

APPENDIX 16.2
Breakdowns for Flow Projections

Appendix 16.2A

Breakdowns of Flow Projections for Kai Tak Development

Flow Projection of Kai Tak Development to KTPTW
(including sewage flow from the vessels)

Appendix 16.2A-1

Kai Tak Development - Catchment 1

	Population		Unit Flow Factor		Sewage Flows	
	2016	2021	Unit	UFF	ADWF	
				(m ³ /d/capita)	2016	2021
					(m ³ /d)	(m ³ /d)
Domestic						
RS	35,000	35,000	person	0.18	6,125	6,125
R1	0	0	person	0.24	0	0
R2	10,812	10,812	person	0.30	3,244	3,244
R3	0	0	person	0.37	0	0
Mixed Use	0	1,819	person	0.37	0	673
Commercial						
Employment	865	4,285	employee	0.35	303	1,500
Institutional	8,420	8,420	person	0.03	211	211
Other						
Hotel	0	0	person	0.24	0	0
Hospital	0	0	person	0.37	0	0
				TOTAL	9,883	11,753

Kai Tak Development - Catchment 2

	Population		Unit Flow Factor		Sewage Flows	
	2016	2021	Unit	UFF	ADWF	
				(m ³ /d/capita)	2016 (m ³ /d)	2021 (m ³ /d)
Domestic						
RS	0	0	person	0.18	0	0
R1	0	0	person	0.24	0	0
R2	0	0	person	0.30	0	0
R3	0	4,873	person	0.37	0	1,803
Mixed Use	0	0	person	0.37	0	0
Commercial						
Employment	7,451	31,883	employee	0.35	2,608	11,159
Institutional	0	0	person	0.03	0	0
Other						
Hotel	3,179	9,238	person	0.24	763	2,217
Hospital	0	800	person	0.37	0	296
Cruise Passenger at Terminal	-	-	-	-	2,016	2,016
Cruise Vessel Discharge*	-	-	-	-	2,941	2,941
				TOTAL	8,328	20,432

Kai Tak Development - Catchment 3

	Population		Unit Flow Factor		Sewage Flows	
	2016	2021	Unit	UFF	ADWF	
				(m ³ /d/capita)	2016	2021
					(m ³ /d)	(m ³ /d)
Domestic						
RS	0	0	person	0.18	0	0
R1	0	0	person	0.24	0	0
R2	0	0	person	0.30	0	0
R3	0	0	person	0.37	0	0
Mixed Use	0	0	person	0.37	0	0
Commercial						
Employment	12,318	12,328	employee	0.35	4,311	4,315
Institutional	0	0	person	0.03	0	0
Other						
Hotel	0	0	person	0.24	0	0
Hospital	0	0	person	0.37	0	0
				TOTAL	4,311	4,315

NOTE: Please refer to Figure Nos. 16.6 and 16.7 for extent of catchments and discharge point locations.

Flow Projection of Kai Tak Development

Appendix 16.2A-2

Sewage flows from Kai Tak Developments are conveyed to two preliminary treatment works as follow:

Kwun Tong Preliminary Treatment Works	Catchments E, F, G, H, I, J, L
To Kwa Wan Preliminary Treatment Works	Catchments A, B, C, D, K

Notes:

(1) Projected flows from Catchments I and J are calculated to be negligible and are not presented in this Working Paper.

Catchment A

	Population		Unit flow factor		Sewage Flows	
	2016	2021	Unit	UFF (m ³ /day)	2016 (m ³ /day)	2021 (m ³ /day)
Domestic						
RS	0	0	person	0.175	0	0
R1	0	0	person	0.240	0	0
R2	0	0	person	0.300	0	0
R3	0	0	person	0.370	0	0
Mixed Use	2,312	2,312	person	0.370	856	856
Commercial						
Employment	11,544	17,562	employee	0.350	4,040	6,147
Hotel	0	2,832	person	0.240	0	680
Hospital	0	0	person	0.370	0	0
School						
School	0	0	person	0.025	0	0
TOTAL					4,896	7,683

Catchment B

	Population		Unit flow factor		Sewage Flows	
	2016	2021	Unit	UFF (m ³ /day)	2016 (m ³ /day)	2021 (m ³ /day)
Domestic						
RS	0	0	person	0.175	0	0
R1	0	0	person	0.240	0	0
R2	0	13,921	person	0.300	0	4,176
R3	0	0	person	0.370	0	0
Mixed Use	0	0	person	0.370	0	0
Commercial						
Employment	5,141	13,647	employee	0.350	1,799	4,776
Hotel	0	0	person	0.240	0	0
Hospital	0	0	person	0.370	0	0
School						
School	0	0	person	0.025	0	0
TOTAL					1,799	8,952

Catchement C
Appendix 16.2A-2

	Population		Unit flow factor		Sewage Flows	
	2016	2021	Unit	UFF (m ³ /day)	2016 (m ³ /day)	2021 (m ³ /day)
Domestic						
RS	0	0	person	0.175	0	0
R1	0	0	person	0.240	0	0
R2	0	0	person	0.300	0	0
R3	0	0	person	0.370	0	0
Mixed Use	0	0	person	0.370	0	0
Commercial						
Employment	2,261	2,261	employee	0.350	791	791
Hotel	0	0	person	0.240	0	0
Hospital	0	0	person	0.370	0	0
School						
School	0	0	person	0.025	0	0
Others						
Handwashing at toilets in Stadium	-	-	-	-	950	950
Showering in Stadium	-	-	-	-	173	173
Toilet flushing in Stadium	-	-	-	-	4,604	4,604
TOTAL					6,518	6,518

Catchement D

	Population		Unit flow factor		Sewage Flows	
	2016	2021	Unit	UFF (m ³ /day)	2016 (m ³ /day)	2021 (m ³ /day)
Domestic						
RS	0	0	person	0.175	0	0
R1	4,740	4,740	person	0.240	1,138	1,138
R2	0	3,298	person	0.300	0	989
R3	0	0	person	0.370	0	0
Mixed Use	0	0	person	0.370	0	0
Commercial						
Employment	501	684	employee	0.350	175	239
Hotel	0	0	person	0.240	0	0
Hospital	0	0	person	0.370	0	0
School						
School	4,210	5,480	person	0.025	105	137
TOTAL					1,418	2,503

Catchement E

	Population		Unit flow factor		Sewage Flows	
	2016	2021	Unit	UFF (m ³ /day)	2016 (m ³ /day)	2021 (m ³ /day)
Domestic						
RS	0	0	person	0.175	0	0
R1	0	0	person	0.240	0	0
R2	0	0	person	0.300	0	0
R3	0	0	person	0.370	0	0
Mixed Use	0	0	person	0.370	0	0
Commercial						
Employment	12,318	12,328	employee	0.350	4,311	4,315
Hotel	0	0	person	0.240	0	0
Hospital	0	0	person	0.370	0	0
School						
School	0	0	person	0.025	0	0
TOTAL					4,311	4,315

Catchement F
Appendix 16.2A-2

	Population		Unit flow factor		Sewage Flows	
	2016	2021	Unit	UFF (m ³ /day)	2016 (m ³ /day)	2021 (m ³ /day)
Domestic						
RS	0	0	person	0.175	0	0
R1	0	0	person	0.240	0	0
R2	0	0	person	0.300	0	0
R3	0	4,873	person	0.370	0	1,803
Mixed Use	0	0	person	0.370	0	0
Commercial						
Employment	7,371	11,154	employee	0.350	2,580	3,904
Hotel	3,179	9,238	person	0.240	763	2,217
Hospital	0	0	person	0.370	0	0
School						
School	0	0	person	0.025	0	0
TOTAL					3,343	7,924

Catchement G

	Population		Unit flow factor		Sewage Flows	
	2016	2021	Unit	UFF (m ³ /day)	2016 (m ³ /day)	2021 (m ³ /day)
Domestic						
RS	35,000	35,000	person	0.175	6,125	6,125
R1	0	0	person	0.240	0	0
R2	10,812	10,812	person	0.300	3,244	3,244
R3	0	0	person	0.370	0	0
Mixed Use	0	0	person	0.370	0	0
Commercial						
Employment	865	865	employee	0.350	303	303
Hotel	0	0	person	0.240	0	0
Hospital	0	0	person	0.370	0	0
School						
School	8,420	8,420	person	0.025	211	211
TOTAL					9,883	9,883

Catchement H

	Population		Unit flow factor		Sewage Flows	
	2016	2021	Unit	UFF (m ³ /day)	2016 (m ³ /day)	2021 (m ³ /day)
Domestic						
RS	0	0	person	0.175	0	0
R1	0	0	person	0.240	0	0
R2	0	0	person	0.300	0	0
R3	0	0	person	0.370	0	0
Mixed Use	0	0	person	0.370	0	0
Commercial						
Employment	80	20,729	employee	0.350	28	7,255
Hotel	0	0	person	0.240	0	0
Hospital	0	800	person	0.370	0	296
School						
School	0	0	person	0.025	0	0
TOTAL					28	7,551

Catchement K
Appendix 16.2A-2

	Population		Unit flow factor		Sewage Flows	
	2016	2021	Unit	UFF (m ³ /day)	2016 (m ³ /day)	2021 (m ³ /day)
Domestic						
RS	0	0	person	0.175	0	0
R1	0	0	person	0.240	0	0
R2	0	8,673	person	0.300	0	2,602
R3	0	0	person	0.370	0	0
Mixed Use	0	0	person	0.370	0	0
Commercial						
Employment	30	208	employee	0.350	11	73
Hotel	0	0	person	0.240	0	0
Hospital	0	0	person	0.370	0	0
School						
School	0	0	person	0.025	0	0
TOTAL					11	2,675

Catchement L

	Population		Unit flow factor		Sewage Flows	
	2016	2021	Unit	UFF (m ³ /day)	2016 (m ³ /day)	2021 (m ³ /day)
Domestic						
RS	0	0	person	0.175	0	0
R1	0	0	person	0.240	0	0
R2	0	0	person	0.300	0	0
R3	0	0	person	0.370	0	0
Mixed Use	0	1,819	person	0.370	0	673
Commercial						
Employment	0	3,420	employee	0.350	0	1,197
Hotel	0	0	person	0.240	0	0
Hospital	0	0	person	0.370	0	0
School						
School	0	0	person	0.025	0	0
TOTAL					0	1,870

Sub-Planning Area	Site No.	Use Designation	Use Specification	Site Area (m ²)	Domestic Plot Ratio	Domestic GFA(m ²)	No. of Plots	Population	Non-domestic Plot Ratio	Non-domestic GFA (m ²)	Office GFA (m ²)	Retail GFA (m ²)	Hotel GFA (m ²)	No. of Hotel Rooms	Employment	Other Uses & Facilities / Remarks	Flow Factor (Primary) m ³ /d	Flow Factor (Secondary) m ³ /d	Estimated Flow m ³ /d	Complete year
IC	1	G	Kowloon East Police Headquarters	9,100											850			0.35	297.50	EXISTING
1D	1	IC	Electricity Substation	1,500														0.09	0.09	EXISTING
	2	C		8,800					4.50	39,600	35,200	4,400			1,916			0.35	677.60	2016
	3	G	Mail Delivery Office, General Clinic, Day Activity Centre, Sheltered Workshop, Hostel for Moderately Mentally Handicapped Person, Hostel for Severely Mentally Handicapped Person, Integrated Family Service Centre, Social Field Unit	9,889											190	Day Activity Centre (50 places) : 319 sqm NOFA; Sheltered Workshop (120 places) : 696sqm NOFA; Hostel for Moderately Mentally Handicapped Person (50 places): 514 sqm NOFA; Hostel for Severely Mentally Handicapped person (50 places): 661 sqm NOFA; Mail Delivery Office : 260/sqm IFA; General Clinic : 2220 sqm; Integrated Family Service Centre : 564sqm NOFA; Social Field Unit: 411 sqm	0.35		66.50	2016
	4	G	Government Offices with Open Space	9,667											2,500	Around 50,000m ² GFA envisaged; 3,200 daily visitors envisaged; Community Hall : 593 sqm NOFA.	0.35		875.00	2012
1E	5	G	Sewage Pumping Station	3,200															0.00	2012
	2	C		14,200															1242.50	2016
1F	1	OU	Mix Use	16,300	4.00	65,200	869	2,312	3.00	71,000	71,000	8,150			3,530		0.35		0.00	2012
										48,900	40,750				2,364	Two office blocks and two residential blocks are assumed.	0.35	0.35	1682.82	2016
	2	CDA	Comprehensive Development Area	17,700					9.50	168,150	70,800	26,550	70,800		6,018		0.37	0.35	2783.98	2016
	3	OU	Railway Station with Commercial Uses	7,700					0.50	3,850		3,850			154		0.35		53.90	2016

Sub-Planning Area	Site No.	Use Designation	Use Specification	Site Area (m ²)	Domestic Plot Ratio	Domestic GFA(m ²)	No. of Plots	Population	Non-domestic Plot Ratio	Non-domestic GFA (m ²)	Office GFA (m ²)	Retail GFA (m ²)	Hotel GFA (m ²)	No. of Hotel Rooms	Employment	Other Uses & Facilities / Remarks	Flow Factor (Primary) m ³ /d	Flow Factor (Secondary) m ³ /d	Estimated Flow m ³ /d	Complete Year
ID	6	G	DSD Drilling Compound	2,800													0.35		0.00	2016
1M	1	CDA	Comprehensive Development Area	19,700															1034.25	2016
2A	2	C		12,000	3.50	42,000			4.50	88,650			29,550	591	2,955		0.35	0.35	693.00	2016
	1	C		7,000	4.50	31,500			4.50	31,500	30,000	12,000			1,980		0.35		526.75	2021
	2	C		6,800	4.50	30,600			4.50	29,700	23,800	6,800			1,505		0.35		511.70	2021
	3	C		6,600	4.50	29,700			4.50	29,700	23,100	6,600			1,462		0.35		496.65	2021
	4	C		6,600	4.50	29,700			4.50	29,700	23,100	6,600			1,419		0.35		496.65	2021
	5	C		7,100	4.50	31,950			4.50	31,950	24,850	7,100			1,527		0.35		534.28	2021
	6	C		4,000	4.50	18,000			4.50	18,000	14,000	4,000			860		0.35		301.00	2021
2B	7	G	Electricity Substation	6,000													0.35		0.00	2021
	8	G	Sub-divisional Fire Station, Ambulance Depot with Departmental Quarters	4,100											70		0.35		24.50	2016
	9	IC	Sewage Pumping Station	1,800													0.35		0.00	2012
	10	G	Refuse Collection Point	600													0.35		0.00	2012
	11	OU	Underground Walkway with Ancillary Commercial Facilities	13,200													0.35		37.10	2016
	1	R2		21,700	5.00	108,500	1,447	3,848	0.10	2,640		2,640			106		0.35	0.35	1184.82	2021
	2	R2		11,200	5.00	56,000	747	1,986	0.10	1,120		2,170			87		0.35	0.35	611.52	2021
	3	R2		11,200	5.00	56,000	747	1,986	0.10	1,120		1,120			45		0.35	0.35	611.52	2021
	4	R2		12,000	5.00	60,000	800	2,128	0.10	1,200		1,200			45		0.35	0.35	655.20	2021
	5	R2		11,400	5.00	57,000	760	2,022	0.10	1,140		1,140			46		0.35	0.35	622.44	2021
	6	R2		11,000	5.00	55,000	733	1,951	0.10	1,100		1,100			44		0.35	0.35	600.60	2021
2C	1	IC	Sports Facility	6,400											30		0.35		10.50	EXISTING

Appendix 16.2A-3																					
Sub-Planning Area	Site No.	Use Designation	Use Specification	Site Area (m2)	Domestic Plot Ratio	Domestic GFA(m2)	No. of Flats	Population	Non-domestic Plot Ratio	Non-domestic GFA (m2)	Office GFA (m2)	Retail GFA (m2)	Hotel GFA (m2)	No. of Hotel Rooms	Employment	Other Uses & Facilities / Remarks	Flow Factor (Primary) m3/d	Flow Factor (Secondary) m3/d	Estimated Flow m3/d	Complete year	
2C	2	G	Sewage Pumping Station	2,600												Subject to the confirmation from DSD, the proposed pumping station may not be required and could be allocated for other GIC uses.	0.35	0.09		2016	
2D	I	HO	Stadium	232,300					0.18	41,500	10,000	31,500			2,160	Total GFA and plot ratio have excluded those required for main stadium, secondary stadium, indoor sports arena, 2500m ² medical center, 7000m ² ten pin bowling alley and 7000m ² ice skating rink	0.35		756.00	2016-2021	
	2	OU	Waterfront Related Commercial and Leisure Uses	3,600					0.70	2,520		2,520			101				Handwashing at toilets Showering toilet flushing	950.00 173.00 4604.00	2016-2021 2016-2021 2016-2021
																	0.35		35.35	2016	

Sub-Planning Area	Site No.	Use Designation	Use Specification	Site Area (m ²)	Domestic Plot Ratio	Domestic GFA(m ²)	No. of Flats	Population	Non-domestic Plot Ratio	Non-domestic GFA (m ²)	Office GFA (m ²)	Retail GFA (m ²)	Hotel GFA (m ²)	No. of Hotel Rooms	Employment	Other Uses & Facilities / Remarks	Flow Factor (Primary) m ³ /d	Flow Factor (Secondary) m ³ /d	Estimated Flow m ³ /d	Complete year	
SA	1	G	Sewage Pumping Station	2,500														0.35	0.00	0.00	2016
	2	IC	Electricity Substation	2,000														0.35	0.00	0.00	2016
	3	OU	Waterfront Related Commercial and Leisure Uses	3,900														0.35			
	4	R2		18,600	5.00	93,000	1,240	3,298	0.70	2,730		2,730		109				0.35		38.15	2021
	5	RI		12,200	7.50	91,500	1,782	4,740	1.00	1,860		1,860		74				0.35	0.35	1015.30	2021
SB	1	OU	Tunnel Ventilation Shaft	2,500														0.24	0.35	1308.40	EXISTING
	2	G	Public Transport Interchange	12,200														0.35	0.00	0.00	2016
	3	OU	Public Pier	300														0.35	0.00	0.00	EXISTING
	4	OU	Passenger Pier	1,600														0.35	0.00	0.00	EXISTING
	5	OU	Waterfront Related Commercial and Leisure Uses	300														0.35	1.75	1.75	EXISTING
SC	6	OU	Railway Ventilation Shaft	1,800														0.35	2.80	2.80	EXISTING
	1	G	Refuse Collection Point	200														0.35	0.00	0.00	2016
	2	IC	Electricity Substation	700														0.35	0.00	0.00	2021
	3	E	Primary School	1,900													Assume there are 1400 students	0.025		36.75	EXISTING
	4	E	Primary School	2,200													Assume there are 1400 students	0.025		36.75	EXISTING
	5	E	Secondary School	8,400													Assume there are 1200 students	0.025		31.75	2021
	6	E	Secondary School	7,700													Assume there are 1200 students	0.025		31.75	2013

Sub-Planning Area		Site No.	Use Designation	Use Specification	Site Area (m2)	Domestic Plot Ratio	Domestic GFA(m2)	No. of Flats	Population	Non-domestic Plot Ratio	Non-domestic GFA (m2)	Office GFA (m2)	Retail GFA (m2)	Hotel GFA (m2)	No. of Hotel Rooms	Employment	Other Uses & Facilities / Remarks	Flow Factor (Primary) m3/d	Flow Factor (Secondary) m3/d	Estimated Flow m3/d	Complete year	
iK	1	R2			9,700	4.50	43,650	582	1,548	0.10	970		970			39			0.3	0.35	478.02	2021
	2	R2			9,700	4.50	43,650	582	1,548	0.10	970		970			39			0.3	0.35	478.02	2021
	3	R2			11,300	4.50	50,850	678	1,803	0.20	2,260		2,260			90			0.3	0.35	572.40	2021
IL	1	R2			7,300	4.50	32,850	438	1,165										0.3		349.52	2021
	2	R2			9,500	4.50	42,750	570	1,516										0.3		454.86	2021
	3	R2			8,800	3.50	30,800	411	1,092										0.3		327.60	2021
ID	4	IC	Sports Facility		4,300														0.35		3.50	2021
	5	G	Sewage Pumping Station		3,200														0.35		0.00	2021
	1	G	DSD Desilting Compound		17,700														0.35		3.50	2021
	2	OU	Tunnel Ventilation Shaft and Administration Building		7,200														0.35		3.50	2016
	3	OU	Tunnel Ventilation Shaft and Administration Building		15,200														0.35		3.50	Existing
															10			0.35		3.50	2016	

Appendix 16.2A-3

Sub-Planning Area	Site No.	Use Designation	Use Specification	Site Area (m ²)	Domestic Plot Ratio	Domestic GFA(m ²)	No. Of Flats	Population	Non-domestic Plot Ratio	Non-domestic GFA (m ²)	Office GFA (m ²)	Retail GFA (m ²)	Hotel GFA (m ²)	No. of Hotel Rooms	Employment	Other Uses & Facilities / Remarks	Flow Factor (Primary) m ³ /d	Flow Factor (Secondary) m ³ /d	Estimated Flow m ³ /d	Complete year
N1	1	G	EMSD Headquarters	30,000											2,500			0.35	875.00	EXISTING
	2	G	District Cooling System Plant	10,100											10			0.35	3.50	2021
IO	1	O/U	Trade Mart and Commercial Development	22,200					12.00	266,400	111,000	22,200			9,768	Plot ratio 6 has been assumed for exhibition use in total GFA	0.35		3418.80	EXISTING
3A	2	O/U	Petrol Filling Station/ Liquefied Petroleum Gas Filling Station	1,400											20		0.35		7.00	EXISTING
	1	G	Animal Management Centre	2,300													0.35	0.00	0.00	2021
3B	2	O/U	Petrol Filling Station/ Liquefied Petroleum Gas Filling Station	3,700											30		0.35		10.50	EXISTING
	1	G		7,400													0.35		0.00	2021
	2	G		8,800													0.35		0.00	2021
	3	G		10,500													0.35		0.00	2021
	4	G		9,300													0.35		0.00	2021
	5	G	Refuse Collection Point	600													0.35		0.00	2021

[illegible]

Sub-Planning Area	Site No.	Use Designation	Use Specification	Site Area (m ²)	Domestic Plot Ratio	Domestic GFA (m ²)	No. of Flats	Population	Non-domestic Plot Ratio	Non-domestic GFA (m ²)	Office GFA (m ²)	Retail GFA (m ²)	Hotel GFA (m ²)	No. of Hotel Rooms	Employment	Other Uses & Facilities / Remarks	Flow Factor (Primary) m ³ /d	Flow Factor (Secondary) m ³ /d	Estimated Flow m ³ /d	Complete year
1A	1	RS	Public Rental Housing	34,700	6.30	218,610	5,122	14,300	0.30	10,410		8,000			435	Non-domestic PR of 0.10 and GFA of 10,410 sqm includes: Shopping Facility; Estate Management Accommodation; Kindergarten; Neighbourhood Elderly Centre and/or Integrated Children and Youth Centre and/or Adult Education Centre as a repurposing facility and excludes car parking facilities. Domestic GFA of 218,610 sqm is committed provision based on PR 6.5 and gross site area.	0.175	0.35	2654.75	2012
	2	E	Secondary School	8,400											70	Assume there are 1200 students	0.025		31.75	2012
	3	E	Primary School	6,200											70	Assume there are 1400 students	0.025		36.75	2012
	4	E	Primary School	6,300											70	Assume there are 1400 students	0.025		36.75	2012
	5	IC	Electricity Substation	3,700													0.35		0.00	2012
1B	1	RS	Public Rental Housing	57,000	5.51 (based on site area 57,000m ²)	314,070	7,878	20,700	0.10	5,700		3,700			163	Non-domestic PR of 0.10 and GFA of 5,700 sqm includes: Shopping Facility; Estate Management Accommodation; Kindergarten; Neighbourhood Elderly Centre and/or Integrated Children and Youth Centre and/or Adult Education Centre as a repurposing facility and excludes car parking facilities. Domestic GFA of 314,070 sqm is committed provision based on PR 5.51 and gross site area.	0.175	0.35	3679.55	2012
IG	2	E	Primary School	6,300											70	Assume there are 1400 students	0.025		36.75	2016
	3	E	Secondary School	7,000											70	Assume there are 1200 students	0.025		31.75	2012
	4	E	Primary School	6,300											70	Assume there are 1400 students	0.025		36.75	2016
1H	1	R2		11,400	5.00	57,000	760	2,022	0.10	1,140		1,140		46			0.3	0.35	622.44	2016
	2	R2		7,800	5.00	39,000	520	1,383	0.10	780		780		31			0.3	0.35	425.88	2016
	3	R2		8,600	5.00	43,000	573	1,525	0.10	860		860		34			0.3	0.35	469.56	2016
1I	1	R2		7,700	5.00	38,500	513	1,365	0.10	770		770		31			0.3	0.35	420.42	2016
	2	R2		8,800	4.50	39,600	528	1,404									0.3	0.35	421.34	2016
	3	R2		9,300	4.50	41,550	558	1,484									0.3	0.3	445.28	2016
1J	1	G	Divisional Police Station	10,200	4.50	45,900	612	1,628							70		0.35		488.38	2016
	2	G	Sewage Pumping Station and Refuse Collection Point	4,200													0.35		34.50	2012
	3	G	Indoor Recreation Centre, Major Library	2,681													0.35		0.00	2016
				8,600											35	Type C Sport Centre, Total Floor Area = 4,830 sqm	0.35		19.25	2016

Sub-Planning Area	Site No.	Use Designation	Use Specification	Site Area (m ²)	Domestic Plot Ratio	Domestic GFA(m ²)	No. of Flats	Population	Non-domestic Plot Ratio	Non-domestic GFA (m ²)	Office GFA (m ²)	Retail GFA (m ²)	Hotel GFA (m ²)	No. of Hotel Rooms	Employment	Other Uses & Facilities / Remarks	Flow Factor (Primary) m ³ /d	Flow Factor (Secondary) m ³ /d	Estimated Flow m ³ /d	Complete year	
3A	3	G	DSD Dairling Compound	7,200														0.35		0.00	2016
	4	OU	Tunnel Ventilation Shaft	4,100														0.35		0.00	2016
3C	1	G	Hospital, Specialist Clinic	74,700											2,500			0.35	0.37	1171.00	Assume there are 800 person 2021
	2	G	Sub-Divisional Fire Station and Ambulance Facility	2,200											70			0.35		24.50	2012
3D	1	OU	Liquefied Petroleum Gas Filling Station	1,100											10			0.35		3.50	EXISTING
	2	C		5,500	9.50	52,250					52,250				2,613			0.35		914.55	2021
3E	3	C		6,500		61,750					58,500	3,250			3,055			0.35		1069.25	2021
	4	C		19,700		187,150					167,450	19,700			9,161			0.35		3206.35	2021
	1	C		7,000	9.50	66,500					63,000	3,500			3,290			0.35		1151.50	2021
	2	OU	Gas Filling Station	3,400											30			0.35		10.50	2021

Sub-Planning Area	Site No.	Use Designation	Use Specification	Site Area (m ²)	Domestic Plot Ratio	Domestic GFA(m ²)	No. of Plots	Population	Non-domestic Plot Ratio	Non-domestic GFA (m ²)	Office GFA (m ²)	Retail GFA (m ²)	Hotel GFA (m ²)	No. of Hotel Rooms	Employment	Other Uses & Facilities / Remarks	Flow Factor (Primary) m ³ /d	Flow Factor (Secondary) m ³ /d	Estimated Flow m ³ /d	Complete year
IE	1	OU	Mix Use	17,100	3.00	51,300	684	1,819	4.00	68,400	68,400				3,420	Two office blocks and two residential blocks are assumed.	0.37	0.35	1870.03	2021

APPENDIX 16.2B
***Breakdowns of Flow Projections for
KTIPS, KTPTW, TKWPTW and Trunk Sewers
along Hoi Bun Road***

Population and Flow Projection for Kwun Tong Intermediate Pumping Station

Appendix 16.2B-1

Basis:

- Population based on PlanD's TPEDM Data BY PVS ZONE (2003-based)
- Flow factors and assumed proportion of sewage flow of PVS served by PTWSTW according to Guidelines for Estimating Sewage Flows for Sewage Infrastructure Planning Version 1.0 (GESF)
- No categorization of residential populations for PlanD's data. Therefore, catchment specific IFF is adopted (instead of housing type specific one) for domestic flows.
- A catchment inflow factor (P_{in}) is adopted based on the GESF

SCAP	SCA	PVS	% in SCA in		Usual Residents		Full-Time School		Electricity, Gas and Water		Transport, Storage and		Import / Export		Financing, Insurance, Real		Agriculture		Construction		Hotels, Restaurants and		Community, Social and		Public Administration
			2002	2016	housing	Catchment-dependent	Placed	Manufacturing	Catchment-dependent	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12				
Year 2016 (TPEDM, 2003-based, Scenario II)																									
101	Kwun Tong	101	100%	100%	8,823	43	2,133	3,678	0	3,729	6,842	18,101	0	0	9,027	2,238	10,506	154							
102	Kwun Tong	102	10%	10%	4,070	53	664	7	0	86	97	19	48	2	46	77	388	131							
103	Kwun Tong	103	40%	40%	10,342	85	1,748	13	0	149	110	49	59	10	59	55	762	85							
104	Kwun Tong	104	0%	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
105	Kwun Tong	105	100%	100%	51,813	53	5,760	92	23	809	945	257	420	23	420	733	3,238	67							
106	Kwun Tong	106	100%	100%	39,009	960	7,917	469	0	1,235	1,279	1,241	1,748	23	1,748	921	3,925	13							
107	Kwun Tong	107	100%	100%	47,728	3	1,872	19	0	357	389	74	166	0	166	286	1,711	6							
108	Kwun Tong	108	100%	100%	84,545	733	15,365	127	26	1,380	2,102	509	1,054	20	1,054	1,390	6,416	255							
109	Kwun Tong	109	100%	100%	27,853	430	1,189	0	0	1,211	1,348	1,757	3,861	12	3,861	710	4,671	53							
110	Kwun Tong	110	100%	100%	0	0	751	0	0	7,531	7,040	21,345	11,865	0	11,865	1,087	4,157	535							
111	Kwun Tong	111	100%	100%	12,874	15	3,844	0	698	5,450	1,890	849	1,235	0	1,235	1,121	1,673	593							
112	Kwun Tong	112	100%	100%	50,757	303	2,697	96	0	670	1,078	248	711	8	711	688	2,690	54							
113	Kwun Tong	113	100%	100%	21,477	240	5,636	30	0	945	373	100	231	0	231	181	1,778	98							
114	Kwun Tong	114	100%	100%	25,939	282	1,092	46	0	402	302	114	186	36	186	262	1,386	0							
115	Kwun Tong	115	100%	100%	58,804	365	9,073	77	2	922	1,060	236	645	38	645	506	3,407	490							
116	Kwun Tong	116	100%	100%	28,127	1,412	8,183	76	7	488	444	249	278	0	278	308	2,900	0							
117	Kwun Tong	117	100%	100%	0	15	0	0	0	5,150	7,974	20,824	16,267	0	16,267	3161	2,131	0							
118	Kwun Tong	118	100%	100%	4	43	0	33	0	4,672	8,650	26,736	14,301	0	14,301	1,543	2,076	88							
119	Kwun Tong	119	100%	100%	39,273	917	8,456	119	6	750	2,385	459	1,302	12	1,302	1,536	3,977	612							
120	Kwun Tong	120	100%	100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
253	Kwun Tong	253	0%	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
254	Kwun Tong	254	0%	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
304	Kwun Tong	304	30%	30%	4,433	113	884	58	1	109	374	243	258	0	258	404	465	13							
305	Kwun Tong	305	40%	40%	28,508	578	4,050	62	0	483	707	183	547	14	547	462	2,435	53							
307	Kwun Tong	307	100%	100%	0	0	0	1,328	14	1,568	2,090	4,583	5,391	0	5,391	404	1,174	6							
308	Kwun Tong	308	100%	100%	0	11	0	0	0	1,423	2,028	6,399	5,800	0	5,800	480	1,174	121							
309	Kwun Tong	309	100%	100%	71	36	0	174	0	2,033	4,088	10,443	7,087	0	7,087	900	838	0							
336	Kwun Tong	336	0%	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
337	Kwun Tong	337	0%	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Subtotal, Population					544,448	6,711	91,191	6,504	779	40,833	54,465	116,018	83,106	197	83,106	19,230	61,980	3,537							
Flow Factor					0.190	0.175	0.040	0.590	0.33	0.16	0.28	0.08	0.08	0.08	0.08	0.23	1.56	0.28							
Catchment Inflow Factor					1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14							
Flow (m3/d)					117,928	1,339	4,158	3,930	283	4,617	17,395	10,490	7,579	18	7,579	7,056	34,658	19,784							
Flow + 2% (m3/d)					120,285	1,386	4,241	4,069	298	4,717	17,733	10,700	7,781	18	7,781	7,177	35,339	20,180							
Summary					Year 2016 (TPEDM, 2003-based, Scenario II)																				
Population					Residential																				
Flow Subtotal (m3/d)					Industrial																				
Flow + 2% Subtotal (m3/d)					School																				
Average Dry Weather Flow					Commercial																				
Year 2016 Scenario (m³/day)					Year 2016 Scenario (m³/day)																				
Year 2016 + 2% (m³/day)					Year 2016 + 2% (m³/day)																				
237,419					242,197																				

Explan:

- Population based on the interim version of the HK2030 Planning Data (Reference Scenario)

* Population based on the interim version of the HK2030 Planning Data (Reference Scenario)

Flow factors still acquired proportion of sewage flow of PWS served by PWTSTW according to Guidelines for Estimating Sewage Flows for Sewage Infrastructure Planning Version 4.0 (2008)

- A catchment inflow factor (P_{Cif}) is adopted based on the GEF

[illegible]

Notes:

- Population based on Plan O's TPEDM Data BY PVS ZONE (2003-based)
- Flow factors and assumed proportion of sewage flow of PVS served by PTWSTW according to Guidelines for Estimating Sewage Flows for Sanitary Infrastructure Planning Version 1.0 (GESF)
- No categorization of residential populations for Plan O's data. Therefore, catchment specific UFF is adopted (instead of housing type specific one) for domestic flows.
- A catchment inflow factor ($P_{C,i}$) is adopted based on the GESF

SCA*	SCA	PVS	% In SCA in		Usual Residents		Full-Time School		Manufacturing		Electricity, Gas and		Transport, Storage and		Import / Export		Insurance, Real		Community,		Public		
			2002	2016	housing	Mobile Residents	Places	Calchment-	Calchment-	Calchment-	Water	Communication	Wholesale and	Retail Trades	Trades	Services	Estates and	Business	Agriculture	Mining and		Hotels,	Restaurants and
Year 2018 (TPEDM, 2003-based, Scenario II)																							
	Kwun Tong	101	100%	8,823	43	297	2,133	3,678	0	0	3,729	6,642	18,101	9,027	0	0	0	0	0	0	2,238	10,506	154
	Kwun Tong	102	10%	4,070	93	128	864	7	0	69	97	110	19	46	0	0	0	0	0	77	386	131	
	Kwun Tong	103	40%	10,342	85	269	1,748	13	0	149	0	0	49	59	0	0	0	0	0	55	762	95	
	Kwun Tong	104	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Kwun Tong	105	100%	51,813	53	1,408	6,760	82	23	803	945	1,279	257	420	0	0	0	0	0	733	3,238	67	
	Kwun Tong	106	100%	39,009	960	7,917	4,589	469	0	1,235	1,279	1,241	23	23	0	0	0	0	0	3,925	13	13	
	Kwun Tong	107	100%	47,728	3	1,672	4,589	19	0	367	399	399	74	165	0	0	0	0	0	288	1,711	6	
	Kwun Tong	108	100%	84,545	733	3,672	15,365	127	28	1,348	2,002	2,002	509	1,054	0	0	0	0	0	268	6,415	255	
	Kwun Tong	109	100%	27,653	430	1,198	8,475	0	0	1,211	1,348	1,348	710	1,361	0	0	0	0	0	467	3,309	53	
	Kwun Tong	110	100%	0	0	0	751	0	0	7,331	7,040	21,345	21,345	11,585	0	0	0	0	0	1,087	4,157	535	
	Kwun Tong	111	100%	12,874	15	680	3,844	0	688	5,450	1,880	849	1,235	0	0	0	0	0	0	1,121	2,960	683	
	Kwun Tong	112	100%	50,757	303	1,542	2,697	96	0	870	1,078	248	248	711	0	0	0	0	0	568	2,960	64	
	Kwun Tong	113	100%	21,477	240	613	4,191	30	0	345	373	302	100	231	0	0	0	0	0	191	1,778	98	
	Kwun Tong	114	100%	25,559	262	1,082	4,191	48	0	402	302	302	114	166	0	0	0	0	0	252	1,388	0	
	Kwun Tong	115	100%	58,804	365	1,756	9,073	77	2	822	1,060	1,060	239	845	0	0	0	0	0	366	3,407	460	
	Kwun Tong	116	100%	28,127	1,412	950	6,193	76	7	488	444	444	249	278	0	0	0	0	0	508	2,900	0	
	Kwun Tong	117	100%	0	0	0	0	0	0	5,160	7,974	8,850	26,738	14,601	0	0	0	0	0	306	2,131	0	
	Kwun Tong	118	100%	38,273	917	1,530	6,456	33	0	4,572	8,850	8,850	26,738	14,601	0	0	0	0	0	3,138	3,161	0	
	Kwun Tong	119	100%	28,781	77	942	1,824	45	119	750	2,385	531	174	1,302	0	0	0	0	0	1,543	2,079	88	
	Kwun Tong	120	100%	55,969	8	1,822	3,627	46	0	461	531	401	133	322	23	0	0	0	0	1,543	3,977	612	
	Kwun Tong	121	100%	37,633	960	1,220	13,728	54	0	607	401	401	133	210	13	0	0	0	0	326	5,352	64	
	Kwun Tong	122	100%	25,101	101	955	1,201	257	0	578	510	510	173	321	12	0	0	0	0	120	1,765	0	
	Kwun Tong	123	100%	7,441	653	337	0	0	1,309	873	873	873	1,114	1,517	19	0	0	0	0	298	3,222	129	
	Kwun Tong	124	100%	14,604	271	734	451	677	0	346	288	288	1,114	1,517	19	0	0	0	0	398	3,222	129	
	Kwun Tong	125	100%	75,124	530	1,920	10,625	165	60	676	743	743	1,760	68	0	0	0	0	0	203	3,222	129	
	Kwun Tong	126	100%	35,351	181	1,143	5,015	39	155	871	894	894	293	0	0	0	0	0	0	397	1,037	82	
	Kwun Tong	127	100%	47,153	89	1,334	5,215	55	0	489	744	744	187	488	0	0	0	0	0	431	1,037	82	
	Kwun Tong	219	10%	5,581	650	206	1,143	174	0	633	988	988	188	479	0	0	0	0	0	223	3,950	546	
	Kwun Tong	233	0%	0	0	0	0	0	0	118	180	180	99	150	0	0	0	0	0	476	3,191	82	
	Kwun Tong	254	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	213	1,214	222	
	Kwun Tong	304	30%	4,433	113	106	694	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Kwun Tong	305	40%	26,508	579	821	4,050	62	0	109	374	243	243	268	0	0	0	0	0	404	465	13	
	Kwun Tong	307	100%	0	0	0	0	1,228	0	483	707	707	183	547	0	0	0	0	0	452	2,435	63	
	Kwun Tong	308	100%	0	0	0	0	0	14	1,568	2,060	2,060	4,553	5,391	0	0	0	0	0	404	1,174	5	
	Kwun Tong	309	100%	71	36	0	0	0	0	1,423	2,828	2,828	5,399	5,800	0	0	0	0	0	480	639	121	
	Kwun Tong	336	0%	0	0	0	0	0	0	2,033	4,066	4,066	10,443	7,687	0	0	0	0	0	900	839	0	
	Kwun Tong	337	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Subtotal Population			879,501	9,840	28,721	134,019	7,884	0	46,532	60,228	119,224	87,393	365	0	0	0	0	0	22,263	90,467	5,255	
	Flow Factor			0.190	0.175	0.190	0.040	0.630	0.33	0.18	0.28	0.08	0.08	0.08	0	0	0	0	0	1.58	0.28	0.08	
	Catchment Inflow Factor			1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.58	0.28	0.08	
	Flow (m ³ /day)			190,500	1,963	5,438	6,111	4,753	327	9,631	19,225	10,873	10,873	7,970	33	0	0	0	0	1.58	0.28	0.08	
	Flow * 2% (m ³ /day)			194,308	2,002	6,657	6,233	4,858	334	9,854	19,610	11,090	11,090	8,120	34	0	0	0	0	1.58	0.28	0.08	
	Summary			Year 2016 (TPEDM, 2003-based, Scenario II)																			
	Population			Residential	School	Industrial	Commercial																
	Flow Subtotal (m ³ /day)			194,308	134,019	7,884	164,763																
	Flow Subtotal (m ³ /day)			198,901	6,111	4,753	125,877																
	Flow * 2% Subtotal (m ³ /day)			202,878	6,233	4,858	128,389																
	Average Ditch Weather Flow			Year 2016 Scenario (m ³ /day)																			
	Year 2016 - 2% (m ³ /day)			335,662																			
	Year 2016 - 2% (m ³ /day)			342,365																			

- Population based on the Interim version of the HC2030 Planning Data (Reference Scenario)

No categorization of residential populations for the purpose of estimating flows for sewage infrastructure planning Version 1.0 (GESF)

A catchment inflow factor (P_{in}) is adopted based on the following considerations:

SCAR	SCA	PVS	% in SCA in 2008	Usual Residents -				Electricity, Gas and Water		Financing					Community, Social and Personal Services				J12																			
				Usual Residents -		Mobile Residents		Full-Time School Places	Manufacturing	Wholesale and Retail Trade	Import/Export	Business Services	Real Estate	Insurance	Agriculture	Mining and Quarrying	Construction	Hotels, Restaurants and Boarding Houses		J11																		
				Permanent Housing	Other Housing	Calchmitt-dependent	Calchmitt-dependent														J1	J2	J3	J4	J5	J6	J7	J8	J9	J10								
Year 2030 (HCO30 Planning Data - Ref. Scenario)																																						
Kuon Tong	101	100%	100%	15,436	35	602	2,133	2,050	0	2,766	1,919	11,301	2,644	0	0	0	2,289	2,210	10,362	111																		
Kuon Tong	102	10%	10%	4,220	75	164	747	2	0	72	86	18	53	2	0	0	75	70	420	83																		
Kuon Tong	103	40%	40%	9,332	68	343	1,748	3	0	148	84	45	66	8	0	0	151	46	795	89																		
Kuon Tong	104	0%	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
Kuon Tong	105	100%	100%	52,078	28	1,844	6,760	21	17	843	841	2,141	482	18	0	0	777	691	3,545	48																		
Kuon Tong	106	100%	100%	43,631	773	1,754	7,917	106	4	1,409	1,490	2,144	2,123	16	0	0	1,022	1,165	4,914	9																		
Kuon Tong	107	100%	100%	47,511	3	2,029	8,827	4	0	408	569	126	242	16	0	0	456	449	2,946	4																		
Kuon Tong	108	100%	100%	67,100	600	3,386	15,369	28	21	1,399	1,884	479	210	20	0	0	1,216	1,275	6,680	184																		
Kuon Tong	109	100%	100%	26,819	323	1,262	8,475	0	0	1,258	891	1,857	3,441	10	0	0	703	300	3,352	1,078																		
Kuon Tong	110	100%	100%	0	0	0	0	1,205	0	7,853	4,826	20,161	9,901	0	0	0	5,598	1,402	3,587	490																		
Kuon Tong	111	100%	100%	12,327	8	688	4,167	46	520	660	1,221	614	675	0	0	0	466	924	1,948	462																		
Kuon Tong	112	100%	100%	37,476	208	1,462	2,897	22	0	660	803	223	803	9	0	0	595	572	1,862	39																		
Kuon Tong	113	100%	100%	21,824	192	805	5,153	7	0	349	288	80	244	0	0	0	282	117	1,652	71																		
Kuon Tong	114	100%	100%	60,862	210	1,954	4,151	10	0	540	463	151	282	15	0	0	610	470	2,899	0																		
Kuon Tong	115	100%	100%	69,868	285	2,319	9,073	18	1	873	558	229	739	25	0	0	791	439	3,981	353																		
Kuon Tong	116	100%	100%	30,418	1,128	1,316	6,193	17	5	636	521	255	332	0	0	0	323	388	3,577	0																		
Kuon Tong	117	100%	100%	0	14	0	0	1,057	0	4,655	2,760	17,307	9,764	0	0	0	343	2,428	1,594	0																		
Kuon Tong	118	100%	100%	0	8	0	0	1,773	0	3,748	2,648	21,581	1,512	0	0	0	312	1,240	1,422	64																		
Kuon Tong	119	100%	100%	42,700	395	1,971	6,027	27	4	875	723	148	349	20	0	0	547	239	5,428	46																		
Kuon Tong	120	100%	100%	26,886	92	1,066	1,824	10	0	453	409	221	273	7	0	0	359	477	3,324	0																		
Kuon Tong	121	100%	100%	81,598	623	3,024	3,627	10	0	791	783	221	273	7	0	0	559	214	3,378	90																		
Kuon Tong	122	100%	100%	30,860	603	1,450	13,068	12	0	984	308	149	347	10	0	0	744	280	5,158	274																		
Kuon Tong	123	100%	100%	23,077	81	1,019	1,201	84	0	385	448	1182	1,638	16	0	0	181	330	680	85																		
Kuon Tong	124	100%	100%	12,886	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
Kuon Tong	125	100%	100%	16,193	222	867	451	14	59	643	712	333	100	0	0	0	181	330	1,231	59																		
Kuon Tong	126	100%	100%	76,921	424	2,471	10,823	38	0	945	521	324	347	0	0	0	1,049	303	5,420	116																		
Kuon Tong	127	100%	100%	32,424	145	1,293	5,015	9	0	510	593	182	539	8	0	0	479	303	3,075	395																		
Kuon Tong	128	100%	100%	48,540	79	1,655	5,215	13	0	855	847	170	534	30	0	0	618	387	3,442	59																		
Kuon Tong	129	10%	10%	10,158	388	437	1,095	8	7	166	489	96	207	19	0	0	168	545	1,958	160																		
Kuon Tong	130	0%	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
Kuon Tong	131	0%	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
Kuon Tong	132	30%	30%	4,397	20	146	884	28	0	113	269	181	234	0	0	0	84	362	491	9																		
Kuon Tong	133	40%	40%	28,398	509	0	4,050	14	0	815	632	171	632	11	0	0	485	406	2,513	45																		
Kuon Tong	134	100%	100%	0	0	0	0	536	11	1,270	4,870	3,729	3,025	0	0	0	1,847	1,351	634	5																		
Kuon Tong	135	100%	100%	0	3	0	0	446	0	1,195	1,072	5,957	3,025	0	0	0	2,994	239	419	87																		
Kuon Tong	136	100%	100%	70	37	1	0	1,004	0	1,789	1,446	9,862	3,454	0	0	0	1,533	1,214	804	0																		
Kuon Tong	137	0%	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
Kuon Tong	138	0%	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
Subtotal Population																				919,242	8,858	131,570	8,528	647	48,128	35,543	100,073	55,468	265	0	0	0	0	34,728	22,356	98,335	4,888	
Flow Factor																				0.190	0.175	0.040	0.530	0.33	0.16	0.28	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.23	1.55	0.23	0.08	
Calchmitt Inflow Factor																				1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	
2030 Flow (m³/day)																				169,138	7,895	6,018	52,13	243	9,280	11,345	9,127	5,059	24	0	9,106	40,957	31,389	448	31,389	448	31,389	448
2030 + 10% Flow (m³/day)																				219,017	1,527	8,795	6,020	274	10,168	12,480	10,040	5,565	26	0	10,917	44,394	34,528	491	34,528	491	34,528	491
Ultimate Flow (m³/day)																				205,663	1,457	6,365	6,319	255	9,714	11,812	9,983	5,312	25	0	9,981	42,380	32,589	488	32,589	488	32,589	488
Ultimate + 10% Flow (m³/day)																				229,970	1,603	6,951	6,951	281	10,695	13,109	10,542	5,843	28	0	10,817	46,536	36,254	515	36,254	515	36,254	515
Summary																				Year 2030 (HCO30 Planning Data - Ref. Scenario)																		
Population																				963,111	8,828	131,570	8,528	647	48,128	35,543	100,073	55,468	265	0	0	0	0	34,728	22,356	98,335	4,888	
Flow Subtotal (m³/day)																				208,491	6,018	5,213	110,266	243	9,280	11,345	9,127	5,059	24	0	9,106	40,957	31,389	448	31,389	448	31,389	448
2030 Flow + 10% Subtotal (m³/day)																				229,339	6,820	5,714	127,884	267	10,168	12,480	10,040	5,565	26	0	10,917	44,394	34,528	491	34,528	491	34,528	491
Ultimate Subtotal (m³/day)																				218,916	6,319	5,474	122,079	255	9,714	11,812	9,983	5,312	25	0	9,981	42,380	32,589	488	32,589	488	32,589	488
Ultimate + 10% (m³/day)																				240,807	6,951	6,951	134,286	281	10,695	13,109	10,542	5,843	28	0	10,817	46,536	36,254	515	36,254	515	36,254	515
Average Dry Weather Flow																				335,986																		
Year 2030 Scenario (m³/day)																				369,387																		
Year 2030 + 10% (m³/day)																				352,787																		
Ultimate Scenario (m³/day)																				369,965																		
Ultimate + 10% (m³/day)																																						

Population and Flow Projection for To Kwa Wan Preliminary Treatment Works

Basic:

- Population based on PlanD's TPEDM Data BY PWS ZONE (2003-based)
- Flow factors and assumed proportion of sewage flow of PWS served by ITWSTW according to Guidelines for Estimating Sewage Flow for Sewage Infrastructure Planning Version 1.0 (GESF)
- No categorization of residential population for PlanD's data. Therefore, catchment specific UFF is adopted (instead of housing type specific one) for domestic flows.
- A catchment inflow factor (P_{in}) is adopted based on the GESF

SCA#	SCA	PVS	% in SCA in 2016	Usual Residents - Permanent housing - Catchment-dependent	Usual Residents - Other housing - Catchment-dependent	Full-Time School Places	Manufacturing J1 Catchment-dependent	Electricity, Gas and Water J2	Transport, Storage and Communication J3	Wholesale and Retail Trades J4	Import / Export Trades J5	Insurance, Real Estate and Business Services J6	Agriculture and Fishing J7	Mining and Quarrying J8	Construction J9	Hotels, Restaurants and Boarding Houses J10	Community, Social and Personal Services J11	Public Administration J12
Year 2016 (TPEDM, 2003-based, Scenario II)																		
	To Kwa Wan	54	100%	4,782	34	359	114	0	1,064	1,325	4,040	3,286	0	0	424	1,872	1,716	1,197
	To Kwa Wan	55	100%	8,720	310	0	583	0	1,508	2,168	5,023	1,963	0	0	540	2,748	1,222	118
	To Kwa Wan	56	100%	1,572	51	85	158	0	738	1,072	5,762	1,735	0	0	455	1,806	1,235	0
	To Kwa Wan	57	100%	591	48	0	193	0	2,853	1,689	14,281	5,014	0	0	1,696	4,004	1,153	1,098
	To Kwa Wan	58	0%	1,280	7	80	21	0	88	87	231	236	0	0	43	87	218	90
	To Kwa Wan	59	5%	1,119	35	214	20	0	151	231	255	189	0	0	74	202	232	1
	To Kwa Wan	62	100%	6,913	10	471	853	4	61	26	22	230	0	0	160	117	6,033	89
	To Kwa Wan	68	100%	0	0	12,134	0	0	15	13	0	71	0	0	50	45	5,311	0
	To Kwa Wan	69	100%	14,221	3,484	0	0	0	0	2,773	478	153	0	0	272	5,180	4,522	252
	To Kwa Wan	70	100%	58,330	358	2,973	148	0	1,802	2,743	1,809	2,508	11	0	924	2,833	8,168	1,195
	To Kwa Wan	71	100%	21,022	142	4,300	85	16	2,194	4,272	11,945	5,505	0	0	1,637	554	2,900	70
	To Kwa Wan	72	100%	30,153	93	5,184	58	0	587	840	191	4,425	21	0	511	495	3,889	311
	To Kwa Wan	73	25%	8,657	202	1,792	6	0	115	101	26	342	0	0	80	63	437	35
	To Kwa Wan	75	100%	37,316	805	3,456	241	0	895	1,835	758	963	34	0	1,122	536	3,064	815
	To Kwa Wan	76	100%	44,720	1,871	2,077	1,716	405	2,034	2,243	3,382	506	15	0	1,521	1,089	3,087	48
	To Kwa Wan	77	100%	42,508	1,697	2,130	470	0	812	1,650	620	871	29	0	810	1,348	5,102	629
	To Kwa Wan	78	50%	5,199	83	4,163	9	0	113	83	117	194	5	0	177	21	3,680	710
	To Kwa Wan	87	15%	1,446	44	3,348	4	0	21	25	26	35	5	0	23	39	702	0
	To Kwa Wan	88	100%	14,416	252	8,378	68	0	717	1,349	229	869	0	0	552	646	3,403	14
	To Kwa Wan	89	100%	20,523	662	9,023	189	1	725	2,417	438	578	0	0	544	2,335	2,733	155
	To Kwa Wan	100	100%	21,409	68	8,701	53	0	338	454	108	153	11	0	225	224	1,909	10
	To Kwa Wan	102	90%	36,632	533	5,977	64	2	618	872	174	418	20	0	576	696	3,489	1,183
	To Kwa Wan	103	60%	15,513	127	2,021	19	0	223	166	74	88	14	0	202	83	1,143	143
	To Kwa Wan	104	100%	10,665	11	382	17	248	178	102	75	115	12	0	166	13	573	0
	To Kwa Wan	110	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	To Kwa Wan	234	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	To Kwa Wan	250	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	To Kwa Wan	275	100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	To Kwa Wan	278	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	To Kwa Wan	300	100%	6,208	204	3,068	485	2	3,143	3,471	8,107	3,748	0	0	3	0	0	0
	To Kwa Wan	301	100%	1,853	47	0	351	0	1,282	2,159	2,460	1,572	0	0	578	3,273	3,544	0
	To Kwa Wan	302	100%	11	329	0	282	0	3,317	2,827	10,058	6,072	0	0	248	3,454	1,375	816
	To Kwa Wan	304	70%	10,343	263	1,595	134	1	254	872	568	824	0	0	983	2,211	1,784	162
	To Kwa Wan	305	60%	42,162	869	6,075	93	0	725	1,061	274	820	20	0	169	943	1,085	30
	To Kwa Wan	306	0%	0	0	0	0	0	0	0	0	0	0	0	623	577	3,652	94
	To Kwa Wan	335	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal Population				498,707	12,559	103,817	5,545	678	27,420	38,523	71,511	42,988	193	0	15,785	37,712	76,864	9,044
Flow Factor				0.150	0.175	0.040	0.030	0.33	0.18	0.28	0.08	0.08	0.08	0.08	0.23	1.58	0.26	0.08
Flow (m³/s)				1.00	1.00	1.00	1.00	0.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Flow + 2% (m³/s)				98,844	2,250	3,463	4,153	223	4,936	5,721	5,721	3,439	15	0	3,630	69,584	21,522	723
Flow + 2% (m³/day)				96,844	2,255	3,585	3,563	227	5,035	11,287	5,835	3,505	15	0	3,703	69,776	21,532	737
Year 2016 + 2% (m³/day)				210,164	223,578	21,713	3,563	227	5,035	11,287	5,835	3,505	15	0	3,703	69,776	21,532	737
Annual Dry Weather Flow																		
Year 2016 Scenario (m³/day)				210,164	223,578	21,713	3,563	227	5,035	11,287	5,835	3,505	15	0	3,703	69,776	21,532	737
Year 2016 + 2% (m³/day)				210,164	223,578	21,713	3,563	227	5,035	11,287	5,835	3,505	15	0	3,703	69,776	21,532	737

Population based on the 1990 version of the HIC2030 Planning Data (Reference Scenario)
Flow factors and assumed proportion of sewage flow of PVS served by FFWSTW according to Guidelines for Estimating Sewage Flows for Sewage Infrastructure Planning Version 1.0 (GESF)
No categorization of residential populations for PWD's data. Therefore, catchment specific UFF is adopted (instead of housing type specific one) for domestic flows.
A catchment inflow factor (P_{inf}) is adopted based on the CESE

SCAF	SCA	% In SCA In		PVS	Year 2036 (H2036 Planning Data - Ref. Scenario)	Usual Residents -			Full-Time School Places	Manufacturing Catchment-dependent	Electricity, Gas and Water	Transport, Storage and Communication JS	Wholesale and Retail Trades JA	Import / Export Trades J5	Financing, Insurance, Real Estate and Business Services J6	Agriculture and Fishing J7	Mining and Quarrying J8	Construction J9	Hotels, Restaurants and Bounding Houses J10	Community, Social and Personal Services J11	Public Administration J12
		permanent housing Catchment-dependent	Other Housing Catchment-dependent			Mobility Catchment-dependent															

Population and Flow Projection for Kwun Tong Sewerage Catchment 1

Appendix 16.2B-2

Basis:

- Population based on PWD's THEM Data BY P/S ZONE (2003-based)
- Flow factors and assumed proportion of sewage flow of P/S served by P/TWSTW according to Guidelines for Estimating Sewage Flows for Sewage Infrastructure Planning Version 1.0 (CESP)
- No categorization of residential populations for PWD's data. Therefore, catchment specific LFF is adopted (instead of housing type specific only) for domestic flows.
- A catchment inflow factor (P_{in}) is adopted based on the GEF

SCAP	SCA	PVS	% in SCA in 2002	% in SCA in 2016	Usual Residents - Permanent housing Catchment-dependent	Usual Residents - Other housing Catchment-dependent	Mobile Residents Catchment-dependent	Full-Time School Places	Manufacturing Catchment-dependent	Electricity, Gas and Water J2	Transport, Storage and Communication J9	Wholesale and Retail Trades J4	Import/Export Trades J6	Finance, Insurance, Real Estate and Business Services J5	Agriculture and Fishing J7	Mining and Quarrying J8	Construction J9	Hotels, Restaurants and Boarding Houses J10	Community, Social and Personal Services J11	Public Administration J12
Year 2016 (TPEDM, 2003-based, Scenario II)																				
101	Kwun Tong	101	100%	100%	8,823	43	287	2,133	3,678	0	3,729	6,542	15,101	9,027	0	0	2,583	2,238	10,506	154
102	Kwun Tong	102	10%	10%	4,070	53	128	864	7	0	69	87	19	46	2	0	64	77	388	151
103	Kwun Tong	103	40%	40%	12,342	85	289	1,748	13	0	149	110	48	59	10	0	135	55	782	95
104	Kwun Tong	104	0%	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	Kwun Tong	105	100%	100%	51,813	53	1,498	6,750	32	23	806	945	257	420	23	0	658	733	3,238	67
304	Kwun Tong	304	30%	30%	4,433	113	108	854	58	1	103	374	243	268	0	0	73	404	465	13
305	Kwun Tong	305	40%	40%	28,608	579	821	4,050	62	0	483	707	183	547	14	0	418	462	2,435	63
Subtotal: Population																				
107,888																				
Flow Factor																				
0.190																				
Catchment Inflow Factor																				
1.14																				
Flow (m³/d)																				
23,300																				
Summary																				
Year 2016 (TPEDM, 2003-based, Scenario II)																				
Population																				
111,882																				
Flow Subtotal (m³/d)																				
24,238																				
Projected Flows																				
Year 2016 Scenario																				
Flow Subtotal (m³/d)																				
1,839																				
Year 2016 + 2%																				
Flow Subtotal (m³/d)																				
1,888																				
Flow Subtotal (m³/d)																				
1,888																				
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Population and Flow Projection for Kwun Tong Sewerage Catchment 2

Appendix 16.2B.2

- Population based on PWD's TPEDM Data BY PVS ZONE (2003-based)
 - Flow factors and assumed proportion of sewage flow of PVS served by PTWISTW according to Guidelines for Estimating Sewage Flows for Sewerage Infrastructure Planning Version 1.0 (GESF)
 - No categorization of residential populations for PWD's data. Therefore, catchment specific UFF is adopted (release of housing type specific only for domestic flows).
 - A catchment inflow factor (P_{in}) is adopted based on the GESF

SCA#	SCA	PVS	% in SCA in 2002	% in SCA in 2016	Usual Residents - Permanent housing		Usual Residents - Other housing		Mobile Residents		Full-Time School Places	Manufacturing Catchment-dependent	Electricity, Gas and Water	Transport, Storage and Communication	Wholesale and Retail Trades	Import / Export Trades	Finance, Insurance, Real Estate and Business Services		Agriculture and Fishing	Mining and Quarrying	Construction	Hotels, Restaurants and Boarding Houses	Community, Social and Personal Services	Public Administration	
					Catchment-dependent	Catchment-independent	Catchment-dependent	Catchment-independent	J1	J2							J3	J4							J5
Year 2016 (TPEDM, 2003-based, Scenario II)																									
106	Kwun Tong	106	100%	100%	39,009	990	1,290	7,817	469	1,235	1,279	1,241	1,748	23	0	833	921	3,923	13						
108	Kwun Tong	108	100%	100%	84,545	733	8,672	15,365	127	1,380	2,102	506	1,054	20	0	1,134	1,380	8,416	255						
109	Kwun Tong	109	100%	100%	27,853	430	1,189	8,475	0	1,211	1,348	1,757	3,861	12	0	710	467	3,309	53						
114	Kwun Tong	114	100%	100%	21,477	240	513	5,636	30	345	373	100	231	0	0	246	181	1,778	88						
Subtotal: Population					172,885	2,393	6,265	37,383	628	4,170	5,102	3,607	6,893	55	0	2,923	2,870	15,028	419						
Flow Factor					0.160	0.176	0.190	0.040	0.28	0.18	0.28	0.08	0.08	0.08	0.08	0.23	1.58	0.28	0.08						
Catchment Inflow Factor					1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14						
Flow (m³/d)					37,447	471	1,465	1,705	378	856	1,638	329	859	5	0	766	5,346	4,925	38						
Summary					Year 2016 (TPEDM, 2003-based, Scenario II)																				
Population					182,013	37,393	628	Commercial																	
Flow Subtotal (m³/d)					39,383	1,705	378	Industrial																	
Projected Flows					ADWF (m³/d)																				
Year 2016 Scenario					66,002	3.28	2,128	Parking Factor																	
Year 2016 + 2%					67,122	-	2,168	PWWE (m³/d)																	

Notes: (1) Parking Factors are calculated from EPD's guidelines for sewers

Population and Flow Projection for Kwun Tong Sewerage Catchment 4

Appendix 16.2B-2

Basic

- Population based on PlanD's TPEDM Data BY PVS ZONE (2003-based)
- Flow factors and assumed proportion of sewage flow of PVS served by PTWISTW according to Guidelines for Estimating Sewage Flows for Sewerage Infrastructure Planning Version 1.0 (GESF)
- No categorization of residential populations for PlanD's data. Therefore, catchment specific IFF is adopted (instead of housing type specific one) for domestic flow.
- A catchment inflow factor (P_{in}) is adopted based on the GESF

SCA#	SCA	PVS	% in SCA in 2002	% in SCA in 2016	Usual Residents -				Manufacturing Catchment-dependent	Electricity, Gas and Water J2	Transport, Storage and Communication J3	Wholesale and Retail Trades J4	Import / Export Trades J5	Financing				Agriculture and Fishing J7	Mining and Quarrying J8	Construction J9	Hotels, Restaurants and Boarding Houses J10	Community, Social and Personal Services J11	Public Administration J12	
					Permanent Housing Catchment-dependent	Other housing Catchment-dependent	Mobile Residents Catchment-dependent	Full-Time School Pupils						Finance, Insurance, Real Estate and Business Services J6										
					0.04	0.04	0.04	0.04	0.33	0.18	0.28	0.28	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.23	1.58	0.28	0.08
Year 2016 (TPEDM, 2003-based, Scenario II)																								
	307	Kwun Tong	100%	100%	0	0	0	0	1,328	14	1,868	2,060	4,583	5,391	0	0	1,804	404	1,174	8				
		Subtotal, Population			0	0	0	0	1,328	14	1,868	2,060	4,583	5,391	0	0	1,804	404	1,174	8				
		Flow Factor			0.190	0.175	0.190	0.040	0.830	0.18	0.23	0.23	0.08	0.08	0.08	0.08	0.23	1.58	0.28	0.08				
		Catchment Inflow Factor			1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14				
		Flow (m³/d)			0	0	0	0	802	5	322	658	418	482	0	0	473	727	375	1				
Summary Year 2016 (TPEDM, 2003-based, Scenario II)																								
		Population			0	0	0	0	1,328	14	1,868	2,060	4,583	5,391	0	0	1,804	404	1,174	8				
		Flow Subtotal (m³/d)			0	0	0	0	802	5	322	658	418	482	0	0	473	727	375	1				
Projected Flows																								
		ADME (m³/day)			4,278	4,278	4,278	4,278	4,278	4,278	4,278	4,278	4,278	4,278	4,278	4,278	4,278	4,278	4,278	4,278				
		Year 2016 Scenario			4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000				
		Year 2016 + 2%			4,080	4,080	4,080	4,080	4,080	4,080	4,080	4,080	4,080	4,080	4,080	4,080	4,080	4,080	4,080	4,080				

Notes: (1) Pricing Factors are calculated from EPD's guidelines for sewers

Population and Flow Protection for Kwun Tong Sewerage Catchment 1

Population based on the interim version of the HK2030 Planning Data - Reference Scenario (compiled in Nov 2005)

- Flow factors and assumed proportion of sewage flow of FWS served by PWS according to Guidelines for Estimating Sewage Flows for Sewage Infrastructure Planning Version 1.0 (GESF). No categorization of residential populations for PWS is adopted. catchment specific UFF is adopted (instead of housing type specific one) for domestic flows. A catchment inflow factor (F_{in}) is adopted based on the GESF.

[illegible]

Appendix 16.2B-2

Back

- Population based on the Interim version of the H2030 Planning Data - Reference Scenario (compiled in Nov 2005)

No categorization of residential neighborhoods was performed by PTWISTW according to guidelines for Estimating Sewage Flows for Sewage Infrastructure Planning Version 1.0 (GESF) flow factors and assumed proportion of sewage flow of P/S served by PTWISTW.

A catchment inflow factor (P_{in}) is introduced based on the catchment inflow (instead of housing type specific one) for domestic flows.

SCAP	SCA	PVS	% in SCA in 2002	% in SCA in 2016	Usual Residents -		Full-Time School Places	Manufacturing Catchment-dependent	Electricity, Gas and Water J2	Transport, Storage and Communication J3	Wholesale and Retail Trades J4	Import/Export Trades J5	Financing, Insurance, Real Estate and Business Services J6	Agriculture and Fishing J7	Mining and Quarrying J8	Construction J9	Hotels, Restaurants and Boarding Houses J10	Community, Social and Personal Services J11	Public Administration J12
					Permanent housing Catchment-dependent	Mobile Residents Catchment-dependent													
108	Kwun Tong	108	100%		48,931	773	1,754	7,917	103	1,408	1,460	1,244	2,123	16	0	1,022	1,145	4,914	8
108	Kwun Tong	108	100%		67,100	600	3,348	15,365	29	1,369	1,894	479	1,210	20	0	1,216	1,275	5,680	184
109	Kwun Tong	109	100%		26,918	323	1,282	6,475	0	1,258	891	1,897	3,441	10	0	793	390	3,332	1,078
114	Kwun Tong	114	100%		21,824	192	805	5,159	7	349	269	80	244	0	0	292	117	1,852	71
	Subtotal Population				159,675	1,693	7,239	36,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Flow Factor				0.190	0.040	0.175	0.240	0.33	0.18	0.28	0.08	0.08	0.08	0.08	0.23	1.58	0.28	0.08
	Catchment Inflow Factor				1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
	Year 2030 (Ref. Scenario, compiled in 2005)				34,545	377	1,568	1,983	87	906	1,444	333	840	4	0	871	5,164	6,359	122
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Year 2030 (Ref. Scenario, compiled in 2005)				169,302	36,910	144	38,910	144	4,415	4,523	3,570	7,018	46	0	3,923	2,887	19,767	1,342
	Population																		

Population and Flow Projection for Kwun Tong Sewerage Catchment 3

Population based on the interim version of the HW2030 Planning Data - Reference Scenario (compiled in Nov 2005)

- Population based on the interim version of the H2030 Planning Data - Reference Scenario (compiled in Nov 2005)
Flow factors and assumed proportion of sewage flow of FV5 served by FV10/STW (see Table 1) - based on the assumptions for Estimating Sewage Flows for Sewage Infrastructure Planning Version 1.0 (GISF)
No categorization of residential populations for B_{OD}240 served. Therefore, catchment specific L_{UD} is assumed (instead of housing type specific one) for domestic flows.
A catchment inflow factor (F_{in}) is applied based on the GISP

[illegible]

Population based on the interim version of the HQ2030 Planning Data - Reference Scenario (compiled in Nov 2005)
Flow factors and assumed proportion of sewage flow of PWS served by PTWSTW according to Guidelines for Estimating Sewage Flows for Sewage Infrastructure Planning Version 1.0 (GESF)
No categorization of residential populations for PWD's data. Therefore, catchment specific PUF is adopted (instead of housing type specific one) for domestic flows
A catchment inflow factor (P_{CI}) is adopted based on the GESF

[illegible]

