## Appendix 4A PME Inventory for the Construction of the STW and Outfalls (Unmitigated)

		Equipment Used	Number Used	On time	Reference	SWL (dB(A))	Subtotal SWL dB(A)
Activities			Oseu			` ` '//	ub(A)
Extension of	Breaking Concrete	Breaker, excavator mounted (pneumatic)	1	100%	CNP 027	122	
inlet pumping mains	Surface (X2)	Air compressor, air flow > 10m3/min and	1	100%	CNP 002	102	
(X1 and X2)		<= 30m3/min				*	122.0
	Excavation (X2)	Excavator/loader, wheeled/tracked	1	100%	CNP 081	112	
		Water pump, submersible (electric)	1	100%	CNP 283	85	
						*	112.0
	Pipelaying (X2)	Compactor, vibratory	1	100%	CNP 050	105	
						*	105.0
	Surfacing (X2)	Concrete mixer pump	1	100%	CNP 047	109	
		Poker, vibratory, hand-held	2	100%	CNP 170	113	
						*	116.8
	Mainlaying (X1)	Drill, percussive, hand-held (electric)	1	100%	CNP 064	103	
							103.0

Note: \* Concrete surface breaking, excavation, pipelaying and surfacing construction activities at X2 would be carried out in sequence.

The highest SWL of these four, 122dB(A) is adopted for assessment.

Activ	rities	Equipment Used	Number Used	On time	Reference	SWL (dB(A))	Subtotal SWL dB(A)
STW Construction	Site Formation,	Excavator/loader, wheeled/tracked	1	100%	CNP 081	112	
(notional source at Y)	Earthworks, Boulder/Rock	Breaker, excavator mounted (pneumatic)	1	100%	CNP 027	122	
	Breaking	Bulldozer	1	100%	CNP 030	115	
	Dicaking	Generator, silenced, 75 dB(A) at 7 m	1	100%	CNP 102	100	
		Rock drill, hand-held (pneumatic)	1	100%	CNP 183	116	
		Air compressor, air flow > 10m3/min and <= 30m3/mi	_	100%	CNP 002	102	
		Sheet Piling Plant	1	100%	BS 5228 (1)	106	
							124.0
	Mini-piling	Crane, mobile/barge mounted (diesel)	1	100%	CNP 048	112	
		Generator, silenced, 75 dB(A) at 7 m	1	100%	CNP 102	100	
		Piling, large diameter bored, reverse circulation drill	1	100%	CNP 166	100	
		Welding Machine	1	100%	BS 5228 <sup>(2)</sup>	108	
		Water pump (petrol)	1	100%	CNP 282	103	
		Concrete pump, stationary/lorry mounted	1	100%	CNP 047	109	
							115.3
	Concreting/						
	Roadwork	Crane, mobile/barge mounted (diesel)	1	100%	CNP 048	112	
		Concrete mixer pump	1	100%	CNP 047	109	
		Generator, silenced, 75 dB(A) at 7 m	1	100%	CNP 102	100	
		Poker, vibratory, hand-held	2	100%	CNP 170	113	
		Road roller	2	100%	CNP 185	108	
		Grader	1	100%	CNP 104	113	
							119.9

Note: BS 5228(1) refers to Table C4 Item No 13 BS 5228(2) refers to Table C7 Item No 60

		Number			SWL	Subtotal SWL
Activities	Equipment Used	Used	On time	Reference	(dB(A))	dB(A)
Modification and demolition of the	Breaker, hand-held, mass <= 10kg	1	100%	CNP 023	108	
existing facilities (Y)	Rock drill, hand-held (pneumatic)	1	100%	CNP 183	116	
	Breaker, hand-held, mass > 10kg and <20 kg	1	100%	CNP 024	108	
	Air compressor, air flow > 10m3/min and <= 30m3/mi	1	100%	CNP 002	102	
						117.3

Activities	Equipment Used	Number Used	On time	Reference	SWL (dB(A))	Subtotal SWL dB(A)
Construction of new submarine outfall	Derrick barge	1	100%	CNP 061	104	
& emergency overflow (Z)	Dredger, grab	1	100%	CNP 063	112	
	Bulldozer	1	100%	CNP 030	115	
	Generator, silenced, 75 dB(A) at 7 m	1	100%	CNP 102	100	
	Rock drill, hand-held (pneumatic)	1	100%	CNP 183	116	
	Air compressor, air flow > 10m3/min and <= 30m3/mi	1	100%	CNP 002	102	
						119.7