

Viking CCS pipeline

# Preliminary Environmental Information Report Volume IV

Technical Appendices



Appendix 13.1

# BS5228 Noise and Vibration



**Table of Contents**

13 BS 5228 Calculations ..... 13-1

**Tables**

Table 13-1: Typical Construction Noise Predictions – Distance 10m - Calculations to  
BS 5228 ..... 13-1

## 13 BS 5228 Calculations

**Table 13-1: Typical Construction Noise Predictions – Distance 10m - Calculations to BS 5228**

Data Source	Plant Type	BS 5228 SPL dB (A)	Number in Operation	Total SWL dB (A)	Distance (m)	Operating Hours	Noise Level dB (A)
<b>Operation: Pipe Stringing, pipe bending, pipeline welding</b>							
BS 5228 Table c4.43	Crane 40T	70	1	98	10.0	4	53.0
BS 5228 Table c4.74	Pipe Carrier D8 Cradle	80	8	117	10.0	4	72.0
BS 5228 Table c2.35	Tele – Handler	71	1	99	10.0	4	54.0
BS 5228 Table c4.74	Sideboom	80	10	118	10.0	4	73.0
BS 5228 Table c2.21	20T Backhoe	71	1	99	10.0	4	54.0
BS 5228 Table c3.31	Weldsets (3 Bedford)	73	6	108.8	10.0	8	79.0
BS 5228 Table c4.93	Dumpers	77	4	111	10.0	4	66.0
BS 5228 Table c2.19	25T Backhoe	77	2	108	10.0	4	63.0
BS 5228 Table c3.35	Cutting Equipment (Bedford)	65	1	93	10.0	8	63.2
BS 5228 Table c4.74	Welding Rigs	80	2	111	10.0	8	69.0
BS 5228 Table c4.74	Welding Rigs	80	4	114	10.0	8	72.0
BS 5228 Table c4.74	Welding Rigs (backend)	80	8	117	10.0	8	75.0
BS 5228 Table c3.33	Generator for Welding	57	1	85	10.0	8	55.2
BS 5228 Table c4.93	Angle Grinder	80	1	108	10.0	8	78.2
							<b>83.9</b>

Data Source	Plant Type	BS 5228 SPL dB (A)	Number in Operation	Total SWL dB (A)	Distance (m)	Operating Hours	Noise Level dB (A)
<b>Operation: HDD Crossing</b>							
BS 5228 Table c4.28	Concrete Pour	75	1	103	10.0	11	74.6
BS 5228 Table c4.28	Mixing Tank	76	1	104	10.0	11	75.6
BS 5228 Table c4.96	Directional Drill	77	1	105	10.0	11	76.6
BS 5228 Table c4.92	Mounting Supports for Mounting Drill	87	1	115	10.0	11	86.6
BS 5228 Table c4.43	Crane 40T	70	1	98	10.0	4	53.0
BS 5228 Table d7.49	Diesel Generator	76	1	104	10.0	11	75.6
							<b>87.8</b>