

Appendix 3.2 Emission Parameters for Odour Modelling

Exhaust Design

Deodouriser	Exhaust Location		Height, mAG	Exhaust Diameter, m	Exit Velocity, m/s	Exit Temperature
	X	Y				
DO1	844332.4	832592.5	4	1.13	1.67	Ambient

Serving units	Odour Emission Area (m ²) ^[1]	Odour Emission Rate, OU/m ² /s ^[2]	DO Inlet Odour Flow Rate, OU/s	Odour Removal Efficiency ^[1]	Exhaust Odour Emission Rate, OU/s
Wet well (s)	310	8.79	2725	90%	272.5
Inlet Chamber					
Coarse Screen Channel (s)					
Distribution Chamber					

Conversion of 1-hour Average to 5-second Average Concentration

Stability	1-hour Average Emission Rate, OU/s	Conversion Multiplier	5-second Average Emission Rate, OU/s	Reference
A	272.5	2.3	626.7	-Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales' - Katestone Scientific 1995, The Evaluation of Peak-to-Mean Ratios for Odour Assessments, volumes I and II, Katestone Scientific Pty Ltd, Brisbane. - Katestone Scientific 1998, Peak-to-Mean Concentration Ratios for Odour Assessments, Katestone Scientific Pty Ltd, Brisbane.
B	272.5	2.3	626.7	
C	272.5	2.3	626.7	
D	272.5	2.3	626.7	
E	272.5	2.3	626.7	
F	272.5	2.3	626.7	

Remarks:

[1] Provided by engineer

[2] Reference to pumping station of appendix 3.4 in the approved EIA report of Harbour Area Treatment Scheme (HATS) Stage 2A