

**Annex 3A-1 Odour Emission Rate Estimation for Permanent Sha Tau Kok Sewage Treatment Works (STKSTW) and Temporary Sewage Treatment Plant (TSTP)**

	Unit	Permanent Sha Tau Kok Sewage Treatment Works (STKSTW)		Temporary Sewage Treatment Plant (TSTP)		Remarks
		STKSTW No.1	STKSTW No.2	TSTP No.1	TSTP No.2	
Locations	-					-
No. Emission Points	-	1		1	1	1 emission point for both STKSTW No.1 and STKSTW No.2
Stack height	m above ground	17.65		16.30	16.30	For STKSTW, stack is located 2m above the building rooftop. Building height is 15.65m. For TSTP No.1 and No.2, stacks are located 2m above the building rooftop. Building height is 14.3m.
Stack diameter	m	1.5 x 1.5		0.15	0.25	Provided by enigneer
Equivalent stack diameter	m	1.69		0.15	0.25	Provided by enigneer
Exit temperature	-	Ambient		Ambient	Ambient	Provided by enigneer
Total flowrate @ exit temp	m <sup>3</sup> /hr	70279	46722	3952	9293	Provided by enigneer
	m <sup>3</sup> /s	19.52	12.98	1.10	2.58	Provided by enigneer
Exit velocity	m/s	14.44		15.53	13.15	Provided by enigneer
Odour Emission Rate at inlet	Ou/s	17600	16300	3500	160	Provided by enigneer
% of odour removal	%	99.5	99.5	99.5	99.5	Provided by enigneer
Odour emission rate at exhaust	Ou/s	169.5		17.5	0.8	By Calculation