Prepared for

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Ramboll Hong Kong Limited

PLANNING APPLICATION FOR PROPOSED COMPREHENSIVE DEVELOPMENT SCHEME TO INCLUDE WETLAND RESTORATION PROPOSAL AND PROPOSED FILLING OF PONDS/LAND AND EXCAVATION OF LAND IN "OU(CDWRA)" ZONE AT VARIOUS LOTS IN D.D. 104, NORTH OF KAM POK ROAD EAST, POK WAI, YUEN LONG, NEW TERRITORIES

SEWERAGE IMPACT ASSESSMENT



Date 2 January 2024

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1. INTRODUCTION

- 1.1.1 The applicant proposes to develop the Application Site at various lots in DD104, north of Kam Pok Road East, Yuen Long, into a residential development cum wetland restoration area. The zoning of the Application Site is "Other Specified Uses Comprehensive Development to include Wetland Restoration Area" (OU(CDWRA)) on the approved Nam Sang Wai Outline Zoning Plan S/YL-NSW/8. A S16 application is required for the proposed development.
- 1.1.2 Ramboll Hong Kong Limited has been commissioned by the Project Proponent to conduct this Sewerage Impact Assessment (SIA) for the proposed development under this application. Architectural drawings and technical information of the Application Site were provided respectively by the project architect and other project team members.
- 1.1.3 The Application Site is also the subject of a previous planning application under the application no. A/YL-NSW/290 and a SIA report (R7191) was previously submitted in support of that planning application (Previous SIA). Since then, the layout plan of proposed development has been further reviewed taking into account the concerns of AFCD with respect to the layout of proposed wetland restoration area. Compared to the previous scheme in Previous SIA, the application boundary in current application remains the same. Thus, this SIA serves as an update to the above-mentioned previous submitted SIA report based on the current revised development scheme as requested by AFCD.

1.2 Application Site and its Environs

- 1.2.1 The Application Site is about 51,073 m², and it is immediate southeast of an existing low-rise residential development, Man Yuen Chuen and north of the Kam Pok Road East. The Application Site is currently occupied by abandoned fishponds located at the south-eastern portion of the Application Site.
- 1.2.2 **Figure 1.1** shows the location of the Application Site and the environs.

1.3 Proposed Development

- 1.3.1 The original development scheme will comprise 114 units in 108 housing blocks of 3-to 5-storey high (i.e. 89 in the form of 2- to 4-storey on top of 1-level of communal basement carpark and 25 in 2-storey on top of 1-level of carport), clubhouse, an underground sewage pumping station (SPS) and a proposed wetland restoration area (WRA). To respond to AFCD's comments, amendments to the original MLP are hence required. As a result, a net reduction in total no. of units have been reduced to 90 units in 84 housing blocks varying from 2-storeys to 4-storeys on top of 1-level of carport. The tentative population intake year of the Proposed Development is 2025.
- 1.3.2 The indicative revised MLP and sections of the Proposed Development are included in **Appendix 1.1.**



2. SEWERAGE IMPACT ASSESSMENT ("SIA")

2.1 Introduction

2.1.1 The Proposed Development is a comprehensive development scheme to include wetland restoration proposal. This section gives a brief discussion on the current environmental legislation and standards and assess the impacts arising from the proposed development. Recommendations of mitigation measures have been made if there is any adverse effect induced by the proposed development.

2.2 Existing and Planned Sewerage Infrastructure

- 2.2.1 The site currently falls within the Yuen Long / Kam Tin sewerage catchment and is classified as an unsewered area under the Yuen Long / Kam Tin Sewerage Master Plan (YLKT SMP). A set of existing 225mm public sewerage system (from feature no. MH540 to MH235) is identified along Kam Pok Road East, which is currently not in use and could serve the Project Site.
- 2.2.2 The existing Yuen Long Sewage Treatment Works (YLSTW) serves Yuen Long Town, Yuen Long Industrial Estate and Kam Tin areas with a design capacity of 70,000m³/day (ADWF). It provides primary and secondary treatments with effluent discharges to the Shan Pui River and then to Deep Bay.
- 2.2.3 The public sewerage facility located closest to the Project Site is Nam Sang Wai Sewage Pumping Station (SPS), as shown in **Figure 1.1**.

2.3 Assessment Methodology and Assumptions

2.3.1 An analysis of the capacity of the sewage pipes and the SPS has been carried out to evaluate the adequacy of the proposed sewerage system. The design assumptions and basis are shown in **Table 2-1**.

Table 2-1 Design Assumption and Basis

Items	Values
Design Standard	DSD Sewerage Design Manual, Part 1 & 2
Flow Formula Used	Colebrook White Formula
Unit Flow Factor	EPD Guideline for Estimating Sewerage Flows for Sewerage Infrastructure Planning (GESF)
	0.37 m ³ /d/head (Domestic, Private R3) for residents
	0.28 m ³ /d/head (Commercial, J11) for clubhouse staff
	1.58 m ³ /d/head (Restaurant, J10) for restaurant

2.4 Estimate of Sewage Flow

2.4.1 The sewage flow to be generated from the projected residential population, as well as activities at the clubhouse and the associated facilities has been estimated following "EPD Guideline for Estimating Sewage Flows for Sewage Infrastructure Planning". Major contributions of sewage flow from the Proposed Development include projected residential population of 342 people. The estimated sewage flow is shown in **Table 2-2**.



YUEN LONG, NEW TERRITORIES

Table 2-2 Estimated Sewage Flow from the Proposed Development

Calculatio	n for Sewerage Generation	f the Propos	ed Development	
1.	Houses			
1a.	Total number of residential units	=	<mark>90</mark>	Units
1b.	Total number of residents	=	<mark>270</mark>	people – (Assume Average Household Size ¹ of 3.0)
1c.	Unit flow factor	=	370	litre/person/day – (Private R3 in Table T- 1 of GESF)
1d.	Sewerage generation rate	=	<mark>99.9</mark>	m³/day
2.	Clubhouse			
2a.	Total number of employees	=	34	employees
2b.	Unit flow factor	=	280	litre/employee/day - (J11 in Table T-2 of GESF)
2c.	Sewerage generation rate	=	9.5	m³/day
3.	Restaurant/ Catering Service			
3a.	Total number of customers	=	10	employees
3b.	Unit flow factor	=	<mark>1580</mark>	litre/employee/day – (J10 in Table T-2 of GESF)
3c	Sewerage generation rate	=	<mark>15.8</mark>	m³/day
Total Flow	v from Proposed Developm	ent		



Flow rate (rounded)	=	125.3	m³/day
Contributing population *	=	<mark>464</mark>	People
Peaking factor	=	8	- (Table T-5 of GESF for population <1,000 incl. stormwater allowance)
Peak flow	=	11.60	litre/sec

Note:

- 1. According to the submitted planning statement for current proposed development, the concerned dwellings will comprise 2-storeys to 4-storeys housing units with an average household size is assumed to be 3 people.
- 2. * according to the calculation method in GESF for the so-called "Contributing Population" for peaking factor selection.
- 2.4.2 The average flow and the peak flow from the Application Site will be approximately 125.3 m³/day and 11.60 L/s, respectively.

2.5 Sewerage Impact Assessment

- 2.5.1 It is proposed that the sewage generated from the Proposed Development will be discharged to the existing 225mm diameter sewer at the south of the Application Site for disposal at YLSTW via Nam Sang Wai SPS (Figure 2.1 refers). The hydraulic checking of existing and proposed sewers starting from the discharge point to Nam Sang Wai SPS is provided in Appendix 2.1 and it is found to be adequate to serve the Proposed Development with upgrading and modification works on several sewer segments.
- 2.5.2 There are existing stormwater pipe and box culvert along Pok Wai South Road, which are in vicinity of the proposed sewage system. The indicative cross-sectional drawings of the proposed sewers and the existing utilities are shown in **Figure 2.3 to 2.3**.
- 2.5.3 It is understood there are other planned development sites in vicinity, however, none of these have a solid development schedule at this moment. It is noted that proposed sewer P1 to P15 as shown in Figure 2.1 should be communal which will also become public sewers. Manhole P1, P2 and P3 are designed as backdrop manhole to cater for the high velocity flow and to avoid the box culvert located at the outfall at Pok Wai South Road at the same time. In order to ensure there is sufficient capacity reserved, a sensitivity test has also been undertaken and provided in **Appendix 2.2**. It is understood that the gravity sewer P1 to P15 should have sufficient capacity to cater the additional sewage of around 15,000 m³/d due to other nearby developments (**Appendix 4.1** refers). This is considered to be a very conservative approach. It is therefore suggested to provide twin 675 mm gravity sewers for sewer P1 to P15 along the Pok Wai Road. The design checking of proposed sewage system, considering a capacity of 15,000 m³/d from nearby developments, is provided in **Appendix 2.2**. As such, Figure 2.1 shows the proposed sewerage taking into account other nearby planned development sites.



- 2.5.4 Based on the information provided by the Drainage Services Department (DSD), the design capacity of Nam Sang Wai SPS is 42,921 m³/day. Its design capacity of peak flow is 1,476 L/s as stated in the approved EIA Report for Comprehensive Development and Wetland Protection Near Yau Mei San Tsuen (Register No. AEIAR-189/2015). The sewage generation from the Application Site will take up about 0.30% of the design daily flow of the SPS, while take up 0.18% of YLSTW.
- 2.5.5 Based on the calculation in **Appendix 3.1** including the Proposed Development and other nearby planned development sites, there should be adequate capacity at Nam Sang Wai SPS to cater for the Proposed Development.
- 2.5.6 Subject to further liaison with DSD and the future developments, if any, near the Application Site, the sewerage system proposed within the Application Site and sewer for connection to existing 225mm diameter sewer at the south of the Application Site, will be a private property to be managed and maintained by the future management party of the Proposed Development. There will be no population intake until the proposed sewerage system is available. Regular inspection and maintenance will be conducted in accordance with Chapter 8 of DSD's Sewerage Manual in order to ensure normal operation, hence no blockage or overflow, of the proposed sewerage system. The project proponent will be responsible for the liaison and coordination with the other interfacing projects for the implementation of the required sewerage works in later stage.
- 2.5.7 For proposed sewer P1 to P15, as discussed above, it is noted that this section of proposed sewers should be public sewers. Thus, new connections from the adjacent lots on Government Land to the proposed sewerage system shall be allowed, if any. In that case the Applicant and the future owners of the Proposed Development shall hand over the sewers to DSD and ensure the sewerage system are constructed up to DSD standard.
- 2.5.8 The design details, including the alignment, location, diameter, length and invert levels of the proposed sewerage system, and the location and number of the proposed manholes, are still subject to the detailed design stage of the Project later on as well as relevant planning approval condition (if any) should more updated information about other planned developments be available. Since detailed design will only be available in later detailed design stage, the current SIA is prepared to illustrate the approach of sewerage arrangement for the Proposed Development for the purpose of this planning application. Further survey on underground utilities will normally be carried out during detailed design stage and the future design will take into account how to avoid those facilities. If necessary, should there be updated information on planned public sewers to be provided in the area, the Applicant will also consider feasibility of connecting to public sewer through the discharge of planning approval condition stage.



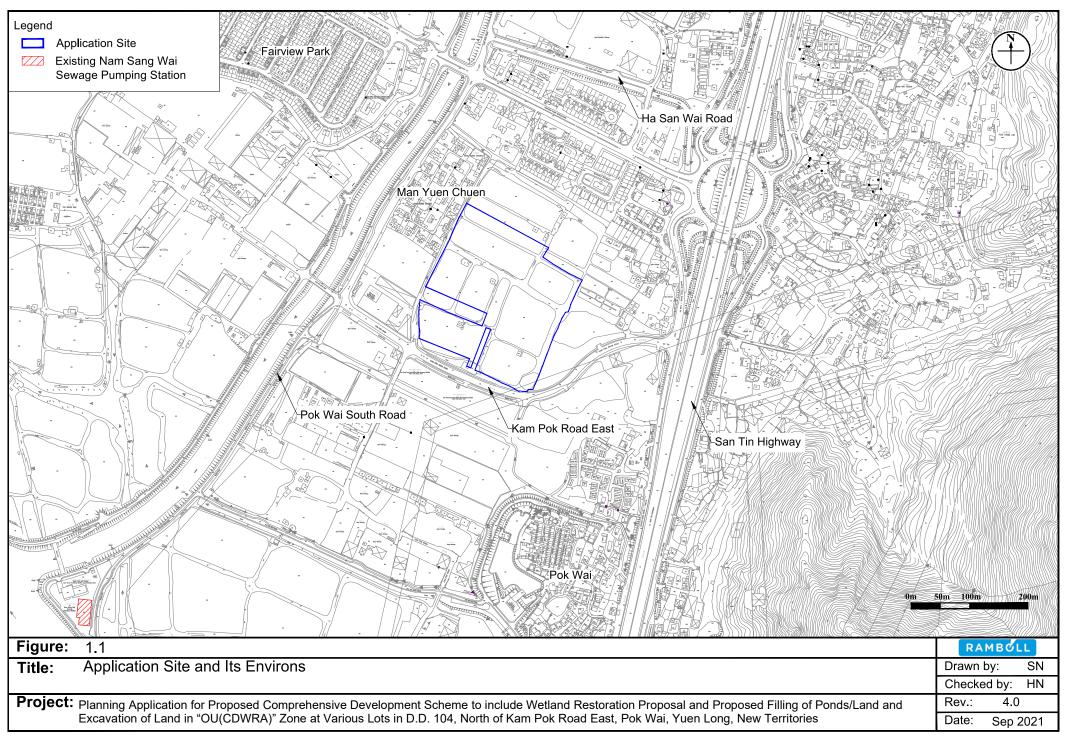
3. CONCLUSION

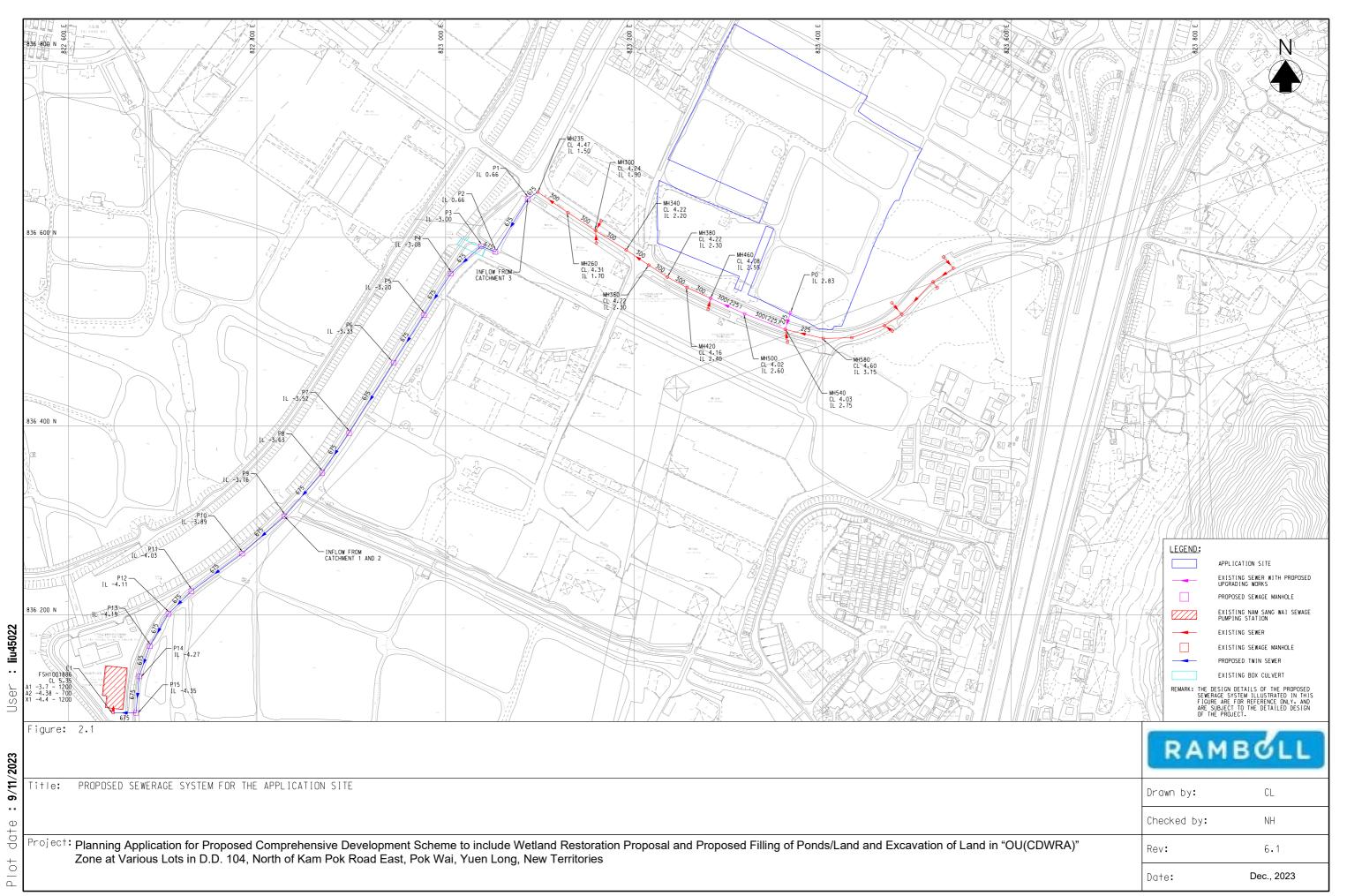
- 3.1.1 The proposed residential development area is located at Kam Pok Road East, Pok Wai, Yuen Long. There is a set of existing 225mm public sewerage system in the vicinity serving the Proposed Development. The Application Site, with a maximum of 342 residents, will generate an average daily sewage flow of 125.3m³/d. It is proposed to be discharged to the existing 225mm public sewers, and further conveyed to existing Nam Sang Wai SPS.
- 3.1.2 Sewage generation from the Application Site will take up only about 0.30% of the design capacity of Nam Sang Wai SPS. The capacity Nam Sang Wai Sewage Pumping Station is considered adequate to cater for the additional flow from the operation of the Proposed Development. Regular inspection and maintenance will be conducted in accordance with Chapter 8 of DSD's Sewerage Manual in order to ensure normal operation, hence no blockage or overflow, of the proposed sewerage system.
- 3.1.3 Based on the calculation, the existing and proposed sewers would have sufficient capacity to cater the sewage flow from the Proposed Development and other planned developments with proposed upgrading works. For proposed sewer P1 to P15, these should become public sewers to cater for sewage from other planned development sites. No adverse sewerage impact is anticipated from the operation of the Proposed Development. Thus, the Proposed Development is considered technically feasible from sewerage impact point of view. The project proponent will be responsible for the implementation of the required sewerage works.

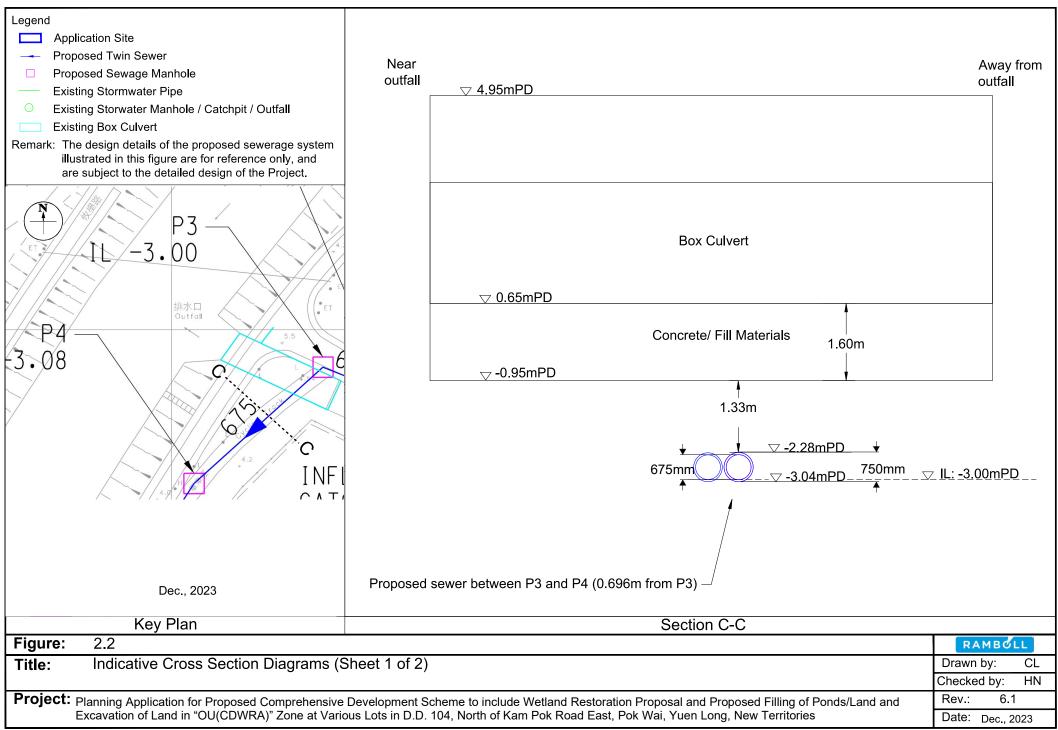


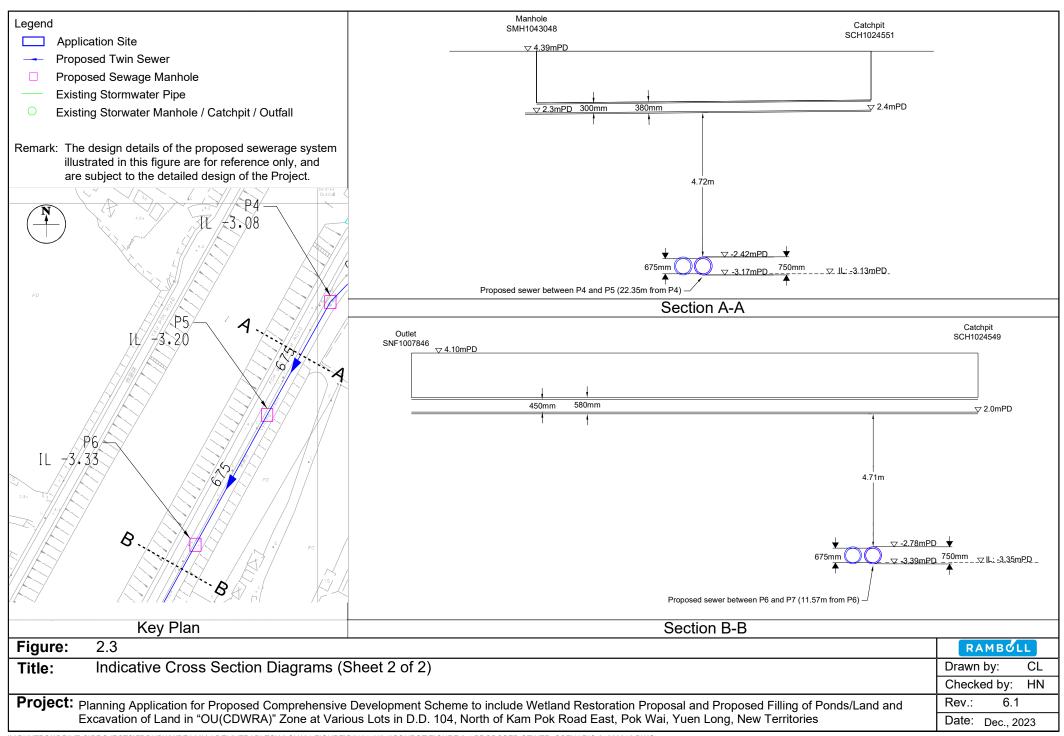
Figures











Appendix 1.1 Indicative Master Layout Plan



Please refer to the Planning Statement



Appendix 2.1 Hydraulic Calculation of the Proposed Sewers for the Application Site



Appendix 2.1 Hydraulic Calculation of the Proposed Sewers for the Application Site

Note:1) Colebrook-White's equation is adopted for full-bore pipe velocity calculation.

		Upstream	Downstream									Design Peak	Full Bore	Full Bore	
		Invert Level	Invert Level	Pipe Length	Gradient (1	Roughness	No.		2	Contributing	Peak	Flowrate	Velocity	Capacity	Utilization
Pipe	Diameter (mm)	(mPD)	(mPD)	(m)	in)	(mm)	of Pipes	Inflow	ADWF (m ³ /s)	Population	Factor	(m^3/s)	(m/s)	(m^3/s)	(%)
P0 to MH540	225	2.83	2.75	18.910	236	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.112	0.044	26.2%
MH540 to MH500	225 (300)	2.75	2.60	46.020	307	3.000	1	Proposed Deve.	0.0015	464	8	0.012	0.963	0.038	30.3%
MH500 to MH460	225 (300)	2.60	2.50	39.640	396	3.000	1	Proposed Deve.	0.0015	464	8	0.012	0.836	0.033	34.9%
MH460 to MH420	300	2.50	2.40	27.370	274	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.239	0.088	13.2%
MH420 to MH380	300	2.40	2.34	23.630	394	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.014	0.072	16.2%
MH380 to MH380(1)	300	2.34	2.28	23.230	387	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.024	0.072	16.0%
MH380(1) to MH340	300	2.28	2.20	28.910	361	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.063	0.075	15.4%
MH340 to MH300	300	2.20	1.90	38.240	127	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.883	0.133	8.7%
MH300 to MH260	300	1.90	1.70	34.900	175	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.586	0.112	10.4%
MH260 to MH235	300	1.70	1.50	38.840	194	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.495	0.106	11.0%
MH235 to P1	300	1.50	1.27	12.590	55	3.000	1	Proposed Deve.	0.0015	464	8	0.012	2.984	0.211	5.5%
P1 to P2	675	0.17	-0.30	65.790	140	3.000	2	Proposed Deve.	0.0015	464	8	0.012	3.000	2.147	0.5%
P2 to P3	675	-1.40	-1.51	16.250	148	3.000	2	Proposed Deve.	0.0015	464	8	0.012	2.914	2.085	0.6%
P3 to P4	675	-2.61	-2.92	43.380	140	3.000	2	Proposed Deve.	0.0015	464	8	0.012	3.000	2.147	0.5%
P4 to P5	675	-2.92	-3.20	52.150	186	3.000	2	Proposed Deve.	0.0015	464	8	0.012	2.570	1.840	0.6%
P5 to P6	675	-3.20	-3.33	59.790	460	3.000	2	Proposed Deve.	0.0015	464	8	0.012	1.573	1.126	1.0%
P6 to P7	675	-3.33	-3.52	88.210	464	3.000	2	Proposed Deve.	0.0015	464	8	0.012	1.565	1.120	1.0%
P7 to P8	675	-3.52	-3.63	50.460	459	3.000	2	Proposed Deve.	0.0015	464	8	0.012	1.576	1.128	1.0%
P8 to P9	675	-3.63	-3.76	61.240	471	3.000	2	Proposed Deve.	0.0015	464	8	0.012	1.553	1.111	1.0%
P9 to P10	675	-3.76	-3.89	59.460	457	3.000	2	Proposed Deve.	0.0015	464	8	0.012	1.578	1.129	1.0%
P10 to P11	675	-3.89	-4.03	67.200	480	3.000	2	Proposed Deve.	0.0015	464	8	0.012	1.537	1.100	1.1%
P11 to P12	675	-4.03	-4.11	34.060	426	3.000	2	Proposed Deve.	0.0015	464	8	0.012	1.641	1.174	1.0%
P12 to P13	675	-4.11	-4.19	39.540	494	3.000	2	Proposed Deve.	0.0015	464	8	0.012	1.513	1.083	1.1%
P13 to P14	675	-4.19	-4.27	33.830	423	3.000	2	Proposed Deve.	0.0015	464	8	0.012	1.647	1.179	1.0%
P14 to P15	675	-4.27	-4.35	38.830	485	3.000	2	Proposed Deve.	0.0015	464	8	0.012	1.528	1.094	1.1%
P15 to E1	675	-4.35	-4.38	23.630	788	3.000	2	Proposed Deve.	0.0015	464	8	0.012	1.173	0.840	1.4%

Appendix 2.2 Hydraulic Calculation of the Proposed Sewers for the Application Site (Sensitivity Test)



Appendix 2.2 Hydraulic Calculation of the Proposed Sewers for the Application Site (Sensitivity Analysis)

Note:

1) Colebrook-White's equation is adopted for full-bore pipe velocity calculation.
2) Backwash Flowrate generated by swimming pool from developments, if any, has been included in the Design Peak Flowrate
3) Catchment 1 is is the planned development in the upstream
4) Catchment 2 is the application Y/YL-NSW/7

125.3 125.3/3600/24 0.0015 Catchment 1. ADWF 12901.6 m3/day Proposed Deve. ADWF m3/day Catchment 2, ADWF 2098.4 m3/day 12901.6/3600/24 2098.4/3600/24 0.1493 0.0243 m3/s m3/s

Pipe	Diameter (mm)	Upstream Invert Level (mPD)	Downstream Invert Level (mPD)	Pipe Length	Gradient (1 in)	Roughness (mm)	No. of Pipes	Inflow	ADWF (m ³ /s)	Contributing Population	Peak Factor	Design Peak Flowrate (m ³ /s)	Full Bore Velocity (m/s)	Full Bore Capacity (m³/s)	Utilization (%)
P0 to MH540	225	2.83	2.75	18.910	236	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.112	0.044	26.2%
MH540 to MH500	300 (225)	2.75	2.60	46.020	307	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.163	0.082	14.1%
MH500 to MH460	300 (225)	2.60	2.50	39.640	396	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.011	0.071	16.2%
MH460 to MH420	300	2.50	2.40	27.370	274	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.239	0.088	13.2%
MH420 to MH380	300	2.40	2.34	23.630	394	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.014	0.072	16.2%
MH380 to MH380(1)	300	2.34	2.28	23.230	387	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.024	0.072	16.0%
MH380(1) to MH340	300	2.28	2.20	28.910	361	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.063	0.075	15.4%
MH340 to MH300	300	2.20	1.90	38.240	127	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.883	0.133	8.7%
MH300 to MH260	300	1.90	1.70	34.900	175	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.586	0.112	10.4%
MH260 to MH235	300	1.70	1.50	38.840	194	3.000	1	Proposed Deve.	0.0015	464	8	0.012	1.495	0.106	11.0%
MH235 to P1	300	1.50	1.27	12.590	55	3.000	1	Proposed Deve.	0.0015	464	8	0.012	2.984	0.211	5.5%
P1 to P2	675	0.17	-0.30	65.790	140	3.000	2	Catchment 1, Proposed Deve.	0.1508	48,248	4	0.603	3.000	2.147	28.1%
P2 to P3	675	-1.40	-1.51	16.250	148	3.000	2	Catchment 1, Proposed Deve.	0.1508	48,248	4	0.603	2.914	2.085	28.9%
P3 to P4	675	-2.61	-2.92	43.380	140	3.000	2	Catchment 1, Proposed Deve.	0.1508	48,248	4	0.603	3.000	2.147	28.1%
P4 to P5	675	-2.92	-3.20	52.150	186	3.000	2	Catchment 1, Proposed Deve.	0.1508	48,248	4	0.603	2.570	1.840	32.8%
P5 to P6	675	-3.20	-3.33	59.790	460	3.000	2	Catchment 1, Proposed Deve.	0.1508	48,248	4	0.603	1.573	1.126	53.6%
P6 to P7	675	-3.33	-3.52	88.210	464	3.000	2	Catchment 1, Proposed Deve.	0.1508	48,248	4	0.603	1.565	1.120	53.8%
P7 to P8	675	-3.52	-3.63	50.460	459	3.000	2	Catchment 1, Proposed Deve.	0.1508	48,248	4	0.603	1.576	1.128	53.5%
P8 to P9	675	-3.63	-3.76	61.240	471	3.000	2	Catchment 1, Proposed Deve.	0.1508	48,248	4	0.603	1.553	1.111	54.3%
P9 to P10	675	-3.76	-3.89	59.460	457	3.000	2	Catchment 1, Catchment 2, Proposed Deve.	0.1751	56,020	4	0.700	1.578	1.129	62.0%
P10 to P11	675	-3.89	-4.03	67.200	480	3.000	2	Catchment 1, Catchment 2, Proposed Deve.	0.1751	56,020	4	0.700	1.537	1.100	63.6%
P11 to P12	675	-4.03	-4.11	34.060	426	3.000	2	Catchment 1, Catchment 2, Proposed Deve.	0.1751	56,020	4	0.700	1.641	1.174	59.6%
P12 to P13	675	-4.11	-4.19	39.540	494	3.000	2	Catchment 1, Catchment 2, Proposed Deve.	0.1751	56,020	4	0.700	1.513	1.083	64.7%
P13 to P14	675	-4.19	-4.27	33.830	423	3.000	2	Catchment 1, Catchment 2, Proposed Deve.	0.1751	56,020	4	0.700	1.647	1.179	59.4%
P14 to P15	675	-4.27	-4.35	38.830	485	3.000	2	Catchment 1, Catchment 2, Proposed Deve.	0.1751	56,020	4	0.700	1.528	1.094	64.0%
P15 to E1	675	-4.35	-4.38	23.630	788	3.000	2	Catchment 1, Catchment 2, Proposed Deve.	0.1751	56,020	4	0.700	1.173	0.840	83.4%

Appendix 3.1 Capacity Checking of Nam Sang Wai Sewage Pumping Station



Binnies Hong Kong Limited



Project Planning Application for Proposed

Comprehensive Development Scheme to include Wetland

Restoration Proposal in "OU(CDWRA)" Zone at North of Kam Pok Road East, Pok Wai, Yuen Long, New Territories

Subject Appendix 3.1 Capacity Checking of Nam Sang Wai Sewage Pumping Station (Daily Flow)

	= =	19025.3 Fcap	m ³ /d	<u>0K</u>
Total Daily Flow to Nam Sang Wai SPS, <i>Ftotal</i>	=	F _{est} * 1.0	3	
Catchment Inflow Factor (Yuen Long)	=	1.0		
	=	19025.3	m³/d	
Total Sewage Generation, F _{est}	=	F ₁ +F _{pro} +F _{pl}		
Planned Development, F_{pl}	=	15000.0	m³/d	
Proposed Development, F_{pro}	=	125.3	m³/d	
Capacity Checking of Nam Sang Wai SPS				
Average Daily Flow, F ₁	=	3900	m ³ /d	
<u>Existing Situation</u> Average Daily Flow	=	3900	m³/d	
Design daily flow for Nam Sang Wai SPS, <i>Fcap</i>	=	41921.0	m ³ /d	

Appendix 4.1 Correspondence of Sewage Capacity of Nearby Planned Development sites



Cheong, Kathy

寄件者: sftsang@epd.gov.hk 寄件日期: 2023年6月6日星期二 16:33

收件者: Leung, Kar Kim

jackson@epd.gov.hk; cwkong@epd.gov.hk; Cheong, Kathy; Crystal Lui; Henry Ng; Lo, Edwin 副本: Re: Planning Application A/YL-NSW/314 - Requestion Information for Cumulative Impact in SIA 主旨:

Dear Mr. Leung

As spoken, the gravity sewer P1 to P15 should have sufficient capacity to cater the sewage of around 15,000 m3/d from nearby developments. We suggest to provide twin 675 mm gravity sewers for sewer P1 to P15 along the Pok Wai Road.

Regards

Matthew TSANG E(SI)42 SIG/EPD 3107 8417

From: "Leung, Kar Kim" <leungkk@binnies.com> "sftsang@epd.gov.hk" <sftsang@epd.gov.hk> To:

Henry Ng <hng@ramboll.com>, Crystal Lui <CRYSTALLUI@ramboll.com>, "Lo, Edwin" <LoCH@binnies.com>, "Cheong, Kathy" <CheongKy@binnies.com> Cc:

02/06/2023 17:46 Date:

Planning Application A/YL-NSW/314 - Requestion Information for Cumulative Impact in SIA Subject:

Dear Mr. Tsang,

Further to our phone discussion earlier today and referring to your comment 3.ii. on our SIA; advising that the sewer between P1 to P15 would become a public sewer that should provide sufficient capacity for other planned developments in the vicinity, we would like to request the relevant information/capacity requirements for our incorporation into our SIA and proposed preliminary sewerage scheme.

Also, seems like I don't have the contact information for the colleague you mentioned is the normal contact for the captioned planning application, please feel free to include him/her in the email circulation with your reply email.

Should you have any queries, please feel free to contact me.

Best Regards,

Kim Leung **Principal Engineer BINNIES HONG KONG LIMITED**







+852 26013988



eungkk@binnies.com

43/F AIA Kowloon Tower, 100 How Ming Street, Kwun Tong, Kowloon, Hong

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