
Appendix 9.3

Construction Noise Assessment

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Construction Phasing Summary

The activities associated with each construction phase are summarised in Table 9.C.1

Table 9.C.1: Construction Phases

Phase	Construction Activities
Phase 1	Enabling works overall construction programme ESB substation overall construction programme AGI building overall construction programme DC1 overall construction programme R409 road improvement works (including the cycle lane, pedestrian walk way to both sides of the road) DC2 overall construction programme.
Phase 2	DC 3 overall construction programme DC 5 overall construction programme
Phase 3	Construct external construction compound and remove existing compound DC 6 overall construction programme DC 4 overall construction programme Site wide works overall construction programme

An indicative construction phase programme for key milestones is shown below in Table 9.C.2.

Table 9.C.2: Construction Key Milestones (Indicative)

Phases	Construction Programme	Start Date	End Date
HERBATA DATA CAMPUS OVERALL CONSTRUCTION PROGRAMME		08/01/2024	27/03/2032
Phase 1	Enabling Works Overall Construction Programme	08/01/2024	27/07/2024
	ESB Substation Overall Construction Programme	01/06/2024	28/03/2025
	AGI Building Overall Construction Programme	01/06/2024	28/07/2025
	DC 1 Overall Construction Programme	01/06/2024	17/07/2026
	R409 Road Improvement works that include the cycle lane, pedestrian walkway to both sides of the road.	08/12/2025	17/07/2026
	DC 2 Overall Construction Programme	16/07/2025	01/09/2027
Phase 2	DC 3 Overall Construction Programme	31/08/2026	16/10/2028
	DC 5 Overall Construction Programme	15/10/2027	30/11/2029
Phase 3	Construct Secondary Construction Compound around the site and remove the existing construction carpark	05/10/2029	30/01/2030
	DC 6 Overall Construction Programme	27/11/2028	13/07/2031
	DC 4 Overall Construction Programme	11/01/2030	27/08/2032
	Site Wide Works Overall Construction Programme	01/03/2031	27/09/2032

An overview of the construction phases, including the construction activities in each phase, are detailed below.

Project Phasing

Site phasing is proposed for the construction of the data centres and ancillary buildings over 3 Phases, with individual elements constructed as summarised:

- Existing trees/hedgerows that are to be retained will be protected
- Prior to the commencement of any work, or any materials being brought on site, existing trees to be retained are to be protected with temporary fencing.
- Phase 1 includes Data Centre 1 & 2, the AGI compound, District Heating building, Admin Workshop, Water Treatment Plant, Security House and the main road network through the site.
- Phase 1 also includes Pond 1, 2, 3A & 3B and landscaping surrounding DC 1 & 2, AGI compound and planting along the boundaries of the site.
- The GIS substation located in the north of the site and partial undergrounding of EirGrid's 110 KVA overhead lines will also be completed in Phase 1.
- Phase 2 will include the construction of Data Centre 3 & 5 and the District Heating Building.
- Phase 2 also includes landscaping surrounding DC 3 & 5 and their roads. Pond 5 will also be constructed in Phase 2.
- Phase 3 will include Data Centre 4 & 6, their roads and surrounding landscaping.
- Phase 3 will also include ponds 4, 6A & 6B

The proposed construction programme is an estimated 8 years and 9 months; on the basis of a commencement date of January 2024 (subject to obtaining all necessary consents), anticipated completion date is September/October 2032.

Error! Reference source not found. illustrates the relevant construction phases of the Proposed Development.

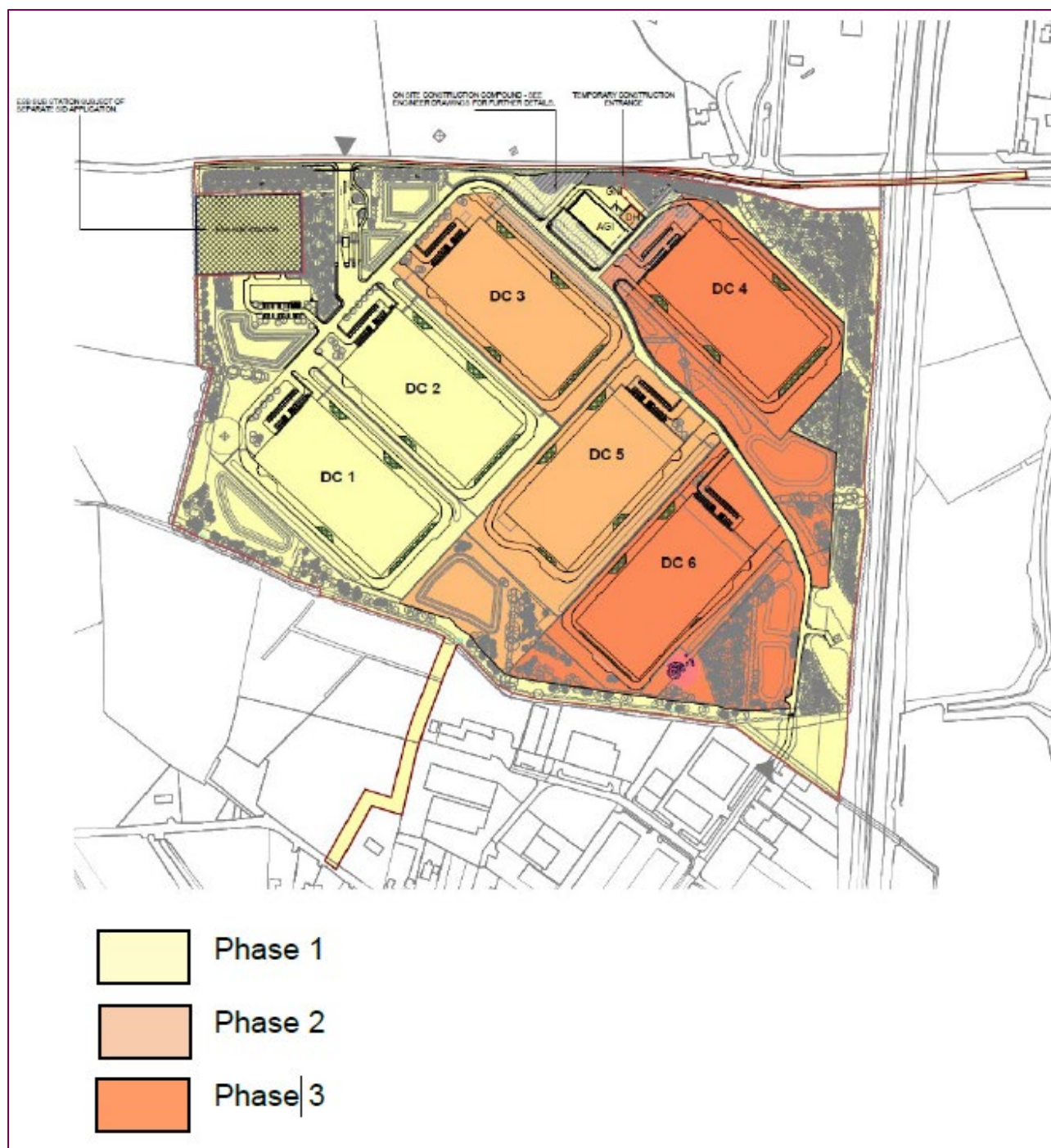


Figure 9.D. 1: Proposed Development Construction Phasing

Construction Noise Receptors and Distances

Construction Noise Receptors

The construction noise receptor locations¹ are detailed in **Error! Reference source not found.** with a list of their identification references (ID's), and location coordinates. The majority of construction noise receptors identified within the noise study area are residential properties.

A visual of noise sensitive receptors is illustrated in Volume III Figure 9.1.

For each construction stage/activity, predictions of received sound pressure level have been carried out for the closest noise-sensitive receptor only. All other receptors would be expected to experience a lower sound pressure level.

¹ (N. B. Addresses of the construction noise receptors have not been included due to General Data Protection Regulations (GDPR) and publication of personal data).

Distances for Phase 1 Construction Activity

The construction noise receptor locations and associated distances in relation to the Phase 1 construction activities are summarised in Table 9.C.3.

Table 9.C.3: Distances from Receptors to Phase 1 Site Preparation Activities

Noise Sensitive Receptor	Distance to DC1 (m)	Distance to DC2 (m)	Distance to AGI (m)
1	70	84	84
2	172	354	355
3	213	393	393
4	243	423	424
5	258	415	415
6	316	442	443
7	368	496	497
8	269	586	758
9	275	698	815
10	215	616	727
11	213	625	732
12	347	787	871
13	416	892	972
14	395	798	914
15	361	757	871
16	317	709	823
17	293	687	800
18	283	685	796
19	295	701	811
20	249	659	767

Noise Sensitive Receptor	Distance to DC1 (m)	Distance to DC2 (m)	Distance to AGI (m)
21	256	669	773
22	380	792	897
23	722	1172	1325
24	567	966	1129
25	555	941	1106
26	539	908	1075
27	571	895	1066
28	692	1007	1179
29	581	897	1069
30	436	751	924
31	623	940	1110
32	556	872	1042
33	544	848	1011
34	333	599	753
35	344	596	745
36	433	546	666
37	447	533	645
38	465	528	629
39	455	458	498
40	500	1037	1102
41	590	1124	1191
42	497	1057	1099

Table 9.C.4: Distances from Receptors to Phase 1 Construction Activities

Noise Sensitive Receptor	Distance to DC1 (m)	Distance to DC2 (m)	Distance to AGI (m)	Distance to ESB SUB (m)	Distance to Underground Services (m)	Distance to Internal Roads and Parking (m)	Distance to R409 Improvement Works(m)
1	502	370	147	443	645	227	52
2	751	625	437	780	657	559	46
3	794	668	476	815	696	595	89
4	823	697	506	845	716	625	118
5	833	702	495	817	776	600	154
6	867	734	516	812	854	604	235
7	921	788	569	860	902	655	280
8	472	489	660	299	1076	313	257
9	330	460	750	574	609	313	681
10	317	413	680	623	390	277	729
11	357	439	691	663	339	313	757
12	622	667	856	916	285	573	934
13	731	778	961	1026	373	683	1031
14	448	571	856	722	597	423	831
15	414	533	816	700	548	386	811
16	374	489	769	668	503	343	780
17	365	474	749	666	460	331	780
18	376	479	748	680	432	339	791
19	399	499	765	704	426	361	813
20	373	464	723	679	379	332	782
21	407	488	735	713	342	363	805
22	518	608	859	825	427	477	926
23	833	952	1236	894	1295	813	928
24	666	768	1036	676	1216	643	690

Noise Sensitive Receptor	Distance to DC1 (m)	Distance to DC2 (m)	Distance to AGI (m)	Distance to ESB SUB (m)	Distance to Underground Services (m)	Distance to Internal Roads and Parking (m)	Distance to R409 Improvement Works(m)
25	651	748	1011	649	1214	626	659
26	629	722	979	615	1206	594	620
27	658	733	968	603	1260	593	585
28	796	863	1081	720	1406	713	684
29	686	751	971	609	1298	602	578
30	561	614	825	465	1179	458	431
31	817	849	1013	657	1431	675	610
32	759	786	945	590	1371	610	543
33	796	801	917	582	1393	620	530
34	615	598	664	371	1188	432	318
35	628	604	659	382	1194	438	330
36	694	625	597	460	1188	473	423
37	704	627	581	475	1179	470	438
38	721	636	571	493	1175	476	456
39	742	627	477	542	1075	461	447
40	922	954	1103	1208	497	873	1143
41	996	1034	1191	1287	585	948	1232
42	1025	1028	1118	1283	535	973	1087

Distances for Phase 2 Construction Activities

The construction noise receptor locations and associated distances in relation to the Phase 2 construction activities are summarised in Table 9.C.5.

Table 9.C.5: Distances from Receptors to Phase 2 Construction Activities

Noise Sensitive Receptor	Distance to DC3 (m)	Distance to DC5 (m)
1	238	313
2	505	500
3	546	543
4	576	571
5	575	598
6	603	645
7	657	699
8	539	712
9	593	506
10	528	391
11	545	389
12	738	545
13	846	653
14	699	592
15	660	546
16	613	496
17	595	467
18	596	459
19	614	471
20	575	425
21	591	429
22	714	552
23	1076	1094
24	880	945

Noise Sensitive Receptor	Distance to DC3 (m)	Distance to DC5 (m)
25	857	931
26	827	910
27	824	937
28	945	1073
29	833	961
30	690	830
31	901	1071
32	834	1008
33	827	1024
34	599	813
35	603	818
36	576	798
37	568	788
38	567	785
39	518	702
40	1006	809
41	1090	894
42	1050	860

Distances for Phase 3 Construction Activities

The construction noise receptor locations and associated distances in relation to the Phase 3 construction activities are summarised in Table 9.C.6.

Table 9.C.6: Distances from Receptors to Phase 3 Construction Activities

Noise Sensitive Receptor	Distance to DC6 (m)	Distance to Phase DC4 (m)	Distance to external construction compound (m)
1	413	118	187
2	529	298	67
3	572	341	100
4	598	369	129
5	633	394	100
6	692	439	152
7	745	493	203
8	837	769	998
9	503	749	1011
10	353	631	894
11	336	624	887
12	425	727	970
13	528	824	1060
14	561	835	1095
15	514	789	1050
16	463	738	1000
17	431	709	971
18	419	699	962
19	426	710	973
20	377	663	926
21	364	660	923
22	480	781	1043
23	1146	1289	1560

Noise Sensitive Receptor	Distance to DC6 (m)	Distance to Phase DC4 (m)	Distance to external construction compound (m)
24	1023	1107	1372
25	1014	1086	1349
26	998	1057	1319
27	1037	1058	1310
28	1177	1179	1423
29	1067	1068	1313
30	942	924	1167
31	1192	1127	1342
32	1131	1060	1274
33	1154	1040	1222
34	948	792	949
35	954	788	933
36	937	728	791
37	927	707	757
38	922	690	726
39	829	553	519
40	675	945	1156
41	761	1034	1246
42	722	938	1100

Construction Noise Predictions

The noise sources associated with construction activities have been identified for each construction phase and are detailed in Table 9.C.7. The assumed construction plant shown is generally representative of the type of plant that will be in use for the construction phase of the Proposed Scheme. The sound pressure level at 10m is shown for each item,

Table 9.C.7: Construction Plant Noise Levels (REF: BS 5228:2009+A1:2014)

Construction Activity	Plant	Reference from Annex C & D BS5228	Sound Pressure Level at 10m dB(A)
Site Establishment and Clearance	Chainsaws for vegetation clearance	D.2.14	86
	Breaker on Wheeled Backhoe	C.1.2	92
	Pneumatic Breaker	C.5.6	95
	Rock Breaker	C.9.12	93
	Excavator	C.2.3	80
	Tipper Truck	C.2.30	85
	Dozer	C.2.1	79
	Tractor and Trailer	C.4.75	93
	Dump Truck	C.4.5	63
	Water Pump	C.4.88	68
Foundations	Rotary Bore Piling	C.3.14	83
	Concrete Pump	C.3.25	78
	Tracked excavator (inserting cylindrical metal cage)	C.3.24	78
	Cement Poker Vibrator	C.4.33	78
Building Construction	Tower Crane	C.4.48	76
	Lorry	D.3.59	87
	Diesel Generator (Welding)	C.4.85	66
	Diesel Generator (Lighting)	C.4.86	65
	Angle Grinder	C.4.93	80
	Nail Gun	C.4.95	73
	Circular Saw	C.4.73	84
Landscaping	Dozer	C.2.1	77
	Dump Truck	C.4.4	63
	Excavator	C.2.3	75
	Compactor	C.5.25	75

The construction noise predictions are based on the following assumptions:

- Full power operation of each construction activity throughout the daytime period;
- Ground absorption, barrier effects and atmospheric absorption are ignored;
- Construction plant is assumed to be operational at closest point to the closest receptors;

Cumulative sound pressure level during each construction activity has been predicted, based on the distance between the closest point of the construction phase boundary and the nearest receptor. The cumulative sound pressure level has been derived by logarithmically adding the contribution from each of the noise sources identified. As details of construction methodology will not be available until after a contractor has been appointed the number of items of plant and effect of combinations of activities is unknown. As such, it is assumed that only one item of each is operational simultaneously during each activity, operating for 100% of the assessment period.

Predicted Construction Noise Impacts

Predicted Noise Effects Phase 1 Construction Activities

Predicted noise levels due to each activity within Phase 1 are presented in the following tables. The predicted sound pressure levels illustrate the worst-case predicted levels from the various construction activities. These worst-case predicted noise levels assume a level of simultaneous activity of plant/equipment close to the receptor. This is unlikely to occur in practice but the predictions present potential worst-case noise levels that may occur during the construction phase.

A list of all prediction results tables is shown below for reference:

Phase 1

Table 9.C.8: Predicted Noise Levels of Construction Phase 1 at Closest Receptor (Assumes 1 of Each Item of Plant)

Phase 2

Table 9.C.9: Predicted Noise Levels of Construction Phase 2 at Closest Receptor (Assumes 1 of Each Item of Plant)

Phase 3

Table 9.C.10: Predicted Noise Levels of Construction Phase 3 at Closest Receptor (Assumes 1 of Each Item of Plant)

Table 9.C.8: Predicted Noise Levels of Construction Phase 1 at Closest Receptor (Assumes 1 of Each Item of Plant)

Description of Activity	Closest Receptor	Item Of Plant	Distance Attenuation, dB	Sound Pressure Level @ 10m, dB L _{Aeq, T}		Predicted Sound Pressure Level at Receptor, dB L _{Aeq, T}		Predicted Cumulative Sound Pressure Level at Receptor, dB L _{Aeq, T}	
				100% Utilisation	50% Utilisation	100 % Utilisation	50 % Utilisation	100 % Utilisation	50 % Utilisation
Site Clearance and Preparation	1	Chainsaws for vegetation clearance	17	86	83	69	66	83	80
		Breaker on Wheeled Backhoe		92	89	75	89		
		Pneumatic Breaker		95	92	78	92		
		Rock Breaker		93	90	76	90		
		17T Excavator		80	77	63	77		
		Tipper Truck		85	82	68	82		
		Dozer		79	76	62	76		
		Tractor and Trailer		93	90	76	90		
		Dumper		63	60	46	60		
Construction of DC1	10	Rotary Bore Piling	30	83	80	53	50	61	58
		Concrete Pump		78	75	48	45		
		Tracked excavator (inserting cylindrical metal cage)		78	75	48	45		
		Cement Poker Vibrator		78	75	48	45		
		Tower Crane		76	73	46	43		
		Lorry		87	84	57	54		
		Diesel Generator (Welding)		66	63	36	33		
		Diesel Generator (Lighting)		65	62	35	32		
		Angle Grinder		80	77	50	47		
		Nail Gun		73	70	43	40		
		Circular Saw		84	81	54	51		

Description of Activity	Closest Receptor	Item Of Plant	Distance Attenuation, dB	Sound Pressure Level @ 10m, dB L _{Aeq, T}		Predicted Sound Pressure Level at Receptor, dB L _{Aeq, T}		Predicted Cumulative Sound Pressure Level at Receptor, dB L _{Aeq, T}	
				100%	50%	100 %	50 %	100 %	50 %
				Utilisation	Utilisation	Utilisation	Utilisation	Utilisation	Utilisation
Construction of DC2	1	Rotary Bore Piling	31	83	80	52	49	60	57
		Concrete Pump		78	75	47	44		
		Tracked excavator (inserting cylindrical metal cage)		78	75	47	44		
		Cement Poker Vibrator		78	75	47	44		
		Tower Crane		76	73	45	42		
		Lorry		87	84	56	53		
		Diesel Generator (Welding)		66	63	35	32		
		Diesel Generator (Lighting)		65	62	34	31		
		Angle Grinder		80	77	49	46		
		Nail Gun		73	70	42	39		
		Circular Saw		84	81	53	50		
Construct AGI	1	Rotary Bore Piling	23	83	80	60	57	68	65
		Concrete Pump		78	75	55	52		
		Tracked excavator (inserting cylindrical metal cage)		78	75	55	52		
		Cement Poker Vibrator		78	75	55	52		
		Tower Crane		76	73	53	50		
		Lorry		87	84	64	61		
		Diesel Generator (Welding)		66	63	43	40		
		Diesel Generator (Lighting)		65	62	42	39		
		Angle Grinder		80	77	57	54		
		Nail Gun		73	70	50	47		
		Circular Saw		84	81	61	58		

Description of Activity	Closest Receptor	Item Of Plant	Distance Attenuation, dB	Sound Pressure Level @ 10m, dB L _{Aeq, T}		Predicted Sound Pressure Level at Receptor, dB L _{Aeq, T}		Predicted Cumulative Sound Pressure Level at Receptor, dB L _{Aeq, T}	
				100%	50%	100 %	50 %	100 %	50 %
				Utilisation	Utilisation	Utilisation	Utilisation	Utilisation	Utilisation
Construct ESB SUB	8	Rotary Bore Piling	30	83	80	53	50	61	58
		Concrete Pump		78	75	48	45		
		Tracked excavator (inserting cylindrical metal cage)		78	75	48	45		
		Cement Poker Vibrator		78	75	48	45		
		Tower Crane		76	73	46	43		
		Lorry		87	84	57	54		
		Diesel Generator (Welding)		66	63	36	33		
		Diesel Generator (Lighting)		65	62	35	32		
		Angle Grinder		80	77	50	47		
		Nail Gun		73	70	43	40		
		Circular Saw		84	81	54	51		
Construct Underground Services	12	Rotary Bore Piling	29	83	80	54	51	62	59
		Concrete Pump		78	75	49	46		
		Tracked excavator (inserting cylindrical metal cage)		78	75	49	46		
		Cement Poker Vibrator		78	75	49	46		
		Tower Crane		76	73	47	44		
		Lorry		87	84	58	55		
		Diesel Generator (Welding)		66	63	37	34		
		Diesel Generator (Lighting)		65	62	36	33		
		Angle Grinder		80	77	51	48		
		Nail Gun		73	70	44	41		
		Circular Saw		84	81	55	52		

Description of Activity	Closest Receptor	Item Of Plant	Distance Attenuation, dB	Sound Pressure Level @ 10m, dB L _{Aeq, T}		Predicted Sound Pressure Level at Receptor, dB L _{Aeq, T}		Predicted Cumulative Sound Pressure Level at Receptor, dB L _{Aeq, T}	
				100%	50%	100 %	50 %	100 %	50 %
				Utilisation	Utilisation	Utilisation	Utilisation	Utilisation	Utilisation
Construct Internal Roads and Parking	1	Rotary Bore Piling	27	83	80	56	53	64	61
		Concrete Pump		78	75	51	48		
		Tracked excavator (inserting cylindrical metal cage)		78	75	51	48		
		Cement Poker Vibrator		78	75	51	48		
		Tower Crane		76	73	49	46		
		Lorry		87	84	60	57		
		Diesel Generator (Welding)		66	63	39	36		
		Diesel Generator (Lighting)		65	62	38	35		
		Angle Grinder		80	77	53	50		
		Nail Gun		73	70	46	43		
		Circular Saw		84	81	57	54		
R409 Improvement Works	2	Rotary Bore Piling	13	83	80	70	67	78	75
		Concrete Pump		78	75	65	62		
		Tracked excavator (inserting cylindrical metal cage)		78	75	65	62		
		Cement Poker Vibrator		78	75	65	62		
		Tower Crane		76	73	63	60		
		Lorry		87	84	74	71		
		Diesel Generator (Welding)		66	63	53	50		
		Diesel Generator (Lighting)		65	62	52	49		
		Angle Grinder		80	77	67	64		
		Nail Gun		73	70	60	57		
		Circular Saw		84	81	71	68		

Description of Activity	Closest Receptor	Item Of Plant	Distance Attenuation, dB	Sound Pressure Level @ 10m, dB L _{Aeq, T}		Predicted Sound Pressure Level at Receptor, dB L _{Aeq, T}		Predicted Cumulative Sound Pressure Level at Receptor, dB L _{Aeq, T}	
				100%	50%	100 %	50 %	100 %	50 %
				Utilisation	Utilisation	Utilisation	Utilisation	Utilisation	Utilisation

Table 9.C.9: Predicted Noise Levels of Construction Phase 2 at Closest Receptor (Assumes 1 of Each Item of Plant)

Description of Activity	Closest Receptor	Item Of Plant	Distance Attenuation, dB	Sound Pressure Level @ 10m, dB L _{Aeq, T}		Predicted Sound Pressure Level at Receptor, dB L _{Aeq, T}		Predicted Cumulative Sound Pressure Level at Receptor, dB L _{Aeq, T}	
				100%	50%	100 %	50 %	100 %	50 %
				Utilisation	Utilisation	Utilisation	Utilisation	Utilisation	Utilisation
Construction of DC3	1	Rotary Bore Piling	28	83	80	55	28	63	60
		Concrete Pump		78	75	50	28		
		Tracked excavator (inserting cylindrical metal cage)		78	75	50	28		
		Cement Poker Vibrator		78	75	50	28		
		Tower Crane		76	73	48	28		
		Lorry		87	84	59	28		
		Diesel Generator (Welding)		66	63	38	28		
		Diesel Generator (Lighting)		65	62	37	28		
		Angle Grinder		80	77	52	28		
		Nail Gun		73	70	45	28		
		Circular Saw		84	81	56	28		
	1	Rotary Bore Piling	30	83	80	53	50	61	58
		Concrete Pump		78	75	48	45		
		Tracked excavator (inserting cylindrical metal cage)		78	75	48	45		
		Cement Poker Vibrator		78	75	48	45		

Description of Activity	Closest Receptor	Item Of Plant	Distance Attenuation, dB	Sound Pressure Level @ 10m, dB L _{Aeq, T}		Predicted Sound Pressure Level at Receptor, dB L _{Aeq, T}		Predicted Cumulative Sound Pressure Level at Receptor, dB L _{Aeq, T}	
				100%	50%	100 %	50 %	100 %	50 %
				Utilisation	Utilisation	Utilisation	Utilisation	Utilisation	Utilisation
Construction of DC5		Tower Crane		76	73	46	43		
		Lorry		87	84	57	54		
		Diesel Generator (Welding)		66	63	36	33		
		Diesel Generator (Lighting)		65	62	35	32		
		Angle Grinder		80	77	50	47		
		Nail Gun		73	70	43	40		
		Circular Saw		84	81	54	51		

Table 9.C.10: Predicted Noise Levels of Construction Phase 3 at Closest Receptor (Assumes 1 of Each Item of Plant)

Description of Activity	Closest Receptor	Item Of Plant	Distance Attenuation, dB	Sound Pressure Level @ 10m, dB L _{Aeq, T}		Predicted Sound Pressure Level at Receptor, dB L _{Aeq, T}		Predicted Cumulative Sound Pressure Level at Receptor, dB L _{Aeq, T}	
				100%	50%	100 %	50 %	100 %	50 %
				Utilisation	Utilisation	Utilisation	Utilisation	Utilisation	Utilisation
Construction of DC6	11	Rotary Bore Piling	31	83	80	52	49	60	57
		Concrete Pump		78	75	47	44		
		Tracked excavator (inserting cylindrical metal cage)		78	75	47	44		
		Cement Poker Vibrator		78	75	47	44		
		Tower Crane		76	73	45	42		
		Lorry		87	84	56	53		
		Diesel Generator (Welding)		66	63	35	32		
		Diesel Generator (Lighting)		65	62	34	31		
		Angle Grinder		80	77	49	46		
		Nail Gun		73	70	42	39		

Description of Activity	Closest Receptor	Item Of Plant	Distance Attenuation, dB	Sound Pressure Level @ 10m, dB L _{Aeq, T}		Predicted Sound Pressure Level at Receptor, dB L _{Aeq, T}		Predicted Cumulative Sound Pressure Level at Receptor, dB L _{Aeq, T}	
				100%	50%	100 %	50 %	100 %	50 %
				Utilisation	Utilisation	Utilisation	Utilisation	Utilisation	Utilisation
		Circular Saw		84	81	53	50		
Construction of DC4	1	Rotary Bore Piling	21	83	80	62	59	70	67
		Concrete Pump		78	75	57	54		
		Tracked excavator (inserting cylindrical metal cage)		78	75	57	54		
		Cement Poker Vibrator		78	75	57	54		
		Tower Crane		76	73	55	52		
		Lorry		87	84	66	63		
		Diesel Generator (Welding)		66	63	45	42		
		Diesel Generator (Lighting)		65	62	44	41		
		Angle Grinder		80	77	59	56		
		Nail Gun		73	70	52	49		
		Circular Saw		84	81	63	60		
		Dozer		77	74	60	57	64	61
Complete Site Wide Works	1	Dump Truck	17	63	60	46	43		
		Excavator		75	72	58	55		
		Compactor		75	72	58	55		