	-100	-100
100T Crane	50.0%	C4-41	73	71	68	70	66	63
Secondary Excavator	50.0%	C2-25	77	65	67	67	63	61
Lorries	58.3%	C2-34	73	78	78	78	74	73

Phase 7 - TBM dismantling

Plant	On-time	BS 5228-1 Ref	Sound Pressure Level at 10m					
			63	125	250	500	1000	2000
Compressor	100.0%	C4-81	63	57	58	53	51	46
Generator	100.0%	C4-81	63	57	58	53	51	46
100T Crane	25.0%	C4-41	73	71	68	70	66	63
Large Mobile Crane (600T)	50.0%	D4-50	68	71	68	62	66	66

Phase 8 - Continue step plate junction**Phase 9 - Backfilling of Gallery tunnel**

Plant	On-time	BS 5228-1 Ref	Sound Pressure Level at 10m					
			63	125	250	500	1000	2000
Compressor	100.0%	C4-81	63	57	58	53	51	46
Generator	100.0%	C4-81	63	57	58	53	51	46
100T Crane	66.7%	C4-41	73	71	68	70	66	63
Lorries	66.7%	C2-34	73	78	78	78	74	73

Phase 10 - Adit and headhouse

Plant	On-time	BS 5228-1 Ref	Sound Pressure Level at 10m					
			63	125	250	500	1000	2000
Compressor	100.0%	C4-81	63	57	58	53	51	46
Generator	100.0%	C4-81	63	57	58	53	51	46
100T Crane	50.0%	C4-41	73	71	68	70	66	63
Excavator	50.0%	C2-25	77	65	67	67	63	61
Secondary Excavator	50.0%	C2-25	77	65	67	67	63	61
Muck away trucks	25.0%	C2-34	73	78	78	78	74	73
Ready mix trucks	16.7%	C4-24	69	64	64	66	63	59
Sheet piling Rig	33.3%	C3-11	68	60	59	57	51	50

Phase 11 - M&E Fitout

Plant	On-time	BS 5228-1 Ref	Sound Pressure Level at 10m					
			63	125	250	500	1000	2000
Compressor	100.0%	C4-81	63	57	58	53	51	46
Generator	100.0%	C4-81	63	57	58	53	51	46
100T Crane	25.0%	C4-41	73	71	68	70	66	63
Lorries	16.7%	C2-34	73	78	78	78	74	73

Phase 12 - Headhouse Construction

As phase 11

Phase 13 - Site reinstatement

Plant	On-time	BS 5228-1 Ref	Sound Pressure Level at 10m					
			63	125	250	500	1000	2000
Lorries	16.7%	C2-34	73	78	78	78	74	73



4000	8000
54	48
54	48
68	66



4000	8000
54	49
68	66



4000	8000
54	49
38	33
38	33
-100	-100
57	47
57	47
68	66
68	66



4000	8000
38	33
38	33
-100	-100
54	49
57	47
68	66



4000	8000
38	33
38	33
-100	-100
54	49
57	47
68	66

4000 **8000**
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4000 **8000**
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4000 **8000**
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4000 **8000**
38 33
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54 49
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4000	8000
68	66