

**Project :** Agreement No. CE 32/2014 (HY) Elevated Pedestrian Corridor in Yuen Long Town Connecting with Long Ping Station – Investigation, Design and Construction  
**Title :** Appendix 5.3 -- Plant Inventory -- Site Clearance (SC)

Site clearance (SC)				SWL of Single PME			Total SWL		
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
				Site clearance - group 1	Q1 2018, Q3 2018, Q2 2019	Breaker - hand-held - mass > 10 kg and < 20 kg (70%)	1	106	103
	Generator, super silenced, 70 dB(A) at 7 m (100%)	1	95	95		80	95	95	80
	<b>106</b>	<b>104</b>	<b>94</b>	<b>106</b>		<b>104</b>	<b>94</b>		
Site clearance - group 2		Backhoe (100%)	1	94	94	89	94	94	89
		Generator, super silenced, 70 dB(A) at 7 m (100%)	1	95	95	80	95	95	80
		<b>98</b>	<b>98</b>	<b>90</b>	<b>98</b>	<b>98</b>	<b>98</b>	<b>98</b>	<b>90</b>

Note:

[1] The groups of machines do not operate concurrently, therefore their sound power levels are not summed together.  
To present the worst case scenario, the maximum predicted noise among these groups is used for calculation for the noise level resulted from site clearance.

**Project :** Agreement No. CE 32/2014 (HY) Elevated Pedestrian Corridor in Yuen Long Town Connecting with Long Ping Station – Investigation, Design and Construction  
**Title :** Appendix 5.3 -- Plant Inventory -- Temporary Erection (TE)

Temporary erection (TE)				SWL of Single PME			Total SWL			
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated	
				temporary erection - group 1	Q2 2018 to Q4 2018, Q2 2019 to Q4 2019, Q4 2020	Breaker - hand-held - mass > 20 kg and < 35 kg (70%)	1	109	103	93
	Air compressor, air flow > 10m3/min and <= 30 m3/min (100%)	1	102	102		87	102	102	87	
	Generator, super silenced, 70 dB(A) at 7 m (100%)	1	95	95		80	95	95	80	
				<b>110</b>		<b>106</b>	<b>94</b>	<b>110</b>	<b>106</b>	<b>94</b>
temporary erection - group 2		Piling, diaphragm wall, bentonite filtering plant (100%)	1	105		105	90	105	105	90
		Air compressor, air flow > 10m3/min and <= 30 m3/min (100%)	1	102		102	87	102	102	87
		Generator, super silenced, 70 dB(A) at 7 m (100%)	1	95		95	80	95	95	80
				<b>107</b>		<b>107</b>	<b>92</b>	<b>107</b>	<b>107</b>	<b>92</b>
temporary erection - group 3		Backhoe (100%)	1	94		94	89	94	94	89
		Air compressor, air flow > 10m3/min and <= 30 m3/min (100%)	1	102		102	87	102	102	87
		Generator, super silenced, 70 dB(A) at 7 m (100%)	1	95	95	80	95	95	80	
				<b>103</b>	<b>103</b>	<b>91</b>	<b>103</b>	<b>103</b>	<b>91</b>	

Note:

[1] The groups of machines do not operate concurrently, therefore their sound power levels are not summed together.  
To present the worst case scenario, the maximum predicted noise among these groups is used for calculation for the noise level resulted from temporary erection.

**Project :** Agreement No. CE 32/2014 (HY) Elevated Pedestrian Corridor in Yuen Long Town Connecting with Long Ping Station – Investigation, Design and Construction  
**Title :** Appendix 5.3 -- Plant Inventory -- Piling Works (PW)

Piling works (PW)				SWL of Single PME			Total SWL			
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated	
				Piling Works - group 1	Q4 2018 - Q1 2019, Q4 2019 - Q1 2020, Q4 2020, Q1 2021	Rotary drilling rig (e.g. Liebherr Rotary Drilling Rig LB28-320) (100%)	1	112	112	97
	Air compressor, air flow > 10m3/min and <= 30 m3/min (100%)	1	102	102		87	102	102	87	
	Water pump (electric) (100%)	1	88	88		88	88	88	88	
	Generator, super silenced, 70 dB(A) at 7 m (100%)	1	95	95		80	95	95	80	
				<b>113</b>		<b>113</b>	<b>98</b>	<b>113</b>	<b>113</b>	<b>98</b>
Piling Works - group 2		Grout mixer (100%)	1	90		90	80	90	90	80
		Grout pump (100%)	1	105		105	95	105	105	95
		Air compressor, air flow > 10m3/min and <= 30 m3/min (100%)	1	102		102	87	102	102	87
		Generator, super silenced, 70 dB(A) at 7 m (100%)	1	95		95	80	95	95	80
				<b>107</b>		<b>107</b>	<b>96</b>	<b>107</b>	<b>107</b>	<b>96</b>
Piling Works - group 3		Breaker - hand-held - mass > 20 kg and < 35 kg (60%)	1	109		103	93	109	103	93
		Air compressor, air flow > 10m3/min and <= 30 m3/min (100%)	1	102		102	87	102	102	87
		Generator, super silenced, 70 dB(A) at 7 m (100%)	1	95		95	80	95	95	80
				<b>110</b>		<b>106</b>	<b>94</b>	<b>110</b>	<b>106</b>	<b>94</b>
Piling Works - group 4		Crane, mobile/berge mounted (diesel) (100%)	1	112		101	96	112	101	96
		Air compressor, air flow > 10m3/min and <= 30 m3/min (100%)	1	102		102	87	102	102	87
		Generator, super silenced, 70 dB(A) at 7 m (100%)	1	95	95	80	95	95	80	
				<b>112</b>	<b>105</b>	<b>97</b>	<b>112</b>	<b>105</b>	<b>97</b>	
Piling Works - group 5		Concrete lorry mixer (70%)	1	107	107	102	107	107	102	
		Concrete pump, stationary/lorry mounted (70%)	1	107	104	94	107	104	94	
		Air compressor, air flow > 10m3/min and <= 30 m3/min (100%)	1	102	102	87	102	102	87	
		Generator, super silenced, 70 dB(A) at 7 m (100%)	1	95	95	80	95	95	80	
				<b>111</b>	<b>110</b>	<b>103</b>	<b>111</b>	<b>110</b>	<b>103</b>	

Note:

[1] The groups of machines do not operate concurrently, therefore their sound power levels are not summed together.

To present the worst case scenario, the maximum predicted noise among these groups is used for calculation for the noise level resulted from Piling Works.

**Project :** Agreement No. CE 32/2014 (HY) Elevated Pedestrian Corridor in Yuen Long Town Connecting with Long Ping Station – Investigation, Design and Construction  
**Title :** Appendix 5.3 -- Plant Inventory -- Column and Table Top Construction (CTTC)

Column and Table Top Construction (PW)				SWL of Single PME			Total SWL			
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated	
				Column and Table Top Construction - group 1	Q2 2020 - Q1 2021	Bar bender and cutter (electric) (100%)	2	90	90	90
	Generator, super silenced, 70 dB(A) at 7 m (100%)	2	95	95		80	98	98	83	
				<b>96</b>		<b>96</b>	<b>90</b>	<b>99</b>	<b>99</b>	<b>93</b>
Column and Table Top Construction - group 2	Concrete lorry mixer (70%)	1	107	107		102	107	107	102	
	Concrete pump, stationary/lorry mounted (70%)	1	107	104		94	107	104	94	
	Generator, super silenced, 70 dB(A) at 7 m (100%)	2	95	95		80	98	98	83	
				<b>110</b>		<b>109</b>	<b>103</b>	<b>110</b>	<b>109</b>	<b>103</b>
Column and Table Top Construction - group 3	Poker, vibratory, hand-held (100%)	1	113	102		97	113	102	97	
	Water pump (electric) (100%)	1	88	88		88	88	88	88	
	Generator, super silenced, 70 dB(A) at 7 m (100%)	2	95	95		80	98	98	83	
				<b>113</b>		<b>103</b>	<b>98</b>	<b>113</b>	<b>104</b>	<b>98</b>
Column and Table Top Construction - group 4	Dump truck (70%)	2	115	103		98	118	106	101	
	Generator, super silenced, 70 dB(A) at 7 m (100%)	2	95	95		80	98	98	83	
				<b>117</b>		<b>104</b>	<b>99</b>	<b>118</b>	<b>109</b>	<b>102</b>
Column and Table Top Construction - group 5	Saw - circular and wood (100%)	2	108	103		97	111	106	100	
	Generator, super silenced, 70 dB(A) at 7 m (100%)	2	95	95		80	98	98	83	
				<b>108</b>		<b>104</b>	<b>97</b>	<b>111</b>	<b>107</b>	<b>100</b>

Note:

[1] The groups of machines do not operate concurrently, therefore their sound power levels are not summed together.

To present the worst case scenario, the maximum predicted noise among these groups is used for calculation for the noise level resulted from Column and Table Top Construction.

**Project :** Agreement No. CE 32/2014 (HY) Elevated Pedestrian Corridor in Yuen Long Town Connecting with Long Ping Station – Investigation, Design and Construction  
**Title :** Appendix 5.3 -- Plant Inventory -- Steel works (SW)

Steel works (SW)				SWL of Single PME			Total SWL		
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
				Steel works - group 1	Q2 2021 - Q2 2022	Crane, mobile/berge mounted (diesel) (100%)	1	112	101
		Generator, super silenced, 70 dB(A) at 7 m (100%)	1	95	95	80	95	95	80
				<b>112</b>	<b>102</b>	<b>96</b>	<b>112</b>	<b>102</b>	<b>96</b>

Note:

[1] The groups of machines do not operate concurrently, therefore their sound power levels are not summed together.  
 To present the worst case scenario, the maximum predicted noise among these groups is used for calculation for the noise level resulted from Steel works.

**Project :** Agreement No. CE 32/2014 (HY) Elevated Pedestrian Corridor in Yuen Long Town Connecting with Long Ping Station – Investigation, Design and Construction  
**Title :** Appendix 5.3 -- Plant Inventory -- Parapet Wall (RW)

Road works (RW)				SWL of Single PME			Total SWL			
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated	
				Parapet Wall - group 1	Q4 2021 - Q2 2022	Backhoe (100%)	1	94	94	89
	Generator, super silenced, 70 dB(A) at 7 m (100%)	1	95	95		80	95	95	80	
				<b>98</b>		<b>98</b>	<b>90</b>	<b>98</b>	<b>98</b>	<b>90</b>
Parapet Wall - group 2	Breaker - hand-held - mass > 10 kg and < 20 kg (70%)	1	108	106		96	108	106	96	
	Generator (100%)	1	95	95		80	95	95	80	
				<b>108</b>		<b>106</b>	<b>96</b>	<b>108</b>	<b>106</b>	<b>96</b>
Parapet Wall - group 3		Roller, vibratory (100%)	1	108	95	90	108	95	90	
		Generator, super silenced, 70 dB(A) at 7 m (100%)	1	95	95	80	95	95	80	
				<b>108</b>	<b>98</b>	<b>90</b>	<b>108</b>	<b>98</b>	<b>90</b>	

Note:

[1] The groups of machines do not operate concurrently, therefore their sound power levels are not summed together.  
 To present the worst case scenario, the maximum predicted noise among these groups is used for calculation for the noise level resulted from Road works.