

Job Number: JAK 5201  
 Client: AWE HydruS  
 Site: Aldermaston  
 Date: 03/11/09  
 Consultant: DC  
 QA: RM  
 Receptor ID: NSR1  
 Address: The Manor House  
 Height of receptor: 1.5  
 Façade correction at NSR: 3  
 Survey Period: Day  
 Ambient Noise Level at NSR (dB): 49  
 Background Noise Level at NSR (dB): 38

**Assumptions**  
 estimated average distance between source and receiver used  
 all works undertaken at ground level  
 No solid site hoarding

Construction Programme: Weekdays & Saturday Mornings DAYTIME ONLY		DEFRA Plant List														Total						
Input 4		Input 5														L <sub>Aeq,12h</sub>						
ID	Description	ID	Item	Source	Equipment	Subtitle	Power rating kW	Equipment size, weight (mass), capacity	Source	Activity L <sub>max</sub> @ 10m	Height of source (m)	Directivity correction (dB)	Façade correction at receptor (dB)	Barrier	Distance and ground attenuation (dB)	Resultant L <sub>Aeq</sub>	Number of plant	Duration as % of 12h	Number of plant and duration correction	L <sub>Aeq,12h</sub>	Total L <sub>Aeq,12h</sub>	
1	<b>Enabling Works</b> Distance between NSR and site hoarding (m) 300 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant: 1 % Plant duration (over 12 hr period): 50%	1010	Tracked Excavator (Loading Dump Truck) - Dumping Brick Rubble	Table C.1 Ref 10 BS 5228-1:2009	Tracked Excavator (Loading Dump Truck)	Dumping Brick Rubble	228	44 t	Table C.1 Sound level data on demolition	85	1.8	0	3	0	35	53	1	50%	-3	50		
		1009	Breaker Mounted on Excavator - Breaking Up Brick Foundations	Table C.1 Ref 9 BS 5228-1:2009	Breaker Mounted on Excavator	Breaking Up Brick Foundations	121	(150) 100 kg breaker	Table C.1 Sound level data on demolition	90	1.8	0	3	0	35	58	1	50%	-3	55		
		4003	Tracked Crusher - Crushing Concrete / Rubble	Table C.1 Ref 24 BS 5228-1:2009	Tracked Crusher	Crushing Concrete / Rubble	172	4.7 t	Table C.1 Sound level data on demolition	82	1.8	0	3	0	35	50	1	50%	-3	47		
		2039	Dumper - Distribution of Materials	Table C.4 Ref 3 BS 5228-1:2009	Dumper	Distribution of Materials	81	7 t	Table C.4 Sound level data on general site activities	76	1.8	0	3	0	35	44	1	50%	-3	41		
		2039	Vibratory Roller - Rolling and Compaction	Table C.2 Ref 39 BS 5228-1:2009	Vibratory Roller	Rolling and Compaction	29	4 t	Table C.2 Sound level data on site preparation	74	0.5	0	3	0	35	42	1	50%	-3	39		
		4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 BS 5228-1:2009	Wheeled Mobile Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	35	38	1	50%	-3	35		
		4048	Tower Crane - Lifting	Table C.4 Ref 48 BS 5228-1:2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	35	44	1	50%	-3	41		
		4071	Circular Bench Saw (Petrol - Cutting Concrete Blocks) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 71 BS 5228-1:2009	Circular Bench Saw (Petrol - Cutting Concrete Blocks)	Cutting Concrete Blocks / Paving Slabs	-	-	Table C.4 Sound level data on general site activities	85	1.0	0	3	0	35	53	1	50%	-3	50		
		4076	Diesel Generator - Power for Site Cabins	Table C.4 Ref 76 BS 5228-1:2009	Diesel Generator	Power for Site Cabins	7	-	Table C.4 Sound level data on general site activities	61	1.5	0	3	0	35	29	1	50%	-3	26		
		4087	Diesel Generator - Power for Lighting	Table C.4 Ref 76 BS 5228-1:2009	Diesel Generator	Power for Lighting	8	8 kVA / 3000 rpm	Table C.4 Sound level data on general site activities	65	1.5	0	3	0	35	33	1	50%	-3	30		
4088	Water Pump (Diesel) - Pumping Water	Table C.4 Ref 68 BS 5228-1:2009	Water Pump (Diesel)	Pumping Water	10	100 kg	Table C.4 Sound level data on general site activities	68	0.5	0	3	0	35	36	1	50%	-3	33				
2	<b>De-Watering</b> Distance between NSR and site hoarding (m) 300 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant: 1 % Plant duration (over 12 hr period): 50%	3029	Tracked Mobile Crane - Cranage for Piling (lifting piles, casings, etc)	Table C.3 Ref 29 BS 5228-1:2009	Tracked Mobile Crane	Cranage for Piling (lifting piles, casings, etc)	132	55 t	Table C.3 Sound level data on piling and ancillary operations	70	2.0	0	3	0	35	38	2	20%	-4	34		
		3006	Vibratory Piling Rig - Sheet Steel Piling - Vibratory	Table C.3 Ref 8 BS 5228-1:2009	Vibratory Piling Rig	Sheet Steel Piling - Vibratory	-	-	Table C.3 Sound level data on piling and ancillary operations	88	1.8	0	3	0	35	56	2	80%	-2	58		
3	<b>Sub-structure</b> Distance between NSR and site hoarding (m) 300 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant: 1 % Plant duration (over 12 hr period): 50%	2014	Tracked Excavator - Ground Excavation / Earthworks	Table C.2 Ref 14 BS 5228-1:2009	Tracked Excavator	Ground Excavation / Earthworks	226	40 t	Table C.2 Sound level data on site preparation	79	1.8	0	3	0	35	47	1	50%	-3	44		
		1009	Breaker Mounted on Excavator - Breaking Up Brick Foundations	Table C.1 Ref 9 BS 5228-1:2009	Breaker Mounted on Excavator	Breaking Up Brick Foundations	121	(150) 100 kg breaker	Table C.1 Sound level data on demolition	90	1.8	0	3	0	35	58	1	50%	-3	55		
		4003	Dumper - Distribution of Materials	Table C.4 Ref 3 BS 5228-1:2009	Dumper	Distribution of Materials	81	7 t	Table C.4 Sound level data on general site activities	76	1.8	0	3	0	35	44	1	50%	-3	41		
		4029	Truck Mounted Concrete Pump + Boom Arm - Pumping Concrete	Table C.4 Ref 29 BS 5228-1:2009	Truck Mounted Concrete Pump + Boom Arm	Pumping Concrete	-	26 t	Table C.4 Sound level data on general site activities	80	1.8	0	3	0	35	48	1	50%	-3	45		
		4029	Hydraulic Vibratory Compactor (Tracked Excavator) - Rolling and Compaction	Table C.2 Ref 39 BS 5228-1:2009	Hydraulic Vibratory Compactor (Tracked Excavator)	Rolling and Compaction	-	-	Table C.2 Sound level data on site preparation	78	1.8	0	3	0	35	46	1	50%	-3	43		
		4033	Poker Vibrator - Concreting Other	Table C.4 Ref 53 BS 5228-1:2009	Poker Vibrator	Concreting Other	-	-	Table C.4 Sound level data on general site activities	76	0.5	0	3	0	35	46	1	50%	-3	43		
		4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 BS 5228-1:2009	Wheeled Mobile Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	35	38	1	50%	-3	35		
		4048	Tower Crane - Lifting	Table C.4 Ref 48 BS 5228-1:2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	35	44	1	50%	-3	41		
		17041	Compressor - Supplying air to power tools and for general site use	Table D.7 Ref 41 BS 5228 - Part 1: 1997	Compressor	Supplying air to power tools and for general site use	0	Above 34 m <sup>3</sup> /min	Table D.7 Sound level data on general site activities	85	0.5	0	3	0	35	53	1	50%	-3	50		
		3031	Hand-Held Welder (Welding Piles) - Welding / Cutting Steel Piles	Table C.3 Ref 31 BS 5228-1:2009	Hand-Held Welder (Welding Piles)	Welding / Cutting Steel Piles	-	-	Table C.3 Sound level data on piling and ancillary operations	73	1.8	0	3	0	35	41	1	25%	-6	35		
		3033	Generator for Welding - Welding / Cutting Steel Piles	Table C.3 Ref 33 BS 5228-1:2009	Generator for Welding	Welding / Cutting Steel Piles	6	508 kg	Table C.3 Sound level data on piling and ancillary operations	57	1.5	0	3	0	35	25	1	25%	-6	19		
		3036	Hand-held Gas Cutter - Welding / Cutting Steel Piles	Table C.3 Ref 35 BS 5228-1:2009	Hand-held Gas Cutter	Welding / Cutting Steel Piles	230	bar	Table C.3 Sound level data on piling and ancillary operations	65	1.2	0	3	0	35	33	1	50%	-3	30		
		4093	Angle Grinder (Grinding Steel) - Miscellaneous	Table C.4 Ref 63 BS 5228-1:2009	Angle Grinder (Grinding Steel)	Miscellaneous	2	4.7 kg	Table C.4 Sound level data on general site activities	80	1.2	0	3	0	35	48	1	50%	-3	45		
		4094	Petrol Generator for Hand-held Grinder - Miscellaneous	Table C.4 Ref 64 BS 5228-1:2009	Petrol Generator for Hand-held Grinder	Miscellaneous	4	105 kg	Table C.4 Sound level data on general site activities	75	1.0	0	3	0	35	43	1	50%	-3	40		
		5040	Electric Water Pump - Pumping Water	Table C.5 Ref 40 BS 5228-1:2009	Electric Water Pump	Pumping Water	15	6"	Table C.5 Sound level data on road construction works	68	0.5	0	3	0	35	36	1	50%	-3	33		
		17001	Scaffold - Dismantling scaffolding	Table D.7 Ref 1 BS 5228 - Part 1: 1997	Scaffold	Dismantling scaffolding	7	various	Table D.7 Sound level data on general site activities	80	0.5	0	3	0	35	48	1	50%	-3	45		
		4076	Diesel Generator - Power for Site Cabins	Table C.4 Ref 76 BS 5228-1:2009	Diesel Generator	Power for Site Cabins	7	-	Table C.4 Sound level data on general site activities	61	1.5	0	3	0	35	29	1	50%	-3	26		
		4087	Diesel Generator - Power for Lighting	Table C.4 Ref 76 BS 5228-1:2009	Diesel Generator	Power for Lighting	8	8 kVA / 3000 rpm	Table C.4 Sound level data on general site activities	65	1.5	0	3	0	35	33	1	50%	-3	30		
		4085	Diesel Generator - Power for Welder	Table C.4 Ref 65 BS 5228-1:2009	Diesel Generator	Power for Welder	4	18 kg	Table C.4 Sound level data on general site activities	66	1.5	0	3	0	35	34	1	50%	-3	31		
		2035	Telescopic Handler - Distribution of Material	Table C.2 Ref 35 BS 5228-1:2009	Telescopic Handler	Distribution of Material	60	10 t	Table C.2 Sound level data on site preparation	71	1.8	0	3	0	35	39	1	50%	-3	36		
4088	Water Pump (Diesel) - Pumping Water	Table C.4 Ref 68 BS 5228-1:2009	Water Pump (Diesel)	Pumping Water	10	100 kg	Table C.4 Sound level data on general site activities	68	0.5	0	3	0	35	36	1	50%	-3	33				
4	<b>Super-structure</b> Distance between NSR and site hoarding (m) 300 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant: 1 % Plant duration (over 12 hr period): 50%	3008	Vibratory Piling Rig - Sheet Steel Piling - Vibratory	Table C.3 Ref 8 BS 5228-1:2009	Vibratory Piling Rig	Sheet Steel Piling - Vibratory	-	-	Table C.3 Sound level data on piling and ancillary operations	88	1.8	0	3	0	35	56	1	50%	-3	53		
		4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 BS 5228-1:2009	Wheeled Mobile Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	35	38	1	50%	-3	35		
		4048	Tower Crane - Lifting	Table C.4 Ref 48 BS 5228-1:2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	35	44	1	50%	-3	41		
		17041	Compressor - Supplying air to power tools and for general site use	Table D.7 Ref 41 BS 5228 - Part 1: 1997	Compressor	Supplying air to power tools and for general site use	0	Above 34 m <sup>3</sup> /min	Table D.7 Sound level data on general site activities	85	0.5	0	3	0	35	53	1	50%	-3	50		
		4072	Hand-held Circular Saw (Petrol - Cutting Concrete Blocks) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 72 BS 5228-1:2009	Hand-held Circular Saw (Petrol - Cutting Concrete Blocks)	Cutting Concrete Blocks / Paving Slabs	3	9 kg	Table C.4 Sound level data on general site activities	79	1.2	0	3	0	35	47	1	50%	-3	44		
		4073	Hand-held Circular Saw (Cutting Paving Slabs) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 73 BS 5228-1:2009	Hand-held Circular Saw (Cutting Paving Slabs)	Cutting Concrete Blocks / Paving Slabs	2	14 kg / 200 mm diameter	Table C.4 Sound level data on general site activities	84	1.2	0	3	0	35	52	1	50%	-3	49		
		4093	Angle Grinder (Grinding Steel) - Miscellaneous	Table C.4 Ref 63 BS 5228-1:2009	Angle Grinder (Grinding Steel)	Miscellaneous	2	4.7 kg	Table C.4 Sound level data on general site activities	80	1.2	0	3	0	35	48	1	50%	-3	45		
		4094	Petrol Generator for Hand-held Grinder - Miscellaneous	Table C.4 Ref 64 BS 5228-1:2009	Petrol Generator for Hand-held Grinder	Miscellaneous	4	105 kg	Table C.4 Sound level data on general site activities	75	1.0	0	3	0	35	43	1	50%	-3	40		
		5040	Electric Water Pump - Pumping Water	Table C.5 Ref 40 BS 5228-1:2009	Electric Water Pump	Pumping Water	15	6"	Table C.5 Sound level data on road construction works	68	0.5	0	3	0	35	36	1	50%	-3	33		
		17001	Scaffold - Dismantling scaffolding	Table D.7 Ref 1 BS 5228 - Part 1: 1997	Scaffold	Dismantling scaffolding	7	various	Table D.7 Sound level data on general site activities	80	0.5	0	3	0	35	48	1	50%	-3	45		
5	<b>Cladding &amp; roofing</b> Distance between NSR and site hoarding (m) 300 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant: 1 % Plant duration (over 12 hr period): 50%	4057	Lifting Platform - Lifting	Table C.4 Ref 57 BS 5228-1:2009	Lifting Platform	Lifting	35	8 t	Table C.4 Sound level data on general site activities	67	1.8	0	3	0	35	35	1	50%	-3	32		
		4058	Lifting Platform (Idling) - Lifting	Table C.4 Ref 58 BS 5228-1:2009	Lifting Platform (Idling)	Lifting	35	8 t	Table C.4 Sound level data on general site activities	63	1.8	0	3	0	35	31	1	50%	-3	28		
		4076	Diesel Generator - Power for Site Cabins	Table C.4 Ref 76 BS 5228-1:2009	Diesel Generator	Power for Site Cabins	7	-	Table C.4 Sound level data on general site activities	61	1.5	0	3	0	35	29	1	25%	-6	23		
		4087	Diesel Generator - Power for Lighting	Table C.4 Ref 76 BS 5228-1:2009	Diesel Generator	Power for Lighting	8	8 kVA / 3000 rpm	Table C.4 Sound level data on general site activities	65	1.5	0	3	0	35	33	1	25%	-6	27		
		2035	Telescopic Handler - Distribution of Material	Table C.2 Ref 35 BS 5228-1:2009	Telescopic Handler	Distribution of Material	60	10 t	Table C.2 Sound level data on site preparation	71	1.8	0	3	0	35	39	1	50%	-3	36		
		4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 BS 5228-1:2009	Wheeled Mobile Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	35	38	1	50%	-3	35		
		4048	Tower Crane - Lifting	Table C.4 Ref 48 BS 5228-1:2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	35	44	1	50%	-3	41		
		4061	Caged Material Hoist (Electric) - Lifting	Table C.4 Ref 61 BS 5228-1:2009	Caged Material Hoist (Electric)	Lifting	-	500 kg	Table C.4 Sound level data on general site activities	68	1.8	0	3	0	35	36	1	50%	-3	33		
		17041	Compressor - Supplying air to power tools and for general site use	Table D.7 Ref 41 BS 5																		

Job Number: JAK 5201  
 Client: AWE HydruS  
 Site: Aldermaston  
 Date: 03/11/09  
 Consultant: DC  
 QA: RM  
 Receptor ID: NSR2  
 Address: Properties on Spring Lane  
 Height of receptor: 1.5  
 Façade correction at NSR: 3  
 Survey Period: Day  
 Ambient Noise Level at NSR (dB): 46  
 Background Noise Level at NSR (dB): 37

Assumptions  
 estimated average distance between source and receiver used  
 all works undertaken at ground level  
 No solid site hoarding

Construction Programme: Weekdays & Saturday Mornings DAYTIME ONLY		DEFRA Plant List													Total						
Input 4		Input 5													L <sub>Aeq,12h</sub>						
ID	Description	ID	Item	Source	Equipment	Subtitle	Power rating kW	Equipment size, weight (mass), capacity	Source	Activity L <sub>max</sub> @ 10m	Height of source (m)	Directivity correction (dB)	Façade correction at receptor (dB)	Barrier	Distance and ground attenuation (dB)	Resultant L <sub>Aeq</sub>	Number of plant	Duration as % of 12h	Number of plant and duration correction	L <sub>Aeq,12h</sub>	Total L <sub>Aeq,12h</sub>
1	<b>Enabling Works</b> Distance between NSR and site hoarding (m) 500 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant 1 % Plant duration (over 12 hr period): 50%	1010	Tracked Excavator (Loading Dump Truck) - Dumping Brick Rubble	Table C.1 Ref 10 BS 5228-1:2009	Tracked Excavator (Loading Dump Truck)	Dumping Brick Rubble	228	44 t	Table C.1 Sound level data on demolition	85	1.8	0	3	0	41	47	1	50%	-3	44	52
		1009	Breaker Mounted on Excavator - Breaking Up Brick Foundations	Table C.1 Ref 9 BS 5228-1:2009	Breaker Mounted on Excavator	Breaking Up Brick Foundations	121	(150) 100 kg breaker	Table C.1 Sound level data on demolition	90	1.8	0	3	0	41	52	1	50%	-3	49	
		4003	Tracked Crusher - Crushing Concrete / Rubble	Table C.1 Ref 14 BS 5228-1:2009	Tracked Crusher	Crushing Concrete / Rubble	172	4.7 t	Table C.1 Sound level data on demolition	82	1.8	0	3	0	41	44	1	50%	-3	41	
		2039	Dumper - Distribution of Materials	Table C.4 Ref 8 BS 5228-1:2009	Dumper	Distribution of Materials	81	7 t	Table C.4 Sound level data on general site activities	76	1.8	0	3	0	41	38	1	50%	-3	35	
		4043	Vibratory Roller - Rolling and Compaction	Table C.2 Ref 39 BS 5228-1:2009	Vibratory Roller	Rolling and Compaction	29	4 t	Table C.2 Sound level data on site preparation	74	0.5	0	3	0	41	36	1	50%	-3	33	
		4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 BS 5228-1:2009	Wheeled Mobile Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	41	32	1	50%	-3	29	
		4048	Tower Crane - Lifting	Table C.4 Ref 48 BS 5228-1:2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	41	38	1	50%	-3	35	
		4071	Circular Bench Saw (Petrol - Cutting Concrete Blocks) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 71 BS 5228-1:2009	Circular Bench Saw (Petrol - Cutting Concrete Blocks)	Cutting Concrete Blocks / Paving Slabs	-	-	Table C.4 Sound level data on general site activities	85	1.0	0	3	0	41	47	1	50%	-3	44	
		4076	Diesel Generator - Power for Site Cabins	Table C.4 Ref 76 BS 5228-1:2009	Diesel Generator	Power for Site Cabins	7	-	Table C.4 Sound level data on general site activities	61	1.5	0	3	0	41	23	1	50%	-3	20	
		4087	Diesel Generator - Power for Lighting	Table C.4 Ref 81 BS 5228-1:2009	Diesel Generator	Power for Lighting	8	8 kVA / 3000 rpm	Table C.4 Sound level data on general site activities	65	1.5	0	3	0	41	27	1	50%	-3	24	
2	<b>De-Watering</b> Distance between NSR and site hoarding (m) 500 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant 1 % Plant duration (over 12 hr period): 50%	3029	Tracked Mobile Crane - Cranage for Piling (lifting piles, casings, etc)	Table C.3 Ref 29 BS 5228-1:2009	Tracked Mobile Crane	Cranage for Piling (lifting piles, casings, etc)	132	55 t	Table C.3 Sound level data on piling and ancillary operations	70	2.0	0	3	0	41	32	2	20%	-4	28	52
		3006	Vibratory Piling Rig - Sheet Steel Piling - Vibratory	Table C.3 Ref 8 BS 5228-1:2009	Vibratory Piling Rig	Sheet Steel Piling - Vibratory	-	-	Table C.3 Sound level data on piling and ancillary operations	88	1.8	0	3	0	41	50	2	80%	-2	52	
		2014	Tracked Excavator - Ground Excavation / Earthworks	Table C.2 Ref 14 BS 5228-1:2009	Tracked Excavator	Ground Excavation / Earthworks	226	40 t	Table C.2 Sound level data on site preparation	79	1.8	0	3	0	41	41	1	50%	-3	38	
		1009	Breaker Mounted on Excavator - Breaking Up Brick Foundations	Table C.1 Ref 9 BS 5228-1:2009	Breaker Mounted on Excavator	Breaking Up Brick Foundations	121	(150) 100 kg breaker	Table C.1 Sound level data on demolition	90	1.8	0	3	0	41	52	1	50%	-3	49	
		4003	Dumper - Distribution of Materials	Table C.4 Ref 8 BS 5228-1:2009	Dumper	Distribution of Materials	81	7 t	Table C.4 Sound level data on general site activities	76	1.8	0	3	0	41	38	1	50%	-3	35	
		4029	Truck Mounted Concrete Pump + Boom Arm - Pumping Concrete	Table C.4 Ref 29 BS 5228-1:2009	Truck Mounted Concrete Pump + Boom Arm	Pumping Concrete	-	26 t	Table C.4 Sound level data on general site activities	80	1.8	0	3	0	41	42	1	50%	-3	39	
		4029	Hydraulic Vibratory Compactor (Tracked Excavator) - Rolling and Compaction	Table C.2 Ref 39 BS 5228-1:2009	Hydraulic Vibratory Compactor (Tracked Excavator)	Rolling and Compaction	-	-	Table C.2 Sound level data on site preparation	78	1.8	0	3	0	41	40	1	50%	-3	37	
		4033	Poker Vibrator - Concreting Other	Table C.4 Ref 53 BS 5228-1:2009	Poker Vibrator	Concreting Other	-	-	Table C.4 Sound level data on general site activities	76	0.5	0	3	0	41	40	1	50%	-3	37	
		4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 BS 5228-1:2009	Wheeled Mobile Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	41	32	1	50%	-3	29	
		4048	Tower Crane - Lifting	Table C.4 Ref 48 BS 5228-1:2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	41	38	1	50%	-3	35	
3	<b>Sub-structure</b> Distance between NSR and site hoarding (m) 500 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant 1 % Plant duration (over 12 hr period): 50%	17041	Compressor - Supplying air to power tools and for general site use	Table D.7 Ref 41 BS 5228 - Part 1: 1997	Compressor	Supplying air to power tools and for general site use	0	Above 34 m <sup>3</sup> /min	Table D.7 Sound level data on general site activities	85	0.5	0	3	0	41	47	1	50%	-3	44	53
		3031	Hand-Held Welder (Welding Piles) - Welding / Cutting Steel Piles	Table C.3 Ref 31 BS 5228-1:2009	Hand-Held Welder (Welding Piles)	Welding / Cutting Steel Piles	-	-	Table C.3 Sound level data on piling and ancillary operations	73	1.8	0	3	0	41	35	1	25%	-6	29	
		3033	Generator for Welding - Welding / Cutting Steel Piles	Table C.3 Ref 33 BS 5228-1:2009	Generator for Welding	Welding / Cutting Steel Piles	6	508 kg	Table C.3 Sound level data on piling and ancillary operations	57	1.5	0	3	0	41	19	1	25%	-6	13	
		3036	Hand-held Gas Cutter - Welding / Cutting Steel Piles	Table C.3 Ref 35 BS 5228-1:2009	Hand-held Gas Cutter	Welding / Cutting Steel Piles	-	230 bar	Table C.3 Sound level data on piling and ancillary operations	65	1.2	0	3	0	41	27	1	50%	-3	24	
		4093	Angle Grinder (Grinding Steel) - Miscellaneous	Table C.4 Ref 63 BS 5228-1:2009	Angle Grinder (Grinding Steel)	Miscellaneous	2	4.7 kg	Table C.4 Sound level data on general site activities	80	1.2	0	3	0	41	42	1	50%	-3	39	
		4094	Petrol Generator for Hand-held Grinder - Miscellaneous	Table C.4 Ref 64 BS 5228-1:2009	Petrol Generator for Hand-held Grinder	Miscellaneous	4	105 kg	Table C.4 Sound level data on general site activities	75	1.0	0	3	0	41	37	1	50%	-3	34	
		5040	Electric Water Pump - Pumping Water	Table C.5 Ref 40 BS 5228-1:2009	Electric Water Pump	Pumping Water	15	6"	Table C.5 Sound level data on road construction works	68	0.5	0	3	0	41	30	1	50%	-3	27	
		17001	Scaffold - Dismantling scaffolding	Table D.7 Ref 18 BS 5228 - Part 1: 1997	Scaffold	Dismantling scaffolding	-	various	Table D.7 Sound level data on general site activities	80	0.5	0	3	0	41	42	1	50%	-3	39	
		4076	Diesel Generator - Power for Site Cabins	Table C.4 Ref 76 BS 5228-1:2009	Diesel Generator	Power for Site Cabins	7	-	Table C.4 Sound level data on general site activities	61	1.5	0	3	0	41	23	1	50%	-3	20	
		4087	Diesel Generator - Power for Lighting	Table C.4 Ref 81 BS 5228-1:2009	Diesel Generator	Power for Lighting	8	8 kVA / 3000 rpm	Table C.4 Sound level data on general site activities	65	1.5	0	3	0	41	27	1	50%	-3	24	
4	<b>Super-structure</b> Distance between NSR and site hoarding (m) 500 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant 1 % Plant duration (over 12 hr period): 50%	4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 BS 5228-1:2009	Wheeled Mobile Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	41	32	1	50%	-3	29	49
		4048	Tower Crane - Lifting	Table C.4 Ref 48 BS 5228-1:2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	41	38	1	50%	-3	35	
		17041	Compressor - Supplying air to power tools and for general site use	Table D.7 Ref 41 BS 5228 - Part 1: 1997	Compressor	Supplying air to power tools and for general site use	0	Above 34 m <sup>3</sup> /min	Table D.7 Sound level data on general site activities	85	0.5	0	3	0	41	47	1	50%	-3	44	
		4072	Hand-held Circular Saw (Petrol - Cutting Concrete Blocks) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 72 BS 5228-1:2009	Hand-held Circular Saw (Petrol - Cutting Concrete Blocks)	Cutting Concrete Blocks / Paving Slabs	3	9 kg	Table C.4 Sound level data on general site activities	79	1.2	0	3	0	41	41	1	50%	-3	38	
		4073	Hand-held Circular Saw (Cutting Paving Slabs) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 73 BS 5228-1:2009	Hand-held Circular Saw (Cutting Paving Slabs)	Cutting Concrete Blocks / Paving Slabs	2	11 kg / 200 mm diameter	Table C.4 Sound level data on general site activities	84	1.2	0	3	0	41	46	1	50%	-3	43	
		4093	Angle Grinder (Grinding Steel) - Miscellaneous	Table C.4 Ref 63 BS 5228-1:2009	Angle Grinder (Grinding Steel)	Miscellaneous	2	4.7 kg	Table C.4 Sound level data on general site activities	80	1.2	0	3	0	41	42	1	50%	-3	39	
		4094	Petrol Generator for Hand-held Grinder - Miscellaneous	Table C.4 Ref 64 BS 5228-1:2009	Petrol Generator for Hand-held Grinder	Miscellaneous	4	105 kg	Table C.4 Sound level data on general site activities	75	1.0	0	3	0	41	37	1	50%	-3	34	
		5040	Electric Water Pump - Pumping Water	Table C.5 Ref 40 BS 5228-1:2009	Electric Water Pump	Pumping Water	15	6"	Table C.5 Sound level data on road construction works	68	0.5	0	3	0	41	30	1	50%	-3	27	
		17001	Scaffold - Dismantling scaffolding	Table D.7 Ref 18 BS 5228 - Part 1: 1997	Scaffold	Dismantling scaffolding	-	various	Table D.7 Sound level data on general site activities	80	0.5	0	3	0	41	42	1	50%	-3	39	
		4057	Lifting Platform - Lifting	Table C.4 Ref 57 BS 5228-1:2009	Lifting Platform	Lifting	35	8 t	Table C.4 Sound level data on general site activities	67	1.8	0	3	0	41	29	1	50%	-3	26	
5	<b>Cladding &amp; roofing</b> Distance between NSR and site hoarding (m) 500 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant 1 % Plant duration (over 12 hr period): 50%	4058	Lifting Platform (Idling) - Lifting	Table C.4 Ref 58 BS 5228-1:2009	Lifting Platform (Idling)	Lifting	35	8 t	Table C.4 Sound level data on general site activities	63	1.8	0	3	0	41	25	1	50%	-3	22	49
		4076	Diesel Generator - Power for Site Cabins	Table C.4 Ref 76 BS 5228-1:2009	Diesel Generator	Power for Site Cabins	7	-	Table C.4 Sound level data on general site activities	61	1.5	0	3	0	41	23	1	25%	-6	17	
		4087	Diesel Generator - Power for Lighting	Table C.4 Ref 81 BS 5228-1:2009	Diesel Generator	Power for Lighting	8	8 kVA / 3000 rpm	Table C.4 Sound level data on general site activities	65	1.5	0	3	0	41	27	1	25%	-6	21	
		2035	Telescopic Handler - Distribution of Material	Table C.2 Ref 35 BS 5228-1:2009	Telescopic Handler	Distribution of Material	60	10 t	Table C.2 Sound level data on site preparation	71	1.8	0	3	0	41	33	1	50%	-3	30	
		4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 BS 5228-1:2009	Wheeled Mobile Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	41	32	1	50%	-3	29	
		4048	Tower Crane - Lifting	Table C.4 Ref 48 BS 5228-1:2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	41	38	1	50%	-3	35	
		4061	Caged Material Hoist (Electric) - Lifting	Table C.4 Ref 61 BS 5228-1:2009	Caged Material Hoist (Electric)	Lifting	-	500 kg	Table C.4 Sound level data on general site activities	68	1.8	0	3	0	41	30	1	50%	-3	27	
		17041	Compressor - Supplying air to power tools and for general site use	Table D.7 Ref 41 BS 5228 - Part 1: 1997	Compressor	Supplying air to power tools and for general site use	0	Above 34 m <sup>3</sup> /min	Table D.7 Sound level data on general site activities	85	0.5	0	3	0	41	47	1	50%	-3	44	
		4072	Hand-held Circular Saw (Petrol - Cutting Concrete Blocks) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 72 BS 5228-1:2009	Hand-held Circular Saw (Petrol - Cutting Concrete Blocks)	Cutting Concrete Blocks / Paving Slabs	3	9 kg	Table C.4 Sound level data on general site activities	79	1.2	0	3	0	41	41	1	50%	-3	38	
		4073	Hand-held Circular Saw (Cutting Paving Slabs) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 73 BS 5228-1:2009	Hand-held Circular Saw (Cutting Paving Slabs)	Cutting Concrete Blocks / Paving Slabs	2	11 kg / 200 mm diameter	Table C.4 Sound level data on general site activities	84	1.2	0	3	0	41	46	1	50%	-3	43	
6	<b>Fit-out</b> Distance between NSR and site hoarding (m) 500 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant 1 % Plant duration (over 12 hr period): 50%	4093	Angle Grinder (Grinding Steel) - Miscellaneous	Table C.4 Ref 63 BS 5228-1:2009	Angle Grinder (Grinding Steel)	Miscellaneous	2	4.7 kg	Table C.4 Sound level data on general site activities	80	1.2	0	3	0	41	42	1	50%	-3	39	54
		4094	Petrol Generator for Hand-held Grinder - Miscellaneous	Table C.4 Ref 64 BS 5228-1:2009	Petrol Generator for Hand-held Grinder	Miscellaneous	4	105 kg	Table C.4 Sound level data on general site activities	75	1.0	0	3	0	41	37	1	50%	-3	34	
		4095	Handheld Cordless Nail Gun - Miscellaneous	Table C.4 Ref 65 BS 5228-1:2009	Handheld Cordless Nail Gun	Miscellaneous	-	15 to 50 mm nails	Table C.4 Sound level data on general site activities	73	1.2	0	3	0	41	35	1	50%	-3	32	
		5040	Electric Water Pump - Pumping Water	Table C.5 Ref 40 BS 5228-1:2009	Electric Water Pump	Pumping Water	15	6"	Table C.5 Sound												

Job Number: JAK 5201  
 Client: AWE Hydus  
 Site: Aldermaston  
 Date: 03/11/09  
 Consultant: DG  
 QA: RM

Receptor ID: NR93  
 Address: Properties on Rag Hill  
 Height of receptor: 1.5  
 Façade correction at NSR: 0

Survey Period: Day  
 Ambient Noise Level at NSR (dB): 46  
 Background Noise Level at NSR (dB): 35

**Assumptions**  
 estimated average distance between source and receiver used  
 all works undertaken at ground level  
 No solid site hoarding

Construction Programme: Weekdays & Saturday Mornings DAYTIME ONLY		DEFRA Plant List		Input 5																		
ID	Description	ID	Item	Source	Equipment	Subtitle	Power rating kW	Equipment size, weight (max), capacity	Source	Activity L <sub>max</sub> @ 10m	Height of source (m)	Directivity correction (dB)	Façade correction at receptor (dB)	Barrier correction	Distance and ground attenuation (dB)	Resultant L <sub>max</sub>	Number of plant	Duration as % of 12h	Number of plant and duration correction	L <sub>max</sub> 12h	Total L <sub>max</sub> 12h	
1	<b>Enabling Works</b> Distance between NSR and site hoarding (m): 850 Site hoarding height (m): 0.0 % Soft ground: 100% Additional source height (m): 0 Directivity correction (dB): 0 Number of plant: 1 % Plant duration (over 12 hr period): 50%	1010	Tracked Excavator (Loading Dump Truck) - Dumping Brick Rubble	Table C.1 Ref 10 85 5228 - 2009	Tracked Excavator (Loading Dump Truck)	Dumping Brick Rubble	228	44 t	Table C.1 Sound level data on demolition	85	1.8	0	3	0	46	42	1	50%	-3	39		
		1009	Breaker Mounted on Excavator - Breaking Up Brick Foundations	Table C.1 Ref 9 85 5228 - 2009	Breaker Mounted on Excavator	Breaking Up Brick Foundations	121	115 kg	Table C.1 Sound level data on demolition	90	1.8	0	3	0	46	47	1	50%	-3	44		
		1914	Tracked Crusher - Crushing Concrete / Rubble	Table C.1 Ref 14 85 5228 - 2009	Tracked Crusher	Crushing Concrete / Rubble	172	47 t	Table C.1 Sound level data on demolition	82	1.8	0	3	0	46	39	1	50%	-3	36		
		4003	Dumper - Distribution of Materials	Table C.4 Ref 3 85 5228 - 2009	Dumper	Distribution of Materials	81	7 t	Table C.4 Sound level data on general site activities	76	1.8	0	3	0	46	33	1	50%	-3	30		
		2028	Vibratory Roller - Rolling and Compaction	Table C.2 Ref 39 85 5228 - 2009	Vibratory Roller	Rolling and Compaction	29	4 t	Table C.2 Sound level data on site preparation	74	0.5	0	3	0	46	31	1	50%	-3	28		
		4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 85 5228 - 2009	Wheeled Mobile Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	46	27	1	50%	-3	24		
		4048	Tower Crane - Lifting	Table C.4 Ref 48 85 5228 - 2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	46	33	1	50%	-3	30		
		4071	Cutting Concrete Saw (Phased) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 71 85 5228 - 2009	Cutting Concrete Saw (Phased) - Cutting Concrete Blocks / Paving Slabs	Cutting Concrete Blocks / Paving Slabs	7	-	Table C.4 Sound level data on general site activities	85	1.0	0	3	0	46	42	1	50%	-3	39		
		4076	Diesel Generator - Power for Site Cabins	Table C.4 Ref 76 85 5228 - 2009	Diesel Generator	Power for Site Cabins	7	-	Table C.4 Sound level data on general site activities	61	1.5	0	3	0	46	18	1	50%	-3	15		
		4087	Diesel Generator - Power for Lighting	Table C.4 Ref 87 85 5228 - 2009	Diesel Generator	Power for Lighting	8	9 kVA / 3000 rpm	Table C.4 Sound level data on general site activities	65	1.5	0	3	0	46	22	1	50%	-3	19		
4088	Water Pump (Diesel) - Pumping Water	Table C.4 Ref 88 85 5228 - 2009	Water Pump (Diesel)	Pumping Water	10	100 kg	Table C.4 Sound level data on general site activities	68	0.5	0	3	0	46	25	1	50%	-3	22				
2	<b>De-Watering</b> Distance between NSR and site hoarding (m): 850 Site hoarding height (m): 0.0 % Soft ground: 100% Additional source height (m): 0 Directivity correction (dB): 0 Number of plant: 1 % Plant duration (over 12 hr period): 50%	3029	Tracked Mobile Crane - Craneage for Piling (lifting piles, castings, etc)	Table C.3 Ref 29 85 5228 - 2009	Tracked Mobile Crane	Craneage for Piling (lifting piles, castings, etc)	132	55 t	Table C.3 Sound level data on piling and ancillary operations	70	2.0	0	3	0	46	27	2	20%	-4	23		
		3008	Vibratory Piling Rig - Sheet Steel Piling - Vibratory	Table C.3 Ref 8 85 5228 - 2009	Vibratory Piling Rig	Sheet Steel Piling - Vibratory	132	-	Table C.3 Sound level data on piling and ancillary operations	88	1.8	0	3	0	46	45	2	80%	-2	47		
		4028	Truck Mounted Concrete Pump + Boom Arm - Pumping Concrete	Table C.4 Ref 39 85 5228 - 2009	Truck Mounted Concrete Pump + Boom Arm	Pumping Concrete	261	-	Table C.4 Sound level data on general site activities	80	1.8	0	3	0	46	37	1	50%	-3	34		
		2043	Hydraulic Vibratory Compactor (Tracked Excavator) - Rolling and Compaction	Table C.2 Ref 42 85 5228 - 2009	Hydraulic Vibratory Compactor (Tracked Excavator)	Rolling and Compaction	-	-	Table C.2 Sound level data on site preparation	78	1.8	0	3	0	46	35	1	50%	-3	32		
		4033	Poker Vibrator - Concreting Other	Table C.4 Ref 33 85 5228 - 2009	Poker Vibrator	Concreting Other	7	-	Table C.4 Sound level data on general site activities	78	0.5	0	3	0	46	35	1	50%	-3	32		
		4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 85 5228 - 2009	Wheeled Mobile Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	46	27	1	50%	-3	24		
		4048	Tower Crane - Lifting	Table C.4 Ref 48 85 5228 - 2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	46	33	1	50%	-3	30		
		17041	Compressor - Supplying air to power tools and for general site use	Table D.1 Ref 1 85 5228 - Part 1 1997	Compressor	Supplying air to power tools and for general site use	0	At least 34 m³/min	Table D.1 Sound level data on general site activities	85	0.5	0	3	0	46	42	1	50%	-3	39		
		3031	Hand-Held Welder (Welding Piles) - Welding / Cutting Steel Piles	Table C.4 Ref 31 85 5228 - 2009	Hand-Held Welder (Welding Piles)	Welding / Cutting Steel Piles	7	-	Table C.4 Sound level data on piling and ancillary operations	73	1.8	0	3	0	46	30	1	25%	-6	24		
		3035	Generator for Welding - Welding / Cutting Steel Piles	Table C.4 Ref 33 85 5228 - 2009	Generator for Welding	Welding / Cutting Steel Piles	6	508 kg	Table C.4 Sound level data on piling and ancillary operations	57	1.5	0	3	0	46	14	1	25%	-6	8		
3	<b>Sub-structure</b> Distance between NSR and site hoarding (m): 850 Site hoarding height (m): 0.0 % Soft ground: 100% Additional source height (m): 0 Directivity correction (dB): 0 Number of plant: 1 % Plant duration (over 12 hr period): 50%	3035	Hand-held Gas Cutter - Welding / Cutting Steel Piles	Table C.4 Ref 35 85 5228 - 2009	Hand-held Gas Cutter	Welding / Cutting Steel Piles	-	230 bar	Table C.4 Sound level data on piling and ancillary operations	65	1.2	0	3	0	46	22	1	50%	-3	19		
		4093	Angle Grinder (Grinding Steel) - Miscellaneous	Table C.4 Ref 93 85 5228 - 2009	Angle Grinder (Grinding Steel)	Miscellaneous	2	4.7 kg	Table C.4 Sound level data on general site activities	80	1.2	0	3	0	46	37	1	50%	-3	34		
		4094	Angle Grinder (Grinding Steel) - Miscellaneous	Table C.4 Ref 94 85 5228 - 2009	Angle Grinder (Grinding Steel)	Miscellaneous	4	105 kg	Table C.4 Sound level data on general site activities	75	1.0	0	3	0	46	32	1	50%	-3	29		
		5040	Electric Water Pump - Pumping Water	Table C.5 Ref 40 85 5228 - 2009	Electric Water Pump	Pumping Water	15	6"	Table C.5 Sound level data on road construction works	68	0.5	0	3	0	46	25	1	50%	-3	22		
		17001	Scaffold - Dismantling scaffolding	Table D.1 Ref 1 85 5228 - Part 1 1997	Scaffold	Dismantling scaffolding	-	various	Table D.1 Sound level data on general site activities	80	0.5	0	3	0	46	37	1	50%	-3	34		
		4076	Diesel Generator - Power for Site Cabins	Table C.4 Ref 76 85 5228 - 2009	Diesel Generator	Power for Site Cabins	7	-	Table C.4 Sound level data on general site activities	61	1.5	0	3	0	46	18	1	50%	-3	15		
		4087	Diesel Generator - Power for Lighting	Table C.4 Ref 87 85 5228 - 2009	Diesel Generator	Power for Lighting	8	9 kVA / 3000 rpm	Table C.4 Sound level data on general site activities	65	1.5	0	3	0	46	22	1	50%	-3	19		
		4088	Diesel Generator - Power for Water	Table C.4 Ref 88 85 5228 - 2009	Diesel Generator	Power for Water	4	18 kg	Table C.4 Sound level data on general site activities	68	1.5	0	3	0	46	23	1	50%	-3	20		
		2035	Telescopic Handler - Distribution of Material	Table C.2 Ref 38 85 5228 - 2009	Telescopic Handler	Distribution of Material	60	10 t	Table C.2 Sound level data on site preparation	71	1.8	0	3	0	46	28	1	50%	-3	25		
		4088	Water Pump (Diesel) - Pumping Water	Table C.4 Ref 88 85 5228 - 2009	Water Pump (Diesel)	Pumping Water	10	100 kg	Table C.4 Sound level data on general site activities	68	0.5	0	3	0	46	25	1	50%	-3	22		
4	<b>Super-structure</b> Distance between NSR and site hoarding (m): 850 Site hoarding height (m): 0.0 % Soft ground: 100% Additional source height (m): 0 Directivity correction (dB): 0 Number of plant: 1 % Plant duration (over 12 hr period): 50%	3008	Vibratory Piling Rig - Sheet Steel Piling - Vibratory	Table C.3 Ref 8 85 5228 - 2009	Vibratory Piling Rig	Sheet Steel Piling - Vibratory	132	-	Table C.3 Sound level data on piling and ancillary operations	88	1.8	0	3	0	46	45	1	50%	-3	42		
		4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 85 5228 - 2009	Wheeled Mobile Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	46	27	1	50%	-3	24		
		4048	Tower Crane - Lifting	Table C.4 Ref 48 85 5228 - 2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	46	33	1	50%	-3	30		
		17041	Compressor - Supplying air to power tools and for general site use	Table D.1 Ref 1 85 5228 - Part 1 1997	Compressor	Supplying air to power tools and for general site use	0	At least 34 m³/min	Table D.1 Sound level data on general site activities	85	0.5	0	3	0	46	42	1	50%	-3	39		
		4072	Hand-Held Circular Saw (Cutting Paving Slabs) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 72 85 5228 - 2009	Hand-Held Circular Saw (Cutting Paving Slabs)	Cutting Concrete Blocks / Paving Slabs	3	9 kg	Table C.4 Sound level data on general site activities	79	1.2	0	3	0	46	36	1	50%	-3	33		
		4073	Hand-Held Circular Saw (Cutting Paving Slabs) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 73 85 5228 - 2009	Hand-Held Circular Saw (Cutting Paving Slabs)	Cutting Concrete Blocks / Paving Slabs	2	11.5 kg	Table C.4 Sound level data on general site activities	84	1.2	0	3	0	46	41	1	50%	-3	38		
		4093	Angle Grinder (Grinding Steel) - Miscellaneous	Table C.4 Ref 93 85 5228 - 2009	Angle Grinder (Grinding Steel)	Miscellaneous	2	4.7 kg	Table C.4 Sound level data on general site activities	80	1.2	0	3	0	46	37	1	50%	-3	34		
		4094	Angle Grinder (Grinding Steel) - Miscellaneous	Table C.4 Ref 94 85 5228 - 2009	Angle Grinder (Grinding Steel)	Miscellaneous	4	105 kg	Table C.4 Sound level data on general site activities	75	1.0	0	3	0	46	32	1	50%	-3	29		
		5040	Electric Water Pump - Pumping Water	Table C.5 Ref 40 85 5228 - 2009	Electric Water Pump	Pumping Water	15	6"	Table C.5 Sound level data on road construction works	68	0.5	0	3	0	46	25	1	50%	-3	22		
		17001	Scaffold - Dismantling scaffolding	Table D.1 Ref 1 85 5228 - Part 1 1997	Scaffold	Dismantling scaffolding	-	various	Table D.1 Sound level data on general site activities	80	0.5	0	3	0	46	37	1	50%	-3	34		
5	<b>Cladding &amp; roofing</b> Distance between NSR and site hoarding (m): 850 Site hoarding height (m): 0.0 % Soft ground: 100% Additional source height (m): 0 Directivity correction (dB): 0 Number of plant: 1 % Plant duration (over 12 hr period): 50%	4057	Lifting Platform - Lifting	Table C.4 Ref 57 85 5228 - 2009	Lifting Platform	Lifting	35	8 t	Table C.4 Sound level data on general site activities	67	1.8	0	3	0	46	24	1	50%	-3	21		
		4058	Lifting Platform (Lifting) - Lifting	Table C.4 Ref 58 85 5228 - 2009	Lifting Platform (Lifting)	Lifting	35	8 t	Table C.4 Sound level data on general site activities	63	1.8	0	3	0	46	20	1	50%	-3	17		
		4087	Diesel Generator - Power for Lighting	Table C.4 Ref 87 85 5228 - 2009	Diesel Generator	Power for Lighting	8	9 kVA / 3000 rpm	Table C.4 Sound level data on general site activities	65	1.5	0	3	0	46	22	1	25%	-6	18		
		2035	Telescopic Handler - Distribution of Material	Table C.2 Ref 38 85 5228 - 2009	Telescopic Handler	Distribution of Material	60	10 t	Table C.2 Sound level data on site preparation	71	1.8	0	3	0	46	28	1	50%	-3	25		
		4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 85 5228 - 2009	Wheeled Mobile Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	46	27	1	50%	-3	24		
		4048	Tower Crane - Lifting	Table C.4 Ref 48 85 5228 - 2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	46	33	1	50%	-3	30		
		4061	Lagged Material Hoist (Electric) - Lifting	Table C.4 Ref 61 85 5228 - 2009	Lagged Material Hoist (Electric)	Lifting	-	500 kg	Table C.4 Sound level data on general site activities	68	1.8	0	3	0	46	29	1	50%	-3	22		
		17041	Compressor - Supplying air to power tools and for general site use	Table D.1 Ref 1 85 5228 - Part 1 1997	Compressor	Supplying air to power tools and for general site use	0	At least 34 m³/min	Table D.1 Sound level data on general site activities	85	0.5	0	3	0	46	42	1	50%	-3	39		
		4072	Hand-Held Circular Saw (Cutting Paving Slabs) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 72 85 5228 - 2009	Hand-Held Circular Saw (Cutting Paving Slabs)	Cutting Concrete Blocks / Paving Slabs	3	9 kg	Table C.4 Sound level data on general site activities	79	1.2	0	3	0	46	36	1	50%	-3	33		
		4073	Hand-Held Circular Saw (Cutting Paving Slabs) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 73 85 5228 - 2009	Hand-Held Circular Saw (Cutting Paving Slabs)	Cutting Concrete Blocks / Paving Slabs	2	11.5 kg	Table C.4 Sound level data on general site activities	84	1.2	0	3	0	46	41	1	50%	-3	38		
6	<b>Fit-out</b> Distance between NSR and site hoarding (m): 850 Site hoarding height (m): 0.0 % Soft ground: 100% Additional source height (m): 0 Directivity correction (dB): 0 Number of plant: 1 % Plant duration (over 12 hr period): 50%	4093	Angle Grinder (Grinding Steel) - Miscellaneous	Table C.4 Ref 93 85 5228 - 2009	Angle Grinder (Grinding Steel)	Miscellaneous	2	4.7 kg	Table C.4 Sound level data on general site activities	80	1.2	0	3	0	46	37	1	50%	-3	34		
		4094	Angle Grinder (Grinding Steel) - Miscellaneous	Table C.4 Ref 94 85 5228 -																		

Job Number: JAK 5201  
 Client: AWE HydruS  
 Site: Aldermaston  
 Date: 03/11/09  
 Consultant: DC  
 QA: RM  
 Receptor ID: NSR4  
 Address: Property on Paices Hill  
 Height of receptor: 1.5  
 Façade correction at NSR: 3  
 Survey Period: Day  
 Ambient Noise Level at NSR (dB): 71  
 Background Noise Level at NSR (dB): 53

Assumptions  
 estimated average distance between source and receiver used  
 all works undertaken at ground level  
 No solid site hoarding

Construction Programme: Weekdays & Saturday Mornings DAYTIME ONLY		DEFRA Plant List																				
Input 4		Input 5																				
ID	Description	ID	Item	Source	Equipment	Subtitle	Power rating kW	Equipment size, weight (mass), capacity	Source	Activity L <sub>max</sub> @ 10m	Height of source (m)	Directivity correction (dB)	Façade correction at receptor (dB)	Barrier	Distance and ground attenuation (dB)	Resultant L <sub>max</sub>	Number of plant	Duration as % of 12h	Number of plant and duration correction	L <sub>max,12h</sub>	Total L <sub>max,12h</sub>	
1	<b>Enabling Works</b> Distance between NSR and site hoarding (m) 500 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant: 1 % Plant duration (over 12 hr period): 50%	1010	Tracked Excavator (Loading Dump Truck) - Dumping Brick Rubble	Table C.1 Ref 10 BS 5228-1:2009	Tracked Excavator (Loading Dump Truck)	Dumping Brick Rubble	228	44 t	Table C.1 Sound level data on demolition	85	1.8	0	3	0	41	47	1	50%	-3	44		
		1009	Breaker Mounted on Excavator - Breaking Up Brick Foundations	Table C.1 Ref 9 BS 5228-1:2009	Breaker Mounted on Excavator	Breaking Up Brick Foundations	121	(150) 100 kg breaker	Table C.1 Sound level data on demolition	90	1.8	0	3	0	41	52	1	50%	-3	49		
		4003	Tracked Crusher - Crushing Concrete / Rubble	Table C.1 Ref 14 BS 5228-1:2009	Tracked Crusher	Crushing Concrete / Rubble	172	4.7 t	Table C.1 Sound level data on demolition	82	1.8	0	3	0	41	44	1	50%	-3	41		
		2039	Dumper - Distribution of Materials	Table C.4 Ref 3 BS 5228-1:2009	Dumper	Distribution of Materials	81	7 t	Table C.4 Sound level data on general site activities	76	1.8	0	3	0	41	38	1	50%	-3	35		
		4043	Vibratory Roller - Rolling and Compaction	Table C.2 Ref 39 BS 5228-1:2009	Vibratory Roller	Rolling and Compaction	29	4 t	Table C.2 Sound level data on site preparation	74	0.5	0	3	0	41	36	1	50%	-3	33		
		4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 BS 5228-1:2009	Wheeled Mobile Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	41	32	1	50%	-3	29		
		4048	Tower Crane - Lifting	Table C.4 Ref 48 BS 5228-1:2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	41	38	1	50%	-3	35		
		4071	Circular Bench Saw (Petrol - Cutting Concrete Blocks) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 71 BS 5228-1:2009	Circular Bench Saw (Petrol - Cutting Concrete Blocks)	Cutting Concrete Blocks / Paving Slabs	-	-	Table C.4 Sound level data on general site activities	85	1.0	0	3	0	41	47	1	50%	-3	44		
		4076	Diesel Generator - Power for Site Cabins	Table C.4 Ref 76 BS 5228-1:2009	Diesel Generator	Power for Site Cabins	7	-	Table C.4 Sound level data on general site activities	61	1.5	0	3	0	41	23	1	50%	-3	20		
		4087	Diesel Generator - Power for Lighting	Table C.4 Ref 81 BS 5228-1:2009	Diesel Generator	Power for Lighting	8	8 kVA / 3000 rpm	Table C.4 Sound level data on general site activities	65	1.5	0	3	0	41	27	1	50%	-3	24		
4088	Water Pump (Diesel) - Pumping Water	Table C.4 Ref 88 BS 5228-1:2009	Water Pump (Diesel)	Pumping Water	10	100 kg	Table C.4 Sound level data on general site activities	68	0.5	0	3	0	41	30	1	50%	-3	27				
2	<b>De-Watering</b> Distance between NSR and site hoarding (m) 500 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant: 1 % Plant duration (over 12 hr period): 50%	3029	Tracked Mobile Crane - Cranage for Piling (lifting piles, casings, etc)	Table C.3 Ref 29 BS 5228-1:2009	Tracked Mobile Crane	Cranage for Piling (lifting piles, casings, etc)	132	55 t	Table C.3 Sound level data on piling and ancillary operations	70	2.0	0	3	0	41	32	2	20%	-4	28		
		3006	Vibratory Piling Rig - Sheet Steel Piling - Vibratory	Table C.3 Ref 8 BS 5228-1:2009	Vibratory Piling Rig	Sheet Steel Piling - Vibratory	-	-	Table C.3 Sound level data on piling and ancillary operations	88	1.8	0	3	0	41	50	2	80%	-2	52		
3	<b>Sub-structure</b> Distance between NSR and site hoarding (m) 500 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant: 1 % Plant duration (over 12 hr period): 50%	2014	Tracked Excavator - Ground Excavation / Earthworks	Table C.2 Ref 14 BS 5228-1:2009	Tracked Excavator	Ground Excavation / Earthworks	226	40 t	Table C.2 Sound level data on site preparation	79	1.8	0	3	0	41	41	1	50%	-3	38		
		1009	Breaker Mounted on Excavator - Breaking Up Brick Foundations	Table C.1 Ref 9 BS 5228-1:2009	Breaker Mounted on Excavator	Breaking Up Brick Foundations	121	(150) 100 kg breaker	Table C.1 Sound level data on demolition	90	1.8	0	3	0	41	52	1	50%	-3	49		
		4003	Dumper - Distribution of Materials	Table C.4 Ref 3 BS 5228-1:2009	Dumper	Distribution of Materials	81	7 t	Table C.4 Sound level data on general site activities	76	1.8	0	3	0	41	38	1	50%	-3	35		
		4029	Truck Mounted Concrete Pump + Boom Arm - Pumping Concrete	Table C.4 Ref 29 BS 5228-1:2009	Truck Mounted Concrete Pump + Boom Arm	Pumping Concrete	-	26 t	Table C.4 Sound level data on general site activities	80	1.8	0	3	0	41	42	1	50%	-3	39		
		4029	Hydraulic Vibratory Compactor (Tracked Excavator) - Rolling and Compaction	Table C.2 Ref 39 BS 5228-1:2009	Hydraulic Vibratory Compactor (Tracked Excavator)	Rolling and Compaction	-	-	Table C.2 Sound level data on site preparation	78	1.8	0	3	0	41	40	1	50%	-3	37		
		4033	Poker Vibrator - Concreting Other	Table C.4 Ref 53 BS 5228-1:2009	Poker Vibrator	Concreting Other	-	-	Table C.4 Sound level data on general site activities	76	0.5	0	3	0	41	40	1	50%	-3	37		
		4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 BS 5228-1:2009	Wheeled Mobile Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	41	32	1	50%	-3	29		
		4048	Tower Crane - Lifting	Table C.4 Ref 48 BS 5228-1:2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	41	38	1	50%	-3	35		
		17041	Compressor - Supplying air to power tools and for general site use	Table D.7 Ref 41 BS 5228 - Part 1: 1997	Compressor	Supplying air to power tools and for general site use	0	Above 34 m <sup>3</sup> /min	Table D.7 Sound level data on general site activities	85	0.5	0	3	0	41	47	1	50%	-3	44		
		3031	Hand-Held Welder (Welding Piles) - Welding / Cutting Steel Piles	Table C.3 Ref 31 BS 5228-1:2009	Hand-Held Welder (Welding Piles)	Welding / Cutting Steel Piles	-	-	Table C.3 Sound level data on piling and ancillary operations	73	1.8	0	3	0	41	35	1	25%	-6	29		
		3033	Generator for Welding - Welding / Cutting Steel Piles	Table C.3 Ref 33 BS 5228-1:2009	Generator for Welding	Welding / Cutting Steel Piles	6	508 kg	Table C.3 Sound level data on piling and ancillary operations	57	1.5	0	3	0	41	19	1	25%	-6	13		
		3036	Hand-held Gas Cutter - Welding / Cutting Steel Piles	Table C.3 Ref 35 BS 5228-1:2009	Hand-held Gas Cutter	Welding / Cutting Steel Piles	230	bar	Table C.3 Sound level data on piling and ancillary operations	65	1.2	0	3	0	41	27	1	50%	-3	24		
		4093	Angle Grinder (Grinding Steel) - Miscellaneous	Table C.4 Ref 93 BS 5228-1:2009	Angle Grinder (Grinding Steel)	Miscellaneous	2	4.7 kg	Table C.4 Sound level data on general site activities	80	1.2	0	3	0	41	42	1	50%	-3	39		
		4094	Petrol Generator for Hand-held Grinder - Miscellaneous	Table C.4 Ref 94 BS 5228-1:2009	Petrol Generator for Hand-held Grinder	Miscellaneous	4	105 kg	Table C.4 Sound level data on general site activities	75	1.0	0	3	0	41	37	1	50%	-3	34		
		5040	Electric Water Pump - Pumping Water	Table C.5 Ref 40 BS 5228-1:2009	Electric Water Pump	Pumping Water	15	6"	Table C.5 Sound level data on road construction works	68	0.5	0	3	0	41	30	1	50%	-3	27		
		17001	Scaffold - Dismantling scaffolding	Table D.7 Ref 1 BS 5228 - Part 1: 1997	Scaffold	Dismantling scaffolding	-	various	Table D.7 Sound level data on general site activities	80	0.5	0	3	0	41	42	1	50%	-3	39		
		4076	Diesel Generator - Power for Site Cabins	Table C.4 Ref 76 BS 5228-1:2009	Diesel Generator	Power for Site Cabins	7	-	Table C.4 Sound level data on general site activities	61	1.5	0	3	0	41	23	1	50%	-3	20		
		4087	Diesel Generator - Power for Lighting	Table C.4 Ref 81 BS 5228-1:2009	Diesel Generator	Power for Lighting	8	8 kVA / 3000 rpm	Table C.4 Sound level data on general site activities	65	1.5	0	3	0	41	27	1	50%	-3	24		
		4085	Diesel Generator - Power for Welder	Table C.4 Ref 85 BS 5228-1:2009	Diesel Generator	Power for Welder	4	18 kg	Table C.4 Sound level data on general site activities	66	1.5	0	3	0	41	28	1	50%	-3	25		
		2035	Telescopic Handler - Distribution of Material	Table C.2 Ref 35 BS 5228-1:2009	Telescopic Handler	Distribution of Material	60	10 t	Table C.2 Sound level data on site preparation	71	1.8	0	3	0	41	33	1	50%	-3	30		
4088	Water Pump (Diesel) - Pumping Water	Table C.4 Ref 88 BS 5228-1:2009	Water Pump (Diesel)	Pumping Water	10	100 kg	Table C.4 Sound level data on general site activities	68	0.5	0	3	0	41	30	1	50%	-3	27				
4	<b>Super-structure</b> Distance between NSR and site hoarding (m) 500 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant: 1 % Plant duration (over 12 hr period): 50%	3008	Vibratory Piling Rig - Sheet Steel Piling - Vibratory	Table C.3 Ref 8 BS 5228-1:2009	Vibratory Piling Rig	Sheet Steel Piling - Vibratory	-	-	Table C.3 Sound level data on piling and ancillary operations	88	1.8	0	3	0	41	50	1	50%	-3	47		
		4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 BS 5228-1:2009	Wheeled Mobile Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	41	32	1	50%	-3	29		
		4048	Tower Crane - Lifting	Table C.4 Ref 48 BS 5228-1:2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	41	38	1	50%	-3	35		
		17041	Compressor - Supplying air to power tools and for general site use	Table D.7 Ref 41 BS 5228 - Part 1: 1997	Compressor	Supplying air to power tools and for general site use	0	Above 34 m <sup>3</sup> /min	Table D.7 Sound level data on general site activities	85	0.5	0	3	0	41	47	1	50%	-3	44		
		4072	Hand-held Circular Saw (Petrol - Cutting Concrete Blocks) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 72 BS 5228-1:2009	Hand-held Circular Saw (Petrol - Cutting Concrete Blocks)	Cutting Concrete Blocks / Paving Slabs	3	9 kg	Table C.4 Sound level data on general site activities	79	1.2	0	3	0	41	41	1	50%	-3	38		
		4073	Hand-held Circular Saw (Cutting Paving Slabs) - Cutting Concrete Blocks / Paving Slabs	Table C.4 Ref 73 BS 5228-1:2009	Hand-held Circular Saw (Cutting Paving Slabs)	Cutting Concrete Blocks / Paving Slabs	2	(14) 120 mm diameter	Table C.4 Sound level data on general site activities	84	1.2	0	3	0	41	46	1	50%	-3	43		
		4093	Angle Grinder (Grinding Steel) - Miscellaneous	Table C.4 Ref 93 BS 5228-1:2009	Angle Grinder (Grinding Steel)	Miscellaneous	2	4.7 kg	Table C.4 Sound level data on general site activities	80	1.2	0	3	0	41	42	1	50%	-3	39		
		4094	Petrol Generator for Hand-held Grinder - Miscellaneous	Table C.4 Ref 94 BS 5228-1:2009	Petrol Generator for Hand-held Grinder	Miscellaneous	4	105 kg	Table C.4 Sound level data on general site activities	75	1.0	0	3	0	41	37	1	50%	-3	34		
		5040	Electric Water Pump - Pumping Water	Table C.5 Ref 40 BS 5228-1:2009	Electric Water Pump	Pumping Water	15	6"	Table C.5 Sound level data on road construction works	68	0.5	0	3	0	41	30	1	50%	-3	27		
		17001	Scaffold - Dismantling scaffolding	Table D.7 Ref 1 BS 5228 - Part 1: 1997	Scaffold	Dismantling scaffolding	-	various	Table D.7 Sound level data on general site activities	80	0.5	0	3	0	41	42	1	50%	-3	39		
5	<b>Cladding &amp; roofing</b> Distance between NSR and site hoarding (m) 500 Distance between site hoarding and source (m) 10 Site hoarding height (m) 0.0 % Soft ground: 100% Additional source height (m) 0 Directivity correction (dB): 0 Number of Plant: 1 % Plant duration (over 12 hr period): 50%	4057	Lifting Platform - Lifting	Table C.4 Ref 57 BS 5228-1:2009	Lifting Platform	Lifting	35	8 t	Table C.4 Sound level data on general site activities	67	1.8	0	3	0	41	29	1	50%	-3	26		
		4058	Lifting Platform (Idling) - Lifting	Table C.4 Ref 58 BS 5228-1:2009	Lifting Platform (Idling)	Lifting	35	8 t	Table C.4 Sound level data on general site activities	63	1.8	0	3	0	41	25	1	50%	-3	22		
		4076	Diesel Generator - Power for Site Cabins	Table C.4 Ref 76 BS 5228-1:2009	Diesel Generator	Power for Site Cabins	7	-	Table C.4 Sound level data on general site activities	61	1.5	0	3	0	41	23	1	50%	-3	20		
		4087	Diesel Generator - Power for Lighting	Table C.4 Ref 81 BS 5228-1:2009	Diesel Generator	Power for Lighting	8	8 kVA / 3000 rpm	Table C.4 Sound level data on general site activities	65	1.5	0	3	0	41	27	1	50%	-3	24		
		2035	Telescopic Handler - Distribution of Material	Table C.2 Ref 35 BS 5228-1:2009	Telescopic Handler	Distribution of Material	60	10 t	Table C.2 Sound level data on site preparation	71	1.8	0	3	0	41	33	1	50%	-3	30		
		4043	Wheeled Mobile Crane - Lifting	Table C.4 Ref 43 BS 5228-1:2009	Tower Crane	Lifting	275	35 t	Table C.4 Sound level data on general site activities	70	2.0	0	3	0	41	32	1	50%	-3	29		
		4048	Tower Crane - Lifting	Table C.4 Ref 48 BS 5228-1:2009	Tower Crane	Lifting	88	22 t	Table C.4 Sound level data on general site activities	76	8.0	0	3	0	41	38	1	50%	-3	35		
		4061	Caged Material Hoist (Electric) - Lifting	Table C.4 Ref 61 BS 5228-1:2009	Caged Material Hoist (Electric)	Lifting	-	500 kg	Table C.4 Sound level data on general site activities	68	1.8	0	3	0	41	30	1	50%	-3	27		
		17041	Compressor - Supplying air to power tools and for general site use	Table D.7 Ref 41 BS 5228 - Part 1: 1997	Compressor	Supplying air to power tools and for general site use</																

APPENDIX D.3.5 - CONSTRUCTION NOISE ASSESSMENT

Job Number: JAK 5201  
 Client: AWE Hydrus  
 Site: Aldermaston  
 Date: 03/11/09  
 Consultant: DG  
 QA: RM

Input 6

NSR1	The Manor House		Construction Period	Predicted Construction Noise Level	Ambient Noise Level	Total Noise Level <small>Predicted plus Ambient</small>	Significance Trigger Level (Ambient plus 5 dB or 65 dB)	Significance Rating
ID	Description			L <sub>Aeq</sub> dB	L <sub>Aeq</sub> dB	L <sub>Aeq</sub> dB	dB	
1	Enabling Works		Day	58	49	58	65	not significant
2	De-Watering		Day	58	49	58	65	not significant
3	Sub-structure		Day	59	49	59	65	not significant
4	Super-structure		Day	55	49	56	65	not significant
5	Cladding & roofing		Day	54	49	55	65	not significant
6	Fit-out		Day	59	49	60	65	not significant
7	Land-scaping		Day	46	49	51	65	not significant

NSR2	Properties on Spring Lane		Construction Period	Predicted Construction Noise Level	Ambient Noise Level	Total Noise Level <small>Predicted plus Ambient</small>	Significance Trigger Level (Ambient plus 5 dB or 65 dB)	Significance Rating
ID	Description			L <sub>Aeq</sub> dB	L <sub>Aeq</sub> dB	L <sub>Aeq</sub> dB	dB	
1	Enabling Works		Day	52	46	53	65	not significant
2	De-Watering		Day	52	46	53	65	not significant
3	Sub-structure		Day	53	46	54	65	not significant
4	Super-structure		Day	49	46	51	65	not significant
5	Cladding & roofing		Day	49	46	51	65	not significant
6	Fit-out		Day	54	46	55	65	not significant
7	Land-scaping		Day	41	46	47	65	not significant

NSR3	Properties on Rag Hill		Construction Period	Predicted Construction Noise Level	Ambient Noise Level	Total Noise Level <small>Predicted plus Ambient</small>	Significance Trigger Level (Ambient plus 5 dB or 65 dB)	Significance Rating
ID	Description			L <sub>Aeq</sub> dB	L <sub>Aeq</sub> dB	L <sub>Aeq</sub> dB	dB	
1	Enabling Works		Day	46	46	49	65	not significant
2	De-Watering		Day	47	46	49	65	not significant
3	Sub-structure		Day	48	46	50	65	not significant
4	Super-structure		Day	43	46	48	65	not significant
5	Cladding & roofing		Day	43	46	48	65	not significant
6	Fit-out		Day	48	46	50	65	not significant
7	Land-scaping		Day	35	46	46	65	not significant

NSR4	Property on Paices Hill		Construction Period	Predicted Construction Noise Level	Ambient Noise Level	Total Noise Level <small>Predicted plus Ambient</small>	Significance Trigger Level (Ambient plus 5 dB or 65 dB)	Significance Rating
ID	Description			L <sub>Aeq</sub> dB	L <sub>Aeq</sub> dB	L <sub>Aeq</sub> dB	dB	
1	Enabling Works		Day	52	71	71	76	not significant
2	De-Watering		Day	52	71	71	76	not significant
3	Sub-structure		Day	53	71	71	76	not significant
4	Super-structure		Day	49	71	71	76	not significant
5	Cladding & roofing		Day	49	71	71	76	not significant
6	Fit-out		Day	54	71	71	76	not significant
7	Land-scaping		Day	41	71	71	76	not significant