

Figure A2.3 - Construction Equipment Schedule

<i>Without mitigation measures</i>							
Land Viaduct / Approach Roads	TM Ref./ Other Ref.	SWL/item dB(A)	No. items	on-time %	Barrier dB	Total SWL dB(A)	
Excavator	CNP 081	112	1	100	0	112.0	
Dump truck	CNP 067	117	2	100	0	120.0	
Bulldozer	CNP 030	115	1	100	0	115.0	
Generator	CNP 101	108	2	100	0	111.0	
						122.1	
Excavator	CNP 081	112	1	100	0	112.0	
Lorry	CNP 141	112	2	100	0	115.0	
Bulldozer	CNP 030	115	1	100	0	115.0	
Generator	CNP 101	108	2	100	0	111.0	
						119.6	
Bored pile machine	CNP 165	115	2	100	0	118.0	
Mobile crane	CNP 048	112	2	100	0	115.0	
Excavator	CNP 081	112	2	100	0	115.0	
Dump truck	CNP 067	117	1	100	0	117.0	
Lorry	CNP 141	112	2	100	0	115.0	
Concrete lorry mixer	CNP 044	109	3	100	0	113.8	
Generator	CNP 101	108	2	100	0	111.0	
Air compressor	CNP 003	104	2	100	0	107.0	
Concrete pump	CNP 047	109	2	100	0	112.0	
						124.2	
Mobile crane	CNP 048	112	1	100	0	112.0	
Lorry	CNP 141	112	2	100	0	115.0	
Concrete lorry mixer	CNP 044	109	3	100	0	113.8	
Air compressor	CNP 003	104	2	100	0	107.0	
Concrete pump	CNP 047	109	2	100	0	112.0	
						119.7	
N/A							
Mobile cranes	CNP 048	112	1	100	0	112.0	
Lorry	CNP 141	112	2	100	0	115.0	
Concrete lorry mixer	CNP 044	109	1	100	0	109.0	
Generator	CNP 101	108	2	100	0	111.0	
Air compressor	CNP 003	104	2	100	0	107.0	
Concrete pump	CNP 047	109	2	100	0	112.0	
						119.5	
Asphalt paver	CNP 004	109	1	100	0	109.0	
Vibratory Roller	CNP 186	108	1	100	0	108.0	
Road Roller	CNP 185	108	1	100	0	108.0	
Lorry	CNP 141	112	2	100	0	115.0	
						117.2	

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<i>Without mitigation measures</i>							
River Crossing	TM Ref./ Other Ref.	SWL/ite m	No. items	on-time %	Barrier dB	Total SWL dB(A)	
						116.5	
Lorry	CNP 141	112	2	100	0	115.0	
Generator	CNP 101	108	2	100	0	111.0	
						116.5	
Derrick Barge	CNP 061	104	1	100	0	104.0	
Tug boat	CNP 221	110	1	100	0	110.0	
Piling, hydraulic extractor	CNP 164	90	2	100	0	93.0	
Excavator	CNP 081	112	2	100	0	115.0	
						116.5	
Bored piling machine	CNP 164	115	2	100	0	118.0	
Mobile crane	CNP 048	112	2	100	0	115.0	
Excavator	CNP 081	112	2	100	0	115.0	
Dump truck	CNP 067	117	1	100	0	117.0	
Lorry	CNP 141	112	2	100	0	115.0	
Concrete lorry mixer	CNP 044	109	3	100	0	113.8	
Generator	CNP 101	108	2	100	0	111.0	
Air compressor	CNP 003	104	2	100	0	107.0	
Concrete pump	CNP 047	109	2	100	0	112.0	
						124.2	
Mobile crane	CNP 048	112	1	100	0	112.0	
Lorry	CNP 141	112	2	100	0	115.0	
Concrete lorry mixer	CNP 044	109	3	100	0	113.8	
Air compressor	CNP 003	104	2	100	0	107.0	
Derrick Barge	CNP 061	104	1	100	0	104.0	
						119.0	
n/a							
Mobile crane	CNP 048	112	1	100	0	112.0	
Lorry	CNP 141	112	2	100	0	115.0	
Concrete lorry mixer	CNP 044	109	1	100	0	109.0	
Generator	CNP 101	108	2	100	0	111.0	
Air compressor	CNP 003	104	2	100	0	107.0	
Concrete pump	CNP 047	109	2	100	0	112.0	
Winch	CNP 261	110	2	100	0	113.0	
						120.4	
Asphalt paver	CNP 004	109	1	100	0	109.0	
Vibratory Roller	CNP 186	108	1	100	0	108.0	
Road Roller	CNP 185	108	1	100	0	108.0	
Lorry	CNP 141	112	2	100	0	115.0	
						117.2	

Figure A2.3 - Construction Equipment Schedule

With Mitigation Measures - with the use of Quiet Plants							
Land Viaduct / Approach Roads Section	TM Ref./ Other Ref.	SWL/item dB(A)	No. items	on-time %	Barrier dB	Total SWL dB(A)	
A3 - Drainage Diversion							
Excavator*	C3/97	105	1	100	5	100.0	
Dump truck*	C9/27	105	2	100	5	103.0	
Bulldozer*	C3/29	109	1	100	5	104.0	
Generator, super silenced*	CNP 103	95	2	100	10	88.0	
						107.5	
A4 - Site formation							
Excavator*	C3/97	105	1	100	5	100.0	
Truck*	C9/39	103	2	100	5	101.0	
Bulldozer*	C3/29	109	1	100	5	104.0	
Generator, super silenced*	CNP 103	95	2	100	10	88.0	
						106.8	
A4 - Piles and caps							
Bored pile machine, RCD	CNP 166	100	2	100	10	93.0	
Mobile crane*	C7/114	101	2	100	5	99.0	
Excavator*	C3/97	105	1	100	5	100.0	
Dump truck*	C9/27	105	1	100	5	100.0	
Truck*	C9/39	103	1	100	5	98.0	
Concrete lorry mixer*	C6/23	100	3	100	5	99.8	
Generator, super silenced*	CNP 103	95	2	100	10	88.0	
Air compressor	CNP 003	104	2	100	10	97.0	
Concrete pump*	C6/36	106	2	100	10	99.0	
						107.7	
A5 - Column							
Mobile crane*	C7/114	101	1	100	5	96.0	
Truck*	C9/39	103	2	100	5	101.0	
Concrete lorry mixer*	C6/23	100	3	100	5	99.8	
Air compressor	CNP 003	104	2	100	10	97.0	
Concrete pump*	C6/36	106	2	100	10	99.0	
						104.9	
A6 - Deck Fabrication							
N/A							
A7 - Deck construction							
Mobile crane*	C7/114	101	1	100	5	96.0	
Truck*	C9/39	103	2	100	5	101.0	
Concrete lorry mixer*	C6/23	100	1	100	5	95.0	
Generator, super silenced*	CNP 103	95	2	100	10	88.0	
Air compressor	CNP 003	104	2	100	10	97.0	
Concrete pump*	C6/36	106	2	100	10	99.0	
						105.2	
A8 - Finishing							
Asphalt paver*	C8/24	101	1	100	0	101.0	
Vibratory Roller*	C3/116	106	1	100	0	106.0	
Road Roller*	C8/27	104	1	100	0	104.0	
Truck*	C9/39	103	2	100	0	106.0	
						110.7	
* - Quiet Equipment							

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With Mitigation Measures- with the use of Quiet Plants							
		TM Ref./ Other Ref.	SWL/item dB(A)	No. items	on-time %	Barrier dB	Total SWL dB(A)
River Crossing							
B2 - Mobilisation							
Lorry*		C3/39	105	2	100	5	103.0
Generator, super silenced*		CNP 103	95	2	100	10	88.0
							103.1
B3 - Ops of barges							
Derrick Barge		CNP 061	104	1	100	0	104.0
Tug boat		CNP 221	110	1	100	0	110.0
Piling, hydraulic extractor		CNP 164	90	2	100	0	93.0
Excavator*		C3/97	105	2	100	0	108.0
							112.8
B4 - Piles and caps							
Bored piling machine		CNP 164	105	2	100	10	98.0
Mobile crane*		C7/114	101	2	100	5	99.0
Excavator*		C3/97	105	2	100	5	103.0
Dump truck*		C9/27	105	1	100	5	100.0
Lorry*		C3/39	105	2	100	5	103.0
Concrete lorry mixer*		C6/23	100	3	100	5	99.8
Generator, super silenced*		CNP 103	95	2	100	10	88.0
Air compressor		CNP 003	104	2	100	10	97.0
Concrete pump*		C6/36	106	2	100	10	99.0
							109.4
B5 - Columns							
Mobile crane*		C7/114	101	1	100	5	96.0
Lorry*		C3/39	105	2	100	5	103.0
Concrete lorry mixer*		C6/23	100	3	100	5	99.8
Air compressor		CNP 003	104	2	100	10	97.0
Concrete pump*		C6/36	106	2	100	10	99.0
							106.7
B6 - Deck fabrication							
n/a							
B7 - Deck construction							
Mobile crane*		C7/114	101	1	100	5	96.0
Lorry*		C3/39	105	2	100	5	103.0
Concrete lorry mixer*		C6/23	100	1	100	5	95.0
Generator, super silenced*		CNP 103	95	2	100	10	88.0
Air compressor		CNP 003	104	2	100	10	97.0
Concrete pump*		C6/36	106	2	100	10	99.0
Winch, electric*		CNP 262	95	2	100	5	93.0
							106.3
B8 - Finishing							
Asphalt paver*		C8/24	101	1	100	0	101.0
Vibratory Roller*		C3/116	106	1	100	0	106.0
Roas Roller*		C8/27	104	1	100	0	104.0
Lorry*		C3/39	105	2	100	0	108.0
							111.5
* - Quiet Equipment							