Attachment 4: Replacement Pages of Sewerage Impact Assessment

# 4. POTENTIAL IMPACTS ON SEWERAGE NETWORKS & PROPOSED MITIGATION MEASURES

- 4.1 The peak flow increased from the Application Site is approximately 2% of the capacity of SBPTW. It is expected that the SBPTW will be able to handle the increased sewage flow from the Application Site.
- 4.2 The sewage generated from the Proposed Development is estimated to be 192 m<sup>3</sup>/day (ADWF) and 3.66 m<sup>3</sup>/day design flow for swimming pool backwashing, with total peak discharge of 17.82 l/s. It is proposed to discharge the sewage flow to the public sewerage system at Pok Fu Lam Road.
- 4.3 It is understood that a student hostel is constructing at rural building lot no. 925 under application no. A/H10/94 now. The estimation of existing sewage flow at Pok Fu Lam Road have been assessed and presented in *Appendix A*. It is observed that one sewer at Pok Fu Lam Road (from FMH7022538 to FMH7022536) do not have adequate capacity.
- 4.4 To minimize the impact to the public sewer, the sewage generated from the Proposed Development will be discharged to further downstream (manhole no. FMH7038820), which has spare capacity (Current utilization is approximately 39 %).
- 4.5 As the proposed formation level of the Application Site (approximately +120 mPD) is located below the level of the existing public sewerage system at Pok Fu Lam Road. A sump pit (with size 0.5m x 1m x 1.5m) and sewage pump (with pump rate of 24,804 l/h or 0.00689 m<sup>3</sup>/s) are proposed to pump the sewage generated from the Proposed Development to a new manhole (MH001) and further discharge to manhole no. FMH7038820 via a new 225 mm dia. sewer. *Drawing No. LILY16/SIA/002* shows the proposed sewage disposal scheme. The estimation of proposed sewage flows at Pok Fu Lam Road as well as calculation of sump pit size and sewer size is enclosed in *Appendix B*.
- 4.6 One sewer (FWD702447 between manholes FMH7022432 and FMH7022445) appears to be under-capacity (future flow represents nearly 200% of capacity), although it is noted that there is missing level information for the upstream manhole and the sewer is very short (only 4.7m in length). For the purposes of this assessment, it has been necessary to calculate the missing invert level, based on adjacent manhole data, although it is noted that the resultant gradient and capacity are incongruous with the rest of the local sewerage system. A preliminary freeboard check enclosed in *Appendix C* indicates that undesirable surcharging may occur under peak flow conditions. The sewers in Sassoon Road are mostly significantly deeper than 1m, so there would probably be more than 1m freeboard under surcharged conditions. It is therefore reasonable to conclude that the future peak flow can be accommodated in the existing public sewerage system, without unacceptable impacts or the need for significant upgrading.
- 4.7 Regular maintenance on sewers and manholes should be implemented to maintain their optimal condition, such as monitoring the capacity of the system and restoring the flow capacity by removal of excessive accumulation of silt and grease, and thereby mitigate any negative impacts on surcharge conditions.

Layout Plan Submission and Proposed Minor Relaxation of Building Height Restriction for Permitted Flat Use At 131 Pok Fu Lam Road, Hong Kong, RBL 136RP

Drawings







MAY 2024

APPROVAL BY

DATE OF APPROVAL



CAD Filename : Y:\Daily Work\20240607c\183437-LILY16-SIA-002.dgn

# Appendix A

# Hydraulic Calculation of Sewage Flow at Existing Condition





# Project Subject

Layout Plan Submission and Proposed Minor Relaxation of Building Height Restriction for Permitted Flat Use At 131 Pok Fu Lam Road, Hong Kong, RBL 136RP

binnies

Estimation of Existing Sewage Flow at Pok Fu Lam Road

Book         Object         Part Biology         <	Sewe	erage Catchment (From FMH7022574 to FMH7022415)									
Sore         Char June Margenera Care and a second sec						Dailv	Cumulative Daily			Culmulative	
Image: Problem (Problem)         Problem (Problem) <td></td> <td>Source</td> <td>Category</td> <td>Population</td> <td>Unit Flow</td> <td>Flow</td> <td>Flow</td> <td>Cumulative</td> <td>Peaking</td> <td>Peak Flow</td> <td>Remark</td>		Source	Category	Population	Unit Flow	Flow	Flow	Cumulative	Peaking	Peak Flow	Remark
A.         Description         Description         Description         Description           A.         Description         110         Color         Colo			0,		(m3/h/d)	(m3/d)	(excluding pools)	population	Factor	(m3/s)	
Del Policy Provide Section 1         11         2 <th2< th="">         2         2         2</th2<>	۸	Pok Full am Park Management Centre				. ,	(m3/d)			. ,	
Server Spring 1982         The Source of the Spring of	A	Pok Pu Lani Park Management Centre	11.1	5	0.28	1 /	1.4	5	8	0.00013	Estimated Bapulation
D         Ope 2000 Stand Standard         Standard         20         500         20         100         00000000         0000000         0000000         0000000         0000000         00000000         0000000         00000000000         000000000000000         000000000000000000000000000000000000		Swimming Pool (515m2)	511	5	0.20	12 55	1.4	5	0	0.00013	Estimated Population
C         Number of Park (Source Park Park Park Park Park Park Park Park	B	WSD Staff Quarters	Insitutional	24	0.19	4.56	5 96	22	8	0.00070	12Linits x 2PPF_sav
Discreta         Number of the second se	C	HKJC PHAB Camp	Insitutional	124	0.19	23.56	29.52	109	8	0.00288	Data from website
B         Process Development A-1000e-1*         Partial Section Sect	D	University Hall	Insitutional	110	0.19	20.9	50.42	187	8	0.00481	Data from website
B         PMC Manage Scheart         PT         PMC Manage Scheart         PMC	E	Planned Development A/H10/94-1*	Insitutional			461.2	511.62	1895	6	0.03567	Flow provided by EPD
p         model         p<         p<<         p<< <t< td=""><td>F</td><td>HKJC Riding School</td><td>J11</td><td></td><td></td><td>97.53</td><td>609.15</td><td>2256</td><td>6</td><td>0.04245</td><td>Flow provided by EPD</td></t<>	F	HKJC Riding School	J11			97.53	609.15	2256	6	0.04245	Flow provided by EPD
Image         Description         Description <thdescripion< th=""> <thdescription< th=""> <thdes< td=""><td>~</td><td>March Marca Carrier</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>30 Units from Centadata, average</td></thdes<></thdescription<></thdescripion<>	~	March Marca Carrier									30 Units from Centadata, average
Number in the second	G	Woodbury Court									occupancy 3.7 PPF
Manuage of Selection         Anticipation         All to be approximate of the selection of the selec		Residents	R2	111	0.27	29.97	639.12	2367	6	0.04453	
Server productional production of the server product of the serve		Management Staff	J11	6	0.28	1.68	640.80	2373	6	0.04465	
In         Justom         Package         Pack		Swimming Pool (105m2)				2.56				0.04467	
Image: Second	н	Middleton Towers									70 Units from Centadata, average
Processor         PC         PC        <											occupancy 3.7 PPF
Monogener Start         Diff         Diff <thdif< th="">         Diff         Diff</thdif<>		Residents	R2	259	0.27	69.93	710.73	2632	6	0.04953	
Image         Participant         Pi         Pi         Pick		Management Staff	J11	13	0.28	3.64	714.37	2646	6	0.04978	
Jostovie Narvoja         Provide Marcol         Provi	1	Alberose	R3	4	0.37	1.48	715.85	2651	6	0.04989	1 Units from Centadata, average
j         Jessen         P <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>occupancy 3.7 PPF</td>			-						-		occupancy 3.7 PPF
Participant         P2         16         0         27         4.05         17 15 00         866         8         0.00017         BOURDING JAPP           Management Solart         J11         1         0.28         77.0         0         0.00017         BU lots from weaking, with registry           Management Solart         J11         6         0.26         77.7         6         0.0223         J11         6         0.26         77.7         6         0.0223         J11         6         0.24         2.4         77.7         6         0.0223         J11         10         0.24         2.4         77.7         6         0.0223         J11         10         0.24         2.4         77.5         0         0.0223         J11         10         0.24         2.4         77.5         0         0.0223         J11         10         10         10         10         10         11         10	J	Jessville Manor									4 Units from website, average
Numeries Bail         11         1 <th1< th="">         1         1         &lt;</th1<>		Booidooto	P2	15	0.27	4.05	710.00	2666	6	0.05017	occupancy 3.7 PPF
International (a)         [11]         [20] <th[20]< th=""> <th[20]< th="">         [20]</th[20]<></th[20]<>		Mesagement Stoff	NZ	10	0.27	4.00	719.90	2000	6	0.05017	
Image:         Notice         Notice<		Management Stan	JII	'	0.20	0.20	720.18	2007	0	0.03019	28 Units from website, overege
Basiderinis         P2         104         0.27         20.05         7771         6         0.0521         0.0521           Samper         Part School         Part School         Part School         Part School         0.0521         0.0521           Samper         Part School         Part School         Part School         0.0521         0.0521           Samper         Part School         Part School         Part School         0.0521         0.0521           Samper         Part School         Part School         Part School         0.05543         0.05543           Samper         Part School         Part School         Part School         0.05543         0.05543           Samper         Part School         Part School         Part School         0.05543         0.05543           Samper         Part School         Part School         Part School         0.05543         0.05543           Samper School         Part School         Part School         Part School         0.05543         0.05543           Measagement School         Part School         Part School         Part School         0.05543         0.05563           Measagement School         Part School         Part School         Part School         0.05563	К	Jessville Tower									20 Units fruit website, average
Imagingeneration         Data         Distance         Distance <thdistance< th=""></thdistance<>	$\vdash$	Residents	R2	104	0.27	28.08	748.26	2771	6	0.05214	
Image in the product of the second	$\vdash$	Management Staff		6	0.28	1.68	749 94	2778	6	0.05225	1
p         Encoder         Control         Control         Control         Control           Baudert         Studert         6         0.4         2.44         762-58         277         6         0.0321           Teachert & Suff         0.11         102         0.28         2.85         761-14         2833         6         0.05449           Subject         750-38         2.28         76         0.05559         0.05559           Teacher & Suff         0.05583         0.05583         0.05583         0.05583           Samming Pool (13m2)         1         0         2.8         1.4         0.71.6         0.05583           Generation Charles         R2         0         0.7         1.7         1.0         0.06071         0.00071           Management Suff         11         5         0.28         1.4         0.71.6         3.22         6         0.06071         1.0         0.00071         1.0         0.00071         1.0         0.00071         1.0         0.00071         1.0         0.00071         1.0         0.00071         1.0         0.00071         1.0         0.00071         1.0         0.00071         1.0         0.000711         1.0         0.00071         <		Swimming Pool (240m2)	511	Ŭ	0.20	5.85		2110	-	0.05232	
Student         En         Student         61         0.04         2.44         7.92.56         27.97         6         0.0251           C Secretar Shod & Home for W Visually Impair Statum         11         102         0.28         28.56         7.97.16         20.5563           Statum         51         11         107         0.24         7.97.16         20.5563           Statum         51         11         12         0.23         3.17         2         0.05631           Statum         51         11         17         2         3.17         2         0.05631           Statum         11         11         2         2.3.17         2         0.05031         25         0.00011           Residems         R2         65         0.27         19.8.4         10.1.4         3.80         6         0.00011         Estimated population (20 flors x 8           Residems         R2         62         0.27         19.8.4         103.49         3801         6         0.07141         Estimated population (20 flors x 8           Management Staff         111         20         0.28         8.4         103.99         3811         6         0.07144         Buitin from Centadata, werage t	Р	Ebenezer New Hope School				5.00				2.00202	
Tenchor A Suff         111         102         0.26         2.86         761.14         2.863         6         0.05449           Statem         Statem         11         107         127         766.38         2.97         6         0.055397           Statem         11         107         0.26         3.37         66.11         110.20         6         0.055397           Statem         11         107         0.26         3.37         66.11         110.20         6         0.055397           Statem         11         107         0.26         3.37         66.11         100.26         0.00001         0.00001           Antigenes         11         107         0.26         2.21         10.000         0.00001         10.0000         10.0000         11.0000         10.00000 <t< td=""><td>-</td><td>Student</td><td>Student</td><td>66</td><td>0.04</td><td>2.64</td><td>752.58</td><td>2787</td><td>6</td><td>0.05251</td><td></td></t<>	-	Student	Student	66	0.04	2.64	752.58	2787	6	0.05251	
B         Descence School & Home for the Visually Impairer         Image: Provide a Statistic Statiste Statiste Statistic Statiste Statistic Statistic Statistic Stat		Teacher & Staff	J11	102	0.28	28.56	781.14	2893	6	0.05449	
Student         Student <t< td=""><td>Q</td><td>Ebenezer School &amp; Home for the Visually Impairer</td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>Data from Ebenezer</td></t<>	Q	Ebenezer School & Home for the Visually Impairer							-		Data from Ebenezer
Tracher & Suff         Ji1         167         2.88         48.76         84.57		Student	Student	431	0.04	17.24	798.38	2957	6	0.05569	1
Servering Prod (150m2)         Image: constraints average occurrency 2 Units from Centralatin, average occurrency 2 UPPF           Resolution         III         2 OZ         2 Bir 116 Sc         4132         6 OZ/F64         000766           Resolution         III         0 OZ         8 Jir 116 Sc         4132         6 OZ/F64         000766           Resolution         III         0 OZ         8 Jir 117 AV         13 Jir 3         0 OZ/F64         30 Units from Centralatin, average occurrency 2 UPPF           Resolutin         III         0 OZ		Teacher & Staff	J11	167	0.28	46.76	845.14	3130	6	0.05893	
D         Drive A Manadon         P<         P         P<         P<		Swimming Pool (130m2)				3.17				0.05897	
D         Dot Not Reliable         P         D <thd< th=""> <thd< th="">         D</thd<></thd<>		Des Feels Mension									25 Units from Centadata, average
Residents         R2         83         0.27         25.11         870.25         3228         6         0.06071           Management Staff         11         5         0.28         1.4         871.65         3228         6         0.06071           Management Staff         211         30         0.28         8.4         103.89         385.1         6         0.07191           Management Staff         311         30         0.28         8.4         103.89         385.1         6         0.07249           Building Area 1.907m 2 x 2 floors =         31.14         2         0.28         8.28         1075.17         3892         6         0.07544         Building Area 1.907m 2 x 2 floors =           Residents         82         37         0.27         9.89         105.16         4105         6         0.07564           Residents         82         111         0.27         2.87         115.60         4132         6         0.07744           Residents         82         111         0.27         2.87         115.60         4132         6         0.07746           Residents         82         111         0.27         115.60         4132         6         0.	L	DOI FOOK MAIISION									occupancy 3.7 PPF
Management Staff         J11         5         0.28         1.4         87.65         3228         6         0.06011           Residents         R2         59.2         0.27         159.84         103.49         362.0         6         0.07141         Estimate propulation (20 hors a 8 185.600 - 160 hors)           N         Management Staff         J11         30         0.28         8.4         1039.89         365.1         6         0.07141         Estimate propulation (20 hors a 8 185.600 - 160 hors)           N         Mooplal Authority         J11         126         0.28         8.4         107.17         3982         6         0.07544         Building Ares 1.3077.8 2 7 100 r a 183.41 are           Residents         R2         37         0.27         9.91         105.16         4019         6         0.07556           Management Staff         J11         2         0.27         10.77         4021         6         0.07564           Management Staff         R         Ryalon         R         7.11         111.6         0.07584         0.0116 from Centadata, average constance, 37 PPF           Management Staff         R11         0.27         7.27         111.5         0.07584         0.07754         0.077564 <td< td=""><td></td><td>Residents</td><td>R2</td><td>93</td><td>0.27</td><td>25.11</td><td>870.25</td><td>3223</td><td>6</td><td>0.06071</td><td></td></td<>		Residents	R2	93	0.27	25.11	870.25	3223	6	0.06071	
M         Coverment Quarters         P         P         P         P         P         Estimated population (20 floors x 8 interval and population (20 floors x 8 inte		Management Staff	J11	5	0.28	1.4	871.65	3228	6	0.06081	
Residents         R2         502         0.27         150.8.4         1031.40         1820         6         0.07191         Estimated population (20 loton x 8 flastford) = 7.8           Management Staff         J11         126         0.28         8.4         1030.8.9         3851         6         0.07244         Building Area 1.9777.2 x 2 floors = 3.34.07           0         Radciff         I         I         0         0.28         0.75         1.992         0.07445         Building Area 1.9777.2 x 2 floors = 0.3.34.07           0         Radciff         I         I         0.28         0.52         1075.17         3.982         0.07564         10.0155 fb         0.07564           Management Staff         J11         0.28         0.28         1.05         4.019         6         0.07564           Royaton         I         I         0.28         1.58         111.73         1.002         0.07786         0.07786           Royaton         I         I         0.29         1.011         1.02         0.07786         0.07786         0.07786           Royaton II         I         0.28         1.71         I         1.92         0.02796         0.07786         0.02796           Royaton II </td <td>M</td> <td>Government Quarters</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	M	Government Quarters									
Instrument Staff         DT         DT <thdt< th="">         DT         DT</thdt<>		Residents	R2	592	0 27	159 84	1031 49	3820	6	0.07191	Estimated population (20 floors x 8
Management Start         J11         30         0.28         8.4         I (39.89)         9851         6         0.07249         Building Atest 1.907m2 x 2 floors = 0.07444           N         Mospial Autority         J11         128         0.28         35.28         1075.17         3981         6         0.07444         Building Atest 1.907m2 x 2 floors = 0.07444           Residents         R2         37         0.27         3.9         1085.16         4019         6         0.07564           Management Staft         J11         2         0.28         0.56         1085.72         4021         6         0.07564           Residents         R2         111         0.27         2.9.97         115.69         4132         6         0.07764         20.0776           Residents         R2         111         0.27         2.9.97         115.69         4132         6         0.07784         20.07784           Residents         R2         111         0.27         2.9.97         115.85         4201         6         0.07784           Management Staft         J11         0.28         1.72         112         113.55         4206         0         0.07784           Management Staft				002	0.27	100.01	1001110	0020	0	0.07 101	flats/floor = 160 Units)
N         Noticity         111         126         0.28         35.28         1075.17         3882         6         0.07494         Building Area 1.907782 2 floors = 3.81441000           0         Radiiffe              Statemark          Statemark          Statemark          Statemark          Statemark         Statemark          Statemark		Management Staff	J11	30	0.28	8.4	1039.89	3851	6	0.07249	
Image: Constraint of the standard sector of t	N	Hospital Authority	J11	126	0.28	35.28	1075.17	3982	6	0.07494	Building Area 1.907m2 x 2 floors =
0         Residentic         P2         0         Description         0         Description         0         Description         0         Description         0         Description         0         Difference         Differenc         Differenc         Differenc											3.814m2
Residents         R2         97         0.27         0.99         1065:16         4019         6         D000panery         D000panery           Wanagement Stiff         111         2         0.23         0.26         1057:22         4021         6         0.07764           Reviewing Pool (290m2)         Imagement Stiff         111         0.27         29.97         1115:69         4122         6         0.07764           Residents         R2         111         0.27         29.97         1115:69         4132         6         0.07764           Swimming Pool (70m2)         Imagement Stiff         J11         6         0.28         1.68         1117.37         4138         6         0.07764           Swimming Pool (70m2)         Imagement Stiff         J11         4         0.28         1.71         1134.38         4001         6         0.07924           Management Stiff         J11         4         0.28         1.12         1135.50         4368         6         0.06924           Management Stiff         J11         4         0.28         12.22         1165.22         4393         6         0.06929         Data from HKU           Manos Sassoon Road KAUHCIG Buiding for         <	0	Radcliffe									10 Units from Centadata, average
Management Staff         Dr.         Dr. <thdr.< th="">         Dr.         <thdr.< th=""></thdr.<></thdr.<>		Pasidants	P2	37	0.27	0.00	1085 16	4019	6	0.07564	occupancy 3.7 PPF
Bismining Pool (280m2)         D1         2         D20         D20 <thd20< th="">         D20         <thd20< th=""></thd20<></thd20<>		Management Staff	111	2	0.27	9.99	1085.10	4019	6	0.07568	
Bit State		Swimming Pool (290m2)	511	2	0.20	7.07	1003.12	4021	0	0.07576	
R         Resident         Re						1.01				0.07070	30 Units from Contadata, average
Residents         R2         111         0.27         29.97         1115.69         4132         6         0.07784         Docume 0.111           Maragement Staff         J11         6         0.28         1.68         1117.37         113.6         0.07786           S Royaton II         Imagement Staff         J11         6         0.27         17.01         1134.38         4201         6         0.07786           Residents         R2         63         0.27         17.01         1134.38         4201         6         0.07924           Swarening Pool (150m2)         Imagement Staff         J11         4         0.28         1.71         1134.38         4201         6         0.07924           Swarening Pool (150m2)         Imagement Staff         J11         4         0.28         1.71         1134.38         4201         6         0.07924           Swarening Pool (150m2)         Imagement Staff         J11         4         0.28         1.22         1135.50         4206         0.07924         Imagement Staff	R	Royalton									occupancy 3 7 PPF
Management Staff         J11         6         0.28         1.73         113         6         0.07796           Swmming Pool (70m2)         1         1.71         1         0.07798         17 Units from Centadata, average occupancy 3.7 PPF           Residents         R2         63         0.27         17.01         113.4.38         4201         6         0.07796           Management Staff         J11         4         0.28         112         1135.50         4206         6         0.07924           Mon.3 Sasson Road Academic Building         11         4         0.28         1.22         56         0.07924           Swident         Student         Student         960         0.04         38.4         1173.90         43.48         6         0.08739         Data from HKU           Teacher & Staff         J11         44         0.28         12.32         1186.22         4393         6         0.08759         Data from HKU         1180           V         No.3 Sasson Road Patrick Manson Building         111         72         0.28         20.16         1275.50         4724         6         0.0899         Overall Population 1.800           persons. Estimated Staff are 4% of Ninh         No.1         30 <td></td> <td>Residents</td> <td>R2</td> <td>111</td> <td>0.27</td> <td>29.97</td> <td>1115.69</td> <td>4132</td> <td>6</td> <td>0.07784</td> <td></td>		Residents	R2	111	0.27	29.97	1115.69	4132	6	0.07784	
Summing Pool (70m2)         Image: Pool (70m2)         Image: Pool (70m2)         Poool (70m2)         Pool (70m2) <th< td=""><td></td><td>Management Staff</td><td>J11</td><td>6</td><td>0.28</td><td>1.68</td><td>1117.37</td><td>4138</td><td>6</td><td>0.07796</td><td></td></th<>		Management Staff	J11	6	0.28	1.68	1117.37	4138	6	0.07796	
S         Royatton II         Image: S         Royatton III         Image: S         Royatton III         Image: S         Royatton III         Royatton III         Image: R         Royatton IIII         Image: R         Royatton IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		Swimming Pool (70m2)	-	-		1.71			-	0.07798	
S         Koyaton II         Coupancy 3.7 PPF           Residents         R2         63         0.27         17.01         1134.38         4201         6         0.07944           Management Staff         J11         4         0.28         1.12         1135.50         4206         6         0.07944           Swimming Pool (105m2)         No.5         2.56         No.6         0.08279         Data from HKU           Tracher & Staff         J11         44         0.28         12.32         1186.22         4393         6         0.08279         Data from HKU           No.5         Sasson Road HKU HKJC Building for         Interdisciplinary Research         No.5         111         72         0.28         12.32         1186.22         4393         6         0.08279         Data from HKU           U         No.5         Sasson Road PKU HKU, Building for         Interdisciplinary Research         J11         72         0.28         20.16         1275.50         4724         6         0.08699         Overall Population           No.7         Sasson Road Patrick Manson Building         Intervision         Sudent*         Student         52         0.04         20.88         1296.38         4801         6         0.09044	~										17 Units from Centadata, average
Residents         R2         63         0.27         17.01         113.3.8         4201         6         0.07916           Management Staff         J11         4         0.28         1.12         113.5.0         4206         6         0.07924           Swumming Pool (105m2)         L         2.56         L         0.07926         0.07926           H0.0.3 Sassoon Road Academic Building         L         2.56         L         0.07926           Student         960         0.04         38.4         173.90         4548         6         0.08193         Data from HKU           Iteacher & Staff         J11         44         0.28         12.32         1186.22         4393         6         0.08193         Data from HKU           No.5 Sassoon Road Platick Manson Building for U         Interdisciplinary Research         J11         72         0.28         20.16         1275.50         4724         6         0.08899         Overall Population 1,800           Student**         J11         72         0.28         20.16         1275.50         4724         6         0.09644         Overall Population 4% of Overall Population 745           Student**         J11         30         0.28         8.4         1304.78 </td <td>S</td> <td>Royalton II</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>occupancy 3.7 PPF</td>	S	Royalton II									occupancy 3.7 PPF
Management Staff         J11         4         0.28         1.12         1135.0         4206         6         0.07924           Swmmig Pool (105m2)         Imagement Staff         0.04         256         Imagement Staff         0.07926           AH         No.3         Susson Road Academic Building         Imagement Staff         0.04         38.4         1173.90         4548         6         0.06193         Data from HKU           Teacher & Staff         J11         44         0.28         12.32         1186.22         438.3         6         0.08759         Data from HKU           Voice Stasson Road Academic Building         Imagement Staff         Imagement Staff         Imagement Staff         Imagement Staff         Imagement Staff         Part St		Residents	R2	63	0.27	17.01	1134.38	4201	6	0.07916	
Swimming Pool (105m2)         Constraint         Sudem         0.07926         0.07926           H No. 3 Sassoon Road Academic Building         6         0.04         38.4         1173.90         4348         6         0.08130         Data from HKU           Taccher & Staff         J11         44         0.28         12.32         1186.22         4393         6         0.08279         Data from HKU           No.5 Sassoon Road HKU HKJC Building for U         Interdisciplinav Research         Student**         Student**         Student**         Student**         1186.22         1255.34         4649         6         0.08759         Data from HKU, total population 1,800           V         No.7 Sassoon Road Patrick Manson Building         J11         72         0.28         20.16         1275.50         4724         6         0.08899         Overall Population           Student**         J11         30         0.28         8.4         1304.78         4833         6         0.09044         Data from HKU, total population 745           Persons. Estimated Staff are 4% of         Overall Population         225         1699.78         5888         5         0.09044         Data from HKU, total population 745           V         North Vinaj         J11         30 <td< td=""><td></td><td>Management Staff</td><td>J11</td><td>4</td><td>0.28</td><td>1.12</td><td>1135.50</td><td>4206</td><td>6</td><td>0.07924</td><td></td></td<>		Management Staff	J11	4	0.28	1.12	1135.50	4206	6	0.07924	
AH         No. 3 Sassoon Road Academic Building         m         m         m         m         m         m         m         m         m         m           Student         Student         Student         J11         44         0.28         12.32         1186.22         4393         6         0.08193         Data from HKU           Interdisciplinary Research         J11         44         0.28         12.32         1186.22         4393         6         0.0879         Data from HKU           Student**         Student         1728         0.04         69.12         1255.34         4649         6         0.08799         Data from HKU, total population 1.800           Teacher & Staff**         J11         72         0.28         20.16         1275.50         4724         6         0.0899         Overall Population           No. 7. Sassoon Road Patrick Manson Building (North Wing)         J11         30         0.28         8.4         1304.78         4833         6         0.09102         Overall Population           Student**         Student         191         30         0.28         8.4         1304.78         4833         6         0.09102         Overall Population         Overall Population         Parsons. Estima		Swimming Pool (105m2)				2.56				0.07926	
Student         Student         960         0.04         38.4         1173.30         4348         6         0.08193         Data from HKU           Teacher & Staff         J11         44         0.28         12.32         1186.22         4393         6         0.08179         Data from HKU           U         No.5 Sassoon Road HKU HKJC Building for U         Interdisciplinary Research         112         2.88         20.16         1275.50         4724         6         0.08799         Data from HKU, total population 1.800 persons. Estimated Staff are 4% of Overall Population           No.7 Sassoon Road Patrick Manson Building (North Wing)         J11         72         0.28         20.16         1275.50         4724         6         0.08899         Overall Population           Student**         Student         522         0.04         20.88         1296.38         4801         6         0.09044         Data from HKU, total population 745           Teacher & Staff**         J11         30         0.28         8.4         1304.78         4833         6         0.09102         Overall Population           W Proposed Development at No. 6 Sassoon Road         Institutional         72.6         1662.38         6157         0.00861         Flow provided by EPD           Y< Lee	AH	No. 3 Sassoon Road Academic Building									
Teacher & Staff         U11         44         0.28         12.32         1186.22         4393         6         0.08279         Data from HKU           No.5 Sassoon Road HKU HKJC Building for Interdisciplinary Research         Image of the search         Data from HKU, total population 1,800           Teacher & Staff**         J11         72         0.28         20.16         1275.50         4724         6         0.08899         Overall Population         Overall Population           V         No 7 Sassoon Road Patrick Manson Building (North Wing)         Image of the search         Student         522         0.04         20.88         1296.38         4801         6         0.09044         Data from HKU, total population 745           Student**         Student*         J11         30         0.28         8.4         1304.78         4833         6         0.09102         Overall Population           W Proposed Development at No. 6 Sassoon Road         Institutional         Image of the search         172.6         1734.98         6426         5         0.01081         Plow provided by EPD           Z         The University of Hong Kong R.C. Lee Hall         Institutional         Image		Student	Student	960	0.04	38.4	1173.90	4348	6	0.08193	Data from HKU
U         No.5 Sassoon Road HKU HKJC Building for Interdisciplinary Research         Image of the second student*         Student         1728         0.04         69.12         1255.34         4649         6         0.08759         Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population           Y         Teacher & Staff**         J11         72         0.28         20.16         1275.50         4724         6         0.08899         Overall Population           V         No.7 Sassoon Road Patrick Manson Building (North Wing)         Image of the second student**         Student         522         0.04         20.88         1296.38         4801         6         0.0904         Data from HKU, total population 745           Teacher & Staff**         J11         30         0.28         8.4         1304.78         4833         6         0.09102         Overall Population           Y         Proposed Development at No. 6 Sassoon Road Institutional         72.6         1662.38         6157         5         0.09661         Flow provided by EPD           X         Wei Lun Hail         Institutional         72.6         1697.58         66965         5         0.10061         Flow provided by EPD           Y         Lee Hysan Hail         Institutional         72.6         169		Teacher & Staff	J11	44	0.28	12.32	1186.22	4393	6	0.08279	Data from HKU
Interdisciplinary Research         Image: Constraint of the state of the stat	υ	No.5 Sassoon Road HKU HKJC Building for		_					_		I
Student**         Student         1728         0.04         69.12         1255.34         4649         6         0.08759         Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population           Teacher & Staff**         J11         72         0.28         20.16         1275.50         4724         6         0.08759         Overall Population           V         No.7 Sassoon Road Patrick Manson Building (North Wing)         Image: Control of the staff are 4% of Overall Population         Control of the staff are 4% of Overall Population         Overall Population           Student*         Student         522         0.04         20.88         1296.38         4801         6         0.09044         Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population           Teacher & Staff**         J11         30         0.28         8.4         1304.78         4833         6         0.09102         Overall Population           V         Proposed Development at No. 6 Sassoon Road         Institutional         72.6         1662.38         6157         5         0.09614         Flow provided by EPD           Z         The University of Hong Kong R.C. Lee Hall         Institutional         72.6         1807.58         6695         5         0.10031         Flow provided by EPD	Ē	Interdisciplinary Research				<u> </u>	+				
Teacher & Staff**         J11         72         0.28         20.16         1275.50         4724         6         0.08899         persons. Estimated Staff are 4% of Overall Population           V         No.7 Sassoon Road Patrick Manson Building (North Wing)         Image: Construction of Constru		Student**	Student	1728	0.04	69.12	1255.34	4649	6	0.08759	Data from HKU, total population 1,800
Teacher & Staff**         J11         72         0.28         20.16         1275.50         4724         6         0.08899         Overall Population           V         No.7 Sassoon Road Patrick Manson Building (North Wing)         Image: Construction of the staff of the	$\vdash$										persons. Estimated Staff are 4% of
V         No.7 Sassoon Road Patrick Manson Building (North Wing)         No.7 Sassoon Road Patrick Manson Building         Image: Constraint of the second		Teacher & Staff**	J11	72	0.28	20.16	1275.50	4724	6	0.08899	Overall Population
Instruct Node Fattick Waltison Building (North Wing)         Image: Node Fattick Waltison Building         Image: Node Fattick Waltiso	$\vdash$	No.7 Seeson Road Batrick Manager Duilding									
Number Ning/         Student         522         0.04         20.88         1296.38         4801         6         0.09044         Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population           Teacher & Staff**         J11         30         0.28         8.4         1304.78         4833         6         0.09044         Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population           W Proposed Development at No. 6 Sassoon Road         Institutional         285         1589.78         5888         5         0.09241         Flow provided by EPD           X Wei Lun Hall         Institutional         72.6         1662.38         6157         5         0.09661         Flow provided by EPD           Z The University of Hong Kong R.C. Lee Hall         Institutional         72.6         1807.58         6695         5         0.10502         Flow provided by EPD           AB         Bay View Restaurant         J10         75.5         1883.08         6974         5         0.10502         Flow provided by EPD           AD         The University of Hong Kong Institute of Molecular Institutional         J11         07.0         28         29.96         1968.34         7290         5         0.11432         Data from HKU           AD	V	North Wing)									
Student**         Student         522         0.04         20.88         1296.38         4801         6         0.09044         Data from HKU, total population 745 persons. Ethnic total population 745 persons. Ethnic total population 745 persons. Ethnic total population 745           Teacher & Staff**         J11         30         0.28         8.4         1304.78         4833         6         0.09102         Overall Population           W         Proposed Development at No. 6 Sassoon Road         Institutional         285         1589.78         5888         5         0.09241         Flow provided by EPD           X         Wei Lun Hall         Institutional         72.6         1734.98         6426         5         0.100502         Flow provided by EPD           Z         The University of Hong Kong R.C. Lee Hall         Institutional         72.6         1734.98         6695         5         0.10052         Flow provided by EPD           AB         Madam S.H. Ho Residence for Medical Student         Institutional         75.5         1883.08         6974         5         0.101259         Flow provided by EPD           AC         Dexter H.C Man Building         J11         107         0.28         29.96         1968.34         7290         5         0.1114250         Data from HKU	$\vdash$					<u> </u>	1				h
Teacher & Staff**         J11         30         0.28         8.4         1304.78         4833         6         0.09102         Orerall Population           W         Proposed Development at No.6 Sassoon Road         Institutional         285         1589.78         5888         5         0.09241         Picoural Population           X         Wei Lun Hall         Institutional         72.6         1662.38         6157         5         0.09661         Flow provided by EPD           Z         The University of Hong Kong R.C. Lee Hall         Institutional         72.6         1734.98         6426         5         0.10081         Flow provided by EPD           AB ay View Restaurant         J10         75.5         1883.08         6974         5         0.101259         Flow provided by EPD           AB Madam S.H. Ho Residence for Medical Student         Institutional         55.3         1938.38         7179         5         0.11259         Flow provided by EPD           AD         Deaty FM Cong Kong Institute of Molecular Biology         J11         07         0.28         29.96         1986.34         72.90         5         0.11434         Data from HKU           AE         The University of Hong Kong Estates Building         J11         03         0.28		Student**	Student	522	0.04	20.88	1296.38	4801	6	0.09044	Data from HKU, total population 745
Instant         J11         J30         0.28         8.4         1304.78         4833         6         0.09102         Overall Population           W         Proposed Development at No. 6 Sasson Road         Institutional         285         1589.78         5888         5         0.09241         Flow provided by EPD           X         Wei Lun Hall         Institutional         72.6         1682.38         6157         5         0.09641         Flow provided by EPD           Y         Lee Hysan Hall         Institutional         72.6         1682.38         6426         5         0.10021         Flow provided by EPD           AA         Bay View Restaurant         J10         72.6         1802.58         6695         5         0.10502         Flow provided by EPD           AB         Madam S.H. Ho Residence for Medical Student         Institutional         75.5         1883.08         6974         5         0.11259         Flow provided by EPD           AD         The University of Hong Kong Institute of Molecular         J11         107         0.28         29.96         198.34         7290         5         0.11432         Data from HKU           AD         The University of Hong Kong Estates Building         J11         103         0.28		T		00	0.00		1001 70	4000	<u>_</u>	0.00400	persons. Estimated Staff are 4% of
W         Proposed Development at No. 6 Sassoon Road         Institutional         285         1589.78         5888         5         0.09241         Flow provided by EPD           X         Wei Lun Hall         Institutional         72.6         1784.98         6426         5         0.09661         Flow provided by EPD           Z         The University of Hong Kong R.C. Lee Hall         Institutional         72.6         1734.98         6426         5         0.10081         Flow provided by EPD           Z         The University of Hong Kong R.C. Lee Hall         Institutional         72.6         1734.98         6426         5         0.100502         Flow provided by EPD           AB         Madam S.H. Ho Residence for Medical Student         Institutional         75.5         1883.08         6974         5         0.10259         Flow provided by EPD           AC         Dexter H.C Man Building         J11         107         0.28         29.96         1968.34         7290         5         0.11432         Data from HKU           AD         The University of Hong Kong Estates Building         J11         69         0.28         19.32         1987.66         7362         5         0.11714         Data from HKU           AE         The University of Hong Kong Estates		reacher & Statt**	J11	30	0.28	8.4	1304.78	4833	ь	0.09102	Overall Population
X         Wei Lun Hall         Insitutional         72.6         1662.38         6157         5         0.09661         Flow provided by EPD           Y         Lee Hysan Hall         Insitutional         72.6         1734.98         6426         5         0.10081         Flow provided by EPD           Z         The University of Hong Kong R.C. Lee Hall         Insitutional         72.6         1807.58         6695         5         0.10024         Flow provided by EPD           AB         Madam S.H. Ho Residence for Medical Student         Insitutional         75.5         1883.08         6974         5         0.11259         Flow provided by EPD           AB         Madam S.H. Ho Residence for Medical Student         Insitutional         55.3         1938.38         7179         5         0.11259         Flow provided by EPD           AC         Dexter H.C. Man Building         J11         107         0.28         29.96         1986.34         72.90         5         0.11432         Data from HKU           AD         The University of Hong Kong Estates Building         J11         103         0.28         28.84         2016.50         7469         5         0.11744         Data from HKU           AF         Pauline Chan Building         J11         40	W	Proposed Development at No. 6 Sassoon Road	Insitutional			285	1589.78	5888	5	0.09241	Flow provided by EPD
Y         Lee Hysan Hall         Insitutional         72.6         1734.98         6426         5         0.10081         Flow provided by EPD           Z         The University of Hong Kong R.C. Lee Hall         Insitutional         72.6         1734.98         6695         5         0.10081         Flow provided by EPD           AB         Bay View Restaurant         J10         75.5         1883.08         6695         5         0.10502         Flow provided by EPD           AB         Madem S.H. Ho Residence for Medical Student         Institutional         55.3         1938.38         7179         5         0.11259         Flow provided by EPD           AB         Data from Hkuling         J11         107         0.28         29.96         1968.34         7290         5         0.11432         Data from HKU           AD         The University of Hong Kong Institute of Molecular         J11         69         0.28         19.32         1987.66         7362         5         0.11711         Data from HKU           AE         The University of Hong Kong Estates Building         J11         103         0.28         28.84         2016.50         7469         5         0.11711         Data from HKU           AF         Pauline Chan Building         <	Х	Wei Lun Hall	Insitutional			72.6	1662.38	6157	5	0.09661	Flow provided by EPD
Z         The University of Hong Kong R.C. Lee Hall         Institutional         72.6         1807.58         6695         5         0.10502         Flow provided by EPD           AA         Bay View Restaurant         J10         75.5         1883.08         6974         5         0.10502         Flow provided by EPD           AB         Madam S.H. Ho Residence for Medical Student         Institutional         55.3         1938.38         7179         5         0.11259         Flow provided by EPD           AC         Dexter H.C Man Building         J11         107         0.28         29.96         1968.34         7290         5         0.11259         Data from HKU           AD         The University of Hong Kong Institute of Molecular Biology         J11         69         0.28         19.32         1987.66         7362         5         0.11714         Data from HKU           AE         The University of Hong Kong Estates Building         J11         103         0.28         28.84         2016.50         7469         5         0.11711         Data from HKU           AE         Treacher & Staff         J11         402         0.28         112.56         2135.54         7909         5         0.11748         Data from HKU           Teacher &	Y	Lee Hysan Hall	Insitutional			72.6	1734.98	6426	5	0.10081	Flow provided by EPD
AA         Bay View Restaurant         J10         75.5         1883.08         6974         5         0.10939         Flow provided by EPD           AB         Madam S.H. Ho Residence for Medical Student         Institutional         55.3         1938.38         7179         5         0.11259         Flow provided by EPD           AC         Dexter H.C. Man Building         J11         107         0.28         29.96         1968.34         7290         5         0.11259         Flow provided by EPD           AD         The University of Hong Kong Institute of Molecular Biology         J11         69         0.28         19.32         1987.66         7362         5         0.11544         Data from HKU           AE         The University of Hong Kong Estates Building         J11         103         0.28         28.84         2016.50         7469         5         0.11711         Data from HKU           AF         Pauline Chan Building         Image: Student         162         0.04         6.48         2022.98         7493         5         0.11748         Data from HKU           Student         162         0.04         6.48         2022.98         7493         5         0.12399         Data from HKU           Teacher & Staff         J1	Z	The University of Hong Kong R.C. Lee Hall	Insitutional			72.6	1807.58	6695	5	0.10502	Flow provided by EPD
AB         Madam S.H. Ho Residence for Medical Student         Institutional         55.3         1938.38         7179         5         0.11259         Flow provided by EPD           AC         Dexter H.C. Man Building         J11         107         0.28         29.96         1968.34         7290         5         0.11432         Data from HKU           AD         The University of Hong Kong Institute of Molecular Biology         J11         0.03         0.28         19.32         1987.66         7362         5         0.11544         Data from HKU           AE         The University of Hong Kong Estates Building         J11         103         0.28         28.84         2016.50         7469         5         0.11544         Data from HKU           AE         The University of Hong Kong Estates Building         J11         103         0.28         28.84         2016.50         7469         5         0.11741         Data from HKU           AE         Pauline Chan Building         I         103         0.28         2022.98         7493         5         0.11748         Data from HKU           Student         162         0.04         6.48         2022.98         7493         5         0.12399         Data from HKU           Teacher & Sta	AA	Bay View Restaurant	J10			75.5	1883.08	6974	5	0.10939	Flow provided by EPD
AC         Dexter H.C Man Building         J11         107         0.28         29.96         1968.34         7290         5         0.11432         Data from HKU           AD         The University of Hong Kong Institute of Molecular Biology         J11         69         0.28         19.32         1987.66         7362         5         0.11544         Data from HKU           AE         The University of Hong Kong Estates Building         J11         103         0.28         28.84         2016.50         7469         5         0.11711         Data from HKU           AF         Pauline Chan Building         0.04         6.48         2022.98         7493         5         0.11748         Data from HKU           Student         162         0.04         6.48         2022.98         7493         5         0.11748         Data from HKU           Teacher & Staff         J11         402         0.28         112.56         2135.54         7909         5         0.12399         Data from HKU           Kitchen         J10         18         1.58         28.44         2163.98         8015         5         0.12564         Data from HKU           AG         Vicoria Road Fresh Water Service Reservoir         J11         0.28	AB	Madam S.H. Ho Residence for Medical Student	Insitutional			55.3	1938.38	7179	5	0.11259	Flow provided by EPD
AD         The University of Hong Kong Institute of Molecular Biology         J11         69         0.28         19.32         1987.66         7362         5         0.11544         Data from HKU           AE         The University of Hong Kong Estates Building         J11         103         0.28         28.84         2016.50         7469         5         0.11711         Data from HKU           AF         Pauline Chan Building            0.00041           Student         162         0.04         6.48         2022.98         7493         5         0.11748         Data from HKU           Teacher & Staff         J11         402         0.28         112.56         2135.54         7909         5         0.12399         Data from HKU           Kitchen         J10         18         1.58         28.44         2163.98         8015         5         0.12564         Data from HKU           AG         Victoria Road Fresh Water Service Reservici         J11         3         0.28         0.42         2163.98         8015         5         0.12564         Data from HKU           AG         Victoria Road Fresh Water Service Reservici         J11         3         0.28         0.44         2164.82	AC	Dexter H.C Man Building	J11	107	0.28	29.96	1968.34	7290	5	0.11432	Data from HKU
Biology         0.1         0.0         0.2.0         150.2         150.7.00         762         5         0.11.94         Data from HKU           AE         The University of Hong Kong Estates Building         J11         103         0.28         28.84         2016.50         7469         5         0.11711         Data from HKU           AE         The University of Hong Kong Estates Building         J11         103         0.28         28.84         2016.50         7469         5         0.11714         Data from HKU           F Pauline Chan Building         Image Student         162         0.04         6.48         2022.98         7493         5         0.11748         Data from HKU           Teacher & Staff         J11         402         0.28         112.56         2135.54         7909         5         0.12399         Data from HKU           Kitchen         J10         18         1.58         28.44         2163.98         8015         5         0.12564         Data from HKU           AG         Victoria Road Fresh Water Service Reservoir         J11         3         0.28         0.84         2164.82         8018         5         0.12564         Data from HKU           AG         Victoria Road Fresh Water Servi		The University of Hong Kong Institute of Molecular	.111	69	0.28	19.32	1987 66	7362	5	0 11544	Data from HKU
AE         The University of Hong Kong Estates Building         J11         103         0.28         28.84         2016.50         7469         5         0.11711         Data from HKU           AF         Pauline Chan Building         Image: Chan Building		Biology			0.20	10.02		. 502	~	0.11044	
Art         Pauline Chan Building         Image: Chan Building	AE	The University of Hong Kong Estates Building	J11	103	0.28	28.84	2016.50	7469	5	0.11711	Data from HKU
Student         Student         162         0.04         6.48         2022.98         7493         5         0.11748         Data from HKU           Teacher & Staff         J11         402         0.28         112.56         2135.54         7909         5         0.12399         Data from HKU           Kitchen         J10         18         1.58         28.44         2163.98         8015         5         0.12564         Data from HKU           AG         Victoria Road Fresh Water Service Reservoir         J11         3         0.28         0.84         2164.82         8018         5         0.12564         Data from HKU	AF	Pauline Chan Building		100				7.100	-	0.00041	
I reacher & Starr         J11         HU2         0.28         112.56         2135.54         7909         5         0.12399         Data from HKU           Kitchen         J10         18         1.58         28.44         2163.98         8015         5         0.12564         Data from HKU           AG         Victoria Road Fresh Water Service Reservoir         J11         3         0.28         0.84         2164.82         8018         5         0.12564         Data from HKU           AG         Victoria Road Fresh Water Service Reservoir         J11         3         0.28         0.84         2164.82         8018         5         0.12564         Data from HKU		Student	Student	162	0.04	6.48	2022.98	/493	5	0.11748	Data from HKU
Instruction         J10         118         1.58         226.44         2163.98         8015         5         0.12564         Data from HKU           AG         Victoria Road Fresh Water Service Reservoir         J11         3         0.28         0.84         2164.82         8018         5         0.12564         Data from HKU           AG         Victoria Road Fresh Water Service Reservoir         J11         3         0.28         0.84         2164.82         8018         5         0.12569         Estimated Population           Total Flow         2200.3         2200.3         Inflow Factor = 1.00 GESF Table T-4         Inflow Factor = 1.00 GESF Table T-4         10.00 GESF Table T-4		Leacher & Staff	J11	402	0.28	112.56	2135.54	7909	5	0.12399	Data from HKU
ACG   victoria Road Fresh water service Reservoir         J11         J3         J0.28         J0.84         J2164.82         J8018         J5         J0.12569         Estimated Population           Total Flow         2200.3         Inflow Factor = 1.00 GESF Table T-4         Inflow Factor = 1.00 GESF Table T-4		Kitchen	J10	18	1.58	28.44	2163.98	8015	5	0.12564	Data from HKU
10tal Flow 220U.3 Introv Factor = 1.00 GESF Table T-4	AG	VICIONA ROAD Fresh water Service Reservoir	J11	3	υ.28	0.84	2164.82	0018	5	0.12569	Estimated Population
		I otal Flow				2200.3					milow Factor = 1.00 GESF Table T-4

\*Estimated sewage flow of Planned Development A/H10/94-1 is being incorporated into the existing estimation of sewage flow as it is under construction. \*\* With reference to Source T (No. 3 Sasson Road Academic Building), the population of teacher & staff is approximately 4% of the total population

The estimation of backwash flow from swimming pool is based on following assumption
Turnover Rate 4 hr
Surface Loading Rate of Filter 20 m3/m2/hr
Backwash Duration 3 min /day
Backwash Flow Rate 30 m3/m2/hr

Project

Layout Plan Submission and Proposed Minor Relaxation of Building Height Restriction for Permitted Flat Use At 131 Pok Fu Lam Road, Hong Kong, RBL 136RP

binnies

Subject					Estimation of Sewar	stimation of Sewage Flow at Pok Fu Lam Road (Existing Scenario)										
										Peak						
										Discharge	% of					
From	То	Upstream	Downstream	Upstream	Downstream	Distance	Diameter	Gradient	Capacity	(existing)	Capacity					
Manhole No.	b. Manhole No. CL (mPD) CL (mPD) I.L. (mPD) <sup>1</sup> I.L. (mPD) <sup>1</sup>		(m)	(mm)	(1 in)	(m <sup>3</sup> /s)	(m <sup>3</sup> /s)	(existing)	Remark							
FMH7022550	FMH7022549	139.22	138.78	137.32	137.23	20.6	300	228.9	0.074	0.05232	70.67%	Existing Flow from Source A to K				
												Connection Point from P(Ebenezer New				
												Hope School), Q(Ebenezer School &				
FMH7022549	FMH7022545	138.62	138.62	137.22	137.07	24.3	300	162.0	0.088	0.05897	67.01%	Home for the Visually Impairer)				
FMH7022545	FMH7022544	138.74	138.74	137.07	136.89	33.6	300	186.7	0.082	0.05897	71.93%					
												Connection Point from L (Dor Fook				
FMH7022544	FMH7022539	138.89	138.89	136.89	136.74	44.3	300	295.3	0.065	0.06081	93.31%	Mansion)				
FMH7022539	FMH7022538	139.02	139.02	136.74	136.52	41.5	300	188.6	0.082	0.06081	74.56%					
FMH7022538	FMH7022536	138.98	138.98	136.52	136.35	42.7	300	251.2	0.071	0.07576	107.20%	Connection Point from A to O (Radcliffe)				
FMH7022536	FMH7038820	138.71	138.71	136.33	136.26	7.7	400	110.0	0.228	0.07576	33.28%					
FMH7038820	FMH7022533	138.37	138.37	136.25	135.91	50.6	400	148.8	0.196	0.07576	38.71%					
FMH7022533	FMH7022362	138.00	138.00	135.89	135.55	42.7	400	125.6	0.213	0.07798	36.60%	Connection Point from R (Royalton)				
FMH7022362	FMH7022361	138.40	138.40	135.54	135.26	45	400	160.7	0.188	0.07926	42.09%	Connection Point from S (Royalton II)				
FMH7022361	FMH7022360	138.43	138.43	135.54	134.65	36.9	400	41.5	0.371	0.07926	21.37%					
FMH7022360	FMH7038860	138.24	138.24	134.65	134.11	29.4	400	54.4	0.324	0.07926	24.49%					
FMH7038860	FMH7038861	137.63	137.63	134.11	133.63	10.5	400	21.9	0.511	0.07926	15.52%					
FMH7038861	FMH7038862	135.42	135.42	133.63	133.00	24.3	400	38.6	0.384	0.07926	20.62%					
FMH7038862	FMH7038845	135.42	135.34	133.00	132.50	34.7	400	69.4	0.287	0.07926	27.65%					
FMH7038845	FMH7038846	135.34	134.18	132.50	131.76	13.5	400	18.2	0.559	0.07926	14.18%					
FMH7038846	FMH7020219	134.18	131.89	131.76	129.79	29.7	400	15.1	0.615	0.07926	12.89%					
FMH7020219	FMH7020220	131.89	130.45	129.79	128.35	24.1	300	16.7	0.274	0.07926	28.94%					
												Connection Point from AH (No. 3 Sassoon				
FMH7020220	FMH7060381	130.45	126.53	128.35	124.46	41.6	300	10.7	0.343	0.08279	24.16%	Road Academic Building)				
												Connection Point from U (HKU HKJC				
FMH7060381	FMH7020221	126.53	124.48	124.46	122.68	13.1	300	7.4	0.413	0.08899	21.54%	Building for Interdisciplinary Research)				
												Connection Point from V (Patrick Manson				
FMH7020221	FMH7020222	124.48	119.51	122.68	117.41	32.7	300	6.2	0.450	0.09102	20.23%	Building (North Wing))				
FMH7020222	FMH7020223	119.51	115.59	117.41	112.89	31.3	300	6.9	0.426	0.09102	21.38%					
FMH7020223	FMH7022433	115.59	113.59	112.89	110.99	15.7	300	8.3	0.390	0.09102	23.35%					
FMH7022433	FMH7022444	113.59	109.95	110.99	108.21	30.1	300	10.8	0.341	0.09102	26.73%					
FMH7022444	FMH7022432*	109.95	110.04	108.21	108.08	6	300	46.2	0.165	0.09102	55.19%					
												Connection Point from W to AG (Victoria				
FMH7022432*	FMH7022445	110.04	109.47	108.08	107.98	4.7	225	47.0	0.077	0.12569	164.17%	Road Fresh Water Service Reservoir)				
FMH7022445	FMH7023281	109.47	104.54	107.98	101.96	48.2	225	8.0	0.186	0.12569	67.75%	· · · · · · · ·				
FMH7023281	FMH7022459	104.54	101.40	101.96	99.27	29.8	225	11.1	0.158	0.12569	79.69%					
FMH7022459	FMH7022410	101.40	99.20	99.27	98.20	12	225	11.2	0.157	0.12569	80.18%					
FMH7022410	FMH7022415	99.20	77.70	98.00	73.83	32	250	1.3	0.602	0.12569	20.86%					

0.6 mm 1.14 mm<sup>2</sup>/s Surface roughness kinematic viscosity k<sub>s</sub> v (Slimed sewers - Clayware in poor condition)

Mean velocity (Colebrook-White)	$\overline{V}$	=	$-\sqrt{32gRS_f} \log \left[ \frac{k_s}{14.8R} + \frac{1.255v}{R\sqrt{(32gRS_f)}} \right]$
Capacity provided	Q	=	V x Cross Section Area of Drain

All invert levels are extracted from GEOINFO MAP and only the invert levels of the main alignment are presented.
 Drainage record plan refers to Drawing No. ULY16/SIA/001
 \*Assume mid-way between upstream and downstream manholes

# Appendix B

# Hydraulic Calculation of Sewage Flow of Proposed Development





Project

Layout Plan Submission and Proposed Minor Relaxation of Building Height Restriction for Permitted Flat Use At 131 Pok Fu Lam Road, Hong Kong, RBL 136RP

Subject

Estimation of Sewage Flow at Pok Fu Lam Road (After Development)

2	Source	Category	Population	Unit Flow (m3/h/d)	Daily Flow (m3/d)	Cumulative Daily Flow (excluding pools) (m3/d)	Cumulative population	Daily Flow (m3/s)	Peaking Factor	Culmulative Peak Flow (m3/s)	Remark
A F	Pok Fu Lam Park Management Centre	J11	5	0.28	1.4	1.4	5	1.62E-05	8	0.00013	Estimated Population
5	Swimming Pool (515m2)	511	5	0.20	12.55	1.4	5	0.000145	0	0.00027	
BV	VSD Staff Quarters	Insitutional	24	0.19	4.56	5.96	22	5.28E-05	8	0.00070	12Units x 2PPF, say
DL	Jniversity Hall	Insitutional	124	0.19	20.9	50.42	187	0.000273	o 8	0.00288	Data from website
E F	Planned Development A/H10/94-1	Insitutional			461.2	511.62	1895	0.005338	6	0.03567	Flow provided by EPD
FH	HKJC Riding School	J11			97.53	609.15	2256	0.001129	6	0.04245	Flow provided by EPD
G V	Voodbury Court										occupancy 3.7 PPF
F	Residents	R2	111	0.27	29.97	639.12	2367	0.000347	6	0.04453	
N	Management Staff	J11	6	0.28	1.68	640.80	2373	1.94E-05	6	0.04465	
					2.30			2.301-03		0.04407	70 Units from Centadata, average
ни	vilddieton i owers										occupancy 3.7 PPF
F	Residents Appagement Staff	R2	259	0.27	69.93	710.73	2632	0.000809	6	0.04953	
TF	Planned Development Lot No. RBL 757	511	15	0.20	3.04	114.51	2040	4.21L-03	0	0.04970	
F	Residents	R3	12	0.37	4.44	718.81	2662	5.14E-05	6	0.05009	3 Units from Midland Realty data,
Ν	Anagement Staff	.111	1	0.28	0.28	719.09	2663	3 24E-06	6	0.05011	average occupancy 3.7 PPF
	Nerroso	B2	4	0.20	1 49	700.57	2000	1 71E 05	6	0.05021	1 Units from Centadata, average
1 7	Riberose	КЭ	4	0.37	1.40	120.51	2009	1.7 IE-05	0	0.03021	occupancy 3.7 PPF
JJ	lessville Manor					720.57	2669				4 Units from website, average
F	Residents	R2	15	0.27	4.05	724.62	2684	4.69E-05	6	0.05050	occupancy 3.7 FFT
Ν	Management Staff	J11	1	0.28	0.28	724.90	2685	3.24E-06	6	0.05052	
кJ	lessville Tower					724.90	2685				28 Units from website, average
F	Residents	R2	104	0.27	28.08	752.98	2789	0.000325	6	0.05247	occupancy of the
Ν	Management Staff	J11	6	0.28	1.68	754.66	2795	1.94E-05	6	0.05258	
5	swimming Pool (240m2)				5.85			6.77E-05		0.05265	25 Units from Centadata average
LC	Dor Fook Mansion										occupancy 3.7 PPF
F	Residents	R2	93	0.27	25.11	779.77	2888	0.000291	6	0.05439	
M	Management Staff	J11	5	0.28	1.4	781.17	2893	1.62E-05	6	0.05449	
		P2	502	0.07	150.94	041.01	2495	0.00195	e	0.06550	Estimated population (20 floors x 8
r	Residents	RZ	592	0.27	159.84	941.01	3485	0.00185	0	0.06559	flats/floor = 160 Units)
N	Management Staff	J11	30	0.28	8.4	949.41	3516	9.72E-05	6	0.06617	Building Area 1 907m2 x 2 floors -
NH	Hospital Authority	J11	126	0.28	35.28	984.69	3647	0.000408	6	0.06862	3.814m2
O F	Radcliffe					984.69					10 Units from Centadata, average
F	Residents	R2	37	0.27	9 99	994 68	3684	0.000116	6	0.06932	occupancy 3.7 PPF
Ň	Management Staff	J11	2	0.28	0.56	995.24	3686	6.48E-06	6	0.06936	
5	Swimming Pool (290m2)				7.07			8.18E-05		0.06944	
P E	Existing Facilities (to be relocated)	Student	0	0.04	0	995.24	3686		6	0.06944	
T	Feacher & Staff	J11	0	0.28	0	995.24	3686		6	0.06944	
O F	Proposed Development										
~ .	Desidente	D2	500	0.07	405	4400.04	4074	0.0004.44	0	0.00000	Proposed Development
~ F	Residents Management Staff*	R3 J11	500 25	0.37 0.28	185 7	1180.24 1187.24	4371 4397	0.002141 8.1E-05	6 6	0.08229	Proposed Development
S Contraction of the second se	Residents Management Staff* Swimming Pool (150m2)	R3 J11	500 25	0.37 0.28	185 7 3.66	1180.24 1187.24	4371 4397	0.002141 8.1E-05 4.23E-05	6 6	0.08229 0.08277 0.08281	Proposed Development
R F	Residents Management Staff* Swimming Pool (150m2) Royalton	R3 J11	500 25	0.37 0.28	185 7 3.66	1180.24 1187.24	4371 4397	0.002141 8.1E-05 4.23E-05	6	0.08229 0.08277 0.08281	Proposed Development
R F	Residents Management Staff* Swimming Pool (150m2) Royalton Residents	<b>R3</b> J11 R2	500 25 111	0.37	185 7 3.66 29.97	1180.24 1187.24 1217.21	4371 4397 4508	0.002141 8.1E-05 4.23E-05 0.000347	6 6 6	0.08229 0.08277 0.08281 0.08490	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF
R F	Residents Management Staff* Swimming Pool (150m2) Royalton Residents Management Staff	<b>R3</b> J11 R2 J11	500 25 111 6	0.37 0.28 0.27 0.28	185 7 3.66 29.97 1.68	1180.24 1187.24 1217.21 1218.89	4371 4397 4508 4514	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05	6 6 6 6	0.08229 0.08277 0.08281 0.08490 0.08501	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF
R F	Residents Janagement Staff* Swimming Pool (150m2) Royalton Residents Janagement Staff Swimming Pool (70m2)	R3 J11 R2 J11	500 25 111 6	0.37 0.28 0.27 0.28	185 7 3.66 29.97 1.68 1.71	1180.24 1187.24 1217.21 1218.89	4371 4397 4508 4514	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05	6 6 6 6	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average
R F S F	Residents Management Staff* Weimming Pool (150m2) Royalton Residents Aanagement Staff Weimming Pool (70m2) Royalton II	R3 J11 R2 J11	500 25 1111 6 	0.37 0.28 0.27 0.28	185 7 3.66 29.97 1.68 1.71	1180.24 1187.24 1217.21 1218.89	4371 4397 4508 4514	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05	6 6 6	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF
R F M S F S F	Tesidents Management Staff* Swimming Pool (150m2) Residents Anagement Staff Swimming Pool (70m2) Royalton II Residents Residents	R3 J11 R2 J11 R2 R2 R2	500 25 1111 6 6 63	0.37 0.28 0.27 0.28	185 7 3.66 29.97 1.68 1.71	1180.24 1187.24 1217.21 1218.89 1235.90 1235.90	4371 4397 4508 4514 4577 4577	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197	6 6 6 6 6	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08503	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF
R F R F S F S F	Residents  Anagement Staff*  Weimming Pool (150m2)  Royalton  Residents  Anagement Staff  Royalton II  Residents  Anagement Staff  Weimming Pool (70m2)  Residents  Anagement Staff  Weimming Pool (105m2)	R3 J11 R2 J11 R2 J11 R2 J11	500 25 1111 6 6 63 4	0.37 0.28 0.27 0.28 0.27 0.28	185 7 3.66 29.97 1.68 1.71 17.01 1.12 2.56	1180.24 1187.24 1217.21 1218.89 1235.90 1237.02	4371 4397 4508 4514 4577 4582	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05	6 6 6 6 6 6 6	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08503 0.08621 0.08629 0.08632	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF
R F S F AH N	Residents  Anagement Staff*  Winiming Pool (150m2)  Residents  Anagement Staff  Swimming Pool (70m2)  Royalton II  Residents  Anagement Staff  Swimming Pool (105m2)  Swimming Pool (105m2)  O o 3 Sassoon Road Academic Building	R3 J11 R2 J11 R2 J11 R2 J11	<b>500</b> <b>25</b> 1111 6 6 63 4	0.37 0.28 0.27 0.28 0.27 0.28	185         7           3.66	1180.24 1187.24 1217.21 1218.89 1235.90 1237.02	4371 4397 4508 4514 4577 4582	0.002141 8.1E-05 4.23E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05	6 6 6 6 6 6	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08621 0.08629 0.08632	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF
	Residents  Janagement Staff* Janagement Staff* Royalton Residents Janagement Staff Swimming Pool (70m2) Royalton II Residents Janagement Staff Janagement Staff Janagement Staff Ox 3 Sasson Road Academic Building Student Staff	R3 J11 R2 J11 R2 J11 Student	500 25 1111 6 63 4 960 44	0.37 0.28 0.27 0.28 0.27 0.28 0.27 0.28	<b>185</b> <b>7</b> <b>3.66</b> <b>1</b> .68 <b>1</b> .71 <b>1</b> .01 <b>1</b> .12 <b>2.56</b> <b>38.4</b> <b>12.32</b>	1180.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1287.74	4371 4397 4508 4514 4577 4582 4724 4724	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.000444	6 6 6 6 6 6 6 6 6 6 6	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08621 0.08629 0.08632 0.08632 0.08899 0.08994	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU
R F F S F S F AH N S AH N	Testidents           Management Staff*           Winming Pool (150m2)           Royalton           Variagement Staff           Winming Pool (70m2)           Royalton II           Vesidentis           Ananagement Staff           Winming Pool (70m2)           Royalton II           Vananagement Staff           Winming Pool (105m2)           40.3 Sassoon Road Academic Building           Student           Vace Staff           Voc S Sassoon Road HKU HKUC Building for	R3 J11 R2 J11 R2 J11 Student J11	500 25 111 6 63 4 960 44	0.37 0.28 0.27 0.28 0.27 0.28 0.27 0.28	185         7           3.66	1180.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1287.74	4371 4397 4508 4514 4577 4582 4724 4769	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.000444 0.000143	6 6 6 6 6 6 6 6 6 6	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08623 0.08622 0.08632 0.08632 0.08899 0.08984	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU
	Tesidents Management Staff* Management Staff* Royalton Residents Residents Royalton II Residents Anangement Staff Warming Pool (70m2) Royalton II Residents Management Staff Warming Pool (105m2) No. 3 Sassoon Road HKU HKJC Building for nterdisciplinary Research	R3 J11 R2 J11 R2 J11 Student J11	<b>500</b> <b>25</b> 1111 6 63 4 960 44	0.37 0.28 0.27 0.28 0.27 0.28 0.27 0.28	<b>185</b> <b>7</b> <b>3.66</b> <b>29.97</b> <b>1.68</b> <b>1.71</b> <b>1.01</b> <b>1.12</b> <b>2.56</b> <b>38.4</b> <b>12.32</b>	1180.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1287.74	4371 4397 4508 4514 4577 4582 4724 4769	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.000444 0.000143	6 6 6 6 6 6 6 6	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08621 0.08629 0.08632 0.08632 0.08899 0.08994	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU
R F F M S S F M N S S F M N S S S F M N S S S F M N S S S F M N S S S S S S S S S S S S S S S S S S	Tesidents	R3 J11 R2 J11 R2 J11 R2 Student J11 Student	500 25 111 6 6 6 4 960 44 1728	0.37 0.28 0.27 0.28 0.27 0.28 0.04 0.28 0.04	185 7 3.66 29.97 1.68 1.71 17.01 1.12 2.56 38.4 12.32 69.12	1180.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1287.74 1356.86	4371 4397 4508 4514 4577 4582 4577 4582 4724 4769 5025	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.000444 0.000143	6 6 6 6 6 6 6 6 6 5	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08621 0.08629 0.08632 0.08632 0.08899 0.08984	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU Data from HKU, total population 1,800
R         F         F           N         N         N           S         S         F           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N	Residents  Anagement Staff*  Management Staff*  Royalton  Residents  Anagement Staff  Anagement Staff  Royalton II  Residents  Anagement Staff  Student  Residents  Royalton Royal HKU HKJC Building for  Resident*  Student**	R3 J11 R2 J11 Student J11 Student	500 25 111 6 6 63 4 960 44 1728	0.37 0.28 0.27 0.28 0.27 0.28 0.04 0.28 0.04 0.04	<b>185</b> 7 <b>3.66</b> 29.97 1.68 1.71 1.701 1.12 2.56 38.4 12.32 69.12	1180.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1287.74 1356.86	4371 4397 4508 4514 4577 4582 4777 4582 4772 4769 5025	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.000143 0.000143	6 6 6 6 6 6 6 6 6 5	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08621 0.08629 0.08632 0.08699 0.08894 0.07894	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU, total population 1,800 persons, Estimated Staff are 4% of Overall Ponulation
R         F         F         F           N         S         F         F         F           N         S         F         F         F           N         S         F         F         F           N         N         N         N         N           N         N         N         N         N           N         N         N         N         N           N         N         N         N         N           N         N         N         N         N	Vesidents           Management Staff*           Winming Pool (150m2)           Royalton           Vesidents           Management Staff           Swimming Pool (70m2)           Royalton II           Vesidents           Management Staff           Winming Pool (70m2)           Royalton II           Vesidents           Management Staff           Winming Pool (105m2)           Vo. 3 Sassoon Road Academic Building           Student           Teacher & Staff           Vo. 5 Sassoon Road HKU HKJC Building for           nterdisciplinary Research           Student**           Teacher & Staff**	R3 J11 R2 J11 R2 J11 Student J11 Student J11	500 25 1111 6 63 4 960 44 1728 72	0.37 0.28 0.27 0.28 0.28 0.28 0.04 0.28	185         7           3.66	1180.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1287.74 1356.86 1377.02	4371 4397 4508 4514 4577 4582 4724 4724 4769 5025 5100	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.000444 0.000143 0.0008 0.000233	6 6 6 6 6 6 6 6 6 5 5 5	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08621 0.08629 0.08632 0.08632 0.08899 0.08984 0.07894 0.07894	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population
	Vesidents  Anangement Staff*  Weimming Pool (150m2)  Royalton  Vesidents  Anangement Staff  Weimming Pool (70m2)  Royalton II  Vesidents  Anangement Staff  Swimming Pool (105m2)  No. 3 Sassoon Road Academic Building  Student  Feacher & Staff**  Vesident**  Feacher & Staff**  Vesident*  Teacher & Staff**  Vesident*  Teacher & Staff**  Teacher & Staff** Teacher & Staff** Teacher & Staff** Teacher & Staff** Teac	R3 J11 R2 J11 R2 J11 Student J11 Student J11	500 25 1111 6 63 4 960 44 1728 72	0.37 0.28 0.27 0.28 0.27 0.28 0.28 0.04 0.28 0.04 0.28	185         7           3.66	1180.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1287.74 1356.86 1377.02	4371 4397 4508 4514 4577 4582 4724 4769 5025 5100	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.000143 0.0008 0.0008 0.000233	6 6 6 6 6 6 6 6 6 6 5 5 5	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08621 0.08629 0.08632 0.08642 0.08899 0.08894 0.08984	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population
R F F F F F F F F F F F F F F F F F F F	Vesidents  Anangement Staff*  Anangement Staff*  Royalton  Residents  Anangement Staff  Royalton II  Vesidents  Anangement Staff  Anangement Staff  Vesidents  Anangement Staff  Anangement Staf	R3           J11           R2           J11           Student           J11           Student           J11	500 25 1111 6 63 4 960 44 1728 72	0.37 0.28 0.27 0.28 0.27 0.28 0.04 0.28 0.04 0.28	185         7           3.66	1180.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1287.74 1356.86 1377.02	4371 4397 4508 4514 4577 4582 4724 4769 5025 5100	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.000143 0.0008 0.000233	6 6 6 6 6 6 6 6 6 6 5 5	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08621 0.08629 0.08629 0.08689 0.08889 0.08889 0.08889 0.08884	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745
R         R	Residents	R3           J11           R2           J11           Student           J11           Student           J11           Student           J11           Student           J11           Student           J11	500 25 111 6 63 4 9 960 44 1728 72 715	0.37 0.28 0.27 0.28 0.27 0.28 0.27 0.28 0.04 0.04 0.28 0.04 0.28	185         7           3.66	1180.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1287.74 1356.86 1377.02 1405.62	4371 4397 4508 4514 4577 4582 4724 4724 4769 5025 5100 5206	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.000143 0.000143 0.00008 0.000233	6 6 6 6 6 6 6 6 6 6 6 5 5 5	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08621 0.08629 0.08629 0.08684 0.08894 0.08984 0.07894 0.07894 0.08010	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745 persons. Estimated Staff are 4% of
	Tesidents	R3           J11           R2           J11           Student           J11           Student           J11           Student           J11	500 25 1111 6 63 4 960 44 1728 72 715 30	0.37 0.28 0.27 0.28 0.27 0.28 0.28 0.28 0.04 0.28 0.04 0.28	185         7           3.66	1180.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1287.74 1356.86 1377.02 1405.62 1414.02	4371 4397 4508 4514 4577 4582 4577 4582 4779 5025 5100 5206 5206 5237	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.000143 0.000143 0.0008 0.000233 0.0000331 9.72E-05	6 6 6 6 6 6 6 6 6 6 5 5 5 5 5	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08621 0.08629 0.08632 0.08899 0.08894 0.07894 0.07894 0.08176 0.08225	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population
	Vesidents Vanagement Staff* Vanagement Staff* Vanagement Staff Vanagement Vana	R3 J11 R2 J11 Student J11 Student J11 Student J11 Student J11 Insitutional	500 25 1111 6 63 4 960 44 1728 72 715 30	0.37 0.28 0.27 0.28 0.27 0.28 0.04 0.28 0.04 0.28 0.04 0.28	185         7           3.66	1180.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1287.74 1356.86 1377.02 1405.62 1414.02 1699.02	4371 4397 4508 4508 4514 4577 4582 4577 4582 4769 5025 5100 5206 5237 6293	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.000143 0.000143 0.0008 0.000233 0.0000331 9.72E-05 0.000329	6 6 6 6 6 6 6 6 6 6 5 5 5 5 5	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08621 0.08629 0.08632 0.08632 0.08899 0.08984 0.07894 0.07894 0.08010	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population Elow provided by EPD
R         F         F         N	Vesidents  Anangement Staff*  Anangement Staff*  Anangement Staff  Anangement Staff  Anangement Staff  Swimming Pool (70m2)  Royalton II  Vesidents  Anangement Staff  Swimming Pool (105m2)  Ao 3 Sassoon Road Academic Building  Student  Facher & Staff**  Facher & S	R3 J11 R2 J11 Student J11 Student J11 Student J11 Insitutional Insitutional	500 25 1111 6 63 4 4 960 44 1728 715 30	0.37 0.28 0.27 0.28 0.27 0.28 0.04 0.28 0.04 0.28 0.04 0.28	185           7           3.66           29.97           1.68           1.71           17.01           1.12           2.56           38.4           12.32           69.12           20.16           28.6           8.4           285           72.6	1180.24 1187.24 1187.24 1217.21 1218.89 1235.90 1237.02 1237.02 1237.02 1237.02 1235.86 1377.02 1405.62 1414.02 1499.02 1711.62 1844.22	4371 4397 4508 4514 4577 4582 4777 4582 4772 4789 5025 5100 5226 5237 6293 6582 6582	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.000197 1.3E-05 0.000197 0.0008 0.000233 0.00083 0.000233	6 6 6 6 6 6 6 6 6 6 6 5 5 5 5 5 5 5 5 5	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08621 0.08623 0.08623 0.08623 0.08632 0.08642 0.08642 0.08984 0.08994 0.08010 0.08176 0.08275 0.08275 0.08274 0.08225	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population Flow provided by EPD Flow provided by EP
	Vesidents  Anangement Staff*  Anangement Staff*  Royalton  Residents  Anangement Staff  Anangement Sta	R3 J11 R2 J11 R2 J11 Student J11 Student J11 Student J11 Insitutional Insitutional Insitutional Insitutional	500 25 111 6 63 4 960 44 1728 72 715 30	0.37 0.28 0.27 0.28 0.27 0.28 0.04 0.28 0.04 0.28 0.04 0.28	185           7           3.66           29.97           1.68           1.71           17.01           1.12           2.56           38.4           12.32           69.12           20.16           28.6           8.4           285           72.6           72.6           72.6	1180.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1275.42 1287.74 1356.86 1377.02 1405.62 1414.02 1689.02 1711.62 1844.22 1916.82	4371 4397 4508 4514 4577 4562 4724 4769 5025 5100 5206 5237 6523 6523 6523 6523 6523 6523 6523	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 0.000197 1.3E-05 0.000197 0.000197 0.000197 0.000197 0.000197 0.000197 0.000197 0.000197 0.000331 9.72E-05 0.000323	6 6 6 6 6 6 6 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5	0.08229 0.08277 0.08281 0.08501 0.08501 0.08503 0.08622 0.08622 0.08622 0.08639 0.08639 0.08639 0.08639 0.08639 0.08639 0.08639 0.08639 0.08639 0.08639 0.08639 0.08630 0.08639 0.08630 0.08639 0.08630 0.00820 0.008240 0.00740000000000	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population Elow provided by EPD Elow provi
R         F	Vesidents  Vesident  Vesi	R3 J11 R2 J11 R2 J11 Student J11 Student J11 Student J11 Institutional Institutional Institutional Institutional Institutional Institutional Institutional Institutional Institutional	500 25 111 6 63 4 9 960 44 1728 715 30	0.37 0.28 0.27 0.28 0.27 0.28 0.28 0.04 0.28 0.04 0.28 0.04 0.28	185         7           3.66	1180.24 1187.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1275.42 1287.74 1356.86 1377.02 1405.62 1414.02 1699.02 1777.62 1844.22 1946.82 1996.82 1992.32	4371 4397 4508 4514 4577 4582 4724 4769 5025 5100 5206 5206 5237 6662 6830 7399 7399	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.000143 0.000143 0.000143 0.00008 0.0000331 9.72E-05 0.000239 0.00084 0.00084 0.00084 0.00084 0.00084	6 6 6 6 6 6 6 6 6 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08621 0.08629 0.08629 0.08684 0.08884 0.08884 0.06884 0.06894 0.06894 0.06894 0.06876 0.08876 0.08874 0.08225 0.08275 0.0975 0.0975 0.0975 0.0975 0.00750000000000	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU, total population 1,800 persons, Estimated Staff are 4% of Overall Population Data from HKU, total population 745 persons, Estimated Staff are 4% of Overall Population Flow provided by EPD Flow provi
R         F	Tesidents	R3 J11 R2 J11 Student J11 Student J11 Student J11 Instrutional Insitutional Insitutional Insitutional Insitutional Insitutional Insitutional Insitutional J10 Instrutional J11	500 25 1111 6 63 4 960 44 1728 715 30 715	0.37 0.28 0.27 0.28 0.27 0.28 0.28 0.28 0.04 0.28 0.04 0.28 0.04 0.28	185         7           3.66	1180.24 1187.24 1187.24 1187.24 1217.21 1218.89 1235.90 1237.02 1237.02 1275.42 1287.74 1356.86 1377.02 1405.62 1414.02 1699.02 1771.62 1844.22 1916.82 1992.32 2047.62 2077.58	4371 4397 4397 4508 4514 4577 4582 4577 4582 4769 5025 5100 5206 5206 5237 6293 6562 6562 6562 6583 7099 7379 7584	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.000143 0.0008 0.00008 0.00008 0.00008 0.00008 0.00084 0.00084 0.00084 0.00084 0.00084 0.00084 0.00084 0.00084	6 6 6 6 6 6 6 6 6 6 6 6 6 6	0.08229 0.08277 0.08281 0.08490 0.08501 0.08501 0.08629 0.08629 0.08632 0.08632 0.08894 0.08894 0.07894 0.08984 0.08176 0.08225 0.08825 0.08824 0.010294 0.010294 0.010294 0.011571	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population Elow provided by EPD Flow provided by EPD Flo
R         F         F           R         F         F         F           R         F         F         F           R         F         F         F           R         F         F         F           R         F         F         F           N         S         F         F           N         S         S         F           N         S         S         F           N         N         S         S           V         N         N         S           V         N         N         S           V         N         N         S           V         N         N         S           V         N         N         S           V         N         N         S           V         N         N         S           V         N         N         S           V         N         N         N           V         N         N         N           V         N         N         N           V         N         N	Vesidents  Anangement Staff*  Anangement Staff*  Koyalton  Vesidents  Anangement Staff  Swimming Pool (150m2)  Royalton II  Vesidents  Anangement Staff  Swimming Pool (70m2)  Royalton II  Vesidents  Anangement Staff  Swimming Pool (105m2)  Ao. 3 Sassoon Road Academic Building  Student  Cacher & Staff**  Feacher & St	R3 J11 R2 J11 Student J11 Student J11 Student J11 Instutional Instrutional Instrutional Instrutional J10 Instrutional J11 Instrutional Instrutional J11 Instrutional J10 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional Instrutional J11 Instrutional Instrutional J11 Instrutional Instrutional J11 Instrutional Instrutional J11 Instrutional Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11 Instrutional J11	500 25 1111 6 63 4 960 44 1728 72 715 30 715	0.37 0.28 0.27 0.28 0.27 0.28 0.28 0.28 0.04 0.28 0.04 0.28 0.04 0.28 0.04 0.28	185         7           3.66	1180.24 1187.24 1187.24 1217.21 1218.89 1235.90 1237.02 1237.02 1275.42 1287.74 1356.86 1377.02 1405.62 1414.02 1699.02 1771.62 1644.22 1992.32 2047.62 2007.58 2006.90	4371 4397 4397 4508 4514 4577 4582 4577 4582 4769 5025 5100 5206 5237 6293 6662 6662 6630 7099 7379 7584 7695	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 2.96E-05 0.000197 1.3E-05 2.96E-05 0.000197 1.3E-05 0.000197 0.00084 0.000331 0.00083 0.00084 0.0	6 6 6 6 6 6 6 6 6 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5	0.08229 0.08277 0.08281 0.08490 0.08501 0.08501 0.08621 0.08629 0.08632 0.08632 0.08899 0.08984 0.07894 0.07894 0.08176 0.08225 0.08974 0.008176 0.08275 0.0874 0.008176 0.08225 0.09874 0.10714 0.10215	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU Data from HKU Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population Elow provided by EPD Flow provided by
R         F	Vesidents  Anangement Staff*  Anangement Staff*  Royalton  Residents  Anangement Staff  Swimming Pool (150m2)  Royalton II  Residents  Anangement Staff  Swimming Pool (70m2)  Royalton II  Residents  Royalton II  Royalto	R3 J11 R2 J11 R2 J11 Student J11 Student J11 Student J11 Insitutional Insitutional Insitutional Insitutional Insitutional J10 Insitutional J10 J11 J11 J11 J11 J11 J11 J11	500 25 1111 6 63 4 960 44 1728 72 715 30 715 30 0 960 69 960 44	0.37 0.28 0.27 0.28 0.27 0.28 0.28 0.04 0.28 0.04 0.28 0.04 0.28 0.04 0.28 0.04 0.28	185           7           3.66           29.97           1.68           1.71           17.01           1.12           2.56           38.4           12.32           69.12           20.16           28.6           8.4           285           72.6           72.6           72.6           72.6           72.6           72.6           72.6           72.6           72.6           72.6           72.6           72.6           72.6           72.6           72.6           72.6           72.6           72.8           79.96           19.32	1180.24 1187.24 1187.24 1217.21 1218.89 1235.90 1237.02 1237.02 1237.02 1237.02 12356.86 1377.02 1405.62 1414.02 1689.02 1771.62 1844.22 1916.82 1916.82 2047.62 2047.62 2047.62 2047.62 2047.62	4371 4397 4397 4508 4514 4577 4582 4724 4769 5025 5100 5237 6562 65830 7099 7379 7584 7995 7766	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 0.000197 1.3E-05 0.000197 0.000197 0.000197 0.000084 0.000084 0.000084 0.00084 0	6 6 6 6 6 6 6 6 6 6 6 6 6 6	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08621 0.08629 0.08629 0.08629 0.08649 0.00804 0.00810 0.00817000000000000000000000000000000000	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU, total population 1.800 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population Elow provided by EPD Data from HKU Data from HKU Data from HKU Data from HKU
R         F         F         N	Vesidents  Anangement Staff*  Anangement Staff*  Koyalton  Residents  Anangement Staff  Segment Staff  Anangement Staff	R3 J11 R2 J11 R2 J11 Student J11 Student J11 Instutional Insitutional Insitutional Insitutional J10 Insitutional J11 J11 J11 J11	500         25           111         6           63         4           960         44           1728         715           30	0.37 0.28 0.27 0.28 0.27 0.28 0.04 0.28 0.04 0.28 0.04 0.28 0.04 0.28 0.04 0.28 0.28 0.28 0.28 0.28 0.28 0.28	185           7           3.66           29.97           1.68           1.71           17.01           1.12           2.56           38.4           12.32           69.12           20.16           28.6           8.4           2265           72.6           72.6           72.6           72.6           72.6           72.6           29.96           19.32           28.84	1180.24 1187.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1275.42 1287.74 1356.86 1377.02 1405.62 1414.02 1699.02 11771.62 1916.82 1996.82 2047.62 20	4371 4397 4397 4508 4514 4577 4582 4724 4769 5025 5100 5226 5233 6662 6830 7529 6662 6830 7379 7379 7584 7695 7766 7873	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 0.000197 1.3E-05 0.000197 0.000197 0.000197 0.000197 0.000197 0.000197 0.000044 0.0000233 0.0000233 0.000084 0.000084 0.	6 6 6 6 6 6 6 6 6 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5	0.08229 0.08277 0.08281 0.08501 0.08501 0.08503 0.08621 0.08629 0.08639 0.01029 0.01029 0.01029 0.01029 0.01029 0.01029 0.01124 0.11124 0.11127 0.1112	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population Elow provided by EPD Elow provided by
R         F	Vesidents	R3 J11 R2 J11 R2 J11 Student J11 Student J11 Student J11 Instutional Institutional Institutional Institutional J10 J11 J11 J11 J11 Student	500 25 111 6 63 4 9 960 44 1728 715 30 715 30 107 69 103	0.37 0.28 0.27 0.28 0.27 0.28 0.28 0.28 0.04 0.28 0.04 0.28 0.04 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28	185         7           3.66         29.97           1.68         1.71           17.01         1.12           2.56         38.4           12.32         20.16           28.6         8.4           285         72.6           72.6         75.5           55.3         29.96           19.32         28.84           6.48         6.48	1180.24 1187.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1287.74 1356.86 1377.02 1405.62 1414.02 1689.02 1771.62 1844.22 1916.82 1992.32 2047.62 2077.58 2096.90 2125.74 2132.22	4371 4397 4397 4508 4514 4577 4582 4577 4582 4724 4769 5025 5100 5206 5206 5206 5237 6293 6662 6632 6632 6662 6662 6787 7695 7766 7895 7766	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.000143 0.000143 0.000143 0.00008 0.000233 0.000083 0.000083 0.00083 0.00084 0	6 6 6 6 6 6 6 6 6 6 6 6 6 6	0.08229 0.08277 0.08281 0.08490 0.08501 0.08503 0.08621 0.08629 0.08629 0.08689 0.08689 0.08899 0.08984 0.08984 0.07894 0.08010 0.08176 0.08225 0.08275 0.08275 0.08275 0.08274 0.10294 0.10294 0.10294 0.11571 0.11891 0.12065 0.12263	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population Flow provided by EPD Data from HKU Data from HKU Data from HKU Data from HKU
R F F F F F F F F F F F F F F F F F F F	Vesidents Vanagement Staff* Vanagement Staff* Vanagement Staff* Vanagement Staff Vanagement	R3 J11 R2 J11 Student J11 Student J11 Student J11 Insitutional Insitutional Insitutional Insitutional Insitutional J10 J11 J11 J11 J11 J11 J11 J11 J11 J11	500 25 111 6 63 4 960 44 1728 715 30 715 30 90 107 69 103 162 402 19	0.37 0.28 0.27 0.28 0.27 0.28 0.28 0.28 0.04 0.28 0.04 0.28 0.04 0.28 0.04 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28	185           7           3.66           29.97           1.68           1.71           17.01           1.2.56           38.4           12.32           69.12           20.16           28.6           8.4           28.6           8.4           29.96           19.32           29.96           19.32           28.84           6.48           112.56           28.44	1180.24 1187.24 1187.24 1187.24 1217.21 1218.89 1235.90 1237.02 1275.42 1287.74 1356.86 1377.02 1405.62 1414.02 1699.02 1771.62 1844.22 1916.82 1992.32 2047.62 2077.58 2096.90 2125.74 2132.22 2244.78 2072.92	4371 4397 4397 4508 4514 4577 4582 4577 4582 4769 5025 5100 5206 5206 5237 6293 6652 6830 7099 7379 7584 7766 7895 7766 7873 7897 7897	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 0.000197 1.3E-05 2.96E-05 0.00044 0.0008 0.000233 0.00008 0.00008 0.00084	6 6 6 6 6 6 6 6 6 6 6 6 6 6	0.08229 0.08277 0.08281 0.08490 0.08501 0.08501 0.08629 0.08629 0.08629 0.08899 0.08894 0.08894 0.08894 0.08894 0.08894 0.08894 0.08894 0.08894 0.08894 0.08894 0.08894 0.08894 0.08176 0.08225 0.08825 0.08225 0.08824 0.10294 0.10294 0.1124 0.1124 0.1124 0.1124 0.1124 0.1226 0.12216 0.12243 0.12381 0.12381 0.12381	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF 18 Data from HKU Data from HKU Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745 Plow provided by EPD Data from HKU
R         F	Vesidents  Anangement Staff*  Anangement Staff*  Anangement Staff*  Anangement Staff  Anangement Staff	R3 J11 R2 J11 Student J11 Student J11 Student J11 Insitutional Insitutional Insitutional Insitutional J10 J11 J11 J11 J11 J11 J11 J11 J11 J11	500 25 1111 6 63 4 960 44 1728 715 30 715 30 107 69 103 162 402 18 3	0.37 0.28 0.27 0.28 0.27 0.28 0.28 0.28 0.28 0.04 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28	185           7           3.66           29.97           1.68           1.71           17.01           1.12           28.6           8.4           28.6           8.4           28.6           72.6           72.6           75.5           55.3           29.96           19.32           28.84           6.48           112.56           28.44           0.84	1180.24 1187.24 1187.24 1187.24 1187.24 1217.21 1218.89 1235.90 1237.02 1237.02 1275.42 1287.74 1356.86 1377.02 1405.62 1414.02 1699.02 1771.62 1844.22 1992.32 2047.62 2077.58 2096.90 2125.74 2132.22 2274.06	4371 4397 4397 4508 4514 4514 4514 4527 4582 4769 5025 5100 5206 5206 5237 6293 6682 6830 7099 7384 7695 7766 7873 7897 8314 6419 84422	0.002141 8.1E-05 4.23E-05 0.000347 1.94E-05 1.97E-05 2.96E-05 0.000197 1.3E-05 2.96E-05 0.000444 0.000197 0.0008 0.00084 0.000833 0.000233 0.00084 0.00034 0.00034 0.000328 0.00084 0.000328 0.00084 0.000328 0.00084 0.000328 0.000328 0.00084 0.000328 0.00084 0.000328 0.000328 0.00084 0.000328 0.00084 0.000328 0.00084 0.000328 0.00084	6 6 6 6 6 6 6 6 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5	0.08229 0.08277 0.08281 0.08490 0.08501 0.08501 0.08629 0.08629 0.08629 0.08629 0.08899 0.08894 0.08894 0.07894 0.07894 0.08176 0.08225 0.08899 0.08275 0.01714 0.11714 0.11277	Proposed Development 30 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF 17 Units from Centadata, average occupancy 3.7 PPF Data from HKU Data from HKU, total population 1,800 persons. Estimated Staff are 4% of Overall Population Data from HKU, total population 745 persons. Estimated Staff are 4% of Overall Population Flow provided by EPD Data from HKU Data from HKU Data from HKU Data from HKU Estimated Population

Total Flow Average Flow (I/s)

\*assume no. management staff = 5% of no. of residents \*\* With reference to Source T (No. 3 Sasson Road Academic Building), the population of teacher & staff is approximately 4% of the total population

The estimation of backwash flow from swimming pool is based on following assumption Turnover Rate 4 hr Surface Loading Rate of Filter 20 m3/m2/hr Backwash Duration 3 min (day Backwash Flow Rate 30 m3/m2/hr

binnies

Project

### Layout Plan Submission and Proposed Minor Relaxation of Building Height Restriction for Permitted Flat Use At 131 Pok Fu Lam Road, Hong Kong, RBL 136RP

Subject					Estimation of Sewag	n of Sewage Flow at Pok Fu Lam Road (After Development)												
										Peak		Peak						
										Discharge	% of	Discharge	% of					
From	То	Upstream	Downstream	Upstream	Downstream	Distance	Diameter	Gradient	Capacity	(existing)	Capacity	(future)	Capacity					
Manhole No.	Manhole No.	CL (mPD)	CL (mPD)	I.L. (mPD) <sup>1</sup>	I.L. (mPD) <sup>1</sup>	(m)	(mm)	(1 in)	(m <sup>3</sup> /s)	(m <sup>3</sup> /s)	(existing)	(m <sup>3</sup> /s)	(future)	Remark				
														Connection Point from Proposed				
New MH001	FMH7038820	138.95	138.71	137.00	136.80	13.5	225	67.5	0.064	-	-	0.01829	28.63%	Development. <sup>2</sup>				
FMH7038820	FMH7022533	138.71	138.37	136.25	135.91	50.6	400	148.8	0.196	0.07576	38.71%	0.08281	42.31%	Existing Flow from Source A to O, Q and T				
FMH7022533	FMH7022362	138.37	138.00	135.89	135.55	42.7	400	125.6	0.213	0.07798	36.60%	0.08503	39.91%	Connection Point from R (Royalton)				
FMH7022362	FMH7022361	138.00	138.40	135.54	135.26	45	400	160.7	0.188	0.07926	42.09%	0.08632	45.83%	Connection Point from S (Royalton II)				
FMH7022361	FMH7022360	138.40	138.43	135.54	134.65	36.9	400	41.5	0.371	0.07926	21.37%	0.08632	23.28%					
FMH7022360	FMH7038860	138.43	138.24	134.65	134.11	29.4	400	54.4	0.324	0.07926	24.49%	0.08632	26.67%					
FMH7038860	FMH7038861	138.24	137.63	134.11	133.63	10.5	400	21.9	0.511	0.07926	15.52%	0.08632	16.91%					
FMH7038861	FMH7038862	137.63	135.42	133.63	133.00	24.3	400	38.6	0.384	0.07926	20.62%	0.08632	22.45%					
FMH7038862	FMH7038845	135.42	135.34	133.00	132.50	34.7	400	69.4	0.287	0.07926	27.65%	0.08632	30.12%					
FMH7038845	FMH7038846	135.34	134.18	132.50	131.76	13.5	400	18.2	0.559	0.07926	14.18%	0.08632	15.44%					
FMH7038846	FMH7020219	134.18	131.89	131.76	129.79	29.7	400	15.1	0.615	0.07926	12.89%	0.08632	14.03%					
FMH7020219	FMH7020220	131.89	130.45	129.79	128.35	24.1	300	16.7	0.274	0.07926	28.94%	0.08632	31.52%					
														Connection Point from AH (No. 3 Sassoon				
FMH7020220	FMH7060381	130.45	126.53	128.35	124.46	41.6	300	10.7	0.343	0.08279	24.16%	0.08984	26.22%	Road Academic Building)				
														Connection Point from U (HKU HKJC				
FMH7060381	FMH7020221	126.53	124.48	124.46	122.68	13.1	300	7.4	0.413	0.08899	21.54%	0.08010	19.39%	Building for Interdisciplinary Research)				
														Connection Point from V (Patrick Manson				
FMH7020221	FMH7020222	124.48	119.51	122.68	117.41	32.7	300	6.2	0.450	0.09102	20.23%	0.08225	18.28%	Building (North Wing))				
FMH7020222	FMH7020223	119.51	115.59	117.41	112.89	31.3	300	6.9	0.426	0.09102	21.38%	0.09874	23.19%					
FMH7020223	FMH7022433	115.59	113.59	112.89	110.99	15.7	300	8.3	0.390	0.09102	23.35%	0.10294	26.41%					
FMH7022433	FMH7022444	113.59	109.95	110.99	108.21	30.1	300	10.8	0.341	0.09102	26.73%	0.10714	31.46%					
FMH7022444	FMH7022432*	109.95	110.04	108.21	108.08	6	300	46.2	0.165	0.09102	55.19%	0.11134	67.52%					
														Connection Point from W to AG (Victoria				
FMH7022432*	FMH7022445	110.04	109.47	108.08	107.98	4.7	225	47.0	0.077	0.12569	164.17%	0.13202	172.43%	Road Fresh Water Service Reservoir)				
FMH7022445	FMH7023281	109.47	104.54	107.98	101.96	48.2	225	8.0	0.186	0.12569	67.75%	0.13202	71.16%					
FMH7023281	FMH7022459	104.54	101.40	101.96	99.27	29.8	225	11.1	0.158	0.12569	79.69%	0.13202	83.70%					
FMH7022459	FMH7022410	101.40	99.20	99.27	98.20	12	225	11.2	0.157	0.12569	80.18%	0.13202	84.22%					
EMH7022410	EMH7022415	99.20	77 70	98.00	73.83	32	250	13	0.602	0 12569	20.86%	0 13202	21 92%					

k<sub>s</sub> v Surface roughness kinematic viscosity 0.6 mm 1.14 mm<sup>2</sup>/s (Slimed sewers - Clayware in poor condition)

Mean velocity  
(Colebrook-White) 
$$\overline{V} = -\sqrt{32gRS_{f}} \log \left[ \frac{k_s}{14.8R} + \frac{1.255\nu}{R\sqrt{(32gRS_{f})}} \right]$$

Capacity provided Q = V x Cross Section Area of Drain

All invert levels are extracted from GEOINFO MAP and only the invert levels of the main alignment are presented.
 As this is new serve proposed to connect to public serverage system from the Proposed Development, peaking factor (excluding stomwater allowance) of 8 has been applied.
 So Drainage record plan refers to Development, built y1(36/A001
 Assume mid-way between upstream and downstream manholes





Project Layout Plan Submission and Proposed Minor Relaxation of Building Height Restriction for Permitted Flat Use At 131 Pok Fu Lam Road, Hong Kong, RBL 136RP

Subject Proposed	Sewerage Worl	ks for Application	n Site
Capacity Check			
ADWF	=	0.00232 m <sup>3</sup>	/s
Peak Flow (Sewer)	=	0.01829 m <sup>3</sup>	/s
Peak Flow (Pumping	g Station) =	0.00689 m <sup>3</sup>	/s
Pumped Mains to F	FMH7038820		
Capacity of Pipe			
Velocity (Assumed)	<i>v</i> =	1.000 m/s	5
Cross Section Area	of Drain =	Q/v	
	=	0.00689 m <sup>2</sup>	
Min. Pipe Size	=	93.63347 mn	n
Design for Pipe Size	e <	93.63347 =	75 mm OK
Sump pit			
Volume of Pit		3	
Pump Capacity	q =	0.00689 m <sup>°</sup>	/s
Cycle Time	I =	360 s	10 time start/stop per hour
V -	T <sub>min</sub> q		
v <sub>min</sub> —	4	0.619719 m <sup>3</sup>	
Volume of nit		$0.010710 \text{ m}^3$	(0.5(1)x1(M)x1.5(D))
volume of pit	• –	0.70 m	OK

Appendix C

Preliminary Freeboard Check for FMH7022432

# Project

Subject

Layout Plan Submission and Proposed Minor Relaxation of Building Height Restriction for Permitted Flat Use At 131 Pok Fu Lam Road, Hong Kong, RBL 136RP

Preliminary Freeboard Check for FMH7022432

#### Reference

- Sewerage Manual Part 1
   Guidelines for Estimaing Sewage Flows for Sewage Infrastructure Planning (Report No.: EPD/TP 1/05)
   Charts for the Hydraulic Design of Channels and Pipes, Hydraulic Research Paper No.2 by Hydraulic Research Station.

### Assumption adopted in Hydraulic Analysis

 1.
 Colebrook-White Equation is adopted for the calculation of the fullbore velocity.

 2.
 For pipe size <= 600mm, Slimed sewers - Clayware in poor condition Ks is assumed to be</td>

 3.
 For pipe size > 600mm, Slimed sewers - Clayware in poor condition Ks is assumed to be

 4.
 Minimum free board

 5.
 Downstream water level at Manhole FMH7022432 at full capacity =

# Preliminary Freeboard Check for FMH7022432 Note: refer to DSD drianage record plan for manhole references

Manhole No.					Design Flow, Q	Design Flow, Q Exis			ow, Q <sub>ex</sub>	Flow Difference Pipe Capacity (Full bore)				Ground Level Crown Level Invert Level C				Cover	Ba	Backwater Effect											
U/S	D/S	Diameter	Length	Gradient	Relevant Contributing Catchment Sites	Peak Flow * 1.15 FOS [ l/s ]		[ l/s ]			Roughness	Design Velocity,V	Velocity Capacity,Vo	Flow Capacity,Qo	Flow Capacity Utilization (%)	U/S	D/S	U/S	D/S	U/S	D/S	U/S	F D/S	Reynolds	Friction	Pipe Headloss	Local * Headloss	U/S Max. W.L.	Available Freeboard	Overflow?	Freeboard > 1m?
		mm	m	1 in		Incoming	Accumulative	Incoming	Accumulative	%	Ks, mm	m/s	m/s	l/s		mPD	mPD	mPD	mPD	mPD	mPD	m	m nu	umber, Re	Factor, f	Loss (m)	Losses (m)	(mPD)	m		
FMH7022444	FMH7022432	300	6	46	-	123.21	123.21	0.00	0.00	-	0.6	1.74	2.32	164	75.12%	109.95	110.04	108.51	108.38	108.210	108.080	1.44	1.66	522933	0.012	0.0645	0.0774	108.759	1.19	No	Yes
FMH7022432	FMH7022445	225	4.7	47	-	28.61	151.82	0.00	0.00	-	0.6	3.82	1.91	76	199.61%	110.04	109.47	108.31	108.21	108.080	107.980	1.74	1.27	859122	0.010	0.0404	0.3715	108.617	1.42	No	Yes

\* Head losses corfficient, K, is determined using Table 7 of DSD's SM Part 1 2013.

