



Lam Environmental Services Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment
Works, Associated Submarine Outfall and Pui O
Sewerage Works - ET Services (2021-2022)
Baseline Monitoring Report

ENVIRONMENTAL PERMIT NO. EP-538/2017
OUTLYING ISLANDS SEWERAGE STAGE 2 –
SOUTH LANTAU SEWERAGE WORKS

CONTRACT NO. SD 6/2020
CONSTRUCTION OF SAN SHEK WAN SEWAGE
TREATMENT WORKS, ASSOCIATED SUBMARINE
OUTFALL AND PUI O SEWERAGE WORKS –
ENVIRONMENTAL TEAM SERVICES (2021-2022)

BASELINE MONITORING REPORT
REVISION 9.2

PREPARED FOR:

Drainage Services Department

PREPARED BY:

Lam Environmental Services Limited

19/F Remex Centre
42 Wong Chuk Hang Road
Hong Kong

Telephone: (852) 2882-3939
Facsimile: (852) 2882-3331
E-mail: info@lamenviro.com
Website: <http://www.lamenviro.com>

CERTIFIED BY:

Derek Lo
Environmental Team Leader

DATE:

11 August 2022



Member of the Surbana Jurong Group

local people
global experience

Our ref: 7076811/L28931/AW/KL/TK/rw

11 August 2022

Drainage Services Department
Sewage Services Branch
Special Duty Division Group 3
42/F Revenue Tower
5 Gloucester Road
Wan Chai, Hong Kong

By Email and Post
(kschan04@dsd.gov.hk)

Attention: Mr. Silas CHAN

Dear Sir

Contract No. SD 7/2020
Independent Environmental Checker ("IEC") for Environmental Monitoring Work for
South Lantau Sewerage Works
Verification of Baseline Monitoring Report

With reference to the revised Baseline Monitoring Report (Rev. 9.2) dated and certified by the ET Leader on 11 August 2022, we have no adverse comments. We hereby verify the aforementioned Baseline Monitoring Report in accordance with Condition 3.3 of the Environmental Permit No. EP-538/2017, and Section 9 and 12.1 of the EM&A Manual (AEIAR-210/2017).

Should you have questions, please do not hesitate to contact the undersigned on tel. 3995-8140 or email to kitty.lee@smec.com.

Yours faithfully

Kitty LEE
Independent Environmental Checker

cc	Binnies	-	Mr. Clarence CHAK	by email
	Lam	-	Mr. Derek LO / Mr Raymond DAI	by email
	KLCW-JV	-	Mr. Charles TSE	by email

SMEC ASIA LIMITED
27/F Ford Glory Plaza, 37-39 Wing Hong Street
Cheung Sha Wan, Kowloon, Hong Kong
T +852 3995 8100
F +852 3995 8101
E hongkong@smec.com
W www.smec.com



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Executive Summary

- i. This Baseline Monitoring Report is to report baseline findings for the Project of Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works (Register No. AEIAR-210/2017) (hereinafter “Project”).
- ii. Baseline monitoring for existing landscape and visual condition was conducted on 9 February 2021 to reconfirm the status of Landscape Resources and Landscape Character Areas within works area.
- iii. In accordance with the EM&A Manual, baseline noise monitoring was conducted at sixteen (16) monitoring stations for consecutive 14 days; while, baseline water monitoring was be carried out at nine (9) monitoring stations, three days per week, for at least 4 weeks prior to the commencement of construction works.
- iv. This report presents the findings and information of baseline noise monitoring during the period from 2 March 2021 to 22 April 2021, and those of baseline water quality monitoring during the period from 3 March 2021 to 29 March 2021. No construction activities under the Project were undertaken during the baseline monitoring period.

Landscape and Visual Condition

- v. Compared to the findings in the approved EIA report, the status of the LRs and LCAs covered in the works area of Contract No. DC/2020/02 for the Project generally in line with the EIA report. Baseline of other LR and LCA will be supplemented under separate submission(s) to capture the baseline condition of the corresponding part(s) under other contracts when corresponding work areas, detailed project works and landscape design become available for review as per EM&A manual Section 9.

Noise Monitoring

- vi. The baseline noise levels established at sixteen (16) monitoring stations are summarized as shown in **Table I**. Action & Limit levels of baseline noise levels are summarized as shown in **Table II**.

Water Quality Monitoring

- vii. Average results and Action & Limit levels of baseline water quality level at nine (9) stations are summarized as shown in **Table III**, **Table IV**, **Table V** and **Table VI**.

Table I Summary of Baseline Noise Levels

Monitoring Station ID	Monitoring Station	0700-1900 hrs on normal weekdays	
		L _{eq} (30min), dB(A)	
		Average	Range
N01a *	Shui Hau Village	75.5	74.7 – 79.4
N01c *	Shui Hau Village	62.0	58.4 – 71.1
N03a *	Tong Fuk Village	74.9	73.2 – 78.0
N05a *	Residences at Cheung Fu Street	73.9	72.5 – 78.7
N07 *	Government Holiday Bungalows	58.3	54.6 – 71.9
N08 *	Cheung Sha Ha Tsuen	70.0	66.5 – 72.6
N10	Cheung Sha Sheung Tsuen	68.8	65.6 – 88.6
N11b *	San Shek Wan – Ming Garden	72.3	70.6 – 76.3
N12a *	Lo Uk Tsuen	73.3	71.3 – 75.0
N12b *	Lo Uk Tsuen	76.8	75.2 – 86.1
N13 *	Pui O San Wai Tsuen	73.6	70.5 – 77.5
N14	South Lantau Community Centre	62.2	57.3 – 74.3
N15b	Pui O Lo Wai Tsuen	70.7	62.4 – 78.7
N16a *	Residences at Ham Tin	68.1	63.9 – 75.2
N16b *	Residences at Ham Tin	68.5	64.1 – 80.5
N17	Bui O Public School	62.3	58.7 – 66.4

Remark:

Each of daily 30-minute sampling period includes six consecutive L_{eq} (5min) readings.

* Due to free-field measurement, a correction factor of +3 dB(A) is adopted.

Table II Summary of Action & Limit Levels of Baseline Noise Levels

Monitoring Station ID	Time Period	Parameter	Action Level	Limit Level dB(A)
All	0700-1900 hrs on normal weekdays	L _{eq} , 30min	When one documented complaint is received from any one of the noise sensitive receivers Or 75dB(A) recorded at the monitoring station	70dB(A) for school And 65dB(A) during examination period

Table III Summary of Baseline Water Quality Monitoring Results

Monitoring Station	DO (mg/L)		DO (mg/L)	
	Surface and Middle Layer		Bottom Layer	
	Average	Range	Average	Range
CE	6.5	5.3 - 7.2	6.5	5.6 - 8.2
CF	6.6	5.9 - 7.4	6.4	5.9 - 7.2
SR4	6.4	5.6 - 7.1	6.3	5.8 - 7.5
SR5	6.4	5.8 - 7.2	6.3	5.8 - 7.1
SR6	6.3	5.5 - 7.2	6.4	6.4 - 6.4
SR9	6.5	5.6 - 7.2	6.4	5.5 - 6.9
SR10	6.5	5.8 - 7.3	6.3	6.2 - 6.4
SR12	6.6	5.9 - 7.5	-	-
SR15	6.4	5.7 - 7.9	-	-

Remark: “ - ” implies monitoring was conducted at middle layer only with respect to corresponding water depth.

Table IV Summary of Baseline Water Quality Monitoring Results during Mid-flood Tide

Monitoring Station	Turbidity (NTU)		SS (mg/L)		BOD ₅ (mg/L)	
	Average	Range	Average	Range	Average	Range
CE	6.1	1.8 - 14.6	3.9	1.3 - 13.7	1.3	0.6 - 2.9
CF	7.9	2.6 - 22.9	6.4	1.4 - 46.4	1.5	0.7 - 3.6
SR4	8.8	3.1 - 15.0	6.9	2.8 - 21.1	1.5	0.8 - 2.5
SR5	7.0	1.9 - 14.0	5.1	1.3 - 13.4	1.3	0.3 - 2.1
SR6	9.6	3.4 - 29.1	12.1	2.1 - 20.8	1.2	0.7 - 1.7
SR9	7.7	2.0 - 26.1	6.1	1.4 - 29.5	1.3	0.9 - 1.9
SR10	10.8	2.7 - 35.2	9.7	1.7 - 41.7	1.3	0.8 - 2.2
SR12	7.1	2.6 - 17.0	5.3	1.9 - 17.8	1.4	0.7 - 2.6
SR15	9.5	3.6 - 17.7	9.3	2.3 - 44.3	1.5	0.4 - 2.4

Table V Summary of Baseline Water Quality Monitoring Results during Mid-flood Tide

Monitoring Station & Depth	Total Inorganic Nitrogen (mg/L)		Unionized Ammonia (mg/L)		<i>E. coli</i> (CFU per 100ml)	
	Average	Range	Average	Range	Average	Range
CE	0.14	0.01 - 0.25	0.003	0.001 - 0.006	3.4	1.0 - 56.0
CF	0.15	0.01 - 0.25	0.003	0.001 - 0.007	10.6	1.0 - 61.0
SR4	0.13	0.01 - 0.22	0.003	0.001 - 0.006	6.3	1.0 - 135.0
SR5	0.15	0.01 - 0.25	0.003	0.001 - 0.008	3.2	1.0 - 66.5
SR6	0.15	0.01 - 0.24	0.003	0.001 - 0.006	7.7	1.0 - 106.0
SR9	0.14	0.01 - 0.24	0.003	0.001 - 0.007	3.8	1.0 - 61.5
SR10	0.14	0.01 - 0.25	0.002	0.001 - 0.006	3.6	1.0 - 32.5
SR12	0.13	0.01 - 0.23	0.002	0.001 - 0.006	3.0	1.0 - 17.5
SR15	0.14	0.01 - 0.25	0.003	0.001 - 0.006	8.6	1.0 - 48.0

Table VI Summary of Action & Limit Level of Baseline Water Quality

Parameters	Action Level	Limit Level
Construction Phase Marine Water Monitoring		
DO in mg/L ^B	<u>Surface and Middle: 5.8 mg/L</u> <u>Bottom: 5.9 mg/L</u>	<u>Surface and Middle: 4 mg/L</u> <u>Bottom: 2 mg/L</u>
Turbidity in NTU (Depth-averaged ^A) ^C	14.4 NTU <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station ^D	23.5 NTU <u>and</u> 30% exceedance of value at any impact station compared with corresponding data from control station ^D
SS in mg/L (Depth-averaged ^A) ^C	13.1 mg/L <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station ^D	30.4 mg/L <u>and</u> 30% exceedance of value at any impact station compared with corresponding data from control station ^D
Operation Phase Marine Water Monitoring		
Dissolved oxygen in mg/L ^B	<u>Surface and Middle: 5.8 mg/L</u> <u>Bottom: 5.9 mg/L</u>	<u>Surface and Middle: 4 mg/L</u> <u>Bottom: 2 mg/L</u>
Turbidity in NTU (Depth-averaged ^A) ^C	14.4 NTU <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station ^D	23.5 NTU <u>and</u> 30% exceedance of value at any impact station compared with corresponding data from control station ^D
SS in mg/L (Depth- averaged ^A) ^C	13.1 mg/L <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station ^D	30.4 mg/L <u>and</u> 30% exceedance of value at any impact station compared with corresponding data from control station ^D
5-day Biochemical Oxygen Demand in mg/L (Depth- averaged ^A) ^C	2.2 mg/L <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station ^D	<u>5 mg/L</u> ^E
Total Inorganic Nitrogen in mg/L (Depth-averaged ^A) ^C	0.23 mg/L	<u>0.25 mg/L</u> ^F
Unionized Ammonia in mg/L (Depth- averaged ^A) ^C	0.006 mg/L	<u>0.021 mg/L</u> ^G
E. coli in cfu per 100 ml (Depth-averaged ^A) ^C	31.0 cfu per 100 ml <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station ^D	(i) 61.1 cfu per 100 ml, <u>or</u> 610 cfu/100mL as geometric mean for secondary contact, recreation subzones ^H (ii) 61.1 cfu per 100 ml, <u>or</u> 180 cfu/100mL as geometric mean for bathing beach subzones ^H

Notes (with proposed amendments in AL/LL in underlined text):

A. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.

B. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

C. For SS, turbidity, 5-day Biochemical Oxygen Demand, Total Inorganic Nitrogen, Unionized Ammonia and *E. coli*, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

D. Action Level and Limit Level with 95%-ile / 99%-ile derived from baseline data "and" 20% / 30% exceedance of control station proposed in Section 5.1.1 justified with the sensitivity analysis of control station criteria detailed in Section 3.8.2.

E. 99%-ile of baseline BOD₅ data is 2.7 mg/L, which is considered too close to the proposed action level of 2.2 mg/L. False alarm would be easily triggered if 2.7 mg/L is adopted as limit level. Thus, 5 mg/L of criterion is adopted as limit level.

F. 99%-ile of baseline TIN data is 0.25 mg/L. Owing to and-clause conditions, 0.25 mg/L is adopted as limit level.

G. 99%-ile of baseline UIA data is 0.006 mg/L, which is same as the proposed action level. In order to avoid ambiguity of triggering action and limit level, 0.021 mg/L is adopted as limit level for effective implementation of event and action plan.

H. Referring to Table 4.1 of the EIA report, for secondary contact recreation subzones, the level of *Escherichia coli* should not exceed 610 per 100 milligrams per litre, calculated as the geometric mean of all samples collected in one calendar year. While, for bathing beach subzones, the level of *Escherichia coli* should not exceed 180 per 100 milligrams per litre, calculated as the geometric mean of all samples collected from March to October inclusive in one calendar year. Samples should be taken at least 3 times in a calendar month at intervals of between 3 and 14 days.

1 Introduction

1.1 Background

- 1.1.1. The purpose of this Project is to construct and operate a sewerage system for proper collection, treatment and disposal of the sewage arising from South Lantau, which includes the areas in Shui Hau, Tong Fuk, Cheung Sha, San Shek Wan, Pui O and Ham Tin. Construction programme and Layout of project site is presented in **Figure 1.0** and **Figure 1.1** respectively.
- 1.1.2. The proposed Project would be implemented as follows:
- (i) Village sewerage works: It comprises the provision of village sewerage to unsewered villages of Shui Hau, Tong Fuk, Cheung Sha, San Shek Wan, Pui O and Ham Tin in South Lantau. The works will involve construction of sewers inside villages' alleys, which are then connected into the trunk sewerage system below.
 - (ii) Trunk sewerage works: It comprises the construction of trunk sewers, a total of six (6) number of sewage pumping stations and the associated twin rising mains along South Lantau Road for collection and conveyance of sewage from the village sewerage system to the proposed San Shek Wan Sewage Treatment Works (STW).
 - (iii) San Shek Wan STW and associated submarine outfall.
- 1.1.3. The entire Project are divided into three contracts. Contract No. DC/2020/20 (the Contract) would have the following implementations as demonstrated in **Figure 1.2** & **Figure 1.3**.
- (i) Construction of a secondary sewage treatment works at San Shek Wan in South Lantau;
 - (ii) Construction of a sewage pumping station (SPS) at Pui O;
 - (iii) Construction of about 1.4 km of submarine outfall with a diameter of 350 mm for disposal of treated effluent from the STW at San Shek Wan;
 - (iv) Construction of about 4.1 km of gravity sewers with diameters ranging from 150 mm to 375 mm along South Lantau Road and Chi Ma Wan Road and at Pui O Lo Uk; and
 - (v) Construction of about 1.2 km of twin rising mains with a diameter of 200 mm along South Lantau Road and Chi Ma Wan Road.
- 1.1.4. Baseline noise and water quality monitoring covers all contract areas in this report; while, baseline condition of landscape resources and landscape character areas only cover the area of Contract No. DC/2020/02. Baseline condition of other LR and LCA under other contracts will be supplemented under separate submission(s).
- 1.1.5. In accordance with Condition 3.3 stated in the Environmental Permit (EP-538/2017), four hard copies and one electronic copy of the Baseline Monitoring Report shall be submitted to the Director at least 2 weeks before the commencement of construction of the project.



- 1.1.6. In accordance with Section 12.1 of the Project Environmental Monitoring and Audit (EM&A) Manual, the Baseline Environmental Monitoring Report should be prepared and submitted within 10 days of completion of the baseline monitoring.

1.2 Purpose of Baseline Monitoring Report

- 1.2.1. Baseline monitoring is to review baseline conditions of noise level and water quality along the Project boundary, and to establish baseline levels for noise and water quality in accordance with the EM&A Manual. These levels would be used as the basis for assessing environmental impact and compliance during construction and operation stage of the Project. Baseline conditions of landscape resources and landscape character areas are also reviewed under this report to reconfirm the findings in the approved EIA report (Register No. AEIAR-210/2017).
- 1.2.2. This baseline monitoring report presents baseline monitoring requirements, methodologies, monitoring results and determination of action and limit levels for each monitoring parameter at sixteen (16) noise monitoring stations and nine (9) water quality monitoring stations.

2 NOISE MONITORING

2.1 Monitoring Requirements

- 2.1.1 In accordance with the EM&A Manual, baseline noise levels at sixteen (16) monitoring stations shall be measured for a continuous period of at least 14 consecutive days at a minimum logging interval of 30 minutes during daytime between 0700 and 1900 hours.
- 2.1.2 The baseline noise monitoring at sixteen (16) monitoring stations were conducted in three batches separately during the monitoring period from 2 March 2021 to 22 April 2021 and the relevant findings are summarized in this report. The baseline monitoring schedule is shown in **Appendix A**.

2.2 Monitoring Equipment

- 2.2.1 Noise monitoring was performed using sound level meter at the designated monitoring location. Sound level meters shall comply with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator shall be deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in **Table 2.1**.

Table 2.1 Noise Monitoring Equipment

Equipment	Brand and Model	Series Number
Integrated Sound Level Meter	Larson Davis LxT	4797
		6307
		6344
		6345
		6346
		6357
Acoustic Calibrator	Larson Davis Cal 200	13437

- 2.2.2 Calibration certificates of the noise monitoring equipment are attached in **Appendix B**.

2.3 Monitoring Locations

- 2.3.1 In order to prevent from potential disturbances to others and facilitate noise monitoring works, fine adjusted monitoring location was therefore proposed. The fine adjusted noise monitoring stations for baseline noise monitoring are presented in **Table 2.2** and shown in **Appendix C**.

Table 2.2 Baseline Noise Monitoring Stations

Monitoring Station ID ⁽¹⁾	Monitoring Location	Measurement Type	Level (in terms of no. of floor)
N01a	Shui Hau Village	Free-Field	G/F
N01c	Shui Hau Village	Free-Field	G/F
N03a	Tong Fuk Village	Free-Field	G/F
N05a	Residences at Cheung Fu Street	Free-Field	G/F

Monitoring Station ID ⁽¹⁾	Monitoring Location	Measurement Type	Level (in terms of no. of floor)
N07	Government Holiday Bungalows	Free-Field	G/F
N08	Cheung Sha Ha Tsuen	Free-Field	G/F
N10	Cheung Sha Sheung Tsuen	Façade	G/F
N11b	San Shek Wan – Ming Garden	Free-Field	G/F
N12a	Lo Uk Tsuen	Free-Field	G/F
N12b	Lo Uk Tsuen	Free-Field	G/F
N13	Pui O San Wai Tsuen	Free-Field	G/F
N14	South Lantau Community Centre	Façade	G/F
N15b	Pui O Lo Wai Tsuen	Façade	G/F
N16a	Residences at Ham Tin	Free-Field	G/F
N16b	Residences at Ham Tin	Free-Field	G/F
N17	Bui O Public School	Façade	R/F

Remarks (1): Fine adjustment of noise monitoring stations at all locations was proposed as per EP Condition 3.1.

2.4 Monitoring Parameters, Frequency and Duration

2.4.1 Monitoring parameters, frequency and duration of noise monitoring are summarized in **Table 2.3**.

Table 2.3 Baseline Noise Monitoring Parameters, Frequency and Duration

Monitoring Period	Duration	Measurement Parameter	Measurement Period	Frequency
Baseline Monitoring	Continuous period of at least 14 consecutive days	A-weighted levels L_{eq} , L_{10} and L_{90} Including 30 minutes (six consecutive $L_{eq(5min)}$ readings)	Between 0700 and 1900 hours	Daily

2.5 Monitoring Methodology

2.5.1 Monitoring Procedure

- Façade and free-field measurements were made at corresponding monitoring locations. For free-field measurement, a correction factor of +3 dB (A) would be applied.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weighting: A time weighting: Fast
 - Time measurement: Daily measurement of A-weighted levels L_{eq} , L_{10} and L_{90} shall be conducted for a continuous period of at least 14 consecutive days at a minimum logging interval of 30 minutes. Daily measurement periods should be between 0700 and 1900 hours (six consecutive $L_{eq(5min)}$ readings).

- (d) Prior and after to the noise measurement, the meter was checked using the acoustic calibrator for 94dB (A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than $\pm 1.0\text{dB(A)}$, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.

2.5.2 Maintenance and Calibration

- (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- (b) The sound level meter and calibrator were calibrated at yearly intervals.

2.6 Results and Observations

- 2.6.1 Baseline noise monitoring was carried out from 2 March 2021 to 22 April 2021 in three batches for recording two-week monitoring data and the weather were mostly fine and cloudy. During the baseline monitoring period, no construction activities were observed. The major noise source was traffic noise and community noise near the monitoring station.
- 2.6.2 The baseline noise monitoring results are summarized in **Table 2.4** respectively. Detailed noise monitoring results are presented in **Appendix D**.

Table 2.4 Summary of Baseline Noise Monitoring Results

Monitoring Station	0700-1900 hrs on normal weekdays	
	Leq (30min), dB(A)	
	Average	Range
N01a *	75.5	74.7 – 79.4
N01c *	62.0	58.4 – 71.1
N03a *	74.9	73.2 – 78.0
N05a *	73.9	72.5 – 78.7
N07 *	58.3	54.6 – 71.9
N08 *	70.0	66.5 – 72.6
N10	68.8	65.6 – 88.6
N11b *	72.3	70.6 – 76.3
N12a *	73.3	71.3 – 75.0
N12b *	76.8	75.2 – 86.1
N13 *	73.6	70.5 – 77.5
N14	62.2	57.3 – 74.3
N15b	70.7	62.4 – 78.7
N16a *	68.1	63.9 – 75.2
N16b *	68.5	64.1 – 80.5
N17	62.3	58.7 – 66.4

Remark:

Each of daily 30-minute sampling period includes six consecutive L_{eq} (5min) readings.

* Due to free-field measurement, a correction factor of +3 dB(A) is adopted.

2.7 Action and Limit Levels

- 2.7.1 Action and Limit Levels of noise monitoring have been set in accordance with the criteria specified in the EM&A Manual as shown in **Table 2.5** below.



Table 2.5 Action and Limit Levels for Construction Noise

Monitoring Station	Action Level	Limit Level
All	When one documented complaint is received from any one of the noise sensitive receivers Or 75dB(A) recorded at the monitoring station	70 dB(A) for school And 65dB(A) during examination period

3 WATER QUALITY MONITORING

3.1 Monitoring Requirements

- 3.1.1 In accordance with the Project EM&A Manual, the measurements shall be taken at all designated monitoring stations including control stations, for three times a week at mid-ebb and mid-flood tides for 4 consecutive weeks during prior to the commencement of the construction works. The interval between 2 sets of monitoring should not be less than 36 hours. Replicate in-situ measures should be carried out in each sampling event. The levels of dissolved oxygen (DO), turbidity, salinity and pH shall be measured in situ, while suspended solids (SS), 5-day biochemical oxygen demand (BOD₅), total inorganic nitrogen (TIN), unionized ammonia (UIA) and *E.coli* shall be determined by laboratory analysis at all the designated monitoring stations. Water samples shall be extracted at 1m below surface, 1m above seabed and at the mid-depth level at where the water depth is at least 6m. If the water depth is less than 3m, water samples shall only be collected at the mid-depth level. For stations with depth less than 6m, the mid-depth sample can be omitted.
- 3.1.2 The baseline water quality monitoring was conducted during the baseline monitoring period from 3 March 2021 to 29 March 2021 and the relevant findings are summarized in this report. The baseline monitoring schedule is shown in **Appendix A**.

3.2 Monitoring Equipment

- 3.2.1 The baseline water quality monitoring was performed using Multifunctional Meter and Turbid Meter at each designated monitoring station. They are capable of measuring:
- (a) a dissolved oxygen level in the range of 0-20mg/L and 0-200% saturation (Detection Limit: 0.1mg/L)
 - (b) a temperature of 0-45 degree Celsius (Detection Limit: 0.1 degree Celsius)
 - (c) turbidity level between 0-1000NTU (Detection Limit: 0.1NTU)
 - (d) salinity in the range of 0-40ppt (Detection Limit: 0.1ppt)
 - (e) pH value in range of 0.0 – 14.0 (Detection Limit: 0.1units)

Other monitoring equipment namely water depth meter, water current meter, dGPS positioning device, water sampler listed below were also deployed,

- (a) Water depth meter (Range: 0.6 -100m, Resolution: 0.1m)
- (b) Water current meter (Range: 0-360°, Detection Limit: 1mm/s)
- (c) dGPS positioning device (Resolution: Horizontal: 0.25m; Vertical: 0.50 m)
- (d) Water sampler (Horizontal discrete type, Capacity: 2.2L)

- 3.2.2 Brand and model of the equipment are given in **Table 3.1**.

Table 3.1 Water Quality Monitoring Equipment

Equipment	Brand and model	Series Number
Multifunctional Meter	Sonde YSI Professional Plus	17F100236

Turbid meter	Xin Rui WGZ-3B	1807079
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3.2.3 Calibration certificates of the water quality monitoring equipment are attached in **Appendix B**.

3.3 Monitoring Locations

3.3.1 Water quality monitoring stations for baseline water quality monitoring are presented in **Table 3.2** and shown in **Appendix E**.

Table 3.2 Details of Baseline Water Quality Monitoring Stations

Station	Description	Easting	Northing
CE	Upstream control station at ebb tide	810900	807690
CF	Upstream control station at flood tide	815720	807980
SR4 ⁽¹⁾	Ecological Sensitive Receiver (Coral Communities) at Pui O Wan	814938	810975
SR5	Ecological Sensitive Receiver (Coral Communities) at Pui O Wan	814326	810540
SR6	Gazetted Bathing Beach at Lower Cheung Sha	810553	810475
SR9 ⁽¹⁾	Ecological Important Stream at Tong Fuk	811325	809787
SR10	Secondary Contact Recreational Zones at South Lantau	810561	809494
SR12 ⁽¹⁾	Proposed Special Site of Scientific Interest (SSSI) at Shui Hau Wan	810359	808989
SR15	Gazetted Bathing Beach at Pui O and Ecologically Important Stream at Pui O	816037	810722

Remarks (1): Fine adjustment of water quality monitoring stations at SR4, SR9 and SR12 was proposed as per EP Condition 3.1, and baseline monitoring was conducted at corresponding fine adjusted locations.

3.4 Monitoring Parameters, Frequency and Duration

3.4.1 Monitoring parameters, frequency and duration of water quality monitoring are summarized in **Table 3.3**.

3.4.2 The levels of DO, temperature, turbidity and salinity shall be measured in situ while SS, BOD₅, TIN, UA and *E.coli* shall be determined by laboratory analysis at all the designated monitoring stations.

3.4.3 In association with the water quality parameters, other relevant data shall also be recorded, such as monitoring location / position, time, pH, DO saturation, weather conditions, and any special phenomena underway near the monitoring station.

Table 3.3 Water Quality Monitoring Parameters and Frequency

Monitoring Period	Duration	Sampling Parameter	Frequency	Remarks
Baseline Monitoring	at least 4 weeks prior to the commencement of construction works	DO, temperature, turbidity, salinity, SS, BOD ₅ , TIN, UA and <i>E.coli</i>	three days per week	Duplicate samples for in-situ measurements and laboratory analysis

3.5 Monitoring Methodology

3.5.1 Monitoring Procedure

- (a) The condition near the monitoring stations shall be observed and recorded on the data log sheet.
- (b) Check of sensors and electrodes with certified standard solutions before each use.
- (c) Wet bulb calibration for a DO meter should be carried out before measurement.
- (d) Water depth should be recorded by detector before sampling.
- (e) Sample would be taken using water sampler at surface, middle and bottom level.
- (f) Transfer the sampled water carefully into cleaned water bottles provided by the laboratory at the spot after the collection of the water sample for the subsequent laboratory testing of SS, BOD₅, TIN, UIA and *E.coli*.
- (g) Transfer the sampled water from the bucket sampler to the rinsed water container for in-situ measurement (In case of the in-situ measurement cannot be carried at spot due to safety and adverse weather condition, sampled water will be transfer to cleaned water bottles provided by laboratory. Then, In-situ measurement will be conducted at a safe location which sampled water inside cleaned water bottle will be transfer to the rinsed water container for in-situ measurement) In-situ measurement shall be measured in duplicate.
- (h) Parameters including Water Temperature (°C), pH (units), Salinity (ppt), DO (mg/L), DO saturation (%) will be measured by the Multifunctional Meter and Turbidity (NTU) will be measured by turbid meter.
- (i) Record the result on the data log sheet and record any special finding during / after in-situ measurement.
- (j) The water sample bottles will store in a cool box, which shall be delivered to HOKLAS laboratory for further testing to determine the level of SS, BOD₅, TIN, UIA and *E.coli*.

3.6 QA/QC Requirements

3.6.1 Maintenance and Calibration

- (a) The responses of sensors and electrodes of the water quality monitoring equipment were cleaned and checked at regular intervals.
- (b) DO meter (Multifunctional Meter) and turbid meter was certified by a laboratory accredited under HOKLAS or any other international accreditation scheme, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring as per Section 3.2.7 in Appendix-D2: General Technical Requirements of Environmental Monitoring of Guidelines for Development Projects in Hong Kong and typical EM&A requirements of current projects with water quality monitoring (e.g. Expansion of Hong Kong International Airport into a Three-Runway System, Tung Chung New Town Extension), which recommended 3 monthly intervals calibration.

3.6.2 Decontamination Procedures

Water sampling equipment used during the course of the monitoring programme was decontaminated by manual washing and rinsed clean seawater/distilled water after each sampling event. All disposable equipment was discarded after sampling.

3.6.3 Laboratory measurement

Analysis of SS, BOD₅, TIN, UIA and *E.coli*. will be conducted by a HOKLAS accredited laboratory, which is ALS Technichem (HK) Pty. Ltd.

3.6.4 Quality Control Measures implemented by ALS Technichem (HK) Pty. Ltd

- Reporting limit of SS, BOD₅, TIN, UIA and *E.coli*. are 1.0 mg/L, 0.1 mg/L, 0.01 mg/L, 0.001mg/L and 1.0 CFU per 100ml, respectively.
- Water samples were collected and stored in appropriate sampling bottles. All procedures in testing of the water samples were in accordance with our standard procedures as set in QA/QC procedures of the HOKLAS laboratory.
- QC samples comprise those which monitor and control the laboratory performance namely Laboratory Control Sample (LCS), Duplicate Control Sample (DCS), Method Blanks and those which are used for data assessment and the evaluation of matrix effects by using Surrogates, Matrix Spike (MS), Matrix Spike Duplicate (MSD) and Sample Duplicates.
- Quality control samples such as Laboratory Blanks and Quality Control Sample, and/or Certified Reference Materials (CRM) are run at a frequency of 1 in 20 per 'lot' of samples. Sample Duplicates and Matrix Spikes are run at a frequency of 1 in 20 or 1 per batch, whichever is more frequent.

3.7 Results and Observations

3.7.1 The baseline water quality monitoring was carried out from 3 March 2021 to 29 March 2021 and the weather was mostly fine and sometimes cloudy. Representative photos of the site condition during baseline monitoring are shown in **Table 3.7**. During the baseline monitoring period, no construction activities were observed.

3.7.2 The baseline water quality monitoring results are summarized in **Table 3.4**, **Table 3.5** and **Table 3.6**. Detailed water quality monitoring results and record of wind data from Hong Kong Observatory are presented in **Appendix F**.

Table 3.4 Summary of Baseline DO Monitoring Results

Monitoring Station	DO (mg/L)		DO (mg/L)	
	Surface and Middle Layer		Bottom Layer	
	Average	Range	Average	Range
CE	6.5	5.3 - 7.2	6.5	5.6 - 8.2
CF	6.6	5.9 - 7.4	6.4	5.9 - 7.2
SR4	6.4	5.6 - 7.1	6.3	5.8 - 7.5
SR5	6.4	5.8 - 7.2	6.3	5.8 - 7.1
SR6	6.3	5.5 - 7.2	6.4	6.4 - 6.4
SR9	6.5	5.6 - 7.2	6.4	5.5 - 6.9
SR10	6.5	5.8 - 7.3	6.3	6.2 - 6.4
SR12	6.6	5.9 - 7.5	-	-
SR15	6.4	5.7 - 7.9	-	-

Remark: " - " implies monitoring was conducted at middle layer only with respect to corresponding water depth.

Table 3.5 Summary of Baseline Turbidity, SS & BOD₅ Monitoring Results

Monitoring Station	Turbidity (NTU)		SS (mg/L)		BOD ₅ (mg/L)	
	Average	Range	Average	Range	Average	Range
CE	6.1	1.8 - 14.6	3.9	1.3 - 13.7	1.3	0.6 - 2.9
CF	7.9	2.6 - 22.9	6.4	1.4 - 46.4	1.5	0.7 - 3.6
SR4	8.8	3.1 - 15.0	6.9	2.8 - 21.1	1.5	0.8 - 2.5
SR5	7.0	1.9 - 14.0	5.1	1.3 - 13.4	1.3	0.3 - 2.1
SR6	9.6	3.4 - 29.1	12.1	2.1 - 20.8	1.2	0.7 - 1.7
SR9	7.7	2.0 - 26.1	6.1	1.4 - 29.5	1.3	0.9 - 1.9
SR10	10.8	2.7 - 35.2	9.7	1.7 - 41.7	1.3	0.8 - 2.2
SR12	7.1	2.6 - 17.0	5.3	1.9 - 17.8	1.4	0.7 - 2.6
SR15	9.5	3.6 - 17.7	9.3	2.3 - 44.3	1.5	0.4 - 2.4

Table 3.6 Summary of Baseline TIN, UIA & *E. Coli* Monitoring Results

Monitoring Station & Depth	Total Inorganic Nitrogen (mg/L)		Unionized Ammonia (mg/L)		<i>E. coli</i> (CFU per 100ml)	
	Average	Range	Average	Range	Average	Range
CE	0.14	0.01 - 0.25	0.003	0.001 - 0.006	3.4	1.0 - 56.0
CF	0.15	0.01 - 0.25	0.003	0.001 - 0.007	10.6	1.0 - 61.0
SR4	0.13	0.01 - 0.22	0.003	0.001 - 0.006	6.3	1.0 - 135.0
SR5	0.15	0.01 - 0.25	0.003	0.001 - 0.008	3.2	1.0 - 66.5
SR6	0.15	0.01 - 0.24	0.003	0.001 - 0.006	7.7	1.0 - 106.0
SR9	0.14	0.01 - 0.24	0.003	0.001 - 0.007	3.8	1.0 - 61.5
SR10	0.14	0.01 - 0.25	0.002	0.001 - 0.006	3.6	1.0 - 32.5
SR12	0.13	0.01 - 0.23	0.002	0.001 - 0.006	3.0	1.0 - 17.5
SR15	0.14	0.01 - 0.25	0.003	0.001 - 0.006	8.6	1.0 - 48.0

Table 3.7 - Photographic view of the water quality monitoring stations

Station	Site condition during baseline monitoring
CE	

Station	Site condition during baseline monitoring	
CF		
SR4		
SR5		

Station	Site condition during baseline monitoring	
SR6		
SR9		
SR10		

Station	Site condition during baseline monitoring	
SR12		
SR15		

- 3.7.3 Reviewing the monitoring results, one highest value in suspended solid (SR6 at 134.9mg/L) and two highest values in *E.coli.* (135cfu/100ml at SR4, 106cfu/100ml at SR6) were reviewed.
- 3.7.4 Checked the baseline monitoring results, suspended solid at 134.9mg/L of SR6 subject to abnormal turbulence resulting in higher bottom SS captured during the baseline monitoring is considered as outlier and discarded in Action and Limit Level calculation.
- 3.7.5 For the two extraordinary high values in *E.coli.*, 135cfu/100ml at SR4 could be due to SR4 is located at the downstream of 2 streams surrounding the existing San Shek Wan Village where only old septic system is available without sewerage system such that occasional domestic effluent discharge from upstream could be captured on some baseline monitoring days, whereas 106cfu/100ml at SR6 could be due to the absence of sewerage system for existing Lower Cheung Sha public village as well as the presence of nearby septic system of the existing Lower Cheung Sha Public Toilet on coastal landside of SR6. Under this situation, occasions of high values in *E.coli.* from upstream source that captured during the baseline monitoring shall not be discarded.

3.8 Action and Limit Levels

3.8.1 Action and Limit Levels of water quality monitoring have been set with reference to the criteria in the EM&A Manual as shown in **Table 3.8** below.

Table 3.8 Action and Limit Levels for Water Quality

Parameters	Action Level	Limit Level
Construction Phase Marine Water Monitoring		
DO in mg/L	<u>Surface and Middle</u> 5%-ile of baseline data for surface and middle layer <u>Bottom</u> 5%-ile of baseline data for bottom layers	<u>Surface and Middle</u> 4 mg/L <u>Bottom</u> 2 mg/L
Turbidity in NTU (Depth-averaged ^a) ^c	95%-ile of baseline data, or 20% exceedance of value at any impact station compared with corresponding data from control station	99%-ile of baseline data, or 30% exceedance of value at any impact station compared with corresponding data from control station
SS in mg/L (Depth-averaged ^a) ^c	95%-ile of baseline data, or 20% exceedance of value at any impact station compared with corresponding data from control station	99%-ile of baseline data, or 30% exceedance of value at any impact station compared with corresponding data from control station
Operation Phase Marine Water Monitoring		
Dissolved oxygen in mg/L ^b	<u>Surface and Middle</u> 5%-ile of baseline data for surface and middle layer <u>Bottom</u> 5%-ile of baseline data for bottom layers	<u>Surface and Middle</u> 4 mg/L <u>Bottom</u> 2 mg/L
Turbidity in NTU (Depth-averaged ^a) ^c	95%-ile of baseline data, or 20% exceedance of value at any impact station compared with corresponding data from control station	99%-ile of baseline data, or 30% exceedance of value at any impact station compared with corresponding data from control station
SS in mg/L (Depth-averaged ^a) ^c	95%-ile of baseline data, or 20% exceedance of value at any impact station compared with corresponding data from control station	99%-ile of baseline data, or 30% exceedance of value at any impact station compared with corresponding data from control station
5-day Biochemical Oxygen Demand in mg/L (Depth-averaged ^a) ^c	95%-ile of baseline data, or 20% exceedance of value at any impact station compared with corresponding data from control station	99%-ile of baseline data, or 5 mg/L
Total Inorganic Nitrogen in mg/L (Depth-averaged ^a) ^c	95%-ile of baseline data	99%-ile of baseline data, and 0.1 mg/L
Unionized Ammonia in mg/L (Depth-averaged ^a) ^c	95%-ile of baseline data	99%-ile of baseline data, or 0.021 mg/L
E. coli in cfu per 100 ml (Depth-averaged ^a) ^c	95%-ile of baseline data, or 20% exceedance of value at any impact station compared with corresponding data from control station	(i) 99 %-ile of baseline or 610 cfu/100mL as geometric mean for secondary contact, recreation subzones (ii) 99 %-ile of baseline or 180 cfu/100mL as geometric mean for bathing beach subzones.

Notes:

a. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.

b. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

c. For SS, turbidity, 5-day Biochemical Oxygen Demand, Total Inorganic Nitrogen, Unionized Ammonia and *E. coli*, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3.8.2 With the use of baseline water quality monitoring data, the action and limit level for impact stations (i.e. SR4, SR5, SR6, SR9, SR10, SR12 and SR15) are derived as presented in **Table 3.9**. Action Level and Limit Level with 95-ile / 99-ile were derived from baseline water quality data "and" 20% / 30% exceedance of control station would be proposed in Section

5.1.1 based on the sensitivity analysis of control station criteria presented in **Appendix K** which revealed the following,

- a) In the sensitivity analysis, the 20% / 30% exceedance of control station criteria required for the water quality parameters turbidity, SS, BOD5 and E. coli. were derived and compared with percentiles of these parameters for testing its sensitivity with the baseline monitoring data.
- b) On applying "OR" criteria, sensitivity analysis revealed that the 20% / 30% exceedance would result in daily exceedances on turbidity and SS at various impact stations with substantial percentage of non-project related exceedance anticipated (up to 64.3% for turbidity and up to 73.8% for SS) even under the baseline water quality condition as compared with the 95%-ile / 99%-ile derived with within 5% of exceedance reported.
- c) Similar situation was also noted in the reported exceedance on BOD5 and E. coli. at various impact stations with substantial numbers of non-project related exceedance anticipated (up to 26.2% for BOD5 and up to 28.6% for E. coli.) even under the baseline water quality condition reported within the monthly monitoring period as compared with the 95%-ile / 99%-ile derived with is within 5% of exceedance reported.
- d) On applying "OR" criteria, the 20% / 30% exceedance of control station criteria would make in the derived Action/Limit Levels (ALs/LLs) over-sensitive and ineffective in monitoring the water quality impact for both construction and operation phases due to percentage of non-project related exceedance anticipated. Adopting "AND" approach with 95%-ile / 99%-ile in the ALs/LLs could counter-balance the over-sensitivity effect as reflected from similar percentage at around 5% of exceedance anticipated.
- e) In order to eliminate such over-sensitivity and the substantial numbers non-project related exceedances reported impairing the effectiveness of the EM&A programme, it is proposed to amend "OR" to "AND" for the AL/LL of turbidity and SS, AL of BOD5 and AL of E.coli respectively as referred to Note D of Table 3.9.

3.8.3 LLs of BOD5, TIN and UIA - the justifications for the proposed amendments to the LLs are provided in Notes E, F and G of Table 3.9.

Table 3.9 Derived Action and Limit levels

Parameters	Action Level	Limit Level
Construction Phase Marine Water Monitoring		
DO in mg/L ^B	<u>Surface and Middle: 5.8 mg/L</u> <u>Bottom: 5.9 mg/L</u>	<u>Surface and Middle: 4 mg/L</u> <u>Bottom: 2 mg/L</u>
Turbidity in NTU (Depth-averaged ^A) ^C	14.4 NTU <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station ^D	23.5 NTU <u>and</u> 30% exceedance of value at any impact station compared with corresponding data from control station ^D
SS in mg/L (Depth-averaged ^A) ^C	13.1 mg/L <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station ^D	30.4 mg/L <u>and</u> 30% exceedance of value at any impact station compared with corresponding data from control station ^D
Operation Phase Marine Water Monitoring		
Dissolved oxygen in mg/L ^B	<u>Surface and Middle: 5.8 mg/L</u> <u>Bottom: 5.9 mg/L</u>	<u>Surface and Middle: 4 mg/L</u> <u>Bottom: 2 mg/L</u>
Turbidity in NTU (Depth-averaged ^A) ^C	14.4 NTU <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station ^D	23.5 NTU <u>and</u> 30% exceedance of value at any impact station compared with corresponding data from control station ^D
SS in mg/L (Depth- averaged ^A) ^C	13.1 mg/L <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station ^D	30.4 mg/L <u>and</u> 30% exceedance of value at any impact station compared with corresponding data from control station ^D
5-day Biochemical Oxygen Demand in mg/L (Depth- averaged ^A) ^C	2.2 mg/L <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station ^D	<u>5 mg/L</u> ^E
Total Inorganic Nitrogen in mg/L (Depth-averaged ^A) ^C	0.23 mg/L	<u>0.25 mg/L</u> ^F
Unionized Ammonia in mg/L (Depth- averaged ^A) ^C	0.006 mg/L	<u>0.021 mg/L</u> ^G
<i>E. coli</i> in cfu per 100 ml (Depth-averaged ^A) ^C	31.0 cfu per 100 ml <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station ^D	(i) 61.1 cfu per 100 ml, <u>or</u> 610 cfu/100mL as geometric mean for secondary contact, recreation subzones ^H (ii) 61.1 cfu per 100 ml, <u>or</u> 180 cfu/100mL as geometric mean for bathing beach subzones ^H

Notes (with proposed amendments in AL/LL in underlined text):

A. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.

B. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

C. For SS, turbidity, 5-day Biochemical Oxygen Demand, Total Inorganic Nitrogen, Unionized Ammonia and *E. coli*, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

D. Action Level and Limit Level with 95%-ile / 99%-ile derived from baseline data "and" 20% / 30% exceedance of control station proposed in Section 5.1.1 justified with the sensitivity analysis of control station criteria detailed in Section 3.8.2.

E. 99%-ile of baseline BOD₅ data is 2.7 mg/L, which is considered too close to the proposed action level of 2.2 mg/L. False alarm would be easily triggered if 2.7 mg/L is adopted as limit level. Thus, 5 mg/L of criterion is adopted as limit level.

F. 99%-ile of baseline TIN data is 0.25 mg/L. Owing to and-clause conditions, 0.25 mg/L is adopted as limit level.

G. 99%-ile of baseline UIA data is 0.006 mg/L, which is same as the proposed action level. In order to avoid ambiguity of triggering action and limit level, 0.021 mg/L is adopted as limit level for effective implementation of event and action plan.

H. Referring to Table 4.1 of the EIA report, for secondary contact recreation subzones, the level of *Escherichia coli* should not exceed 610 per 100 milligrams per litre, calculated as the geometric mean of all samples collected in one calendar year. While, for bathing beach subzones, the level of *Escherichia coli* should not exceed 180 per 100 milligrams per litre, calculated as the geometric mean of all samples collected from March to October inclusive in one calendar year. Samples should be taken at least 3 times in a calendar month at intervals of between 3 and 14 days.

4 LANDSCAPE AND VISUAL MONITORING

4.1 Objectives

- 4.1.1 In accordance with Section 9 of EM&A Manual under the approved EIA report (Register No. AEIAR-210/2017) requirement, a baseline monitoring report shall be prepared to check, record and re-confirm the status of the Landscape Resources (LR) and Landscape Character Areas (LCA) within the works area. The report shall review the proposed mitigation measures and assess their feasibility with reference to the operational requirements of the detailed project works. Any potential conflicts between proposed mitigation measures and the proposed works shall be resolved at an early stage (prior to construction) and any necessary changes to the mitigation measures shall be incorporated into the detailed design.

4.2 Review of the Approved EIA Report

- 4.2.1 The approved EIA Report (Register No. EIA-210/2017) – Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works has been reviewed to extract relevant information about the baseline conditions of the LRs and LCAs within and immediately adjacent to, the construction and works areas during the EIA stage.
- 4.2.2 At the EIA stage, three LRs were identified within the Project site which was identified as Woodland (LR1), Plantation (LR3) and Urban/ Village Area (LR5). Two LCAs were identified as South Lantau Coastal Uplands and Hillside (LCA1) and South Lantau Coastal Settled Valleys (LCA2) Description of the baseline conditions of the above three LRs and two LCAs in approved EIA report are as follows:
- LR1 – Woodland: This LR consists of large areas of trees growing mainly on the upland and hillside areas, but also some areas closer to the shore at lower elevations. These woodlands vary in maturity and have a canopy height ranging between 5-12 m on average. Species vary in different areas but are dominated by a mixture of native pioneer species including *Schefflera heptaphylla*, *Sapium sebiferum*, *Claoxylon indicum*, *Zanthoxylum avicennae*, backshore species including *Hibiscus tiliaceus* and *Pandanus tectorius*. This LR also includes some relatively old woodland behind Shui Hau, Tong Fuk, Ham Tin and Pui O villages, in which woodlands behind Shui Hau and Tong Fuk are recognised as Fung Shui woodland by AFCD ([Figures 5.4a-m](#)), giving it high local significance. Species in these areas include *Aquilaria sinensis*, *Schefflera heptaphylla*, *Ficus variegata*, *Cinnamomum camphora* and *Aporosa dioica*. Whilst this LR is common in Hong Kong, it is of high conservation value due to its naturalness and undisturbed nature, and some areas are protected as they fall inside the Lantau South Country Park and Green Belt. This LR is thus of high local importance and high quality. Overall this LR is relatively intolerant to change and its sensitivity is **high**.
 - LR3 – Plantation: This LR contains planted trees and is largely located along roadsides, within and around developed areas and above catch water although there is also a large area east of San Shek Wan and Pui O Wan from the coast up to the catch water of the Lantau Trail. Most trees in this LR are exotic species, including *Acacia confusa*, *Casuarina equisetifolia* and *Pinus elliotii*. This LR is common in Hong

Kong, and those areas that are protected as Lantau South Country Park, Green Belt and Coastal Protection Areas are considered to be of conservation value. This is an LR planted by man and despite its tall canopy the plantation is considered relatively immature and of medium quality, and its overall sensitivity is medium.

- LR5 – Urban/ Village Area: This LR includes the villages of Shui Hau, Tong Fok, Cheung Sha, San Shek Wan, Pui O and Ham Tin as well as the penal institution at Tong Fuk and large areas of modified landscape such as that near the junction of the new Tung Chung Road with South Lantau Road. It also includes South Lantau Road itself and the new and old Tung Chung Roads as well as the cemented landing site at Tong Fuk and the road leading down to this. This LR is mainly modified but has some vegetation including village trees and private amenity planting which, along with the traditional village houses and ancestral halls also found within this LR, are vulnerable to the change. This LR is common in Hong Kong and of low conservation value. Overall this LR has limited greening, is low to medium quality and has a reasonable tolerance to change. Its overall sensitivity is considered medium.
- LCA1 – South Lantau Coastal Uplands and Hillsides: This LCA comprises uplands and hillsides adjacent to the coast between the Lo Kei Wan and Chi Ma Wan peninsulas, predominantly lying below 300 mPD and going down to sea level in some areas. There are almost no built forms in this LCA, which is highly vegetated by relatively mature scrubland, woodland and some patches of plantation. Whilst this LCA is common in Hong Kong, it is of high conservation value due to its naturalness and undisturbed nature, and some areas are protected as they fall inside the Lantau South Country Park and Green Belt. This LCA is of high quality with limited ability to accommodate change and its sensitivity is considered to be high.
- LCA2 – South Lantau Coastal Settled Valley: This LCA is composed of valleys where they meet the sea mainly around river or stream estuaries. It is populated by scattered low-rise villages and buildings with easy access to the sea and generally has low-lying topography. This LCA has significant human settlement i.e. is developed, but also has significant vegetation including some woodland and plantation of varying maturity, as well as small areas of agricultural lands and marsh. This LCA is common in Hong Kong, and those areas that are protected as Lantau South Country Park, Green Belt and Coastal Protection Areas are considered to be of conservation value. This LCA is considered to be of medium quality due to the amount of development it contains which makes it adaptable to change and its sensitivity is considered to be medium.

4.2.3 As illustrated in Fig. 1.2, LR3, LR5 and LCA2 are potentially affected by Pui O Sewage Pumping Station (POSPS); LR1, LR5 and LCA2 are potentially affected by San Shek Wan Sewage Treatment Works (SSWSTW) and LR5 is potentially affected by pipe works under this Contract. The estimated total affected areas are in line with Table 10.3 of EIA report.

4.3 Review of the Tree Preservation and Removal Proposal

4.3.1 Tree Preservation and Removal Proposal (TPRP) for the project of Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works and Other Works – Design and Construction dated March 2020 was approved. The approval TPRP has been reviewed to extract relevant information about the baseline conditions of relevant landscape resources of

the area covering Pui O Sewage Pumping Station (POSPS), San Shek Wan Sewage Treatment Works (SSWSTW) and Pui O Lo Uk Tsuen.

- Section 8.1.1 - A total of 362 tree specimens including 10 exotic species (91 trees), 32 local species (247 trees) and 24 dead trees were identified and surveyed at the proposed site of SSWSTW, POSPS and Pui O Lo Uk Tsuen. Because of provisioning of space for building SSWSTW and POSPS and the limited space for compensatory trees, a total of 276 (36 trees at POSPS, 238 trees at SSWSTW and 2 trees at Lo Uk Tsuen) trees within the project area have been recommended for felling under Package 1. 80 trees are retained (60 trees at POSPS and 20 trees at Pui O Lo Uk Tsuen) and 6 trees will be transplanted (4 trees at SSWSTW and 2 trees at POSPS).
- Section 8.1.2 - The compensatory planting of a ratio similar to 1:1 in terms of number, i.e. total 276 trees will be implemented on-site to compensate for the loss of trees in Package 1 commencing in end-2020 for completion in end-2026.

4.3.2 The updated tree survey was carried out from 6 July 2021 to 30 August 2021 and 14 January 2022. The total no. of trees was 574 are recorded within the Project site and 397 trees are affected based on the refined design of the San Shek Wan Sewage Treatment Works and roadworks taking into account the actual topographic situation and future operational needs. The nos. of affected trees in LR3 and LR5 at POSPS is 115 and 281 trees in LR1 and LR5 at SSWSTW and 1 tree in LR5 at pipe works are affected. The additional affected trees will be covered in revised TPRP and details of mitigation will be elaborated in Landscape Mitigation Plan to be submitted as per condition 2.14 of EP-538/2017.

4.4 Baseline Monitoring

4.4.1 Baseline monitoring for the existing landscape condition was conducted on 9 February 2021. During the baseline monitoring, LR and LCA covered within works areas in Contract No. DC/2020/02 (the Contract) have been conducted. Location of the Project Site is shown in **Appendix G**.

4.4.2 LR1 – Woodland: Trees species in San Shek Wan Sewage Treatment Works (SSWSTW) include mixture of native pioneer species including *Schefflera heptaphylla*, *Sapium sebiferum*, *Claoxylon indicum*, *Zanthoxylum avicennae*. The dominant species are *Acacia confusa*, *Aporosa dioica* and *Alangium chinense*. In addition, 3 nos. of *Gmelina chinensis* and 2 nos. of *Aquilaria sinensis* are identified within the proposed boundary of SSWSTW which is rare and precious plant. The condition of LR1 is consistent with the baseline conditions described in Section 10.6.4 and 10.6.6 of the approved EIA report. Photographic view of the existing conditions of LR1 as shown in **Table 4.1**.

4.4.3 LR3 – Plantation: Planted trees were observed along roadsides, within and around developed areas in the area of San Shek Wan and Pui O Wan. Exotic species were found, including *Acacia confusa*, *Casuarina equisetifolia* and *Pinus elliotii*. In Pui O Sewage Pumping Station (POSPS) the dominant species are *Celtis sinensis* and *Acacia confusa* while in SSWSTW the dominant species are *Acacia confusa* and *Pinus massoniana*. The condition of LR3 is consistent with the baseline conditions described in Section 10.6.4 and 10.6.6 of the approved EIA report. Photographic view of the existing conditions of LR3 as shown in **Table 4.1**.

4.4.4 LR5 – Urban/ Village Area: Low-density villages of San Shek Wan and Pui O were observed near South Lantau Road. Vegetation, including village trees and private amenity planting, was

found along with traditional village houses and ancestral halls. The condition of LR5 is generally similar with the baseline conditions described in Section 10.6.4 of the approved EIA report. Photographic view of the existing conditions of LR5 as shown in **Table 4.1**.

- 4.4.5 LCA1 – South Lantau Coastal Uplands and Hillsides: Uplands and hillsides were observed with highly vegetated by relatively mature scrubland, woodland and patches of plantation. Naturalness and undisturbed nature of the Lantau South Country Park and Green Belt placed high conservation value. The condition of LCA1 is consistent with the baseline conditions described in Section 10.6.3 of the approved EIA report. Photographic view of the existing conditions of LCA1 as shown in **Table 4.1**.
- 4.4.6 LCA2 – South Lantau Coastal Settled Valley: Scattered low-rise villages and buildings with easy access to the sea on a low-lying terrain were observed. Woodland with plantation of varying maturity, small areas of agricultural lands and marsh were also found in Lantau South Country Park, Green Belt and Coastal Protection Areas. The dominant backshore species in POSPS are *Excoecaria agallocha*, *Thespesia populnea* and *Pandanus tectorius*. The condition of LCA2 is generally similar with the baseline conditions described in Section 10.6.3 and 10.6.6 of the approved EIA report. Photographic view of the existing conditions of LCA2 as shown in **Table 4.1**.
- 4.4.7 The photographic record and monitoring results are shown in **Table 4.1**. Key plan showing the location and extent of existing landscape and visual resource is shown in **Appendix H**. Compared to the findings in the approved EIA report, the status of the LRs and LCAs covered in SSWSTW and pipe works remain unchanged; while the updated LR and LCA plans for the revised layout of POSPS is shown in **Appendix I**. And trees will be transplanted and compensated according to the approved TPRP. Since there is no major change in the landscape and visual baseline conditions comparing to those of the EIA stage, additional landscape and visual mitigation measures would be subjected to revised TPRP, if any. Details of mitigation measure will be covered in Landscape Mitigation Plan.
- 4.4.8 Baseline of other LR and LCA will be supplemented under separate submission(s) to capture the baseline condition of the corresponding part(s) under other contracts when corresponding work areas, detailed project works and landscape design become available for review as per EM&A manual Section 9.

Table 4.1 Baseline Result for Landscape Resources (LR) and Landscape Character Areas (LCA)

Existing Landscape Resources within Works Area	Photographic Record
LCA1 – South Lantau Coastal Uplands and Hillsides	
LCA2 – South Lantau Coastal Settled Valley	

Existing Landscape Resources within Works Area	Photographic Record
LR1 – Woodland	

Existing Landscape Resources within Works Area	Photographic Record
LR3 – Plantation	
LR5 – Urban/ Village Area	

5 Revision for inclusion into EM&A Manual

- 5.1.1 Reviewing the sensitivity analysis of control station criteria as referred to Section 3.8.2, the application of 20% / 30% exceedance of control station criteria alone would make in the derived Action/Limit Levels (ALs/LLs) over-sensitive and ineffective in monitoring the water quality impact for both construction and operation phases. Adopting the “and” approach with 95%-ile / 99%-ile in the ALs/LLs could counter-balance the over-sensitivity effect. In order to eliminate such over-sensitivity and the substantial numbers non-project related exceedances reported impairing the effectiveness of the EM&A programme, it is proposed to amend “or” to “and” for the AL/LL of turbidity and SS, AL of BOD5 and AL of E.coli respectively.
- 5.1.2 Standard method of APHA 2540E was mentioned in Table 5.2 of the EM&A Manual for testing suspended solid (SS); whereas, the APHA 2540E method is for testing volatile and fixed suspended solids rather than total suspended solid. Thus, the standard method of APHA 2540D for testing total suspended solid should be employed in Table 5.2 of the EM&A Manual.
- 5.1.3 In view of the above method update, reporting limit of SS in Table 5.2 of the EM&A Manual was reviewed. According to baseline water quality monitoring data, the vast majority of SS concentration is equal to or larger than 2 mg/L, only with around 7% of data ranging below 2 mg/L. Increase in reporting limit from 1 mg/L to 2 mg/L would not greatly influence the accuracy of SS result and implementation of event and action plan against action and limit levels. In addition, the reporting limit of 2 mg/L has been adopted in the project of Expansion of Hong Kong International Airport into a Three-Runway System. In light of precedent case, adoption of 2 mg/L as SS reporting limit in monitoring during construction phase and operational phase is proposed in Table 5.2 of the EM&A Manual.
- 5.1.4 Due to insufficient water for sampling and safety issue associated with hard rocks and shallow water, water quality monitoring stations of SR4, SR9 and SR12 were proposed to be fine adjusted as per EP Condition 3.1, and baseline water quality monitoring was conducted at the fine adjusted location accordingly. The proposal of fine adjustment of water quality monitoring stations was submitted in a separate proposal for EPD’s approval. In light of valid data as checked, the mentioned stations presented in **Appendix E** should be followed in the future monitoring during construction and operation phase under EM&A programme.
- 5.1.5 Baseline water quality monitoring was carried out in 4-week period which could not account for all site conditions under seasonal variation in particular the safety concern in marine navigation during windy conditions due to monsoon in winter (i.e. dry season) or weather conditions with typhoons/thunderstorm in summer (i.e. wet season) outside baseline monitoring period. Safety consideration for conducting water sample “surrounding water quality monitoring station” are considered essential and necessary to allow minor adjustment on proposed monitoring locations for impact monitoring.
- 5.1.6 Reviewing the 3 monthly intervals throughout all stages of the water quality monitoring as per Section 3.2.7 in Appendix-D2: General Technical Requirements of Environmental Monitoring of Guidelines for Development Projects in Hong Kong and typical EM&A requirements of current projects with water quality monitoring (e.g. Expansion of Hong Kong International Airport into a Three-Runway System, Tung Chung New Town Extension), 3 monthly intervals calibration is proposed as re-calibration frequency for water quality monitoring.
- 5.1.7 With reference to **Appendix C**, fine adjusted noise monitoring locations as proposed per EP Condition 3.1 are suggested in Figure 4.1 to Figure 4.8 of the EM&A manual. The proposal of

fine adjustment of noise monitoring stations was submitted in a separate proposal for EPD's approval. It is also recommended that the noise and water quality monitoring station condition should be regularly reviewed and fine adjustment or relocation may be needed in order to obtain respective impact monitoring results.

- 5.1.8 Regarding Section 4.1.3 of the EM&A Manual, one set of $L_{eq(15min)}$ noise as three consecutive $L_{eq(5min)}$ shall be monitored during impact monitoring. However, since construction noise during night time and restricted hour is regulated under Construction Noise Permit (CNP) system rather than actual numerical criteria as per Table 1B of Annex 5 under Technical Memorandum on Environmental Impact Assessment Process. Hence, impact noise monitoring in restricted hours is suggested to be erased in the EM&A Manual, and implementation of CNP will be checked and audited during construction phase instead.

6 Comments, Recommendations and Conclusions

Water Quality

- 6.1.1 Baseline water quality monitoring was conducted at the dry season due to tight schedule of commencement of the Project. To account for more representative baseline water quality to cover the wet season and seasonal variations, it is recommended that baseline conditions should be reviewed quarterly when appropriate, through review the monitoring effectiveness and improve the EM&A programme as per Section 12.3(m) under the EM&A Manual for IEC verification.
- 6.1.2 Monitoring works shall not be conducted during adverse weather, including strong monsoon signal, tsunami warning, thunderstorm warning, amber / red / black rainstorm signal, tropical cyclone warning signal No. 3 or higher, in order to ensure personnel safety and avoid acquisition of unrepresentative data and subsequent false alarm.

Noise sources

- 6.1.3 The works area of Contract No. DC/2020/02 covers part of the assessment area (i.e. San Shek Wan and Pui O) of the Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works. Construction impact monitoring for the Contract will be at most conducted at Fine Adjusted N12a, Fine Adjusted N12b, Fine Adjusted N13, Fine Adjusted N15b, Fine Adjusted N16a, Fine Adjusted N16b and Fine Adjusted N17, because the above monitoring stations are located within a radius of 300m from contract-related works areas as illustrated in **Appendix J**. The above monitoring stations are expected representative for the works area of the Contract. Since contract-related construction activities would be carried out phase by phase, impact noise monitoring will be conducted at designated stations only when the activities fall within a radius of 300m from corresponding monitoring stations, according to Section 4.1.2 of the EM&A Manual.
- 6.1.4 For Fine Adjusted N14 (South Lantau Community Centre), during site visit on 9 Feb 2021 the door of the facility was observed broken and the facility was seemed vacant. The facility is considered abandoned. According to the Outline Zoning Plan and desktop study, there was no record for planning application and revitalization plan of South Lantau Community Centre. Thus, N14 does not consider as noise sensitive receiver, and impact noise monitoring for N14 would not be necessary unless occupants are observed in the future.
- 6.1.5 Baseline noise monitoring was conducted prior to commencement of construction works. During baseline monitoring period, no construction activities were observed. The major noise source was traffic noise and community noise nearby monitoring station. It is possible that same noise sources would be identified during impact monitoring period. It is recommended that noise monitoring station condition should be regularly reviewed when appropriate, and fine adjustment or relocation may be needed in order to obtain respective impact monitoring results.

Landscape and Visual

- 6.1.6 Although there is no major change in the landscape baseline conditions comparing to those presented in the EIA report and the TPRP, it is recommended to review landscape and visual mitigation measures regularly to ensure sufficient protection against project implementation.

Conclusion

- 6.1.7 In accordance with the Project EM&A Manual and EP, baseline monitoring has been undertaken prior to commencement of the construction works of the Contract for the following baseline monitoring components: Noise; Water Quality and Landscape.
- 6.1.8 As mentioned under **Appendix C** and **Appendix E**, several fine adjustments of locations were proposed for baseline noise and water quality monitoring. Nevertheless, given the fine adjusted location with similar pollution sources and similar condition to the original locations recommended in the EM&A manual, it is considered to be representative for the noise and water sensitive receiver identified in EM&A manual.
- 6.1.9 Baseline noise monitoring was conducted at sixteen (16) monitoring stations in three batches from 2 March 2021 to 22 April 2021. The major noise sources identified at the monitoring station are traffic noise and community noise. The baseline monitoring results are considered representative of the ambient noise level.
- 6.1.10 Baseline water quality monitoring was conducted at nine (9) monitoring stations from 3 March to 29 March 2021. No observable pollution source was recorded at the monitoring stations and the baseline monitoring results are thus considered representative of the ambient water quality levels. Action and Limit Levels were established for parameters based on the baseline monitoring results.
- 6.1.11 Baseline monitoring for existing landscape and visual condition was conducted on 9 February 2021. The status of the LR and LCAs covered in the works area of Contract No. DC/2020/02 generally in line with the approved EIA report. Baseline of other LR and LCA will be supplemented under separate submission(s) to capture the baseline condition of the corresponding part(s) under other contracts when corresponding work areas, detailed project works and landscape design become available for review as per EM&A manual Section 9.



Figure 1.0

Construction Programme

KL-CW JV

Tentative Construction Programme Contract No.: DC/2020/02 Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works	Reference No. : DC/2020/02 Revision No. : 02
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Tentative Construction Programme

Item	Construction Activities	Start	Finish
Trunk Sewers and Rising Mains			
1	Construct Sewers, Rising Mains	Q3 2022	Q1 2024
2	Excavation, Sewer Laying, Construction of Manhole Together With Backfill	Q3 2022	Q3 2026

KL-CW JV

Tentative Construction Programme Contract No.: DC/2020/02 Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works	Reference No. : DC/2020/02 Revision No. : 02
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Item	Construction Activities	Start	Finish
The Village Sewerage			
1	Excavation, Sewer Laying, Construction of Manhole Together With Backfill	Q4 2021	Q3 2023

KL-CW JV

Tentative Construction Programme Contract No.: DC/2020/02 Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works	Reference No. : DC/2020/02 Revision No. : 02
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Item	Construction Activities	Start	Finish
POSPS			
1	Site Clearance and Tree Felling	Q4 2021	Q4 2021
2	Site Formation	Q1 2022	Q2 2022
3	Gi Works	Q4 2021	Q4 2021
4	Sheetpiling	Q5 2022	Q3 2022
5	Excavation, Sewer Laying, Construction of Manhole, Rising Main together with Backfill	Q2 2023	Q3 2023
6	ELS Works	Q3 2022	Q4 2022
7	Substructure & Superstructure Construction	Q4 2022	Q3 2023
8	E&M Installation	Q4 2022	Q3 2024

KL-CW JV

Tentative Construction Programme Contract No.: DC/2020/02 Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works	Reference No. : DC/2020/02 Revision No. : 02
---	---

Item	Construction Activities	Start	Finish
SSWSTW			
1	Site Clearance and Tree Felling	Q1 2022	Q1 2022
2	Formation Works	Q1 2023	Q1 2023
3	Soil Nail	Q4 2022	Q1 2023
4	Piling Works	Q1 2023	Q3 2023
5	Construction of Foundation	Q3 2023	Q3 2024
6	Construction of Structure	Q3 2024	Q3 2025
7	E&M Installation	Q2 2024	Q3 2025

KL-CW JV

Tentative Construction Programme Contract No.: DC/2020/02 Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works	Reference No. : DC/2020/02 Revision No. : 02
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Item	Construction Activities	Start	Finish
Marine Works			
1	Installation of Silt Curtain	Q2 2022	Q2 2022
2	Construction of Temporary Support Frame	Q2 2022	Q3 2022
3	HDD	Q2 2022	Q3 2023
4	Diffuser Construction	Q3 2023	Q1 2024
5	Emergency Discharge Pipe	Q1 2024	Q3 2025



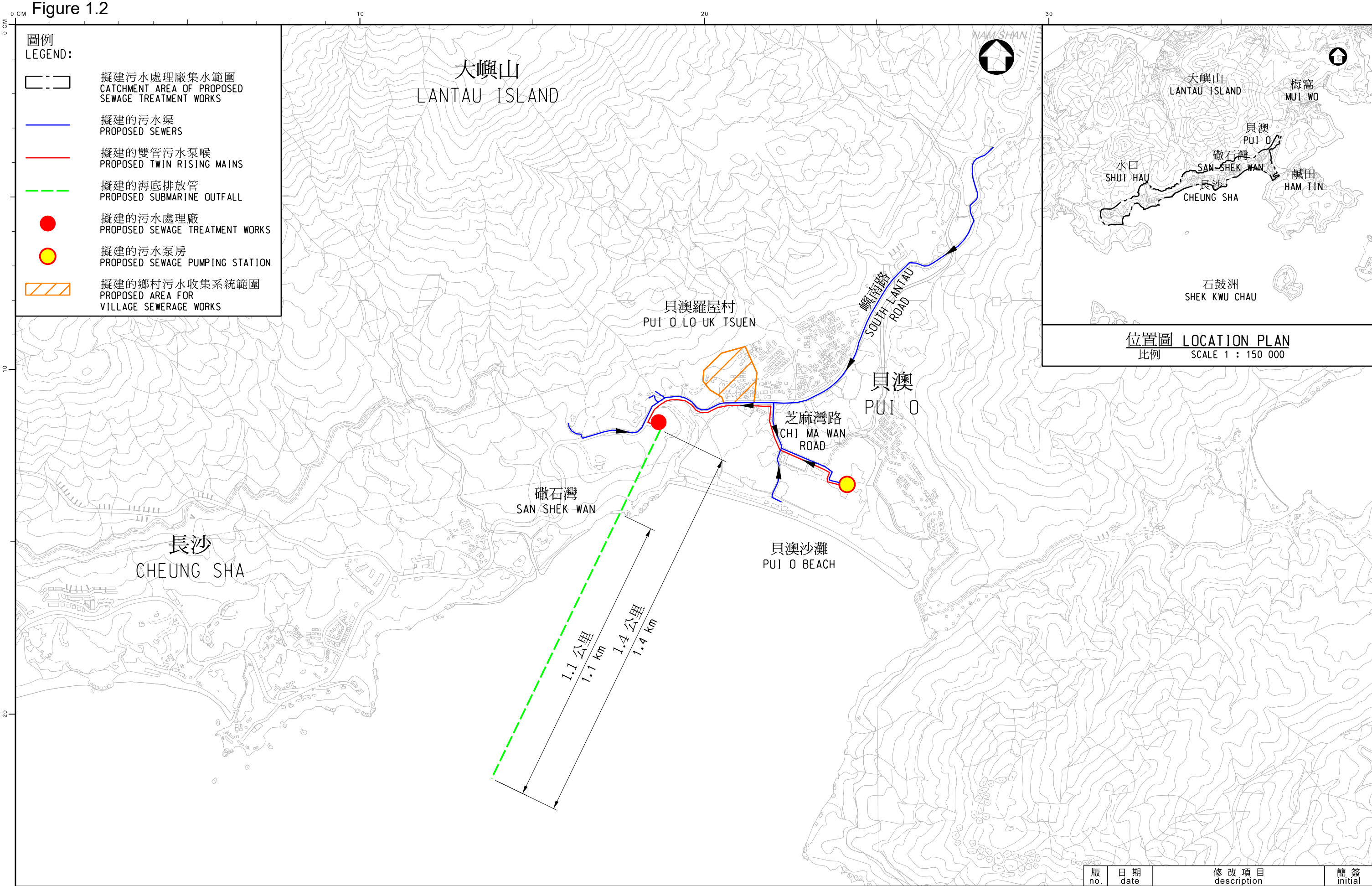
Figure 1.1

Location of Project Site



Figure 1.2

Location of Contract Site

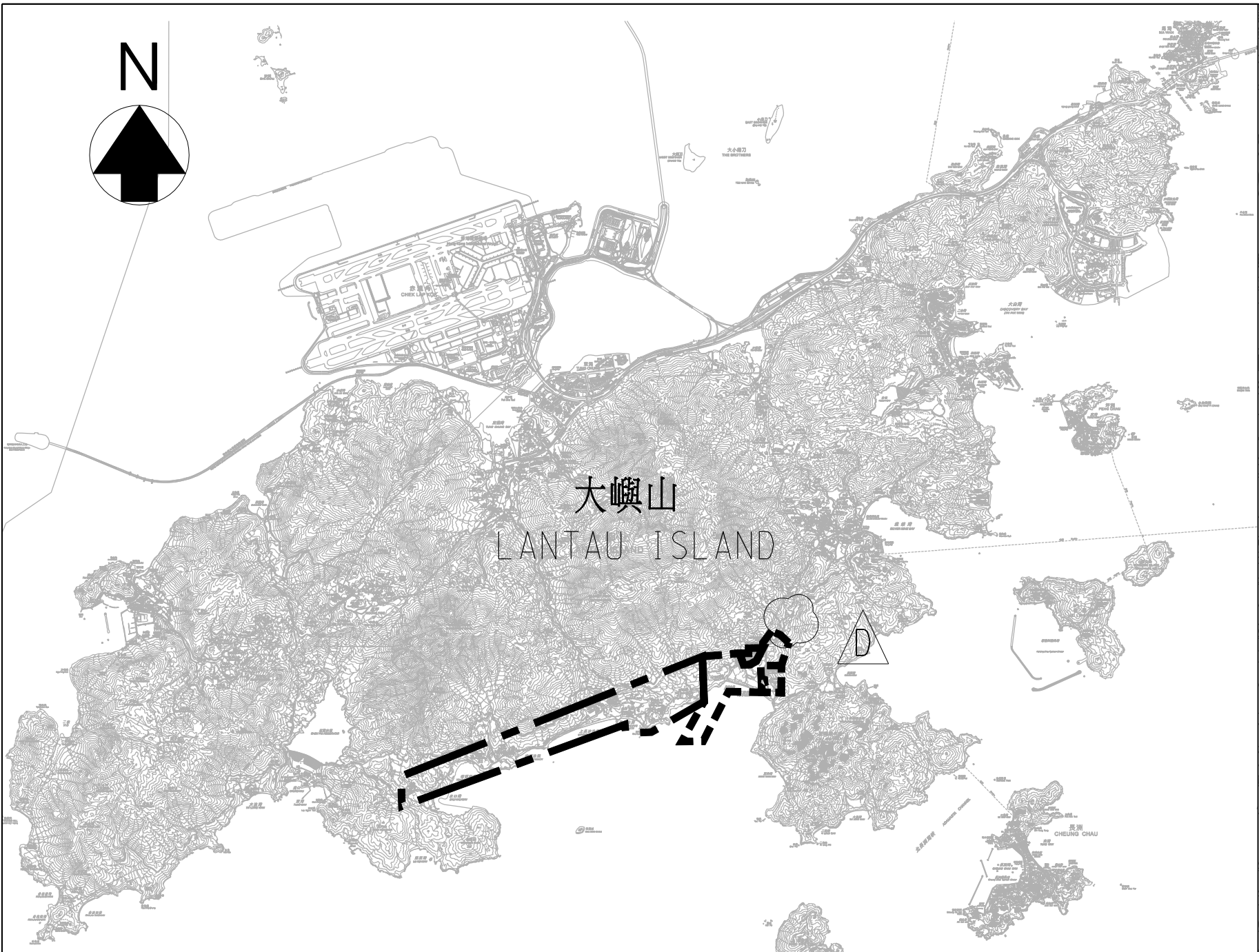


圖則名稱 drawing title 工務工程計劃編號331DS - 離島污水收集系統第2階段 - 南大嶼山污水收集系統工程 PWP ITEM NO.331DS - OUTLYING ISLANDS SEWERAGE, STAGE 2 - SOUTH LANTAU SEWERAGE WORKS	繪畫 drawn SIGNED W. H. CHAN	日期 date 27 APR 2020	圖則編號 drawing no. DVD/2020/001	比例 scale 1:12 500
	核對 checked SIGNED Ir K. S. CHAN	日期 date 27 APR 2020		
	批核 approved SIGNED Ir L. CHEN	日期 date 27 APR 2020	保留版權 COPYRIGHT RESERVED	
	部門 office 特別職務部 SPECIAL DUTY DIVISION			 香港特別行政區政府渠務署 DRAINAGE SERVICES DEPARTMENT GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION

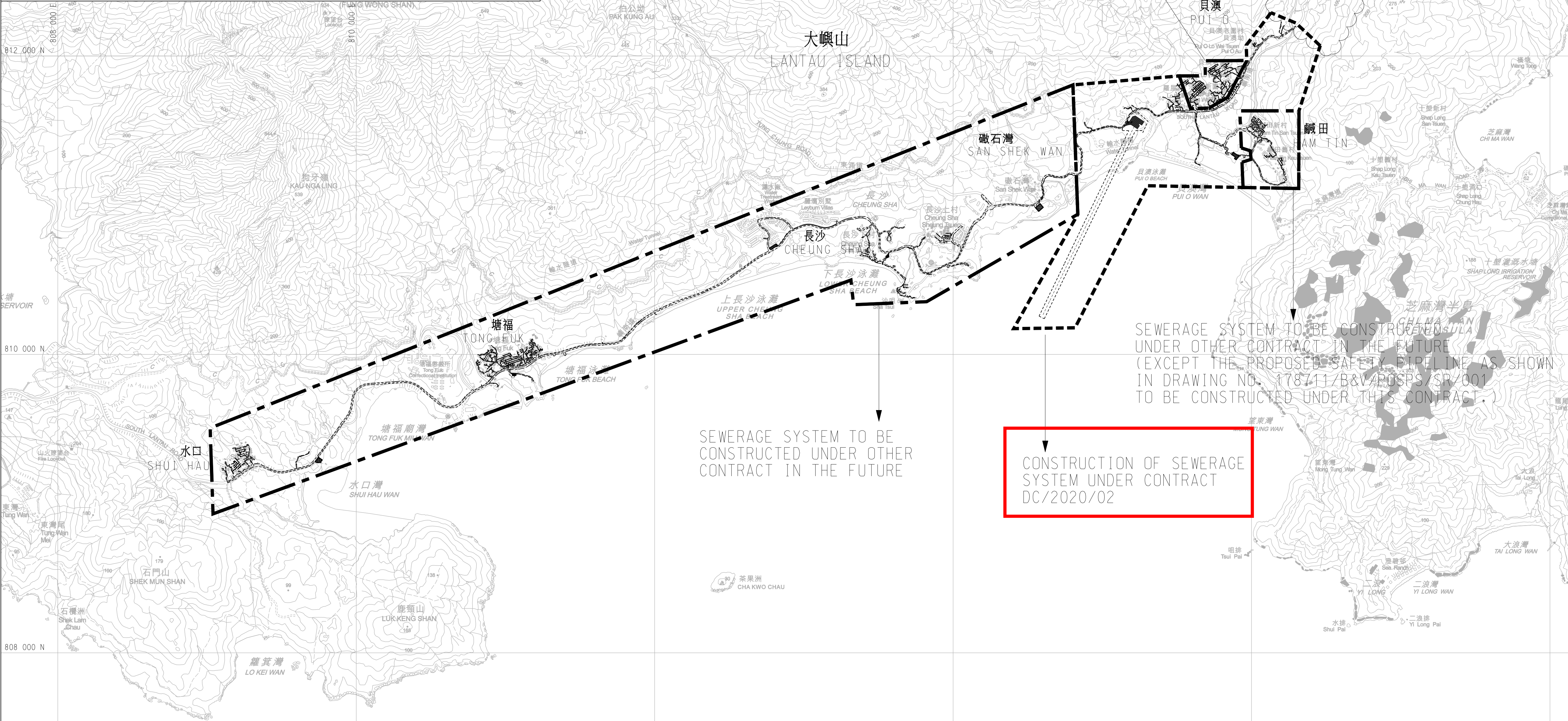


Figure 1.3

Master Layout Plan



SITE PLAN
1:100000



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D	11/20	TENDER ADDENDUM NO.6	BL
C	11/20	TENDER ADDENDUM NO.5	BL
B	11/20	TENDER ADDENDUM NO.4	BL
A	09/20	TENDER ADDENDUM NO.2	TFL
Revision	Date	Description	Initial
	Designed	Checked	Drawn
Initial	TFL	BL	SZ
Date	04/20	04/20	04/20
Approved			

Contract no.
DC/2020/02

Contract title
CONSTRUCTION OF SAN SHEK WAN
SEWAGE TREATMENT WORKS,
ASSOCIATED SUBMARINE OUTFALL
AND PUI O SEWERAGE WORKS

Drawing title
SOUTH LANTAU SEWERAGE
WORKS – MASTER LAYOUT PLAN

Drawing no. 178711/B&V/GN/001	Revision D
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Scale
1 : 15000

香港特別行政區政府渠務署
THE GOVERNMENT OF THE
HONG KONG
SPECIAL ADMINISTRATIVE REGION
DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司



Lam Environmental Services Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment
Works, Associated Submarine Outfall and Pui O
Sewerage Works - ET Services (2021-2022)
Baseline Monitoring Report

Appendix A

Baseline Monitoring Schedule for Noise and Water Quality Monitoring

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works
Environmental Team Services (2021 - 2022)

Baseline Noise Monitoring Schedule

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28-Feb	1-Mar	2-Mar NM <i>Batch A</i>	3-Mar NM <i>Batch A</i>	4-Mar NM <i>Batch A</i>	5-Mar NM <i>Batch A</i>	6-Mar NM <i>Batch A</i>
7-Mar NM <i>Batch A</i>	8-Mar NM <i>Batch A</i>	9-Mar NM <i>Batch A</i>	10-Mar NM <i>Batch A</i>	11-Mar NM <i>Batch A</i>	12-Mar NM <i>Batch A</i>	13-Mar NM <i>Batch A</i>
14-Mar NM <i>Batch A</i>	15-Mar NM <i>Batch A</i>	16-Mar NM <i>Batch B</i>	17-Mar NM <i>Batch B</i>	18-Mar NM <i>Batch B</i>	19-Mar NM <i>Batch B</i>	20-Mar NM <i>Batch B</i>
21-Mar NM <i>Batch B</i>	22-Mar NM <i>Batch B</i>	23-Mar NM <i>Batch B</i>	24-Mar NM <i>Batch B</i>	25-Mar NM <i>Batch B</i>	26-Mar NM <i>Batch B</i>	27-Mar NM <i>Batch B</i>
28-Mar NM <i>Batch B</i>	29-Mar NM <i>Batch B</i>	30-Mar	31-Mar	1-Apr	2-Apr	3-Apr
4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr NM <i>Batch C</i>	10-Apr NM <i>Batch C</i>
11-Apr NM <i>Batch C</i>	12-Apr NM <i>Batch C</i>	13-Apr NM <i>Batch C</i>	14-Apr NM <i>Batch C</i>	15-Apr NM <i>Batch C</i>	16-Apr NM <i>Batch C</i>	17-Apr NM <i>Batch C</i>
18-Apr NM <i>Batch C</i>	19-Apr NM <i>Batch C</i>	20-Apr NM <i>Batch C</i>	21-Apr NM <i>Batch C</i>	22-Apr NM <i>Batch C</i>	23-Apr	24-Apr

Batches of Noise Monitoring Locations

Batch A

N01a Shui Hau Village
N01c Shui Hau Village
N03a Tong Fuk Village
N05a Residences at Cheung Fu Street
N08 Cheung Sha Ha Tsuen

Batch B

N10 Cheng Sha Sheung Tsuen
N11b San Shek Wan – Ming Garden
N12b Lo Uk Tsuen
N13 Pui O San Wai Tsuen
N15b Pui O Lo Wai Tsuen

Batch C

N07 Government Holiday Bungalows
N12a Lo Uk Tsuen
N14 South Lantau Community Centre
N16a Residences at Ham Tin
N16b Residences at Ham Tin
N17 Bui O Public School

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works
Environmental Team Services (2021 - 2022)

Baseline Water Quality Monitoring Schedule

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28-Feb	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar
			Mid-Flood 9:07 Mid-Ebb 15:13		Mid-Flood 10:17 Mid-Ebb 18:19	
7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar
		Mid-Ebb 10:15 Mid-Flood 14:54		Mid-Ebb 11:48 Mid-Flood 16:55		Mid-Ebb 12:52 Mid-Flood 18:23
14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar
	Mid-Flood 7:46 Mid-Ebb 13:42		Mid-Flood 8:28 Mid-Ebb 14:41		Mid-Flood 9:05 Mid-Ebb 16:26	
21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar
		Mid-Flood 8:14 Mid-Ebb 20:41		Mid-Ebb 10:31 Mid-Flood 15:17		Mid-Ebb 11:39 Mid-Flood 17:19
28-Mar	29-Mar	30-Mar	31-Mar	1-Apr	2-Apr	3-Apr
	Mid-Ebb 12:48 Mid-Flood 19:00					



Lam Environmental Services Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment
Works, Associated Submarine Outfall and Pui O
Sewerage Works - ET Services (2021-2022)
Baseline Monitoring Report

Appendix B

Calibration Certificates of Monitoring Equipment



CERTIFICATE OF CALIBRATION

Certificate No.: 20CA1119 02-01

Page: 1 of 2

Item tested

Description: Acoustical Calibrator (Class 1)
Manufacturer: Larson Davis
Type/Model No.: CAL200
Serial/Equipment No.: 13437
Adaptors used: -

Item submitted by

Customer: Lam Environmental Services Limited.
Address of Customer: -
Request No.: -
Date of receipt: 19-Nov-2020

Date of test: 20-Nov-2020

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	11-May-2021	SCL
Preamplifier	B&K 2673	2743150	03-Jun-2021	CEPREI
Measuring amplifier	B&K 2610	2346941	03-Jun-2021	CEPREI
Signal generator	DS 360	33873	19-May-2021	CEPREI
Digital multi-meter	34401A	US36087050	19-May-2021	CEPREI
Audio analyzer	8903B	GB41300350	18-May-2021	CEPREI
Universal counter	53132A	MY40003662	18-May-2021	CEPREI

Ambient conditions

Temperature: 22 ± 1 °C
Relative humidity: 55 ± 10 %
Air pressure: 1005 ± 5 hPa

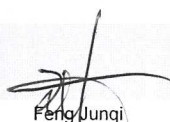
Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

Details of the performed measurements are presented on page 2 of this certificate.

Approved Signatory:


Feng Junqi

Date: 21-Nov-2020

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.

**CERTIFICATE OF CALIBRATION**

(Continuation Page)

Certificate No.:

20CA1119 02-01

Page: 2 of 2

1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

(Output level in dB re 20 μ Pa)			
Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	93.66	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz**STF = 0.013 dB**

Estimated expanded uncertainty

0.005 dB

3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz**Actual Frequency = 1000.1 Hz**

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz**TND = 0.5%**

Estimated expanded uncertainty

0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

Calibrated by:

Date:

Fung Chi Yip
20-Nov-2020

Checked by:

Date:

Feng Junqi
21-Nov-2020

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.



CERTIFICATE OF CALIBRATION

Certificate No.: 20CA0518 02 Page 1 of 2

Item tested

Description:	Sound Level Meter (Type 1)	Microphone	Preamplifier
Manufacturer:	Larson Davis	PCB	PCB
Type/Model No.:	LxT1	377B02	PRMLxT1L
Serial/Equipment No.:	0004797	163704	042622
Adaptors used:	-	-	-

Item submitted by

Customer Name: Lam Environmental Services Limited.
Address of Customer: -
Request No.: -
Date of receipt: 18-May-2020

Date of test: 23-May-2020

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	23-Aug-2020	CIGISMEC
Signal generator	DS 360	61227	24-Dec-2020	CEPREI

Ambient conditions

Temperature: 21 ± 1 °C
Relative humidity: 55 ± 10 %
Air pressure: 1000 ± 5 hPa

Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of $\pm 20\%$.
- 3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure response of the Sound Level Meter.

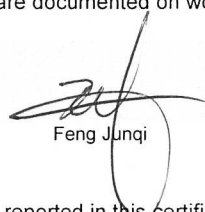
Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:


Feng Junqi

Date: 25-May-2020

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

**CERTIFICATE OF CALIBRATION**

(Continuation Page)

Certificate No.:

20CA0518 02

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of

2

1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	2.1
	C	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	2.2
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Frequency weightings			
	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertainty (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

Calibrated by:

Date:

Fung Chi Yip

23-May-2020

Checked by:

Date:

Shek Kwong Tat

25-May-2020

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

Calibration Certificate

Certificate Number 2020014198

Customer:

Lam Geotechnics Ltd

Model Number LxT SE

Serial Number 0006307

Test Results Pass

Initial Condition As Manufactured

Description Sound Expert LxT
Class 1 Sound Level Meter
Firmware Revision: 2.404

Procedure Number D0001.8384

Technician Ron Harris

Calibration Date 28 Dec 2020

Calibration Due

Temperature 23.25 °C ± 0.25 °C

Humidity 51.6 %RH ± 2.0 %RH

Static Pressure 85.71 kPa ± 0.13 kPa

Evaluation Method

Tested with:

Data reported in dB re 20 µPa.

Larson Davis PRMLxT1L. S/N 070008

PCB 377B02. S/N 325638

Larson Davis CAL200. S/N 9079

Larson Davis CAL291. S/N 0108

Compliance Standards

Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

IEC 60651:2001 Type 1

IEC 60804:2000 Type 1

IEC 61252:2002

IEC 61260:2001 Class 1

IEC 61672:2013 Class 1

ANSI S1.4-2014 Class 1

ANSI S1.4 (R2006) Type 1

ANSI S1.11 (R2009) Class 1

ANSI S1.25 (R2007)

ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2017.

Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert Lxt, I770.01 Rev J Supporting Firmware Version 2.301, 2015-04-30

LARSON DAVIS - A PCB PIEZOTRONICS DIV.

1681 West 820 North

Provo, UT 84601, United States

716-684-0001



Certificate Number 2020014198

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to 1/2" adaptor is used with the preamplifier.

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa

Periodic tests were performed in accordance with procedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

No Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 available.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 because (a) evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3 cover only a limited subset of the specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Standards Used

Description	Cal Date	Cal Due	Cal Standard
Larson Davis CAL291 Residual Intensity Calibrator	2020-09-18	2021-09-18	001250
Hart Scientific 2626-S Humidity/Temperature Sensor	2020-05-12	2021-05-12	006943
Larson Davis CAL200 Acoustic Calibrator	2020-07-21	2021-07-21	007027
Larson Davis Model 831	2020-03-02	2021-03-02	007182
PCB 377A13 1/2 inch Prepolarized Pressure Microphone	2020-03-05	2021-03-05	007185
SRS DS360 Ultra Low Distortion Generator	2020-04-14	2021-04-14	007635
Larson Davis 1/2" Preamplifier for Model 831 Type 1	2020-10-06	2021-10-06	PCB0004783

Acoustic Calibration

Measured according to IEC 61672-3:2013 10 and ANSI S1.4-2014 Part 3: 10

Measurement	Test Result [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
1000 Hz	114.01	113.80	114.20	0.14	Pass

Loaded Circuit Sensitivity

Measurement	Test Result [dB re 1 V / Pa]	Lower Limit [dB re 1 V / Pa]	Upper Limit [dB re 1 V / Pa]	Expanded Uncertainty [dB]	Result
1000 Hz	-27.74	-29.61	-26.24	0.14	Pass

-- End of measurement results--

Acoustic Signal Tests, C-weighting

Measured according to IEC 61672-3:2013 12 and ANSI S1.4-2014 Part 3: 12 using a comparison coupler with Unit Under Test (UUT) and reference SLM using slow time-weighted sound level for compliance to IEC 61672-1:2013 5.5; ANSI S1.4-2014 Part 1: 5.5

Frequency [Hz]	Test Result [dB]	Expected [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
125	-0.18	-0.20	-1.20	0.80	0.23	Pass
1000	0.16	0.00	-0.70	0.70	0.23	Pass
8000	-3.19	-3.00	-5.50	-1.50	0.32	Pass

-- End of measurement results--

Self-generated Noise

Measured according to IEC 61672-3:2013 11.1 and ANSI S1.4-2014 Part 3: 11.1

Measurement	Test Result [dB]
A-weighted	40.20

-- End of measurement results--

-- End of Report--

Signatory: Ron Harris

Calibration Certificate

Certificate Number 2021001439

Customer:

Lam Environmental Services Ltd

Model Number LxT SE
Serial Number 0006344
Test Results Pass
Initial Condition As Manufactured
Description Sound Expert LxT
Class 1 Sound Level Meter
Firmware Revision: 2.404

Procedure Number D0001.8384
Technician Ron Harris
Calibration Date 8 Feb 2021
Calibration Due 8 Feb 2022
Temperature 23.57 °C ± 0.25 °C
Humidity 50.8 %RH ± 2.0 %RH
Static Pressure 85.59 kPa ± 0.13 kPa

Evaluation Method **Tested with:** **Data reported in dB re 20 µPa.**

Larson Davis PRMLxT1L. S/N 069993
PCB 377B02. S/N 326380
Larson Davis CAL200. S/N 9079
Larson Davis CAL291. S/N 0108

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

IEC 60651:2001 Type 1	ANSI S1.4-2014 Class 1
IEC 60804:2000 Type 1	ANSI S1.4 (R2006) Type 1
IEC 61252:2002	ANSI S1.11 (R2009) Class 1
IEC 61260:2001 Class 1	ANSI S1.25 (R2007)
IEC 61672:2013 Class 1	ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2017.

Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert Lxt, I770.01 Rev J Supporting Firmware Version 2.301, 2015-04-30

LARSON DAVIS - A PCB PIEZOTRONICS DIV.
1681 West 820 North
Provo, UT 84601, United States
716-684-0001



Certificate Number 2021001439

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to 1/2" adaptor is used with the preamplifier.

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa

Periodic tests were performed in accordance with procedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

No Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 available.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 because (a) evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3 cover only a limited subset of the specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Standards Used

Description	Cal Date	Cal Due	Cal Standard
Larson Davis CAL291 Residual Intensity Calibrator	2020-09-18	2021-09-18	001250
Hart Scientific 2626-S Humidity/Temperature Sensor	2020-05-12	2021-05-12	006943
Larson Davis CAL200 Acoustic Calibrator	2020-07-21	2021-07-21	007027
Larson Davis Model 831	2020-03-02	2021-03-02	007182
PCB 377A13 1/2 inch Prepolarized Pressure Microphone	2020-03-05	2021-03-05	007185
SRS DS360 Ultra Low Distortion Generator	2020-04-14	2021-04-14	007635
Larson Davis 1/2" Preamplifier for Model 831 Type 1	2020-10-06	2021-10-06	PCB0004783

Acoustic Calibration

Measured according to IEC 61672-3:2013 10 and ANSI S1.4-2014 Part 3: 10

Measurement	Test Result [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
1000 Hz	114.01	113.80	114.20	0.14	Pass

Loaded Circuit Sensitivity

Measurement	Test Result [dB re 1 V / Pa]	Lower Limit [dB re 1 V / Pa]	Upper Limit [dB re 1 V / Pa]	Expanded Uncertainty [dB]	Result
1000 Hz	-27.73	-29.61	-26.24	0.14	Pass

-- End of measurement results--

Acoustic Signal Tests, C-weighting

Measured according to IEC 61672-3:2013 12 and ANSI S1.4-2014 Part 3: 12 using a comparison coupler with Unit Under Test (UUT) and reference SLM using slow time-weighted sound level for compliance to IEC 61672-1:2013 5.5; ANSI S1.4-2014 Part 1: 5.5

Frequency [Hz]	Test Result [dB]	Expected [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
125	-0.19	-0.20	-1.20	0.80	0.23	Pass
1000	0.20	0.00	-0.70	0.70	0.23	Pass
8000	-2.70	-3.00	-5.50	-1.50	0.32	Pass

-- End of measurement results--

Self-generated Noise

Measured according to IEC 61672-3:2013 11.1 and ANSI S1.4-2014 Part 3: 11.1

Measurement	Test Result [dB]
A-weighted	40.54

-- End of measurement results--

-- End of Report--

Signatory: Ron Harris

Calibration Certificate

Certificate Number 2021001441

Customer:

Lam Environmental Services Ltd

Model Number LxT SE
Serial Number 0006345
Test Results Pass
Initial Condition As Manufactured
Description Sound Expert LxT
Class 1 Sound Level Meter
Firmware Revision: 2.404

Procedure Number D0001.8384
Technician Ron Harris
Calibration Date 8 Feb 2021
Calibration Due 8 Feb 2022
Temperature 23.56 °C ± 0.25 °C
Humidity 54.3 %RH ± 2.0 %RH
Static Pressure 85.6 kPa ± 0.13 kPa

Evaluation Method **Tested with:** **Data reported in dB re 20 µPa.**

Larson Davis PRMLxT1L. S/N 069994
PCB 377B02. S/N 326416
Larson Davis CAL200. S/N 9079
Larson Davis CAL291. S/N 0108

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

IEC 60651:2001 Type 1	ANSI S1.4-2014 Class 1
IEC 60804:2000 Type 1	ANSI S1.4 (R2006) Type 1
IEC 61252:2002	ANSI S1.11 (R2009) Class 1
IEC 61260:2001 Class 1	ANSI S1.25 (R2007)
IEC 61672:2013 Class 1	ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2017.

Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert Lxt, I770.01 Rev J Supporting Firmware Version 2.301, 2015-04-30

LARSON DAVIS - A PCB PIEZOTRONICS DIV.
1681 West 820 North
Provo, UT 84601, United States
716-684-0001



Certificate Number 2021001441

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to 1/2" adaptor is used with the preamplifier.

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 μ Pa

Periodic tests were performed in accordance with procedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

No Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 available.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 because (a) evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3 cover only a limited subset of the specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Standards Used

Description	Cal Date	Cal Due	Cal Standard
Larson Davis CAL291 Residual Intensity Calibrator	2020-09-18	2021-09-18	001250
Hart Scientific 2626-S Humidity/Temperature Sensor	2020-05-12	2021-05-12	006943
Larson Davis CAL200 Acoustic Calibrator	2020-07-21	2021-07-21	007027
Larson Davis Model 831	2020-03-02	2021-03-02	007182
PCB 377A13 1/2 inch Prepolarized Pressure Microphone	2020-03-05	2021-03-05	007185
SRS DS360 Ultra Low Distortion Generator	2020-04-14	2021-04-14	007635
Larson Davis 1/2" Preamplifier for Model 831 Type 1	2020-10-06	2021-10-06	PCB0004783

Acoustic Calibration

Measured according to IEC 61672-3:2013 10 and ANSI S1.4-2014 Part 3: 10

Measurement	Test Result [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
1000 Hz	114.01	113.80	114.20	0.14	Pass

Loaded Circuit Sensitivity

Measurement	Test Result [dB re 1 V / Pa]	Lower Limit [dB re 1 V / Pa]	Upper Limit [dB re 1 V / Pa]	Expanded Uncertainty [dB]	Result
1000 Hz	-28.43	-29.61	-26.24	0.14	Pass

-- End of measurement results--

Acoustic Signal Tests, C-weighting

Measured according to IEC 61672-3:2013 12 and ANSI S1.4-2014 Part 3: 12 using a comparison coupler with Unit Under Test (UUT) and reference SLM using slow time-weighted sound level for compliance to IEC 61672-1:2013 5.5; ANSI S1.4-2014 Part 1: 5.5

Frequency [Hz]	Test Result [dB]	Expected [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
125	-0.20	-0.20	-1.20	0.80	0.23	Pass
1000	0.18	0.00	-0.70	0.70	0.23	Pass
8000	-2.64	-3.00	-5.50	-1.50	0.32	Pass

-- End of measurement results--

Self-generated Noise

Measured according to IEC 61672-3:2013 11.1 and ANSI S1.4-2014 Part 3: 11.1

Measurement	Test Result [dB]
A-weighted	40.36

-- End of measurement results--

-- End of Report--

Signatory: Ron Harris

Calibration Certificate

Certificate Number 2021001443

Customer:

Lam Environmental Services Ltd

Model Number LxT SE
Serial Number 0006346
Test Results Pass
Initial Condition As Manufactured
Description Sound Expert LxT
Class 1 Sound Level Meter
Firmware Revision: 2.404

Procedure Number D0001.8384
Technician Ron Harris
Calibration Date 8 Feb 2021
Calibration Due 8 Feb 2022
Temperature 23.56 °C ± 0.25 °C
Humidity 50.9 %RH ± 2.0 %RH
Static Pressure 85.61 kPa ± 0.13 kPa

Evaluation Method **Tested with:** **Data reported in dB re 20 µPa.**

Larson Davis PRMLxT1L. S/N 069995
PCB 377B02. S/N 326425
Larson Davis CAL200. S/N 9079
Larson Davis CAL291. S/N 0108

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

IEC 60651:2001 Type 1	ANSI S1.4-2014 Class 1
IEC 60804:2000 Type 1	ANSI S1.4 (R2006) Type 1
IEC 61252:2002	ANSI S1.11 (R2009) Class 1
IEC 61260:2001 Class 1	ANSI S1.25 (R2007)
IEC 61672:2013 Class 1	ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2017.

Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert Lxt, I770.01 Rev J Supporting Firmware Version 2.301, 2015-04-30

LARSON DAVIS - A PCB PIEZOTRONICS DIV.
1681 West 820 North
Provo, UT 84601, United States
716-684-0001



Certificate Number 2021001443

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to 1/2" adaptor is used with the preamplifier.

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 μ Pa

Periodic tests were performed in accordance with procedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

No Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 available.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 because (a) evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3 cover only a limited subset of the specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Standards Used

Description	Cal Date	Cal Due	Cal Standard
Larson Davis CAL291 Residual Intensity Calibrator	2020-09-18	2021-09-18	001250
Hart Scientific 2626-S Humidity/Temperature Sensor	2020-05-12	2021-05-12	006943
Larson Davis CAL200 Acoustic Calibrator	2020-07-21	2021-07-21	007027
Larson Davis Model 831	2020-03-02	2021-03-02	007182
PCB 377A13 1/2 inch Prepolarized Pressure Microphone	2020-03-05	2021-03-05	007185
SRS DS360 Ultra Low Distortion Generator	2020-04-14	2021-04-14	007635
Larson Davis 1/2" Preamplifier for Model 831 Type 1	2020-10-06	2021-10-06	PCB0004783

Acoustic Calibration

Measured according to IEC 61672-3:2013 10 and ANSI S1.4-2014 Part 3: 10

Measurement	Test Result [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
1000 Hz	114.00	113.80	114.20	0.14	Pass

Loaded Circuit Sensitivity

Measurement	Test Result [dB re 1 V / Pa]	Lower Limit [dB re 1 V / Pa]	Upper Limit [dB re 1 V / Pa]	Expanded Uncertainty [dB]	Result
1000 Hz	-28.17	-29.61	-26.24	0.14	Pass

-- End of measurement results--

Acoustic Signal Tests, C-weighting

Measured according to IEC 61672-3:2013 12 and ANSI S1.4-2014 Part 3: 12 using a comparison coupler with Unit Under Test (UUT) and reference SLM using slow time-weighted sound level for compliance to IEC 61672-1:2013 5.5; ANSI S1.4-2014 Part 1: 5.5

Frequency [Hz]	Test Result [dB]	Expected [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
125	-0.18	-0.20	-1.20	0.80	0.23	Pass
1000	0.13	0.00	-0.70	0.70	0.23	Pass
8000	-2.84	-3.00	-5.50	-1.50	0.32	Pass

-- End of measurement results--

Self-generated Noise

Measured according to IEC 61672-3:2013 11.1 and ANSI S1.4-2014 Part 3: 11.1

Measurement	Test Result [dB]
A-weighted	40.19

-- End of measurement results--

-- End of Report--

Signatory: Ron Harris

Calibration Certificate

Certificate Number 2021001444

Customer:

Lam Environmental Services Ltd

Model Number LxT SE
Serial Number 0006357
Test Results Pass
Initial Condition As Manufactured
Description Sound Expert LxT
Class 1 Sound Level Meter
Firmware Revision: 2.404

Procedure Number D0001.8384
Technician Ron Harris
Calibration Date 8 Feb 2021
Calibration Due 8 Feb 2022
Temperature 23.44 °C ± 0.25 °C
Humidity 52.7 %RH ± 2.0 %RH
Static Pressure 85.61 kPa ± 0.13 kPa

Evaluation Method **Tested with:** **Data reported in dB re 20 µPa.**

Larson Davis PRMLxT1L. S/N 070027
PCB 377B02. S/N 326695
Larson Davis CAL200. S/N 9079
Larson Davis CAL291. S/N 0108

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

IEC 60651:2001 Type 1	ANSI S1.4-2014 Class 1
IEC 60804:2000 Type 1	ANSI S1.4 (R2006) Type 1
IEC 61252:2002	ANSI S1.11 (R2009) Class 1
IEC 61260:2001 Class 1	ANSI S1.25 (R2007)
IEC 61672:2013 Class 1	ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2017.

Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert Lxt, I770.01 Rev J Supporting Firmware Version 2.301, 2015-04-30

LARSON DAVIS - A PCB PIEZOTRONICS DIV.
1681 West 820 North
Provo, UT 84601, United States
716-684-0001



Certificate Number 2021001444

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to 1/2" adaptor is used with the preamplifier.

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 μ Pa

Periodic tests were performed in accordance with procedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

No Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 available.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 because (a) evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3 cover only a limited subset of the specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Standards Used

Description	Cal Date	Cal Due	Cal Standard
Larson Davis CAL291 Residual Intensity Calibrator	2020-09-18	2021-09-18	001250
Hart Scientific 2626-S Humidity/Temperature Sensor	2020-05-12	2021-05-12	006943
Larson Davis CAL200 Acoustic Calibrator	2020-07-21	2021-07-21	007027
Larson Davis Model 831	2020-03-02	2021-03-02	007182
PCB 377A13 1/2 inch Prepolarized Pressure Microphone	2020-03-05	2021-03-05	007185
SRS DS360 Ultra Low Distortion Generator	2020-04-14	2021-04-14	007635
Larson Davis 1/2" Preamplifier for Model 831 Type 1	2020-10-06	2021-10-06	PCB0004783

Acoustic Calibration

Measured according to IEC 61672-3:2013 10 and ANSI S1.4-2014 Part 3: 10

Measurement	Test Result [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
1000 Hz	114.01	113.80	114.20	0.14	Pass

Loaded Circuit Sensitivity

Measurement	Test Result [dB re 1 V / Pa]	Lower Limit [dB re 1 V / Pa]	Upper Limit [dB re 1 V / Pa]	Expanded Uncertainty [dB]	Result
1000 Hz	-27.32	-29.61	-26.24	0.14	Pass

-- End of measurement results--

Acoustic Signal Tests, C-weighting

Measured according to IEC 61672-3:2013 12 and ANSI S1.4-2014 Part 3: 12 using a comparison coupler with Unit Under Test (UUT) and reference SLM using slow time-weighted sound level for compliance to IEC 61672-1:2013 5.5; ANSI S1.4-2014 Part 1: 5.5

Frequency [Hz]	Test Result [dB]	Expected [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
125	-0.20	-0.20	-1.20	0.80	0.23	Pass
1000	0.18	0.00	-0.70	0.70	0.23	Pass
8000	-2.58	-3.00	-5.50	-1.50	0.32	Pass

-- End of measurement results--

Self-generated Noise

Measured according to IEC 61672-3:2013 11.1 and ANSI S1.4-2014 Part 3: 11.1

Measurement	Test Result [dB]
A-weighted	40.41

-- End of measurement results--

-- End of Report--

Signatory: Ron Harris



REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied by customer:

CONTACT: MR. JAMES CHU JOB REFERENCE NO.: 22777053-A22B4803
CLIENT: LAM ENVIRONMENTAL SERVICES
DATE RECEIVED: 22/01/2021
DATE OF ISSUE: 29/01/2021
ADDRESS: 19/F, REMAX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG
PROJECT: ---

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

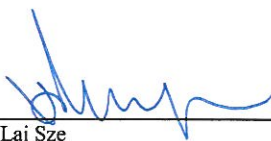
Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of FT Laboratories Ltd will be followed.

Scope of Test:	Turbidity
Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1807079
Equipment No.:	---
Date of Calibration:	29/01/2021

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Certified By:


Ho Lai Sze
Senior Chemist

Issue Date:

29/01/2021

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Form No.: HG022-002 Rev 0 20190101

Page 1 of 2



REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER: 22777053-A22B4803
DATE OF ISSUE: 29/01/2021
CLIENT: LAM ENVIRONMENTAL SERVICES

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1807079
Equipment No.:	---
Date of Calibration:	29/01/2021
Date of next Calibration:	01/05/2021
Lab I.D.:	H210012-03

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance
0	0.00	---
4	3.69	-7.8%
10	9.99	-0.1%
40	38.59	-3.5%
100	99.73	-0.3%
400	440	10.0%
1000	1000	0.0%
	Tolerance Limit ($\pm$)	10%

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: HENRY LAU
CLIENT: LAM ENVIRONMENTAL SERVICES LTD
ADDRESS: 19/F, REMEX CENTRE,
42 WONG CHUK HANG ROAD,
HONG KONG

WORK ORDER: HK2102477
SUB- BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 18-Jan- 2021
DATE OF ISSUE: 27-Jan- 2021

SPECIFIC COMMENTS

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client. The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

Equipment Type: Multifunctional Meter
Service Nature: Performance Check
Scope: Dissolved Oxygen, pH Value, Salinity and Temperature
Brand Name/ Model No.: YSI Professional Plus
Serial No./ Equipment No.: 17F100236
Date of Calibration: 21-January- 2021

GENERAL COMMENTS

This is the Final Report and supersedes any preliminary report with this batch number.

Mr Chan Siu Ming, Vico
Manager - Inorganic

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2102477
SUB- BATCH: 0
DATE OF ISSUE: 27- Jan- 2021
CLIENT: LAM ENVIRONMENTAL SERVICES LTD

Equipment Type: Multifunctional Meter
Brand Name/
Model No.: YSI Professional Plus
Serial No./ 17F100236
Equipment No.:
Date of Calibration: 21- January- 2021

Date of Next Calibration: 21- April- 2021

PARAMETERS:

Dissolved Oxygen Method Ref: APHA (21st edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.97	3.84	- 0.13
6.68	6.55	- 0.13
8.83	8.92	+ 0.09
	Tolerance Limit (mg/L)	± 0.20

pH Value Method Ref: APHA (21st edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	4.18	+ 0.18
7.0	6.91	- 0.09
10.0	9.49	- 0.51
	Tolerance Limit (pH unit)	± 0.20

Salinity Method Ref: APHA (21st edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	--
10	9.82	- 1.8
20	19.23	- 3.9
30	28.62	- 4.6
	Tolerance Limit (%)	± 10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Chan Siu Ming, Vico
Manager - Inorganic

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2102477
SUB- BATCH: 0
DATE OF ISSUE: 27-Jan- 2021
CLIENT: LAM ENVIRONMENTAL SERVICES LTD

Equipment Type: Multifunctional Meter
Brand Name/
Model No.: YSI Professional Plus
Serial No./
Equipment No.: 17F100236
Date of Calibration: 21-January- 2021

Date of Next Calibration: 21-April- 2021

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical
Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
10.0	10.3	+ 0.3
22.0	21.9	- 0.1
39.0	39.2	+ 0.2
	Tolerance Limit (°C)	± 2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Chan Siu Ming, Vico
Manager - Inorganic



REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: HENRY LAU
CLIENT: LAM ENVIRONMENTAL SERVICES LTD
ADDRESS: 19/F, REMEX CENTRE,
42 WONG CHUK HANG ROAD,
HONG KONG

WORK ORDER: HK2106609
SUB- BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 16- Feb- 2021
DATE OF ISSUE: 23- Feb- 2021

SPECIFIC COMMENTS

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client. The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source. The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards. The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards. The validity of equipment/ meter performance only applies to the result(s) stated in the report.

Equipment Type: Multifunctional Meter
Service Nature: Performance Check
Scope: pH Value
Brand Name/ Model No.: YSI Professional Plus
Serial No./ Equipment No.: 17F100236
Date of Calibration: 17- February- 2021

GENERAL COMMENTS

This is the Final Report and supersedes any preliminary report with this batch number.

Mr Chan Siu Ming, Vico
Manager - Inorganic

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2106609
SUB- BATCH: 0
DATE OF ISSUE: 23- Feb- 2021
CLIENT: LAM ENVIRONMENTAL SERVICES LTD

Equipment Type: Multifunctional Meter
Brand Name/
Model No.: YSI Professional Plus
Serial No.: 17F100236
Equipment No.:
Date of Calibration: 17- February- 2021

Date of Next Calibration: 17- May- 2021

PARAMETERS:

pH Value

Method Ref: APHA (21st edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	3.91	- 0.09
7.0	7.11	+ 0.11
10.0	9.87	- 0.13
	Tolerance Limit (pH unit)	± 0.20

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Chan Siu Ming, Vico
Manager - Inorganic

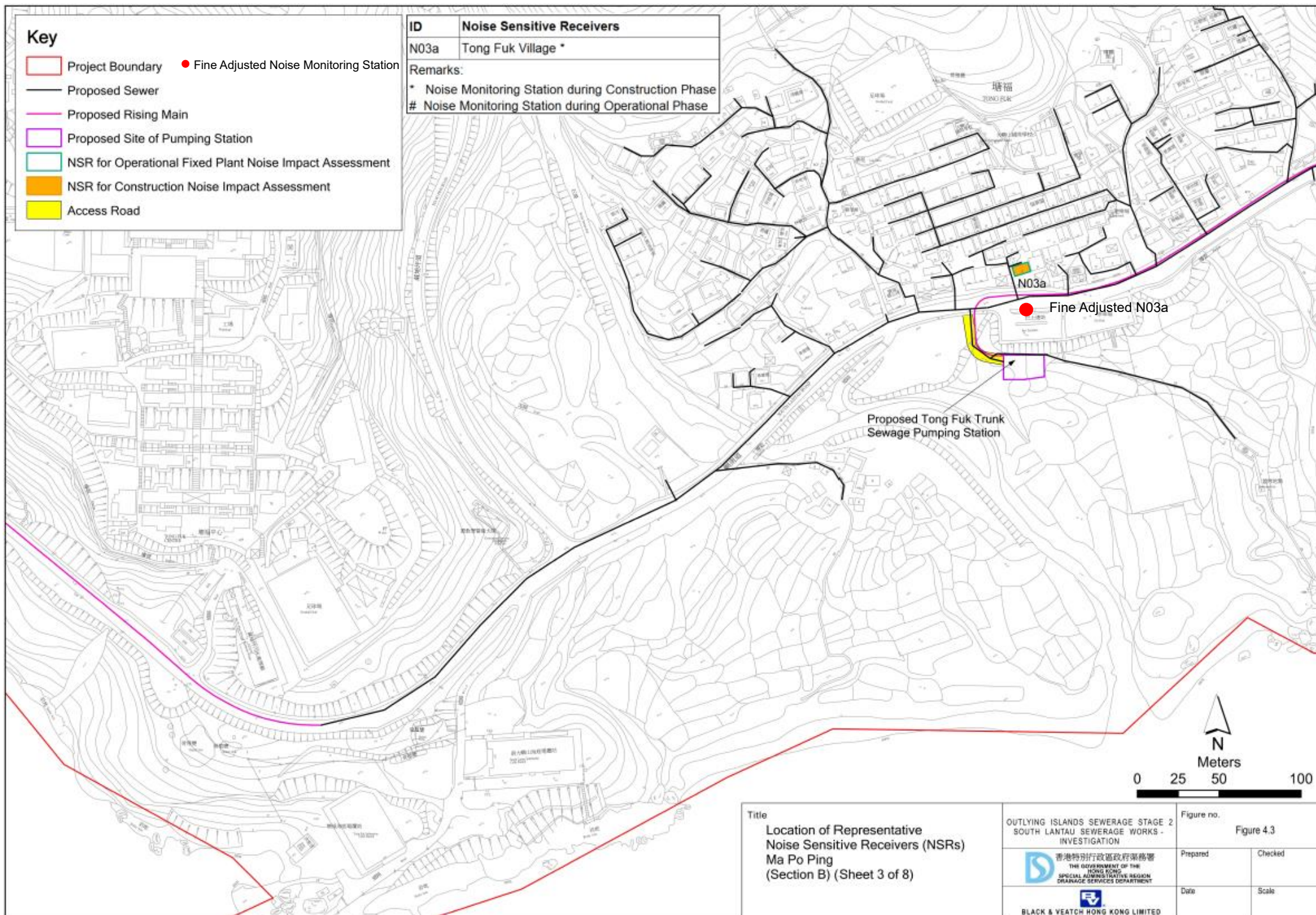


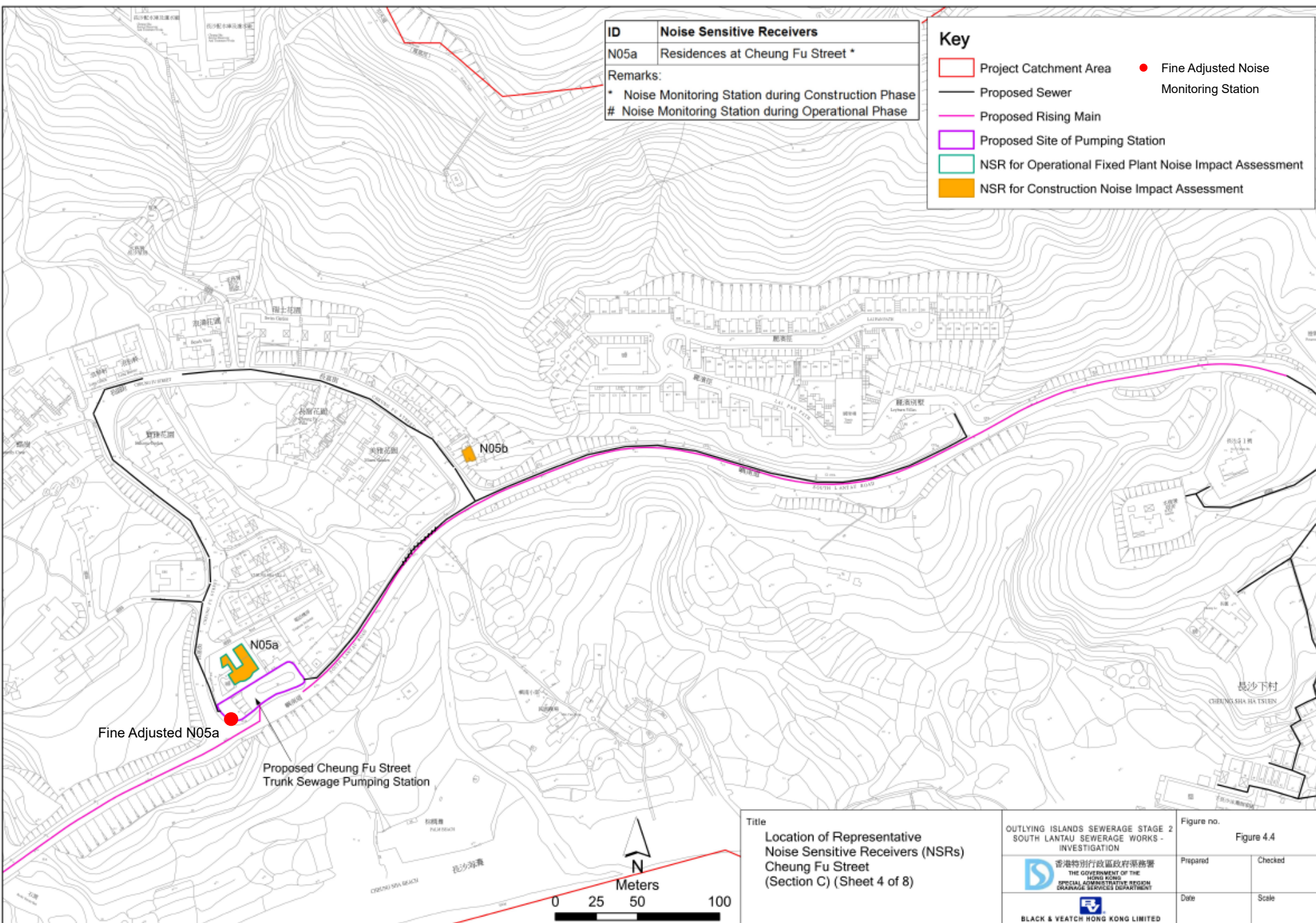
Lam Environmental Services Limited

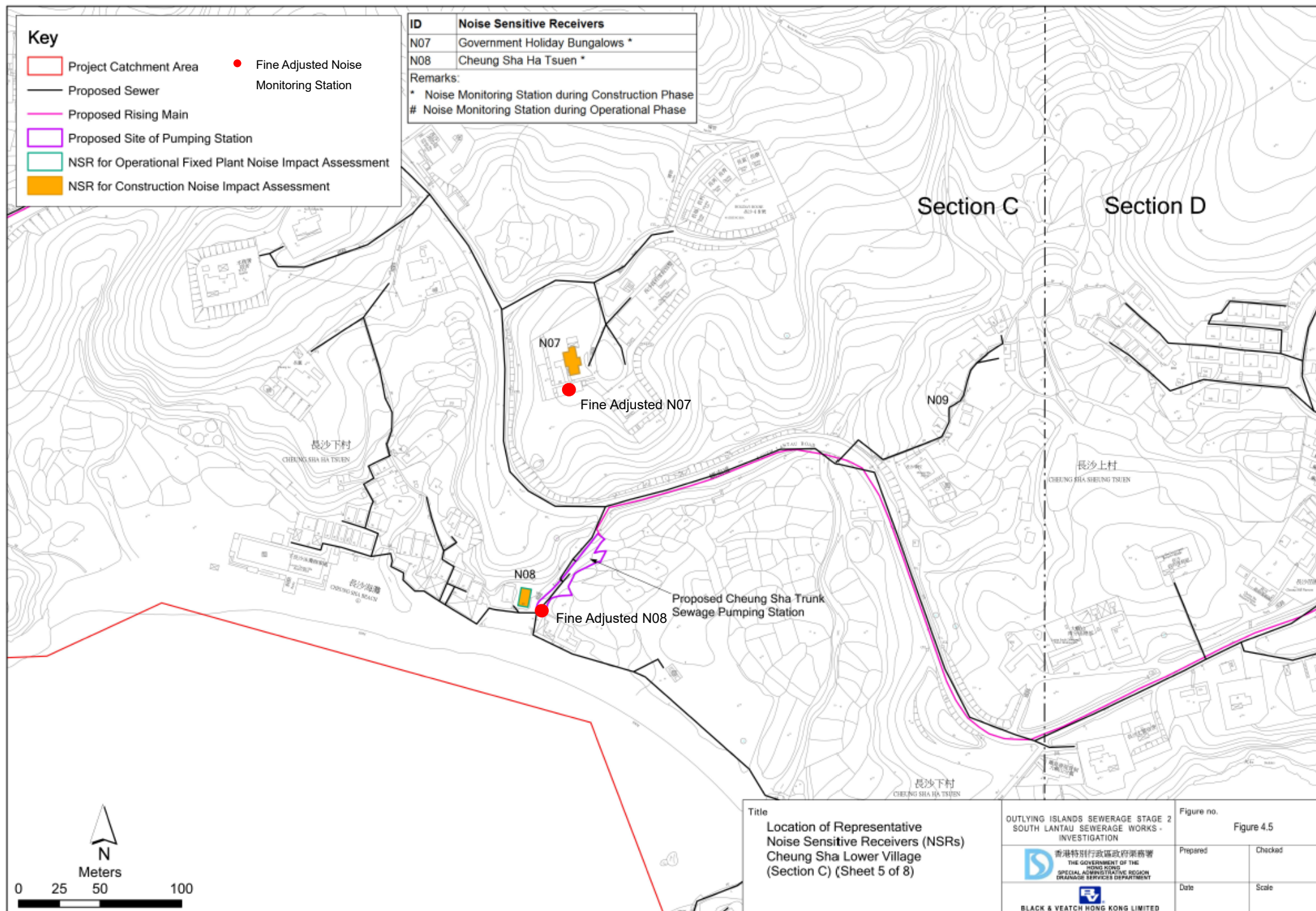
Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment
Works, Associated Submarine Outfall and Pui O
Sewerage Works - ET Services (2021-2022)
Baseline Monitoring Report

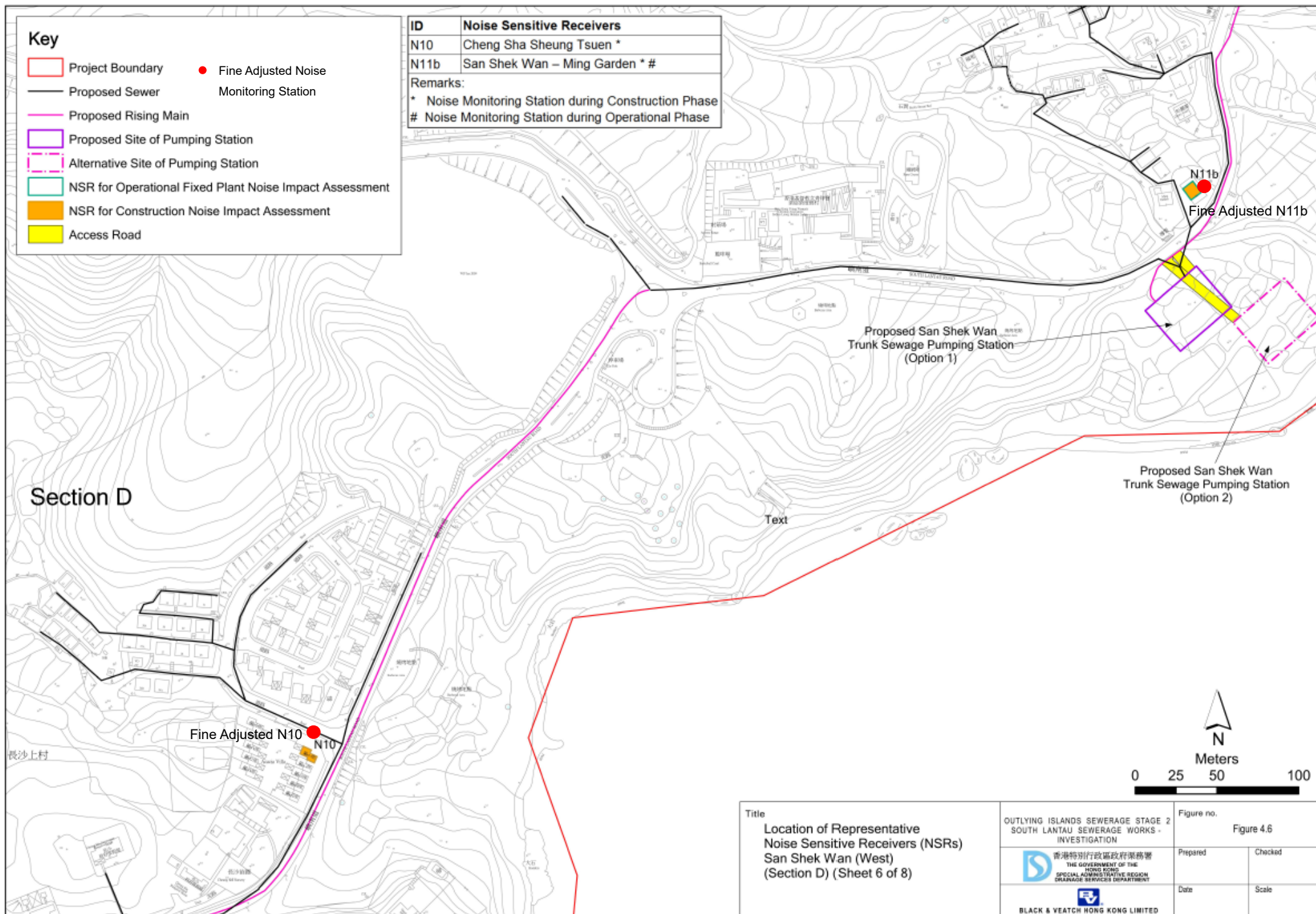
Appendix C

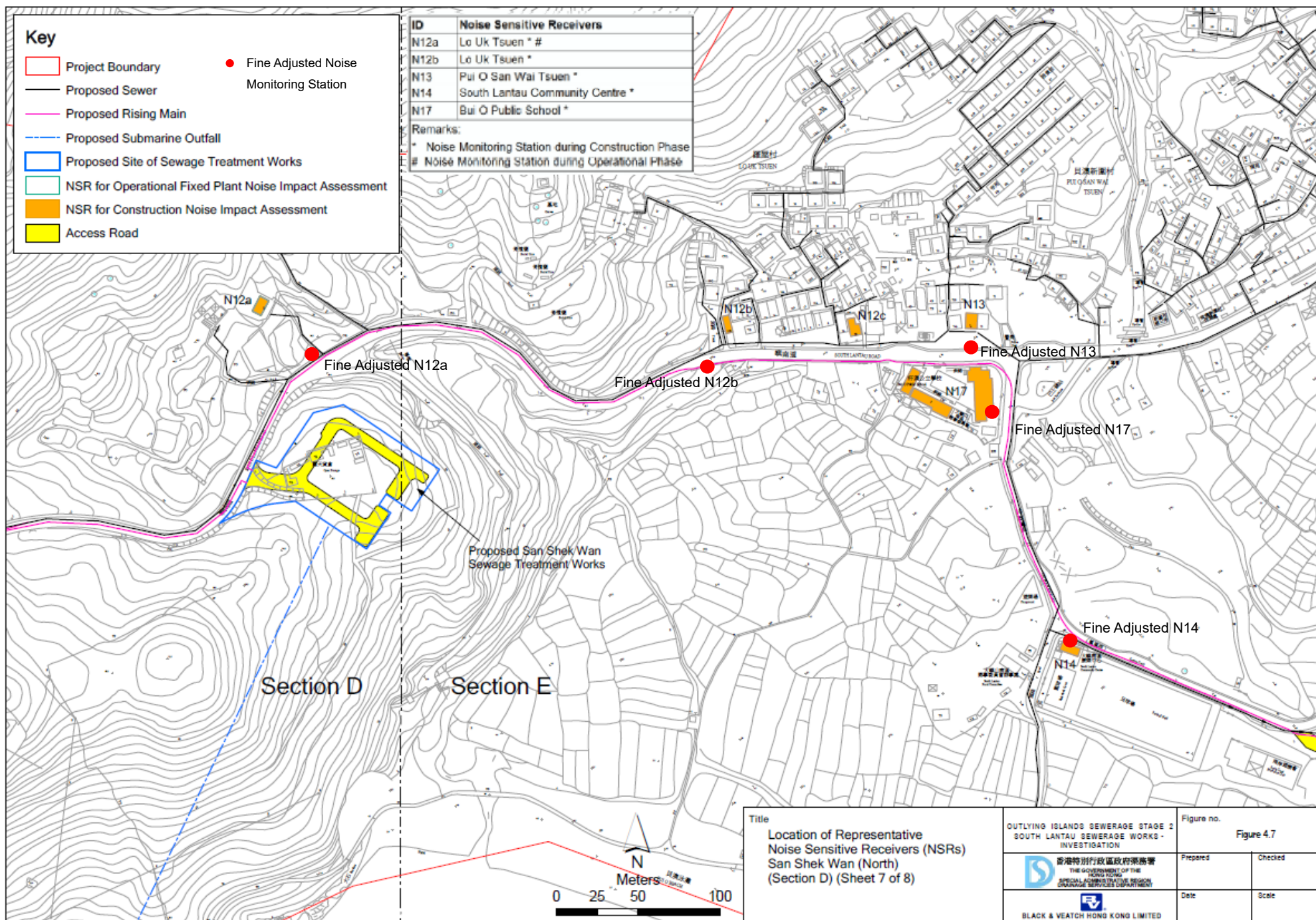
Location of Noise Monitoring Stations

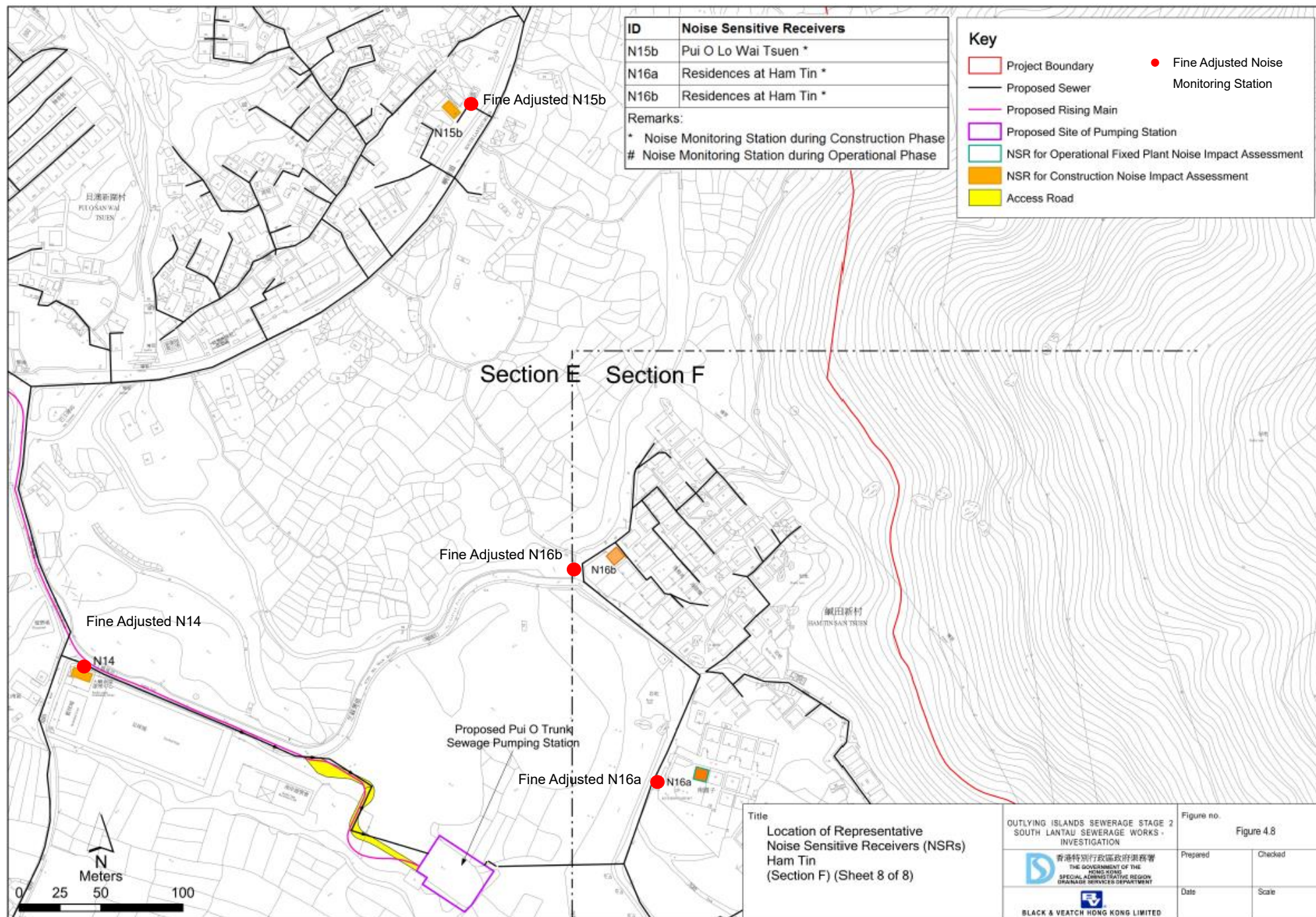














Lam Environmental Services Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment
Works, Associated Submarine Outfall and Pui O
Sewerage Works - ET Services (2021-2022)
Baseline Monitoring Report

Appendix D

Baseline Noise Monitoring Data



ID	Noise Sensitive Receivers	Time Period	Parameter	Average	Max	Min
N01a *	Shui Hau Village	From 0700-1900 hrs on normal weekdays	L _{eq, 30min}	75.5	79.4	74.7
N01c *	Shui Hau Village			62.0	71.1	58.4
N03a *	Tong Huk Village			74.9	78.0	73.2
N05a *	Residences at Cheung Fu Street			73.9	78.7	72.5
N07 *	Government Holiday Bungalows			58.3	71.9	54.6
N08 *	Cheung Sha Ha Tsuen			70.0	72.6	66.5
N10	Cheung Sha Sheung Tsuen			68.8	88.6	65.6
N11b *	San Shek Wan - Ming Garden			72.3	76.3	70.6
N12a *	Lo Uk Tsuen			73.3	75.0	71.3
N12b *	11B Lo UK Tsuen			76.8	86.1	75.2
N13 *	Pui O San Wai Tsuen			73.6	77.5	70.5
N14	South Lantau Community Centre			62.2	74.3	57.3
N15b	Pui O Lo Wai Tsuen			70.7	78.7	62.4
N16a *	Residences at Ham Tin			68.1	75.2	63.9
H16b *	Residences at Ham Tin			68.5	80.5	64.1
N17	Bui O Public School			62.3	66.4	58.7

Remark: * Due to free-field measurement, a correction factor of +3 dB (A) is applied.



Location: N01a Shui Hau Village

Model no. Larson Davis LxT

Ser. No. 6346

Time Period: From 07:00hr to 19:00hr

Model no. Cal 200

Ser. No. 13437

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₉₀ (5min)	L _{eq} (30min)
1	02-Mar-21	Fine	17:30	70.4	67.8	46.9	72.0
			17:35	71.9	72.9	46.7	
			17:40	71.0	73.5	42.5	
			17:45	71.8	74.5	42.2	
			17:50	70.6	72.4	43.4	
			17:55	74.6	77.6	45.9	
2	03-Mar-21	Cloudy	13:30	72.1	74.2	50.3	73.0
			13:35	69.4	69.5	50.9	
			13:40	74.7	74.5	51.4	
			13:45	66.2	65.9	50.8	
			13:50	75.4	73.0	51.5	
			13:55	74.2	73.0	46.0	
3	04-Mar-21	Cloudy	15:00	74.0	73.2	43.9	72.5
			15:05	69.9	71.2	42.9	
			15:10	72.3	73.6	45.6	
			15:15	71.6	71.9	49.5	
			15:20	75.1	77.1	52.5	
			15:25	68.6	70.9	49.1	
4	05-Mar-21	Cloudy	07:30	67.7	63.8	44.5	71.7
			07:35	75.7	73.6	47.2	
			07:40	68.9	68.1	43.0	
			07:45	70.2	70.6	44.0	
			07:50	68.1	70.3	42.5	
			07:55	73.1	71.5	43.8	
5	06-Mar-21	Cloudy	14:00	70.2	73.1	51.6	72.1
			14:05	71.3	71.7	49.1	
			14:10	74.5	77.4	47.2	
			14:15	72.5	76.1	47.3	
			14:20	73.2	75.8	50.5	
			14:25	68.1	68.1	47.0	
6	07-Mar-21	Cloudy	14:00	70.9	74.5	45.1	72.0
			14:05	72.1	75.4	46.1	
			14:10	75.8	78.9	45.9	
			14:15	71.1	72.9	39.9	
			14:20	69.6	72.0	42.2	
			14:25	68.8	68.3	40.6	
7	08-Mar-21	Cloudy	15:00	60.8	55.2	45.8	71.7
			15:05	68.8	69.4	48.2	
			15:10	75.2	73.6	52.1	
			15:15	69.6	71.7	49.2	
			15:20	74.4	71.2	48.5	
			15:25	70.1	71.6	48.4	
8	09-Mar-21	Cloudy	13:30	68.5	65.0	41.2	72.2
			13:35	70.8	69.9	43.7	
			13:40	76.5	71.4	43.4	
			13:45	71.7	72.4	43.6	
			13:50	65.8	64.1	43.0	
			13:55	72.5	73.3	43.3	
9	10-Mar-21	Fine	12:00	67.3	68.7	50.2	72.0
			12:05	69.5	71.3	52.7	
			12:10	69.4	69.8	50.9	
			12:15	77.5	76.1	50.8	
			12:20	68.7	71.3	50.3	
			12:25	68.7	71.8	51.3	
10	11-Mar-21	Fine	17:30	71.1	74.9	49.9	71.7
			17:35	75.0	71.2	46.0	
			17:40	70.5	70.6	45.0	
			17:45	70.3	73.2	45.5	
			17:50	69.5	72.4	39.8	
			17:55	71.3	75.8	44.7	
11	12-Mar-21	Sunny	14:00	68.1	69.3	48.8	72.2
			14:05	72.7	74.5	40.9	
			14:10	75.0	77.7	43.6	
			14:15	72.8	76.1	45.4	
			14:20	71.2	73.7	45.4	
			14:25	70.0	71.0	41.4	
12	13-Mar-21	Fine	08:30	77.6	74.6	48.5	73.2
			08:35	69.7	70.6	49.7	
			08:40	66.4	65.6	44.6	
			08:45	69.6	70.3	45.4	
			08:50	72.0	71.7	46.2	
			08:55	74.7	72.9	47.4	
13	14-Mar-21	Cloudy	17:00	73.5	76.0	47.8	72.4
			17:05	70.5	73.5	48.7	
			17:10	69.0	70.9	45.3	
			17:15	74.8	72.7	49.6	
			17:20	72.2	76.2	50.0	
			17:25	72.0	76.2	51.4	
14	15-Mar-21	Fine	11:30	80.9	83.8	51.1	76.4
			11:35	79.0	82.6	61.5	
			11:40	66.4	65.6	44.6	
			11:45	69.6	70.3	45.4	
			11:50	72.0	71.7	46.2	
			11:55	74.7	72.9	47.4	
			Average L _{eq}				

Remark: Noise data have been rounded off to 1 decimal place for presentation.



Location: N01c Shui Hau Village

Model no. Larson Davis LxT

Ser. No. 6357

Time Period: From 07:00hr to 19:00hr

Model no. Cal 200

Ser. No. 13437

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₉₀ (5min)	L _{eq} (30min)
1	02-Mar-21	Fine	13:00	49.2	52.1	41.4	56.8
			13:05	63.6	57.6	43.2	
			13:10	50.8	54.9	39.0	
			13:15	49.0	52.3	42.0	
			13:20	53.8	53.7	35.2	
			13:25	48.3	52.8	37.6	
2	03-Mar-21	Cloudy	09:00	54.7	58.1	48.1	57.5
			09:05	53.9	57.2	46.4	
			09:10	52.8	56.5	45.3	
			09:15	55.7	58.6	46.4	
			09:20	53.0	56.2	45.4	
			09:25	63.1	58.6	45.6	
3	04-Mar-21	Cloudy	10:00	51.1	54.9	40.0	55.8
			10:05	52.9	57.8	40.3	
			10:10	50.4	53.7	39.9	
			10:15	52.5	56.4	42.7	
			10:20	61.5	60.3	43.7	
			10:25	53.5	57.2	43.8	
4	05-Mar-21	Cloudy	07:30	54.3	58.2	44.1	55.4
			07:35	58.3	60.7	42.8	
			07:40	55.0	58.8	42.7	
			07:45	54.2	57.7	41.9	
			07:50	53.3	57.9	41.4	
			07:55	55.6	59.6	42.2	
5	06-Mar-21	Cloudy	17:00	50.1	54.8	34.8	55.6
			17:05	49.5	54.7	34.9	
			17:10	48.7	53.8	34.2	
			17:15	62.4	57.0	36.5	
			17:20	49.8	53.0	34.2	
			17:25	49.9	53.9	34.9	
6	07-Mar-21	Cloudy	15:00	48.9	53.5	37.9	55.7
			15:05	48.8	53.4	35.3	
			15:10	49.0	53.4	40.5	
			15:15	60.6	65.1	41.6	
			15:20	58.8	59.0	39.8	
			15:25	49.6	54.5	36.3	
7	08-Mar-21	Cloudy	11:30	52.8	56.3	44.5	58.5
			11:35	49.1	52.7	41.7	
			11:40	53.0	56.0	43.7	
			11:45	54.3	57.4	45.7	
			11:50	65.2	56.3	45.5	
			11:55	52.6	56.5	44.0	
8	09-Mar-21	Cloudy	16:30	50.0	55.0	35.9	68.1
			16:35	51.0	55.4	38.7	
			16:40	51.0	55.0	41.7	
			16:45	53.4	56.9	42.4	
			16:50	73.4	60.1	42.5	
			16:55	72.0	73.0	38.0	
9	10-Mar-21	Fine	08:30	51.9	55.5	43.0	66.2
			08:35	53.1	55.1	41.5	
			08:40	54.3	57.9	44.4	
			08:45	55.3	58.7	45.0	
			08:50	66.0	59.8	46.6	
			08:55	73.1	62.9	45.5	
10	11-Mar-21	Fine	15:30	59.6	63.8	41.8	61.0
			15:35	66.7	72.0	44.3	
			15:40	58.8	60.0	39.9	
			15:45	55.2	60.1	40.4	
			15:50	56.5	61.3	41.4	
			15:55	56.3	60.1	46.3	
11	12-Mar-21	Sunny	16:00	57.0	60.1	50.5	59.3
			16:05	57.2	60.2	48.6	
			16:10	64.7	67.5	51.1	
			16:15	57.9	61.2	50.1	
			16:20	55.0	58.9	43.8	
			16:25	53.0	56.6	42.7	
12	13-Mar-21	Fine	07:00	55.0	59.2	45.2	57.3
			07:05	54.4	58.2	43.8	
			07:10	55.8	59.2	43.2	
			07:15	59.3	63.0	46.2	
			07:20	56.0	59.9	45.6	
			07:25	60.0	64.4	47.0	
13	14-Mar-21	Cloudy	07:00	52.4	56.3	41.0	55.7
			07:05	54.6	58.7	43.6	
			07:10	55.2	58.7	42.9	
			07:15	58.3	61.0	41.3	
			07:20	54.0	57.7	41.0	
			07:25	56.9	60.2	42.7	
14	15-Mar-21	Fine	11:00	50.9	56.1	34.5	63.2
			11:05	53.3	55.9	37.9	
			11:10	68.1	70.6	43.9	
			11:15	67.1	72.6	30.0	
			11:20	54.2	56.9	43.5	
			11:25	54.5	57.2	42.4	
Average L _{eq}							59.0

Remark: Noise data have been rounded off to 1 decimal place for presentation.



Location: N03a Tong Fuk Village

Model no. Larson Davis LxT

Ser. No. 6345

Time Period: From 07:00hr to 19:00hr

Model no. Cal 200

Ser. No. 13437

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₉₀ (5min)	L _{eq} (30min)
1	02-Mar-21	Fine	09:30	72.2	74.4	51.6	73.8
			09:35	70.6	74.3	51.9	
			09:40	74.9	76.8	71.0	
			09:45	75.3	77.3	71.6	
			09:50	74.5	76.5	71.0	
			09:55	73.4	75.1	60.4	
2	03-Mar-21	Cloudy	07:30	72.8	75.5	55.9	72.0
			07:35	69.8	73.0	56.3	
			07:40	73.8	76.8	57.5	
			07:45	72.7	77.1	56.5	
			07:50	72.3	73.3	55.4	
			07:55	69.2	70.9	53.4	
3	04-Mar-21	Cloudy	14:30	73.1	75.9	47.7	72.1
			14:35	69.9	74.6	51.1	
			14:40	71.3	73.9	54.9	
			14:45	73.0	76.9	50.9	
			14:50	68.8	72.2	48.6	
			14:55	74.3	77.3	50.4	
4	05-Mar-21	Cloudy	13:30	68.2	70.0	50.4	71.0
			13:35	69.3	71.5	50.7	
			13:40	70.5	71.6	60.9	
			13:45	72.8	75.6	63.2	
			13:50	71.8	74.6	60.0	
			13:55	71.5	75.5	51.2	
5	06-Mar-21	Cloudy	13:30	71.1	74.7	56.7	71.5
			13:35	72.0	75.9	55.0	
			13:40	70.3	73.9	49.8	
			13:45	72.2	74.2	53.7	
			13:50	69.8	72.5	52.8	
			13:55	72.9	76.3	50.6	
6	07-Mar-21	Cloudy	12:00	67.9	71.2	50.9	70.7
			12:05	70.8	74.4	50.6	
			12:10	69.2	73.7	53.0	
			12:15	73.6	75.3	53.7	
			12:20	69.8	72.8	61.6	
			12:25	70.6	74.3	49.3	
7	08-Mar-21	Cloudy	07:30	72.0	74.7	53.9	70.7
			07:35	68.9	72.1	50.5	
			07:40	71.3	74.1	51.9	
			07:45	67.9	72.0	52.4	
			07:50	72.7	75.2	52.8	
			07:55	69.5	72.6	51.6	
8	09-Mar-21	Cloudy	09:30	70.7	73.0	66.4	72.3
			09:35	73.9	75.7	69.4	
			09:40	72.7	73.8	68.3	
			09:45	70.7	73.4	67.7	
			09:50	72.0	73.2	64.8	
			09:55	72.7	74.7	69.9	
9	10-Mar-21	Fine	09:00	67.9	71.2	53.4	70.2
			09:05	70.2	73.4	54.7	
			09:10	69.6	73.6	54.0	
			09:15	72.0	74.6	52.9	
			09:20	69.2	72.7	52.1	
			09:25	71.1	72.7	50.3	
10	11-Mar-21	Fine	13:30	69.7	70.5	59.2	70.9
			13:35	71.1	73.8	67.3	
			13:40	70.3	73.6	59.1	
			13:45	69.7	71.5	57.0	
			13:50	72.9	75.1	59.2	
			13:55	70.5	74.6	57.4	
11	12-Mar-21	Sunny	14:00	70.9	75.3	52.2	70.6
			14:05	71.5	75.7	52.5	
			14:10	72.0	74.6	50.7	
			14:15	70.2	74.5	49.8	
			14:20	68.1	72.0	50.6	
			14:25	69.8	73.4	51.0	
12	13-Mar-21	Fine	10:30	71.6	74.9	61.5	75.0
			10:35	67.2	70.4	58.4	
			10:40	69.4	73.0	61.6	
			10:45	73.4	74.6	60.7	
			10:50	78.6	83.8	70.0	
			10:55	78.4	81.5	69.5	
13	14-Mar-21	Cloudy	12:30	68.6	71.2	52.3	71.5
			12:35	70.6	74.2	53.0	
			12:40	70.4	74.6	52.8	
			12:45	72.8	73.6	55.5	
			12:50	74.7	75.6	55.4	
			12:55	68.0	70.9	50.6	
14	15-Mar-21	Fine	11:00	71.6	74.7	56.4	73.8
			11:05	79.0	78.5	55.8	
			11:10	71.2	72.6	56.6	
			11:15	68.1	71.5	52.4	
			11:20	71.3	72.0	58.3	
			11:25	72.0	74.4	57.3	
Average L _{eq}							71.9

Remark: Noise data have been rounded off to 1 decimal place for presentation.



Location: N05a Residences at Cheung Fu Street

Model no. Larson Davis LxT
Ser. No. 6344
Model no. Cal 200
Ser. No. 13437

Time Period: From 07:00hr to 19:00hr

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₉₀ (5min)	L _{eq} (30min)
1	02-Mar-21	Fine	07:30	71.2	75.7	55.1	70.0
			07:35	70.0	73.8	55.0	
			07:40	70.8	75.9	54.2	
			07:45	71.6	75.4	50.4	
			07:50	68.2	72.5	50.6	
			07:55	65.9	69.7	50.9	
2	03-Mar-21	Cloudy	09:00	68.7	74.0	50.2	75.7
			09:05	67.9	72.9	51.3	
			09:10	67.7	72.2	49.0	
			09:15	70.1	72.0	49.6	
			09:20	69.6	74.2	50.0	
			09:25	82.7	75.7	50.5	
3	04-Mar-21	Cloudy	10:00	70.2	75.0	47.7	73.7
			10:05	67.9	72.6	46.7	
			10:10	68.1	72.5	47.9	
			10:15	80.1	75.7	49.6	
			10:20	69.4	73.5	47.5	
			10:25	68.9	73.3	47.1	
4	05-Mar-21	Cloudy	07:30	69.7	74.8	47.2	69.5
			07:35	69.4	74.6	48.0	
			07:40	70.4	75.0	44.3	
			07:45	69.7	74.5	45.9	
			07:50	69.9	73.8	47.8	
			07:55	67.2	72.0	47.7	
5	06-Mar-21	Cloudy	14:00	71.1	75.9	50.6	70.1
			14:05	71.6	76.7	47.2	
			14:10	71.2	76.1	50.0	
			14:15	69.6	74.1	42.6	
			14:20	66.2	70.2	42.6	
			14:25	68.8	73.7	48.3	
6	07-Mar-21	Cloudy	12:30	69.0	73.3	46.4	70.3
			12:35	67.6	72.5	45.9	
			12:40	68.3	73.4	45.5	
			12:45	68.2	73.2	46.1	
			12:50	75.0	72.7	45.1	
			12:55	68.1	73.2	47.1	
7	08-Mar-21	Cloudy	17:30	70.8	74.9	47.7	70.1
			17:35	71.3	76.4	47.9	
			17:40	70.3	75.1	46.9	
			17:45	69.3	74.3	46.4	
			17:50	69.0	73.7	46.9	
			17:55	69.6	74.7	48.1	
8	09-Mar-21	Cloudy	14:00	72.0	77.2	47.3	70.3
			14:05	72.2	77.0	47.1	
			14:10	71.0	75.5	50.4	
			14:15	68.3	72.5	43.6	
			14:20	66.9	71.0	50.0	
			14:25	68.6	73.6	49.2	
9	10-Mar-21	Fine	17:30	69.9	73.4	51.2	70.3
			17:35	72.0	75.9	50.0	
			17:40	69.3	74.5	47.8	
			17:45	69.7	74.5	48.3	
			17:50	69.1	74.3	47.2	
			17:55	70.8	76.1	48.3	
10	11-Mar-21	Fine	07:30	71.9	76.6	52.3	70.2
			07:35	69.4	74.9	46.9	
			07:40	69.8	74.4	48.8	
			07:45	69.6	73.4	46.8	
			07:50	70.4	74.8	51.1	
			07:55	69.1	72.1	47.7	
11	12-Mar-21	Sunny	09:30	68.4	73.0	44.7	70.7
			09:35	69.5	74.3	48.4	
			09:40	70.3	74.5	45.1	
			09:45	71.8	75.3	50.4	
			09:50	71.4	76.2	50.9	
			09:55	72.0	76.6	51.7	
12	13-Mar-21	Fine	14:00	71.5	76.9	51.1	70.5
			14:05	70.9	75.9	49.5	
			14:10	70.7	75.2	51.6	
			14:15	69.7	73.9	49.7	
			14:20	70.3	75.1	48.8	
			14:25	69.3	74.6	49.1	
13	14-Mar-21	Cloudy	16:30	67.9	73.7	46.7	70.5
			16:35	72.6	75.8	55.1	
			16:40	70.5	75.2	47.4	
			16:45	70.9	75.4	48.2	
			16:50	70.1	75.2	48.3	
			16:55	69.5	74.3	47.5	
14	15-Mar-21	Fine	12:30	69.1	73.7	48.1	70.4
			12:35	67.9	73.7	46.7	
			12:40	72.6	75.8	55.1	
			12:45	70.5	75.2	47.4	
			12:50	70.9	75.4	48.2	
			12:55	70.1	75.2	48.3	
Average L _{eq}							70.9

Remark: Noise data have been rounded off to 1 decimal place for presentation.



Location: N07 Government Holiday Bungalows

Model no. Larson Davis LxT
Ser. No. 4797
Model no. Cal 200
Ser. No. 13437

Time Period: From 07:00hr to 19:00hr

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₉₀ (5min)	L _{eq} (30min)
1	09-Apr-21	Cloudy	15:00	49.0	52.0	42.0	55.4
			15:05	53.7	56.2	42.8	
			15:10	58.6	61.8	47.2	
			15:15	55.4	58.8	47.1	
			15:20	56.4	60.1	46.0	
			15:25	54.3	57.9	44.8	
2	10-Apr-21	Fine	11:00	50.3	52.8	45.4	52.2
			11:05	56.8	60.5	48.5	
			11:10	48.5	51.3	43.7	
			11:15	51.2	55.1	44.5	
			11:20	49.7	53.1	44.1	
			11:25	50.1	53.3	43.9	
3	11-Apr-21	Fine	11:30	49.3	52.1	45.1	52.7
			11:35	50.0	52.9	44.1	
			11:40	50.8	54.2	45.5	
			11:45	51.2	54.6	44.5	
			11:50	55.1	56.5	43.8	
			11:55	55.6	59.3	43.0	
4	12-Apr-21	Fine	17:30	51.0	53.5	45.9	53.8
			17:35	52.4	55.9	45.2	
			17:40	58.7	59.3	42.2	
			17:45	51.3	54.9	43.4	
			17:50	50.7	54.0	44.8	
			17:55	51.0	55.1	43.1	
5	13-Apr-21	Sunny	17:00	50.1	52.9	44.0	52.4
			17:05	53.8	56.2	48.7	
			17:10	52.4	54.5	48.1	
			17:15	52.7	54.8	49.4	
			17:20	52.6	54.8	49.4	
			17:25	52.1	53.4	49.6	
6	14-Apr-21	Cloudy	18:30	48.1	51.0	42.5	55.4
			18:35	62.4	64.7	43.2	
			18:40	47.2	50.6	42.6	
			18:45	48.3	50.9	44.7	
			18:50	49.1	52.7	44.0	
			18:55	47.8	50.7	44.2	
7	15-Apr-21	Cloudy	10:30	48.7	52.0	42.4	60.7
			10:35	50.2	52.8	45.4	
			10:40	49.7	52.7	44.2	
			10:45	68.2	64.1	45.3	
			10:50	49.3	52.0	44.0	
			10:55	49.2	53.0	43.7	
8	16-Apr-21	Cloudy	14:30	51.1	54.8	44.4	51.6
			14:35	52.9	57.2	43.7	
			14:40	53.1	57.4	42.7	
			14:45	50.7	54.1	44.2	
			14:50	51.2	54.1	46.2	
			14:55	49.4	52.6	43.7	
9	17-Apr-21	Cloudy	11:00	48.2	51.6	41.9	53.1
			11:05	51.2	54.9	43.4	
			11:10	49.5	52.5	43.6	
			11:15	49.1	52.0	43.6	
			11:20	53.0	53.0	44.4	
			11:25	58.2	64.4	45.5	
10	18-Apr-21	Cloudy	12:00	50.8	53.5	46.8	52.1
			12:05	51.1	53.7	46.9	
			12:10	50.8	53.3	47.3	
			12:15	49.8	52.4	46.2	
			12:20	55.4	57.5	48.1	
			12:25	52.0	53.9	47.4	
11	19-Apr-21	Cloudy	12:00	50.2	53.1	45.0	53.0
			12:05	50.5	53.0	43.6	
			12:10	58.1	63.8	44.2	
			12:15	51.0	54.1	44.4	
			12:20	49.1	52.3	44.5	
			12:25	50.8	54.4	44.5	
12	20-Apr-21	Cloudy	14:00	52.9	56.7	44.2	68.9
			14:05	50.8	54.4	44.1	
			14:10	70.3	73.3	63.2	
			14:15	71.8	75.4	45.0	
			14:20	49.5	52.4	43.2	
			14:25	73.1	78.5	58.5	
13	21-Apr-21	Sunny	07:30	55.3	58.5	44.5	54.5
			07:35	59.3	58.1	44.8	
			07:40	50.6	54.1	44.5	
			07:45	51.5	54.8	45.0	
			07:50	51.7	55.5	44.1	
			07:55	49.5	52.0	45.1	
14	22-Apr-21	Sunny	08:30	58.4	59.3	57.4	58.7
			08:35	58.3	59.7	56.3	
			08:40	58.4	59.3	56.6	
			08:45	58.9	59.6	58.3	
			08:50	59.2	60.1	58.3	
			08:55	58.9	59.9	58.1	
Average L _{eq}							55.3

Remark: Noise data have been rounded off to 1 decimal place for presentation.



Location: N08 Cheung Sha Ha Tsuen

Model no. Larson Davis LxT
Ser. No. 4797

Time Period: From 07:00hr to 19:00hr

Model no. Cal 200
Ser. No. 13437

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₉₀ (5min)	L _{eq} (30min)
1	02-Mar-21	Fine	11:00	65.5	68.5	54.3	69.2
			11:05	72.0	75.2	54.2	
			11:10	74.3	76.3	71.8	
			11:15	62.2	65.3	52.6	
			11:20	60.8	64.2	48.4	
			11:25	59.5	59.3	45.0	
2	03-Mar-21	Cloudy	08:30	70.0	73.4	56.9	67.9
			08:35	69.6	72.6	56.9	
			08:40	68.8	71.5	53.7	
			08:45	65.1	68.3	53.4	
			08:50	65.9	68.4	55.1	
			08:55	64.7	68.6	54.1	
3	04-Mar-21	Cloudy	09:00	54.9	58.0	48.9	66.2
			09:05	53.7	55.9	48.1	
			09:10	69.4	68.3	46.5	
			09:15	67.8	69.9	51.4	
			09:20	67.4	69.2	55.0	
			09:25	66.4	68.2	55.1	
4	05-Mar-21	Cloudy	15:30	57.5	60.9	48.8	66.5
			15:35	63.5	65.1	51.3	
			15:40	59.9	61.4	48.9	
			15:45	66.5	67.3	61.5	
			15:50	65.4	67.1	61.7	
			15:55	71.7	67.1	49.7	
5	06-Mar-21	Cloudy	08:30	57.2	58.2	47.0	64.1
			08:35	55.3	58.7	48.1	
			08:40	55.9	58.7	46.6	
			08:45	54.5	55.2	46.2	
			08:50	67.3	70.0	49.5	
			08:55	69.4	72.5	51.1	
6	07-Mar-21	Cloudy	08:30	62.5	64.0	43.2	64.1
			08:35	54.6	51.2	43.0	
			08:40	51.0	53.6	44.1	
			08:45	48.8	51.2	43.5	
			08:50	65.1	70.0	44.7	
			08:55	69.9	73.7	50.9	
7	08-Mar-21	Cloudy	14:00	55.4	58.5	49.8	64.1
			14:05	56.3	57.8	50.9	
			14:10	56.2	59.4	49.8	
			14:15	63.1	65.1	51.5	
			14:20	70.5	73.5	52.9	
			14:25	59.8	62.8	51.2	
8	09-Mar-21	Cloudy	09:00	69.9	73.2	51.7	68.9
			09:05	70.2	71.9	67.6	
			09:10	71.4	70.4	67.8	
			09:15	69.4	70.6	67.8	
			09:20	64.5	66.7	60.2	
			09:25	61.9	63.9	59.3	
9	10-Mar-21	Fine	16:30	66.2	69.9	52.5	63.5
			16:35	61.7	65.8	51.6	
			16:40	65.6	70.7	53.0	
			16:45	60.9	63.4	54.3	
			16:50	62.3	64.5	57.2	
			16:55	60.1	63.4	53.0	
10	11-Mar-21	Fine	10:30	74.7	75.8	73.2	69.2
			10:35	72.5	74.7	62.3	
			10:40	61.6	61.6	49.5	
			10:45	53.1	55.7	47.2	
			10:50	59.7	60.2	48.1	
			10:55	56.3	60.5	48.8	
11	12-Mar-21	Sunny	09:00	52.4	55.4	46.6	66.0
			09:05	54.7	57.1	47.6	
			09:10	68.4	71.6	48.2	
			09:15	68.8	70.8	51.9	
			09:20	69.4	72.2	51.9	
			09:25	56.6	58.3	46.8	
12	13-Mar-21	Fine	09:00	70.9	76.1	52.7	68.7
			09:05	74.2	79.0	65.3	
			09:10	65.8	69.1	55.4	
			09:15	59.8	62.4	49.6	
			09:20	56.7	60.7	48.7	
			09:25	59.2	64.0	49.2	
13	14-Mar-21	Cloudy	09:30	74.1	78.5	68.2	69.5
			09:35	70.2	70.0	68.2	
			09:40	70.5	70.4	61.5	
			09:45	64.0	66.5	51.9	
			09:50	59.7	62.0	48.4	
			09:55	64.0	66.1	61.2	
14	15-Mar-21	Fine	15:00	73.2	75.9	67.1	69.6
			15:05	73.1	75.6	57.7	
			15:10	70.5	73.1	63.1	
			15:15	59.7	62.7	54.9	
			15:20	57.0	59.6	51.7	
			15:25	58.9	59.3	49.2	
Average L _{eq}							67.0

Remark: Noise data have been rounded off to 1 decimal place for presentation.



Location: N10 Cheung Sha Sheung Tsuen

Model no. Larson Davis LxT
Ser. No. 6346
Model no. Cal 200
Ser. No. 13437

Time Period: From 07:00hr to 19:00hr

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₉₀ (5min)	L _{eq} (30min)
1	16-Mar-21	Sunny	08:00	65.3	70.4	46.1	67.0
			08:05	64.3	69.1	44.3	
			08:10	71.6	70.8	46.3	
			08:15	65.0	70.6	47.2	
			08:20	64.2	69.9	45.0	
			08:25	65.6	70.9	46.3	
2	17-Mar-21	Fine	18:00	66.3	69.8	43.2	66.2
			18:05	64.2	69.3	43.0	
			18:10	63.2	68.8	43.7	
			18:15	70.9	68.8	41.2	
			18:20	62.8	67.9	41.5	
			18:25	63.1	68.3	46.3	
3	18-Mar-21	Fine	14:30	67.1	72.0	47.2	67.8
			14:35	64.2	70.3	44.4	
			14:40	72.6	74.7	45.8	
			14:45	65.4	70.0	55.8	
			14:50	64.8	69.0	56.1	
			14:55	65.6	69.6	56.1	
4	19-Mar-21	Fine	18:30	66.3	71.1	39.6	66.5
			18:35	63.4	68.4	40.3	
			18:40	71.4	67.0	42.7	
			18:45	62.6	67.8	44.1	
			18:50	64.3	69.7	41.1	
			18:55	63.3	68.6	40.4	
5	20-Mar-21	Sunny	09:30	65.6	70.2	47.1	66.1
			09:35	65.1	69.8	46.6	
			09:40	62.0	67.2	46.2	
			09:45	67.0	70.0	47.0	
			09:50	67.8	72.6	48.2	
			09:55	66.9	72.0	47.0	
6	21-Mar-21	Cloudy	14:30	71.4	69.9	50.2	66.8
			14:35	64.2	69.6	46.6	
			14:40	64.9	69.8	46.7	
			14:45	62.7	68.7	48.6	
			14:50	66.5	70.4	47.7	
			14:55	64.8	69.4	49.5	
7	22-Mar-21	Cloudy	10:30	73.7	72.5	48.0	67.6
			10:35	61.6	66.3	43.7	
			10:40	64.6	69.8	47.5	
			10:45	61.6	67.2	44.2	
			10:50	64.6	69.0	44.4	
			10:55	64.3	69.5	46.6	
8	23-Mar-21	Fine	12:30	64.9	70.1	47.7	65.6
			12:35	65.4	70.1	47.3	
			12:40	68.2	71.7	48.9	
			12:45	64.2	68.5	43.9	
			12:50	63.7	68.8	41.6	
			12:55	65.4	71.0	44.2	
9	24-Mar-21	Cloudy	08:00	66.5	71.0	41.4	69.2
			08:05	62.3	66.1	41.3	
			08:10	62.1	66.3	40.4	
			08:15	64.0	68.7	40.5	
			08:20	75.6	71.3	46.2	
			08:25	64.3	69.2	44.1	
10	25-Mar-21	Fine	16:00	71.3	72.1	50.1	66.2
			16:05	63.0	67.6	47.1	
			16:10	63.8	68.2	49.6	
			16:15	64.2	69.4	47.7	
			16:20	64.6	69.5	48.1	
			16:25	62.3	67.0	47.5	
11	26-Mar-21	Cloudy	08:30	63.3	67.8	47.8	70.8
			08:35	63.0	68.6	46.6	
			08:40	77.4	71.2	50.3	
			08:45	66.6	70.3	47.6	
			08:50	66.2	70.6	49.3	
			08:55	65.3	70.0	50.1	
12	27-Mar-21	Cloudy	11:30	65.2	70.5	48.7	69.1
			11:35	67.2	72.0	44.2	
			11:40	65.7	70.3	47.9	
			11:45	65.8	71.4	44.4	
			11:50	66.5	71.8	43.9	
			11:55	74.5	74.6	43.7	
13	28-Mar-21	Fine	18:30	66.6	70.9	45.4	65.7
			18:35	64.8	70.3	41.0	
			18:40	66.1	71.0	43.5	
			18:45	65.4	70.6	37.8	
			18:50	66.3	71.4	41.4	
			18:55	64.8	70.5	39.5	
14	29-Mar-21	Fine	16:30	64.2	69.8	46.4	88.6
			16:35	65.6	70.2	44.5	
			16:40	64.3	69.6	43.8	
			16:45	81.5	81.2	54.4	
			16:50	95.6	95.0	63.8	
			16:55	86.9	85.7	63.3	
			Average L _{eq}				

Remark: Noise data have been rounded off to 1 decimal place for presentation.



Location: N11b San Shek Wan - Ming Garden

Model no. Larson Davis LxT

Ser. No. 6357

Time Period: From 07:00hr to 19:00hr

Model no. Cal 200

Ser. No. 13437

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₉₀ (5min)	L _{eq} (30min)
1	16-Mar-21	Sunny	10:00	66.5	71.6	44.1	73.3
			10:05	80.2	78.9	51.0	
			10:10	65.8	70.5	42.4	
			10:15	65.7	69.4	43.8	
			10:20	68.7	72.7	45.8	
			10:25	65.7	70.2	42.5	
2	17-Mar-21	Fine	12:30	77.9	72.2	41.5	71.0
			12:35	64.7	69.8	39.6	
			12:40	64.9	69.6	39.6	
			12:45	65.4	70.3	43.6	
			12:50	61.9	66.2	39.2	
			12:55	64.1	69.4	41.1	
3	18-Mar-21	Fine	08:30	68.0	72.0	43.7	67.9
			08:35	67.9	72.4	45.6	
			08:40	67.2	71.8	45.5	
			08:45	68.1	72.1	44.1	
			08:50	65.6	70.2	41.7	
			08:55	69.6	72.1	43.8	
4	19-Mar-21	Fine	08:30	67.7	71.7	46.8	68.0
			08:35	67.4	71.6	44.6	
			08:40	70.9	71.9	47.9	
			08:45	66.4	71.2	45.1	
			08:50	66.8	71.9	44.4	
			08:55	67.3	72.1	44.2	
5	20-Mar-21	Sunny	09:30	64.9	69.6	43.2	67.7
			09:35	67.3	71.4	43.7	
			09:40	68.7	73.1	44.0	
			09:45	67.1	71.2	43.4	
			09:50	65.5	70.3	43.6	
			09:55	70.3	72.9	44.4	
6	21-Mar-21	Cloudy	13:30	72.6	73.4	54.1	68.0
			13:35	66.7	71.2	51.4	
			13:40	65.6	70.3	49.1	
			13:45	66.1	70.1	51.6	
			13:50	64.8	67.9	49.6	
			13:55	66.1	70.5	52.2	
7	22-Mar-21	Cloudy	08:30	70.3	73.5	47.5	67.8
			08:35	65.7	70.8	45.8	
			08:40	67.0	71.7	48.1	
			08:45	67.0	71.6	51.7	
			08:50	66.9	71.6	45.6	
			08:55	68.4	72.6	44.2	
8	23-Mar-21	Fine	15:00	70.8	70.4	40.4	68.9
			15:05	72.7	72.0	41.5	
			15:10	65.2	69.1	42.2	
			15:15	67.1	71.2	47.7	
			15:20	65.8	69.4	42.7	
			15:25	65.2	69.8	45.5	
9	24-Mar-21	Cloudy	10:30	62.8	67.5	42.7	70.9
			10:35	71.3	71.6	45.5	
			10:40	66.2	71.3	45.4	
			10:45	74.3	71.4	44.6	
			10:50	73.6	70.9	44.6	
			10:55	67.2	71.2	45.0	
10	25-Mar-21	Fine	08:00	67.1	71.5	45.5	68.8
			08:05	68.9	73.2	45.0	
			08:10	68.4	73.3	44.7	
			08:15	70.2	74.6	48.0	
			08:20	69.2	71.9	44.0	
			08:25	68.3	73.0	44.1	
11	26-Mar-21	Cloudy	15:00	67.5	71.9	44.4	68.3
			15:05	64.4	69.6	42.6	
			15:10	63.8	66.8	42.7	
			15:15	73.4	72.3	45.8	
			15:20	67.0	72.3	44.7	
			15:25	65.3	69.9	46.0	
12	27-Mar-21	Cloudy	12:30	66.8	70.0	46.8	70.0
			12:35	66.6	70.6	46.3	
			12:40	67.7	72.3	46.2	
			12:45	70.5	70.4	44.1	
			12:50	73.9	73.4	44.0	
			12:55	69.4	72.1	41.6	
13	28-Mar-21	Fine	10:30	65.6	70.4	46.0	67.6
			10:35	65.0	69.5	44.1	
			10:40	66.8	71.0	43.5	
			10:45	66.3	71.3	43.5	
			10:50	65.5	70.9	44.4	
			10:55	71.7	71.9	48.2	
14	29-Mar-21	Fine	16:30	77.6	79.6	54.8	72.2
			16:35	69.2	73.9	61.7	
			16:40	72.1	76.0	56.6	
			16:45	65.9	70.3	49.5	
			16:50	70.0	74.1	50.7	
			16:55	66.7	69.5	42.0	
Average L _{eq}							69.3

Remark: Noise data have been rounded off to 1 decimal place for presentation.



Location: N12a Lo Uk Tsuen

Model no. Larson Davis LxT

Ser. No. 6346

Time Period: From 07:00hr to 19:00hr

Model no. Cal 200

Ser. No. 13437

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₉₀ (5min)	L _{eq} (30min)
1	09-Apr-21	Cloudy	16:00	64.2	68.6	49.6	70.1
			16:05	65.8	71.1	49.1	
			16:10	72.3	75.4	49.0	
			16:15	70.9	72.4	39.6	
			16:20	73.5	77.1	39.5	
			16:25	65.7	69.8	39.4	
2	10-Apr-21	Fine	09:30	69.1	73.0	45.8	70.8
			09:35	70.0	74.0	47.6	
			09:40	68.2	71.4	47.3	
			09:45	67.1	70.6	49.8	
			09:50	69.3	73.1	48.9	
			09:55	75.3	77.6	51.0	
3	11-Apr-21	Fine	13:30	73.5	73.0	46.7	69.3
			13:35	66.3	68.9	43.7	
			13:40	69.2	73.2	51.1	
			13:45	67.5	72.1	50.4	
			13:50	68.6	73.0	49.7	
			13:55	65.8	68.5	44.6	
4	12-Apr-21	Fine	10:00	68.4	71.5	51.4	70.0
			10:05	66.2	69.5	43.3	
			10:10	66.7	70.2	44.2	
			10:15	71.1	71.5	46.0	
			10:20	70.0	73.1	43.4	
			10:25	73.4	74.8	47.0	
5	13-Apr-21	Sunny	08:30	70.1	73.0	52.0	69.6
			08:35	69.1	73.9	51.0	
			08:40	66.8	70.5	43.2	
			08:45	69.4	73.4	45.4	
			08:50	69.6	73.9	45.0	
			08:55	71.1	74.8	47.3	
6	14-Apr-21	Cloudy	09:00	72.6	76.7	48.9	72.0
			09:05	73.2	76.9	46.0	
			09:10	70.3	73.4	43.2	
			09:15	72.1	74.2	44.6	
			09:20	72.1	74.9	45.9	
			09:25	71.3	75.1	43.9	
7	15-Apr-21	Cloudy	13:30	68.3	72.9	49.5	70.0
			13:35	72.9	74.9	47.3	
			13:40	68.9	73.1	46.9	
			13:45	68.5	73.1	47.3	
			13:50	68.7	72.0	44.2	
			13:55	70.7	73.9	48.5	
8	16-Apr-21	Cloudy	11:30	69.7	73.1	47.8	69.3
			11:35	65.5	69.4	40.4	
			11:40	72.2	72.5	46.8	
			11:45	67.7	71.7	43.5	
			11:50	62.3	64.5	40.0	
			11:55	71.2	72.9	43.1	
9	17-Apr-21	Cloudy	07:30	67.2	69.3	42.3	70.8
			07:35	72.1	75.1	46.5	
			07:40	68.8	71.4	45.5	
			07:45	66.4	66.3	43.1	
			07:50	69.4	73.7	43.2	
			07:55	74.8	74.6	45.1	
10	18-Apr-21	Cloudy	14:00	69.3	72.9	46.3	68.3
			14:05	67.0	71.0	42.3	
			14:10	65.9	69.8	44.5	
			14:15	67.4	71.4	42.3	
			14:20	68.1	71.9	45.6	
			14:25	70.4	74.1	47.1	
11	19-Apr-21	Cloudy	12:00	74.8	79.0	54.6	70.7
			12:05	67.9	72.2	47.6	
			12:10	69.2	72.7	45.5	
			12:15	65.7	67.8	41.8	
			12:20	67.9	72.4	49.6	
			12:25	72.0	75.6	55.9	
12	20-Apr-21	Cloudy	09:00	71.0	75.2	52.8	69.4
			09:05	70.4	73.6	48.7	
			09:10	67.7	70.9	44.7	
			09:15	70.6	73.8	47.7	
			09:20	66.4	70.2	46.4	
			09:25	68.2	71.4	45.5	
13	21-Apr-21	Sunny	10:30	75.4	77.6	47.2	71.9
			10:35	70.9	74.3	44.6	
			10:40	72.3	76.7	43.3	
			10:45	70.3	74.6	41.9	
			10:50	69.3	74.0	48.4	
			10:55	69.4	74.3	47.1	
14	22-Apr-21	Sunny	09:30	76.3	75.7	45.1	72.0
			09:35	68.8	72.5	46.5	
			09:40	68.3	71.4	46.6	
			09:45	71.1	74.5	49.6	
			09:50	71.7	75.0	45.3	
			09:55	70.4	74.4	44.1	
Average L _{eq}							70.3

Remark: Noise data have been rounded off to 1 decimal place for presentation.



Location: N12b Lo Uk Tsuen

Model no. Larson Davis LxT

Ser. No. 6345

Time Period: From 07:00hr to 19:00hr

Model no. Cal 200

Ser. No. 13437

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₉₀ (5min)	L _{eq} (30min)
1	16-Mar-21	Sunny	18:30	76.0	75.2	44.0	73.4
			18:35	65.3	67.9	41.1	
			18:40	77.3	74.2	42.6	
			18:45	70.5	72.7	42.8	
			18:50	72.4	72.0	44.0	
			18:55	67.0	71.2	43.5	
2	17-Mar-21	Fine	13:30	66.6	65.1	45.2	73.5
			13:35	72.1	73.0	44.0	
			13:40	75.8	73.9	47.5	
			13:45	76.4	71.7	42.4	
			13:50	72.2	74.8	47.3	
			13:55	71.8	71.1	44.7	
3	18-Mar-21	Fine	08:30	75.1	75.5	49.0	72.8
			08:35	71.0	74.1	48.9	
			08:40	70.4	74.8	49.4	
			08:45	76.1	75.8	49.1	
			08:50	69.4	69.1	47.5	
			08:55	69.1	72.6	48.3	
4	19-Mar-21	Fine	15:30	69.6	72.3	49.1	72.9
			15:35	71.4	73.7	48.9	
			15:40	77.0	74.1	49.5	
			15:45	68.7	71.9	48.2	
			15:50	70.3	72.6	48.1	
			15:55	74.0	72.7	49.4	
5	20-Mar-21	Sunny	10:30	72.7	74.1	50.5	73.5
			10:35	76.9	76.3	51.3	
			10:40	69.0	73.1	47.4	
			10:45	75.6	75.0	48.8	
			10:50	71.3	73.0	48.7	
			10:55	69.3	73.5	49.6	
6	21-Mar-21	Cloudy	13:30	77.4	75.9	49.2	72.3
			13:35	69.4	73.2	49.6	
			13:40	68.2	72.5	49.2	
			13:45	72.8	72.8	52.0	
			13:50	66.9	69.4	49.6	
			13:55	69.2	71.9	49.6	
7	22-Mar-21	Cloudy	07:00	71.1	74.5	46.7	72.9
			07:05	70.9	72.3	48.6	
			07:10	72.6	74.1	46.2	
			07:15	72.2	75.1	45.7	
			07:20	75.4	76.8	48.2	
			07:25	73.6	75.2	47.9	
8	23-Mar-21	Fine	07:00	70.1	73.4	46.7	72.8
			07:05	72.5	74.4	48.7	
			07:10	74.6	76.4	48.9	
			07:15	68.1	70.5	45.7	
			07:20	75.6	76.0	47.7	
			07:25	71.8	67.6	44.6	
9	24-Mar-21	Cloudy	09:00	69.5	73.7	52.9	73.8
			09:05	71.9	74.1	51.6	
			09:10	79.3	73.7	52.3	
			09:15	72.1	72.8	52.8	
			09:20	71.1	73.9	53.1	
			09:25	67.4	69.8	52.3	
10	25-Mar-21	Fine	08:00	73.5	74.4	51.1	73.3
			08:05	76.1	77.0	49.1	
			08:10	71.7	73.2	49.5	
			08:15	71.0	74.5	51.8	
			08:20	73.6	75.8	52.7	
			08:25	72.0	73.8	50.7	
11	26-Mar-21	Cloudy	07:00	69.5	71.7	46.3	74.1
			07:05	71.7	71.8	46.0	
			07:10	73.6	75.2	48.4	
			07:15	69.1	69.8	47.9	
			07:20	76.6	71.9	47.7	
			07:25	77.2	76.0	49.6	
12	27-Mar-21	Cloudy	13:30	72.2	74.5	47.7	72.3
			13:35	70.8	74.5	47.4	
			13:40	75.9	74.5	50.7	
			13:45	69.7	74.0	49.8	
			13:50	71.6	73.5	47.8	
			13:55	70.5	73.9	48.9	
13	28-Mar-21	Fine	11:00	71.4	73.6	49.9	72.2
			11:05	68.6	69.7	48.5	
			11:10	67.9	70.8	50.1	
			11:15	77.6	75.1	49.7	
			11:20	68.6	72.6	47.3	
			11:25	68.0	72.5	47.9	
14	29-Mar-21	Fine	17:00	67.4	68.6	56.9	83.1
			17:05	86.4	80.4	57.7	
			17:10	62.9	66.2	41.4	
			17:15	88.8	87.5	55.1	
			17:20	68.2	71.0	47.4	
			17:25	70.7	70.4	43.5	
Average L _{eq}							73.8

Remark: Noise data have been rounded off to 1 decimal place for presentation.



Location: N13 Pui O San Wai Tsuen

Model no. Larson Davis LxT
Ser. No. 4797

Time Period: From 07:00hr to 19:00hr

Model no. Cal 200
Ser. No. 13437

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₉₀ (5min)	L _{eq} (30min)
1	16-Mar-21	Sunny	18:30	75.5	73.6	51.4	71.0
			18:35	66.7	67.2	43.7	
			18:40	73.0	69.6	46.3	
			18:45	69.7	72.0	48.9	
			18:50	66.6	70.5	48.0	
			18:55	63.0	67.1	46.4	
2	17-Mar-21	Fine	13:30	61.3	65.8	49.9	74.0
			13:35	67.8	69.8	52.8	
			13:40	68.0	70.2	52.5	
			13:45	81.0	72.7	51.8	
			13:50	67.0	70.0	53.2	
			13:55	68.5	68.9	53.7	
3	18-Mar-21	Fine	08:00	70.4	71.8	54.4	68.9
			08:05	67.9	71.4	54.5	
			08:10	70.6	69.5	51.6	
			08:15	67.5	70.3	53.6	
			08:20	68.4	72.6	56.2	
			08:25	67.6	71.3	54.4	
4	19-Mar-21	Fine	17:30	64.8	68.5	50.3	70.3
			17:35	65.5	69.3	50.5	
			17:40	71.1	74.4	54.3	
			17:45	73.8	78.9	59.2	
			17:50	72.0	76.2	58.5	
			17:55	67.4	70.0	57.7	
5	20-Mar-21	Sunny	12:30	72.5	70.6	50.3	69.6
			12:35	71.9	74.0	52.9	
			12:40	67.0	70.4	50.0	
			12:45	69.3	71.8	55.4	
			12:50	64.8	69.4	50.4	
			12:55	66.8	70.3	53.6	
6	21-Mar-21	Cloudy	15:30	63.3	67.4	49.9	71.3
			15:35	66.8	69.3	53.9	
			15:40	67.6	71.8	53.0	
			15:45	66.1	70.5	53.4	
			15:50	68.1	69.7	53.1	
			15:55	77.5	69.2	53.3	
7	22-Mar-21	Cloudy	12:30	66.1	70.0	55.7	68.9
			12:35	71.3	71.8	55.1	
			12:40	68.5	71.3	56.4	
			12:45	70.1	72.9	57.5	
			12:50	67.8	71.5	58.0	
			12:55	67.2	70.7	58.1	
8	23-Mar-21	Fine	15:00	65.6	69.4	55.0	71.6
			15:05	74.5	69.8	52.5	
			15:10	76.1	74.3	52.6	
			15:15	67.7	71.3	56.1	
			15:20	67.2	69.7	54.8	
			15:25	65.8	68.0	52.7	
9	24-Mar-21	Cloudy	09:00	67.4	70.9	53.1	69.8
			09:05	71.7	72.8	52.3	
			09:10	73.0	73.8	52.4	
			09:15	65.3	68.3	50.9	
			09:20	67.9	70.2	53.7	
			09:25	68.4	69.5	52.4	
10	25-Mar-21	Fine	08:00	70.8	72.6	55.0	68.9
			08:05	68.5	72.3	51.5	
			08:10	69.1	71.5	54.1	
			08:15	68.7	72.3	54.1	
			08:20	66.6	71.0	54.3	
			08:25	68.7	72.1	52.5	
11	26-Mar-21	Cloudy	17:00	69.5	72.6	60.6	69.1
			17:05	71.8	76.4	59.9	
			17:10	70.6	74.1	52.5	
			17:15	68.0	71.1	50.4	
			17:20	66.1	69.8	51.3	
			17:25	64.1	67.8	45.6	
12	27-Mar-21	Cloudy	13:00	70.8	71.1	53.4	72.5
			13:05	68.8	71.6	55.6	
			13:10	71.5	75.9	55.0	
			13:15	78.0	81.2	54.7	
			13:20	67.0	70.9	54.9	
			13:25	67.2	70.1	54.5	
13	28-Mar-21	Fine	16:00	69.8	69.2	53.3	67.5
			16:05	67.2	69.9	52.7	
			16:10	67.0	70.8	55.9	
			16:15	65.4	69.5	50.2	
			16:20	66.1	69.3	51.2	
			16:25	68.1	70.7	51.7	
14	29-Mar-21	Fine	16:00	65.2	69.0	51.5	74.5
			16:05	66.4	70.3	53.1	
			16:10	69.7	71.9	51.2	
			16:15	73.6	77.1	56.7	
			16:20	77.4	75.2	50.3	
			16:25	78.6	70.6	52.3	
Average L _{eq}							70.6

Remark: Noise data have been rounded off to 1 decimal place for presentation.



Location: N14 South Lantau Community Centre

Model no. Larson Davis LxT
Ser. No. 6344
Model no. Cal 200
Ser. No. 13437

Time Period: From 07:00hr to 19:00hr

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₉₀ (5min)	L _{eq} (30min)
1	09-Apr-21	Cloudy	09:00	62.8	65.9	44.4	58.9
			09:05	59.3	58.6	45.1	
			09:10	60.5	59.9	43.9	
			09:15	54.2	54.8	44.4	
			09:20	52.7	56.8	45.1	
			09:25	54.6	58.3	46.0	
2	10-Apr-21	Fine	12:00	52.1	55.2	45.1	59.3
			12:05	52.4	54.8	46.8	
			12:10	51.2	53.8	44.7	
			12:15	66.4	65.6	45.8	
			12:20	51.6	54.4	45.5	
			12:25	50.9	54.1	43.4	
3	11-Apr-21	Fine	15:30	61.9	66.5	48.0	60.5
			15:35	63.3	68.1	47.9	
			15:40	58.2	60.2	47.7	
			15:45	58.8	61.7	48.8	
			15:50	61.0	64.6	50.9	
			15:55	56.4	59.9	48.4	
4	12-Apr-21	Fine	11:30	58.0	61.4	46.0	59.0
			11:35	55.8	59.4	45.3	
			11:40	53.3	56.4	45.0	
			11:45	53.5	57.1	45.1	
			11:50	64.8	62.2	47.0	
			11:55	55.2	57.5	46.7	
5	13-Apr-21	Sunny	13:00	71.9	76.1	49.6	74.3
			13:05	77.0	77.7	75.2	
			13:10	76.3	77.7	74.6	
			13:15	71.6	74.6	68.2	
			13:20	73.6	72.2	68.1	
			13:25	71.9	75.6	67.9	
6	14-Apr-21	Cloudy	13:30	72.5	77.1	48.7	65.3
			13:35	54.1	56.7	47.2	
			13:40	58.0	60.4	48.3	
			13:45	52.3	55.7	46.2	
			13:50	57.1	60.4	48.7	
			13:55	59.7	62.7	48.7	
7	15-Apr-21	Cloudy	18:00	54.1	56.2	45.5	61.9
			18:05	57.5	59.9	44.6	
			18:10	55.4	54.9	44.1	
			18:15	64.8	65.9	43.8	
			18:20	62.5	59.2	43.5	
			18:25	65.1	66.5	43.6	
8	16-Apr-21	Cloudy	15:00	52.8	55.5	45.8	58.1
			15:05	64.4	63.0	48.5	
			15:10	56.9	56.4	46.1	
			15:15	53.0	56.5	46.1	
			15:20	52.0	55.5	45.3	
			15:25	50.1	53.6	44.1	
9	17-Apr-21	Cloudy	11:30	60.0	65.0	48.9	60.2
			11:35	62.7	67.3	46.1	
			11:40	61.9	66.9	46.8	
			11:45	58.9	63.6	48.0	
			11:50	60.0	63.3	46.5	
			11:55	51.9	54.9	45.1	
10	18-Apr-21	Cloudy	12:30	49.7	51.6	44.4	62.7
			12:35	63.0	65.9	50.3	
			12:40	59.9	60.2	49.5	
			12:45	57.5	61.2	49.8	
			12:50	65.1	62.7	49.4	
			12:55	66.3	70.9	48.0	
11	19-Apr-21	Cloudy	09:30	54.3	56.1	47.4	59.7
			09:35	52.2	55.0	47.2	
			09:40	51.0	54.3	46.3	
			09:45	66.5	61.3	46.6	
			09:50	54.8	58.4	46.5	
			09:55	54.3	56.5	46.0	
12	20-Apr-21	Cloudy	13:30	53.6	56.7	45.1	57.3
			13:35	54.8	55.6	45.2	
			13:40	53.9	56.6	46.0	
			13:45	61.4	65.4	47.8	
			13:50	59.6	62.4	47.4	
			13:55	51.1	53.9	46.0	
13	21-Apr-21	Sunny	09:30	66.5	68.0	63.4	67.0
			09:35	64.2	66.5	60.7	
			09:40	66.2	68.6	48.8	
			09:45	67.7	70.1	51.9	
			09:50	67.8	70.2	58.5	
			09:55	68.2	70.4	64.1	
14	22-Apr-21	Sunny	10:30	63.0	66.7	47.9	66.0
			10:35	63.1	67.0	49.9	
			10:40	64.9	70.5	48.1	
			10:45	71.7	72.6	65.5	
			10:50	61.9	65.4	45.8	
			10:55	55.1	58.2	46.5	
Average L _{eq}							62.2

Remark: Noise data have been rounded off to 1 decimal place for presentation.



Location: N15b Pui O Lo Wai Tsuen

Model no. Larson Davis LxT

Ser. No. 6344

Time Period: From 07:00hr to 19:00hr

Model no. Cal 200

Ser. No. 13437

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₉₀ (5min)	L _{eq} (30min)
1	16-Mar-21	Sunny	11:00	77.1	73.6	57.0	71.0
			11:05	70.9	72.7	55.0	
			11:10	65.3	69.0	53.6	
			11:15	61.5	64.7	53.8	
			11:20	63.6	66.7	53.8	
			11:25	66.6	68.0	62.8	
2	17-Mar-21	Fine	07:00	60.7	63.5	52.8	69.5
			07:05	62.5	67.2	52.2	
			07:10	72.7	74.1	54.8	
			07:15	73.4	74.1	72.1	
			07:20	69.0	72.3	53.2	
			07:25	61.3	64.8	52.5	
3	18-Mar-21	Fine	12:30	75.0	79.9	60.4	72.9
			12:35	76.7	82.3	60.1	
			12:40	73.8	78.7	59.8	
			12:45	68.5	69.1	54.6	
			12:50	66.0	68.5	54.7	
			12:55	64.9	66.9	53.6	
4	19-Mar-21	Fine	16:30	61.0	64.5	54.2	78.7
			16:35	61.5	64.8	54.0	
			16:40	63.0	64.9	54.0	
			16:45	74.8	66.3	53.9	
			16:50	85.8	86.5	55.6	
			16:55	75.4	65.7	54.6	
5	20-Mar-21	Sunny	10:00	75.5	76.2	74.3	72.0
			10:05	76.0	76.7	74.3	
			10:10	69.1	75.6	54.2	
			10:15	60.0	63.4	54.0	
			10:20	66.4	69.9	54.2	
			10:25	68.6	70.8	56.7	
6	21-Mar-21	Cloudy	15:00	62.2	65.8	54.4	65.3
			15:05	67.9	66.5	54.0	
			15:10	62.0	64.8	54.2	
			15:15	61.9	64.7	53.4	
			15:20	64.7	69.8	54.9	
			15:25	68.2	71.1	56.9	
7	22-Mar-21	Cloudy	10:30	59.2	62.2	52.7	72.8
			10:35	71.6	72.7	55.6	
			10:40	74.2	75.1	72.2	
			10:45	75.0	75.9	74.1	
			10:50	74.9	75.4	74.2	
			10:55	69.6	75.1	54.1	
8	23-Mar-21	Fine	11:00	59.0	62.0	52.1	70.1
			11:05	61.6	65.1	52.7	
			11:10	68.5	71.6	55.4	
			11:15	72.7	70.5	66.0	
			11:20	68.0	69.2	66.1	
			11:25	74.2	70.1	66.4	
9	24-Mar-21	Cloudy	07:00	61.4	65.2	52.4	71.2
			07:05	62.5	65.9	51.9	
			07:10	59.1	62.9	52.0	
			07:15	73.3	74.6	52.9	
			07:20	75.4	74.9	72.5	
			07:25	73.1	74.8	70.5	
10	25-Mar-21	Fine	12:00	65.5	69.0	59.8	71.3
			12:05	64.6	67.3	54.6	
			12:10	72.6	63.9	54.1	
			12:15	74.5	77.9	55.5	
			12:20	74.4	78.2	60.2	
			12:25	61.0	62.8	52.4	
11	26-Mar-21	Cloudy	11:00	69.9	71.2	65.2	71.7
			11:05	73.9	74.8	71.2	
			11:10	74.3	74.9	73.1	
			11:15	72.0	74.4	56.2	
			11:20	69.8	70.6	54.7	
			11:25	64.5	65.0	54.2	
12	27-Mar-21	Cloudy	13:00	71.8	76.2	58.2	70.6
			13:05	73.0	77.7	60.3	
			13:10	70.9	74.9	60.3	
			13:15	72.4	77.0	60.7	
			13:20	61.3	65.0	53.2	
			13:25	64.5	67.3	59.5	
13	28-Mar-21	Fine	16:00	64.5	65.7	52.2	62.4
			16:05	65.3	62.0	53.2	
			16:10	60.7	64.9	53.5	
			16:15	60.3	63.7	53.9	
			16:20	60.4	63.8	53.3	
			16:25	59.0	63.0	52.7	
14	29-Mar-21	Fine	16:00	62.3	64.2	60.0	70.4
			16:05	62.5	64.9	58.5	
			16:10	74.0	77.2	52.1	
			16:15	59.5	60.4	58.3	
			16:20	67.8	71.6	59.2	
			16:25	74.9	78.7	60.5	
Average L _{eq}							70.7

Remark: Noise data have been rounded off to 1 decimal place for presentation.



Location: N16a Residences at Ham Tin

Model no. Larson Davis LxT
Ser. No. 6345
Model no. Cal 200
Ser. No. 13437

Time Period: From 07:00hr to 19:00hr

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₅₀ (5min)	L _{eq} (30min)
1	09-Apr-21	Cloudy	13:30	67.3	65.8	40.6	60.9
			13:35	53.2	54.0	42.4	
			13:40	59.9	58.8	41.9	
			13:45	48.8	48.5	40.0	
			13:50	57.1	53.7	42.3	
			13:55	50.9	52.6	48.9	
2	10-Apr-21	Fine	10:30	60.5	61.1	44.3	62.4
			10:35	59.6	60.7	42.5	
			10:40	67.5	68.1	42.9	
			10:45	58.9	59.4	47.6	
			10:50	56.9	58.2	48.1	
			10:55	62.0	64.3	48.3	
3	11-Apr-21	Fine	09:30	57.8	61.1	42.0	62.4
			09:35	59.5	63.6	43.9	
			09:40	51.1	52.8	43.2	
			09:45	68.8	65.7	43.7	
			09:50	56.1	57.1	41.5	
			09:55	59.2	63.9	42.9	
4	12-Apr-21	Fine	10:30	57.6	58.6	41.5	64.8
			10:35	63.9	59.2	41.0	
			10:40	69.9	65.0	42.1	
			10:45	55.4	58.8	44.3	
			10:50	53.3	52.3	41.6	
			10:55	66.6	56.5	40.4	
5	13-Apr-21	Sunny	16:30	60.9	52.9	43.4	63.1
			16:35	57.2	54.8	46.2	
			16:40	56.9	60.2	51.3	
			16:45	68.4	61.6	50.8	
			16:50	59.3	60.6	46.3	
			16:55	63.7	56.2	44.5	
6	14-Apr-21	Cloudy	10:00	75.8	79.6	57.5	71.9
			10:05	61.3	59.8	41.0	
			10:10	62.8	57.6	41.0	
			10:15	70.5	76.4	39.5	
			10:20	72.6	76.8	48.3	
			10:25	73.6	76.8	49.3	
7	15-Apr-21	Cloudy	13:30	63.4	66.0	51.6	64.7
			13:35	68.2	69.7	46.9	
			13:40	65.8	63.1	45.5	
			13:45	63.3	60.7	46.6	
			13:50	62.0	63.9	45.9	
			13:55	61.9	60.5	45.1	
8	16-Apr-21	Cloudy	15:30	69.7	74.0	48.5	69.4
			15:35	66.9	72.5	44.9	
			15:40	68.6	73.3	43.5	
			15:45	69.9	74.4	43.8	
			15:50	69.4	74.3	44.5	
			15:55	70.7	74.2	50.2	
9	17-Apr-21	Cloudy	09:30	64.7	69.6	45.2	68.0
			09:35	71.3	76.8	46.6	
			09:40	68.4	73.5	48.6	
			09:45	67.4	72.4	46.5	
			09:50	68.3	72.8	45.5	
			09:55	62.9	64.9	43.6	
10	18-Apr-21	Cloudy	09:00	53.7	56.3	43.5	61.6
			09:05	56.5	55.7	41.2	
			09:10	67.0	63.0	43.6	
			09:15	56.4	59.3	41.0	
			09:20	52.8	53.8	41.5	
			09:25	63.7	62.3	42.7	
11	19-Apr-21	Cloudy	16:30	74.0	79.7	60.4	72.2
			16:35	78.3	81.5	61.4	
			16:40	56.0	52.4	42.7	
			16:45	61.4	67.0	44.3	
			16:50	64.1	67.7	51.1	
			16:55	62.0	66.2	46.8	
12	20-Apr-21	Cloudy	12:00	70.6	68.2	41.8	63.4
			12:05	55.8	56.5	41.7	
			12:10	54.5	49.3	40.9	
			12:15	53.4	53.6	41.1	
			12:20	53.5	56.2	41.3	
			12:25	57.5	57.1	41.6	
13	21-Apr-21	Sunny	13:30	68.2	67.0	40.5	63.9
			13:35	61.6	60.2	39.5	
			13:40	55.6	53.9	40.7	
			13:45	59.3	60.5	47.2	
			13:50	66.9	66.2	45.0	
			13:55	56.5	56.8	44.0	
14	22-Apr-21	Sunny	12:30	68.8	74.7	47.5	62.5
			12:35	59.8	63.7	43.9	
			12:40	58.4	63.1	43.2	
			12:45	55.1	58.2	40.7	
			12:50	57.9	60.9	40.6	
			12:55	56.4	55.3	41.9	
Average L _{eq}							65.1

Remark: Noise data have been rounded off to 1 decimal place for presentation.



Location: N16b Residences at Ham Tin

Model no. Larson Davis LxT
Ser. No. 6307
Model no. Cal 200
Ser. No. 13437

Time Period: From 07:00hr to 19:00hr

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₉₀ (5min)	L _{eq} (30min)
1	09-Apr-21	Cloudy	10:00	63.9	67.3	49.2	64.6
			10:05	65.2	66.6	51.6	
			10:10	66.9	64.6	48.3	
			10:15	63.0	65.9	51.1	
			10:20	65.0	66.8	48.0	
			10:25	61.2	62.6	49.5	
2	10-Apr-21	Fine	15:30	60.2	63.4	46.4	66.5
			15:35	56.1	59.9	46.3	
			15:40	73.6	68.9	47.8	
			15:45	58.8	62.4	46.7	
			15:50	58.5	61.1	47.9	
			15:55	59.2	62.9	47.1	
3	11-Apr-21	Fine	09:30	65.5	66.0	51.5	61.1
			09:35	59.8	62.2	51.4	
			09:40	55.1	58.1	45.7	
			09:45	57.4	61.7	46.9	
			09:50	62.3	66.1	46.3	
			09:55	58.4	62.4	46.1	
4	12-Apr-21	Fine	10:30	59.3	62.1	42.1	61.8
			10:35	54.6	57.1	41.9	
			10:40	58.5	61.6	41.4	
			10:45	68.1	68.2	44.9	
			10:50	53.4	54.7	43.6	
			10:55	58.1	56.0	42.7	
5	13-Apr-21	Sunny	14:00	68.5	63.5	42.0	62.7
			14:05	59.5	59.4	40.8	
			14:10	58.1	61.4	42.4	
			14:15	60.4	64.4	42.2	
			14:20	56.7	59.7	40.2	
			14:25	59.8	61.6	39.5	
6	14-Apr-21	Cloudy	16:00	62.2	62.7	45.1	77.5
			16:05	85.2	59.4	46.8	
			16:10	62.1	64.3	48.1	
			16:15	60.4	63.1	47.6	
			16:20	66.2	64.6	49.0	
			16:25	58.8	62.6	47.7	
7	15-Apr-21	Cloudy	08:30	59.2	63.0	46.6	65.0
			08:35	71.9	64.9	45.1	
			08:40	55.6	58.1	44.5	
			08:45	58.2	62.1	46.5	
			08:50	58.4	61.8	47.8	
			08:55	58.8	58.2	46.6	
8	16-Apr-21	Cloudy	13:30	59.3	59.5	46.5	62.0
			13:35	59.9	62.8	44.5	
			13:40	56.9	56.3	44.0	
			13:45	66.5	68.7	46.8	
			13:50	61.3	61.9	44.1	
			13:55	61.6	64.9	47.4	
9	17-Apr-21	Cloudy	11:00	57.0	59.3	43.9	62.4
			11:05	59.2	63.1	44.4	
			11:10	67.2	72.6	44.9	
			11:15	63.1	65.3	53.0	
			11:20	60.2	62.4	56.0	
			11:25	58.1	60.9	53.1	
10	18-Apr-21	Cloudy	09:30	59.2	61.3	49.7	61.8
			09:35	66.4	68.0	52.6	
			09:40	59.7	62.7	53.7	
			09:45	59.7	63.1	48.6	
			09:50	57.5	61.0	48.8	
			09:55	62.0	64.8	50.9	
11	19-Apr-21	Cloudy	13:00	60.1	62.8	44.6	66.8
			13:05	54.0	55.3	44.3	
			13:10	73.8	73.2	47.6	
			13:15	62.5	63.9	48.8	
			13:20	59.9	61.9	44.5	
			13:25	59.6	63.4	43.5	
12	20-Apr-21	Cloudy	10:30	57.0	60.6	48.4	62.1
			10:35	58.0	60.9	45.5	
			10:40	63.8	65.5	44.9	
			10:45	65.1	63.5	45.4	
			10:50	60.6	63.8	45.6	
			10:55	62.8	64.0	49.9	
13	21-Apr-21	Sunny	10:00	59.7	62.6	41.1	68.1
			10:05	60.7	60.5	49.3	
			10:10	55.7	58.2	51.7	
			10:15	61.2	62.6	43.4	
			10:20	66.5	64.3	41.5	
			10:25	74.9	61.2	41.9	
14	22-Apr-21	Sunny	09:00	60.6	64.8	46.2	74.4
			09:05	57.0	60.1	44.4	
			09:10	57.1	59.3	44.4	
			09:15	61.1	60.9	45.3	
			09:20	76.8	72.4	46.4	
			09:25	80.5	68.5	45.6	
Average L _{eq}							65.5

Remark: Noise data have been rounded off to 1 decimal place for presentation.



Location: N17 Bui O Public School

Model no. Larson Davis LxT

Ser. No. 6357

Time Period: From 07:00hr to 19:00hr

Model no. Cal 200

Ser. No. 13437

Day	Date	Weather	Time	L _{eq} (5min)	L ₁₀ (5min)	L ₉₀ (5min)	L _{eq} (30min)
1	09-Apr-21	Cloudy	10:30	61.2	62.6	53.2	66.4
			10:35	61.6	64.8	53.4	
			10:40	61.2	62.5	53.7	
			10:45	69.1	74.3	57.8	
			10:50	70.3	72.9	63.1	
			10:55	65.1	66.0	59.0	
2	10-Apr-21	Fine	16:00	58.5	61.9	49.1	58.7
			16:05	56.1	59.1	49.3	
			16:10	55.6	58.9	50.0	
			16:15	62.4	61.6	50.4	
			16:20	58.9	61.6	48.3	
			16:25	56.2	58.3	48.2	
3	11-Apr-21	Fine	09:30	60.9	62.5	50.2	58.8
			09:35	54.9	57.4	47.2	
			09:40	55.2	57.7	46.3	
			09:45	58.9	60.4	47.9	
			09:50	59.2	59.7	46.6	
			09:55	60.5	58.5	46.6	
4	12-Apr-21	Fine	08:00	60.2	63.0	50.1	60.5
			08:05	62.3	65.7	51.7	
			08:10	60.4	63.8	52.9	
			08:15	60.9	64.1	51.9	
			08:20	60.5	63.8	51.1	
			08:25	57.3	59.3	49.0	
5	13-Apr-21	Sunny	11:30	61.5	64.5	51.1	62.3
			11:35	59.5	61.7	50.6	
			11:40	60.2	62.8	53.0	
			11:45	62.9	65.6	53.9	
			11:50	64.7	65.9	56.5	
			11:55	62.8	63.7	55.6	
6	14-Apr-21	Cloudy	12:00	65.8	68.3	56.3	62.7
			12:05	63.3	66.9	55.1	
			12:10	60.5	61.8	54.2	
			12:15	61.9	62.9	54.6	
			12:20	58.6	60.5	54.4	
			12:25	62.7	65.1	53.6	
7	15-Apr-21	Cloudy	09:30	57.5	59.0	51.9	64.4
			09:35	63.2	59.7	52.5	
			09:40	60.5	61.8	54.4	
			09:45	61.7	66.0	55.2	
			09:50	69.5	71.8	65.5	
			09:55	63.7	66.8	56.1	
8	16-Apr-21	Cloudy	11:30	63.0	66.1	51.6	63.6
			11:35	57.0	59.9	49.9	
			11:40	65.9	64.1	48.0	
			11:45	56.3	58.7	48.9	
			11:50	62.3	65.3	51.8	
			11:55	67.1	66.2	54.9	
9	17-Apr-21	Cloudy	12:00	58.5	59.9	47.5	59.4
			12:05	58.4	59.7	50.4	
			12:10	55.8	58.2	48.6	
			12:15	58.4	62.0	49.5	
			12:20	57.7	60.7	48.7	
			12:25	63.5	61.9	51.0	
10	18-Apr-21	Cloudy	14:30	60.1	61.2	51.3	59.1
			14:35	55.5	58.8	49.2	
			14:40	62.4	61.3	47.0	
			14:45	57.0	60.9	46.9	
			14:50	58.8	62.1	50.5	
			14:55	56.5	59.5	49.6	
11	19-Apr-21	Cloudy	13:00	62.2	65.2	54.8	61.9
			13:05	66.5	69.9	56.5	
			13:10	61.9	65.7	51.6	
			13:15	55.9	59.6	49.4	
			13:20	56.6	57.8	46.8	
			13:25	58.9	61.4	49.1	
12	20-Apr-21	Cloudy	11:30	55.5	58.4	46.0	64.7
			11:35	58.3	60.5	48.0	
			11:40	58.3	60.2	50.1	
			11:45	59.9	60.8	49.0	
			11:50	66.0	69.6	53.1	
			11:55	70.5	74.2	60.8	
13	21-Apr-21	Sunny	11:30	63.7	66.8	55.4	63.8
			11:35	63.4	67.4	53.8	
			11:40	63.2	66.2	54.7	
			11:45	58.9	61.5	53.1	
			11:50	64.2	66.8	55.3	
			11:55	66.3	69.3	56.6	
14	22-Apr-21	Sunny	09:00	55.1	57.2	52.2	65.7
			09:05	61.8	62.4	52.6	
			09:10	54.6	57.0	50.7	
			09:15	58.4	59.7	49.2	
			09:20	72.5	71.3	49.5	
			09:25	62.4	60.6	48.6	
Average L _{eq}							62.3

Remark: Noise data have been rounded off to 1 decimal place for presentation.

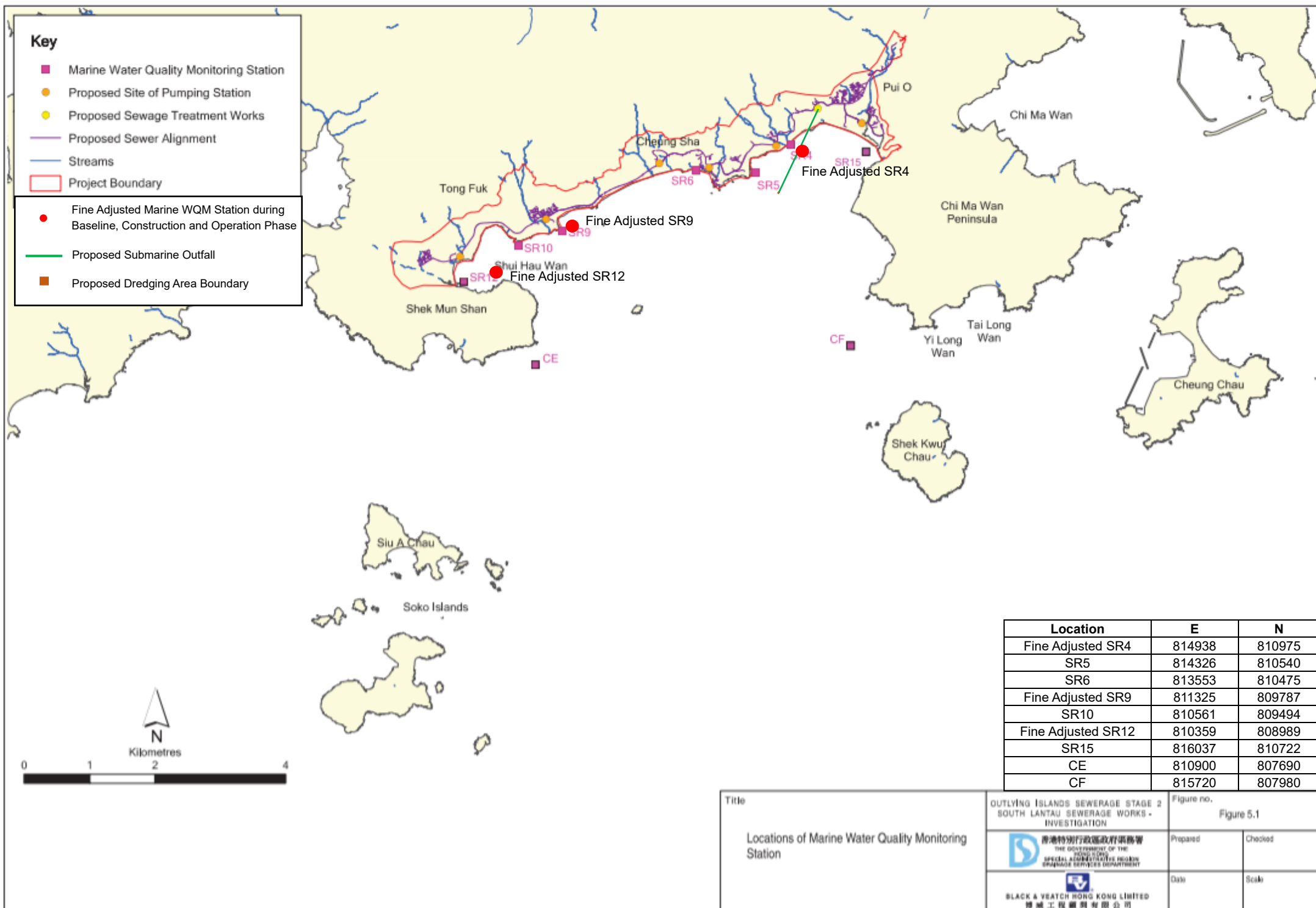


Lam Environmental Services Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment
Works, Associated Submarine Outfall and Pui O
Sewerage Works - ET Services (2021-2022)
Baseline Monitoring Report

Appendix E

Location of Water Quality Monitoring Stations





Lam Environmental Services Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment
Works, Associated Submarine Outfall and Pui O
Sewerage Works - ET Services (2021-2022)
Baseline Monitoring Report

Appendix F

Baseline Water Quality Monitoring Data and Wind data from Hong Kong Observatory



Lam Environmental Service Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022)

Baseline Water Quality Monitoring at Station SR4 (surface) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UIA mg/L		E. Coli CFU/100mL			B.O.D mg/L									
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	V'	AVG	Value	AVG						
SR4	3/3/2021	Cloudy	14:12	3.5	1.0	20.10	20.10			20.10	8.07	8.07	8.07	31.15	31.15	79.10	80.20	81.43	5.98	6.05	6.15	10.61	10.65	10.63	6.1	8.1	0.220	0.013	0.003	0.003	0.003	NOT DETECTED	1	1	1.3	1.3
			14:14	3.5	1.0	20.10	20.10				8.07	8.07		31.15	31.15	83.00	83.40		6.27	6.30		10.61	10.65		10.0			0.003	0.003		1	1	1.3			
			17:15	3.3	1.0	20.70	20.70	20.70	8.06	8.06		8.06	31.84	31.84	89.30	89.50	89.40	6.64	6.65	6.65	8.20	8.20	8.20	5.0	5.3	0.122	0.117	0.002	0.002	0.002	NOT DETECTED	1	1	0.9	1.1	
	5/3/2021	Cloudy	17:17	3.3	1.0	20.70	20.70				8.06	8.06		31.84	31.84	89.40	89.40		6.65	6.65		8.20	8.20		5.5		0.111	0.111	0.002	0.002	0.002	NOT DETECTED	1	1	1.3	
			09:05	3.0	1.0	20.50	20.50	20.50	8.15	8.15	8.15	31.82	31.82	84.00	84.10	84.03	6.27	6.28	6.28	6.06	6.06	6.06	7.3	7.5	0.194	0.199	0.005	0.005	0.005	17	17	1.6	1.5			
			09:07	3.0	1.0	20.50	20.50	20.50	8.15	8.15	8.15	31.82	31.82	84.10	83.90		6.28	6.27	6.28	6.08	6.14		7.6		0.204	0.006	0.005		13	13	1.4					
	9/3/2021	Cloudy	10:20	3.2	1.0	20.30	20.30	20.30	8.17	8.17	8.17	31.90	31.90	83.90	84.20	84.18	6.29	6.31	6.31	10.80	10.74	10.73	9.5	9.0	0.200	0.200	0.005	0.005	0.005	6	6	1.2	1.4			
			10:22	3.2	1.0	20.30	20.30	20.30	8.17	8.17	8.17	31.90	31.90	84.30	84.30		6.32	6.32	6.31	10.71	10.68	10.73	8.7	9.1	0.208	0.204	0.005	0.005	0.005	5	5	1.6	1.4			
			17:20	3.0	1.0	21.60	21.60	21.60	8.11	8.11	8.11	31.93	31.93	86.50	87.00	87.35	6.34	6.37	6.40	10.05	10.04	10.04	9.2	9.3	0.164	0.163	0.004	0.004	0.004	NOT DETECTED	1	1	1.3	1.4		
	13/3/2021	Fine	17:22	3.0	1.0	21.60	21.60				8.11	8.11		31.93	31.93	87.60	88.30		6.42	6.46		10.03	10.03		9.4		0.162	0.162	0.004	0.004	0.004	NOT DETECTED	1	1	1.5	
			13:53	3.0	1.0	23.10	23.10	23.10	8.04	8.04	8.04	32.11	32.11	91.90	92.20	92.33	6.53	6.56	6.57	8.41	8.43	8.43	5.2	5.2	0.147	0.148	0.003	0.003	0.003	NOT DETECTED	1	1	1.3	1.3		
			13:55	3.0	1.0	23.10	23.10	23.10	8.04	8.04	8.04	32.11	32.11	92.50	92.70		6.58	6.59	6.58	8.44	8.45		5.1		0.146	0.146	0.003	0.003	0.003	NOT DETECTED	1	1	1.3			
	17/3/2021	Fine	13:55	3.0	1.0	24.00	24.00	24.00	8.08	8.08	8.08	32.10	32.10	85.90	85.60	86.55	6.10	6.06	6.08	3.51	3.51	3.51	2.5	2.9	0.177	0.177	0.003	0.003	0.003	NOT DETECTED	1	1	0.9	0.9		
			13:57	3.0	1.0	24.00	24.00		8.08	8.08		32.10	32.10	87.20	87.50		6.12	6.12		3.51	3.49		3.3		0.176	0.176	0.003	0.003	0.003	NOT DETECTED	1	1	0.9			
			16:17	3.0	1.0	25.00	25.00	25.00	8.19	8.19	8.19	31.93	31.93	85.30	85.40	85.53	5.87	5.87	5.89	4.94	4.94	4.94	2.6	3.0	0.199	0.203	0.006	0.006	0.006	NOT DETECTED	1	1	1.0	1.0		
	19/3/2021	Fine	16:19	3.0	1.0	25.00	25.00	25.00	8.19	8.19	8.19	31.93	31.93	85.40	86.00		5.88	5.92		4.94	4.94		3.4		0.206	0.206	0.006	0.006	0.006	NOT DETECTED	1	1	1.0			
			20:28	3.1	1.0	20.50	20.50	20.50	7.61	7.61	7.61	32.68	32.68	85.00	85.60	85.93	6.31	6.36	6.38	8.40	8.41	8.41	5.0	5.3	0.104	<0.001	0.001	0.001	3	3	1.1	1.2				
			20:30	3.1	1.0	20.50	20.50	20.50	7.61	7.61	7.61	32.68	32.68	86.30	86.80		6.41	6.45		8.41	8.41	8.41	6.0	5.5	0.100	<0.001	0.001	0.001	3	3	1.2					
	25/3/2021	Fine	10:35	3.3	1.0	22.10	22.10	22.10	8.06	8.06	8.06	32.43	32.46	78.40	77.60	77.73	5.66	5.61	5.62	10.53	10.54	10.54	8.7	8.2	0.092	<0.001	0.001	0.001	0.001	NOT DETECTED	1	1	1.4	1.3		
			10:37	3.3	1.0	22.10	22.10	22.10	8.06	8.06		32.46	32.48	77.60	77.30		5.61	5.58		10.54	10.54		7.6		0.091	<0.001	0.001	0.001	1	1	1.1					
			11:25	3.2	1.0	22.90	22.90	22.90	8.23	8.23	8.23	32.62	32.62	99.10	99.50	99.63	7.08	7.09	7.10	7.00	7.10	7.06	5.0	5.4	0.010	<0.001	0.001	0.001	1	1	1.5	1.4				
	27/3/2021	Cloudy	11:27	3.2	1.0	22.90	22.90	22.90	8.23	8.23	8.23	32.62	32.62	99.80	100.10		7.11	7.13		7.07	7.08		5.8		0.010	<0.001	0.001	0.001	1	1	1.2					
			10:25	3.2	1.0	24.20	24.20	24.20	8.22	8.22	8.22	32.72	32.72	97.40	97.50	97.43	6.77	6.78	6.77	6.34	6.33	6.33	3.3	2.8	0.013	<0.001	0.001	0.001	1	1	2.0	2.4				
			10:27	3.2	1.0	24.20	24.20	24.20	8.22	8.22	8.22	32.73	32.73	97.40	97.40		6.77	6.77		6.33	6.33		2.2		<0.010	<0.001	0.001	0.001	1	1	2.7					

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station SR4 (surface) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UIA mg/L		E Coli CFU/100mL		B.O.D mg/L							
						Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		Value					
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	V	AVG	Value	V	AVG	Value	V	AVG			
SR4	3/3/2021	Cloudy	09:20	6.1	1.0	19.80	19.80	7.94	7.94	31.69	31.69	39.19	92.40	90.90	91.33	7.00	6.88	6.92	14.54	14.54	14.54	9.5	11.3	0.056	<0.001	0.001	0.001	3	3	2.4	2.5		
			09:22	6.1	1.0	19.80	19.80	7.94	7.94	31.69	31.69	91.20	90.80	91.33	6.92	6.88		14.53	14.51		13.1		0.063	<0.001	0.001		1	1	2.5				
			10:20	4.0	1.0	20.20	20.20	8.00	8.00	31.84	31.84	31.84	82.90	82.80	82.68	6.22	6.21	6.20	11.58	11.52	11.52	4.2	4.5	0.101	0.002	0.002	0.002	NOT DETECTED	1	1	1.7	1.5	
			10:22	4.0	1.0	20.20	20.20	8.00	8.00	31.84	31.84		82.70	82.30		6.20	6.17		11.50	11.47		4.8		0.109	0.002	0.002		1	1	1.3			
			14:00	3.4	1.0	20.10	20.10	20.10	8.02	8.02	31.80	31.80	31.80	81.60	81.40	81.38	6.14	6.13	6.13	10.18	10.11	10.11	3.4	3.6	0.175	0.003	0.003	0.003	150	150	1.1	1.3	
			14:02	3.4	1.0	20.10	20.10	20.10	8.02	8.02	31.80	31.80		81.30	81.20		6.12	6.11		10.08	10.06		3.8		0.178	0.003	0.003		120	120	1.5		
			14:20	3.4	1.0	21.30	21.30	21.30	8.19	8.19	31.90	31.90		89.80	90.00	90.03	6.60	6.62	6.62	9.12	9.11	9.11	6.5	6.3	0.183	0.005	0.005	0.005	NOT DETECTED	1	1	1.2	1.3
			14:22	3.4	1.0	21.30	21.30	21.30	8.19	8.19	31.95	31.95	31.95	90.10	90.20	90.03	6.63	6.63	6.62	9.10	9.10	9.11	6.1	6.3	0.174	0.004	0.004		NOT DETECTED	1	1	1.3	
			12:13	3.6	1.0	20.70	20.70	20.70	8.16	8.16	31.98	31.98		83.50	83.50	83.43	6.21	6.21		10.55	10.54	10.54	10.6	10.8	0.176	0.004	0.004	0.004	1	1	1.4	1.6	
			12:15	3.6	1.0	20.70	20.70	20.70	8.16	8.16	31.98	31.98		83.40	83.30		6.20	6.19		10.54	10.54	10.54	10.5	10.8	0.191	0.005	0.005		NOT DETECTED	1	1	1.8	
			07:23	3.1	1.0	21.20	21.20	21.20	7.92	7.92	32.10	32.10		84.90	85.70	86.85	6.25	6.31	6.38	10.88	10.74	10.76	8.9	8.8	0.170	0.003	0.003	0.003	NOT DETECTED	1	1	1.7	1.7
			07:25	3.1	1.0	21.20	21.20	21.20	7.92	7.92	32.10	32.10		84.90	85.90	86.85	6.24	6.31	6.37	10.80	10.80		9.02	9.02	0.169	0.003	0.003	0.003	NOT DETECTED	1	1	1.7	
			08:10	3.1	1.0	23.00	23.00	23.00	7.97	7.97	32.10	32.10		89.00	88.50	88.33	6.34	6.31	6.29	5.71	5.71		4.3	4.2	0.161	0.003	0.003	0.003	NOT DETECTED	1	1	1.6	1.6
			08:12	3.1	1.0	23.00	23.00	23.00	7.97	7.97	32.10	32.10		88.00	87.80	88.33	6.27	6.25	6.29	5.71	5.82	5.74	4.1	4.2	0.167	0.003	0.003	0.003	NOT DETECTED	1	1	1.5	
			09:50	3.1	1.0	23.40	23.40	23.40	8.18	8.18	31.71	31.71	31.71	87.90	87.87	88.14	6.27	6.26	6.29	3.19	3.22	3.20	2.7	3.0	0.201	0.006	0.006	0.006	NOT DETECTED	1	1	1.7	
			09:52	3.1	1.0	23.40	23.40	23.40	8.18	8.18	31.71	31.71		88.50	88.80		6.32	6.31		3.22	3.17		3.2		0.194	0.005	0.005		NOT DETECTED	1	1	1.6	
			08:45	3.3	1.0	20.70	20.70	20.70	7.43	7.43	32.62	32.62	32.62	81.40	81.10	81.45	6.04	6.09	6.04	9.09	9.09	9.09	5.7	5.7	0.114	0.016	<0.001	0.001	0.001	5	5	3	4
			23:30/2021	Fine	08:47	3.3	1.0	20.70	20.70	7.43	7.43	32.62	32.62	81.40	81.10	81.45	6.04	6.09	6.09	9.09	9.09	9.09	6.1	5.7	0.114	0.016	<0.001	0.001	0.001	5	5	3	4
		25/3/2021	Fine	15:15	4.5	1.0	22.50	22.50	8.14	8.14	32.50	32.50	93.30	93.20	93.03	6.90	6.88	6.87	9.01	9.09	9.07	6.3	6.1	0.072	0.001	<0.001	0.001	0.001	NOT DETECTED	1	1	1.3	1.4
		15:17	4.5	1.0	22.50	22.50	8.14	8.14	32.54	32.54	32.54	92.90	92.70	93.03	6.56	6.55		9.09	9.09		5.8	6.1	0.069	0.017	<0.001	0.001	0.001	NOT DETECTED	1	1	1.4	1.4	
		27/3/2021	Cloudy	17:00	3.2	1.0	23.80	23.80	8.28	8.28	32.64	32.64	95.40	95.50	97.88	6.68	6.69	6.86	6.31	6.39	6.34	5.4	5.0	0.018	0.014	<0.001	0.001	0.001	NOT DETECTED	1	1	1.9	1.8
		17:02	3.2	1.0	23.80	23.80	8.28	8.28	32.64	32.64		99.40	101.20		6.99	6.99		6.33	6.34		4.6		<0.010	0.010	<0.001	0.001	0.001	NOT DETECTED	1	1	1.7		
		18:05	3.4	1.0	25.50	25.50	8.25	8.25	32.69	32.69	32.69	102.30	102.50	101.76	6.98	6.92	6.91	5.93	5.96	5.96	3.0	3.4	<0.010	0.010	<0.001	0.001	0.001	62	62	60	23		
		29/3/2021	Fine	18:07	3.4	1.0	25.50	25.50	8.25	8.25	32.69	32.69	101.40	101.70	101.76	6.99	6.91	6.93	5.93	5.94	5.93	3.7	3.4	<0.010	0.010	<0.001	0.001	0.001	62	62	60	23	



Baseline Water Quality Monitoring at Station SR4 (Middle) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature			pH			Salinity			DO Saturation			DO			Turbidity			SS		TIN		UIA			E.Coli			B.O.D		
						°C			-			ppt			%			mg/L			NTU			mg/L		mg/L		mg/L			CFU/100mL			mg/L		
						Value	20.30	AVG	Value	8.12	AVG	Value	31.83	AVG	Value	90.40	AVG	Value	6.77	AVG	Value	14.37	AVG	Value	20.4	AVG	Value	0.077	AVG	Value	0.001	AVG	Value	0.001	AVG	Value
SR4	3/3/2021	Cloudy	09:25	6.1	3.1	20.30	20.30	20.30	8.12	8.12	8.12	31.83	31.83	31.83	90.40	90.60	89.98	6.77	6.79	6.74	14.37	14.39	14.32	20.4	21.1	0.077	0.073	0.001	0.001	0.001	NOT DETECTED	1	1	1.6	1.7	
			09:27	6.1	3.1	20.30	20.30		8.12	8.12		31.83	31.83		89.40	89.50		6.69	6.70		14.26	14.26		21.8		0.069		0.001	0.001		NOT DETECTED	1		1.7		
	5/3/2021	Cloudy	Water samples were collected in surface and bottom layer.																																	
	9/3/2021	Cloudy																																		
	11/3/2021	Fine																																		
	13/3/2021	Fine																																		
	15/3/2021	Fine																																		
	17/3/2021	Fine																																		
	19/3/2021	Fine																																		
	23/3/2021	Fine																																		
	25/3/2021	Fine																																		
27/3/2021	Cloudy																																			
29/3/2021	Fine																																			

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.



Lam Environmental Service Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022).

Baseline Water Quality Monitoring at Station SR4 (Bottom) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UJA mg/L		E. Coli CFU/100mL		B.O.D mg/L								
						Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		Value						
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG			
SR4	3/3/2021	Cloudy	14:17	3.5	2.5	20.20	20.20	20.20	8.06	8.06	8.06	31.00	31.00	31.00	81.60	82.50	81.23	6.16	6.08	6.14	11.46	11.45	11.45	11.9	12.3	0.217	0.003	0.003	0.003	NOT DETECTED	1	1	1.1	1.2
			14:20	3.5	2.5	20.20	20.20		8.06	8.06		31.00	31.00		79.90	82.50		6.03	6.28		11.45	11.45		12.7		0.217	0.003	0.003		1	1	1.3		
			17:20	3.3	2.3	20.70	20.70	20.70	8.09	8.09	8.09	31.86	31.86	31.86	83.40	83.40	83.28	6.20	6.20	6.19	9.13	9.10	9.09	5.5	5.9	0.118	0.003	0.003	0.003	NOT DETECTED	1	1	1.3	1.3
	5/3/2021	Cloudy	17:22	3.3	2.3	20.70	20.70		8.09	8.09		31.86	31.86		83.30	83.00		6.19	6.17	6.19	9.10	9.03		6.2		0.110	0.002	0.002		1	1	1.3		
			09:10	3.0	2.0	20.50	20.50	20.50	8.16	8.16	8.16	31.82	31.82	31.82	84.70	84.70	84.65	6.33	6.32	6.32	5.83	5.83	5.83	8.5	8.2	0.191	0.005	0.005	0.005	29	29	24	1.4	1.4
	9/3/2021	Cloudy	09:12	3.0	2.0	20.50	20.50		8.16	8.16		31.82	31.82		84.60	84.60		6.32	6.32		5.83	5.83		8.5		0.196	0.005	0.005		18	18	14		
			10:25	3.2	2.2	20.30	20.30	20.30	8.20	8.20	8.20	31.91	31.91	31.91	84.00	84.00	84.08	6.30	6.30	6.30	11.42	11.42	11.44	10.9	10.7	0.204	0.005	0.005	0.005	6	6	7	1.3	1.3
	11/3/2021	Fine	10:27	3.2	2.2	20.30	20.30	20.30	8.20	8.20	8.20	31.91	31.91	31.91	84.10	84.20	84.08	6.30	6.31	6.30	11.42	11.48	11.44	10.9	10.7	0.212	0.006	0.006	0.006	8	8	7	1.3	1.3
			17:24	3.0	2.0	21.70	21.70	21.70	8.12	8.12	8.12	31.98	31.98	31.98	85.40	85.50	85.50	6.24	6.24	6.25	15.18	15.05	15.00	13.6	13.2	0.176	0.004	0.004	0.004	2	2	2	1.7	1.6
	13/3/2021	Fine	17:26	3.0	2.0	21.70	21.70		8.12	8.12		31.98	31.98		85.50	85.60		6.25	6.25		14.96	14.80		12.8		0.168	0.004	0.004		NOT DETECTED	1		1.5	
			13:58	3.0	2.0	22.90	22.90	22.90	8.00	8.00	8.00	32.07	32.07	32.07	91.00	91.00	90.98	6.50	6.50	6.50	8.45	8.45	8.44	6.1	6.3	0.148	0.003	0.003	0.003	NOT DETECTED	1	1	1.2	1.3
	15/3/2021	Fine	14:00	3.0	2.0	22.90	22.90		8.00	8.00		32.07	32.07		91.00	90.90		6.50	6.49		8.43	8.43		6.4		0.151	0.003	0.003		NOT DETECTED	1	1	1.4	
			13:59	3.0	2.0	23.90	23.90	23.90	8.07	8.07	8.07	32.11	32.11	32.11	81.30	82.00	81.95	5.71	5.75	5.75	3.92	3.92	3.92	3.9	3.8	0.176	0.003	0.003	0.003	NOT DETECTED	1	1	0.8	0.8
	17/3/2021	Fine	14:01	3.0	2.0	23.90	23.90		8.07	8.07		32.11	32.11		82.20	82.30		5.77	5.78	5.75	3.92	3.93	3.92	3.9		0.181	0.003	0.003	0.003	NOT DETECTED	1		1.0	
			16:21	3.0	2.0	24.90	24.90	24.90	8.19	8.19	8.19	31.88	31.88	31.88	87.40	87.70	87.73	6.04	6.06	6.06	4.81	4.81	4.83	3.5	3.8	0.202	0.005	0.005	0.006	1	1	1	1.0	1.1
	19/3/2021	Fine	16:23	3.0	2.0	24.90	24.90		8.19	8.19		31.88	31.88		87.90	87.90		6.07	6.07		4.82	4.86		4.1		0.204	0.006	0.006		NOT DETECTED	1		1.2	
			20:32	3.1	2.1	21.10	21.10	21.10	7.60	7.60	7.60	32.63	32.63	32.63	85.00	85.20	85.20	6.25	6.27	6.27	7.50	7.51	7.52	4.7	4.6	0.108	<0.001	0.001	0.001	NOT DETECTED	1	1	1.2	1.2
	23/3/2021	Fine	20:34	3.1	2.1	21.10	21.10		7.60	7.60		32.63	32.63		85.30	85.30		6.28	6.28		7.53	7.55		4.7		<0.001	0.001		NOT DETECTED	1		1.2		
			10:39	3.3	2.3	22.20	22.20	22.20	8.06	8.06	8.06	32.52	32.52	32.52	81.00	80.70	80.68	5.84	5.82	5.82	10.66	10.64	10.63	9.6	9.2	0.101	0.001	0.001	0.001	1	1	1	1.2	1.3
	25/3/2021	Fine	10:41	3.3	2.3	22.20	22.20		8.06	8.06		32.52	32.52		80.70	80.30		5.82	5.80		10.63	10.60		9.6		0.102	0.001	0.001		1	1	1	1.3	
			11:30	3.2	2.2	22.70	22.70	22.70	8.25	8.25	8.25	32.12	32.12	32.14	99.00	99.30	99.35	7.09	7.10	7.10	9.62	9.66	9.72	8.2	8.6	0.014	<0.001	0.001	0.001	NOT DETECTED	1	1	1.8	2.2
	27/3/2021	Cloudy	11:32	3.2	2.2	22.70	22.70		8.25	8.25		32.16	32.16		99.50	99.60		7.11	7.11		9.71	9.90		8.9		0.016	<0.001	0.001		NOT DETECTED	1	1	2.5	
			10:30	3.2	2.2	23.60	23.60	23.60	8.19	8.19	8.19	32.74	32.74	32.74	85.70	85.70	85.40	6.02	6.02	6.00	12.14	12.12	12.12	7.6	6.9	<0.010	0.010	<0.001	0.001	0.001	2	2	2	2.4
	29/3/2021	Fine	10:32	3.2	2.2	23.60	23.60		8.19	8.19		32.74	32.74		85.30	84.90		5.99	5.97		12.12	12.11		6.6		<0.010	0.010	<0.001	0.001		2	2	2	2.3

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station SR4 (Bottom) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C			pH			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			SS mg/L			TIN mg/L			UJA mg/L			E. Coli CFU/100mL			B.O.D mg/L		
						Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		V	AVG	Value		V	AVG	Value		AVG	
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	
SR4	3/3/2021	Cloudy	09:30	6.1	5.1	20.40	20.40	20.40	8.15	8.15	8.15	31.39	31.39	31.39	91.70	91.50	91.55	6.89	6.88	6.87	9.53	9.53	9.53	10.5	10.9	0.071	0.002	0.002	0.002	NOT DETECTED	1	1	2.0	1.9				
			09:32	6.1	5.1	20.40	20.40		8.15	8.15		31.39	31.39		91.40	91.60		6.84	6.88		9.52	9.55		11.3		0.073	0.002	0.002		NOT DETECTED	1		1.7					
			10:25	4.0	3.0	20.20	20.20	20.20	8.01	8.01	8.01	31.83	31.83	31.83	82.80	82.70	82.73	6.21	6.21	6.21	14.55	14.55	14.54	10.3	10.8	0.112	0.001	0.001	0.001	NOT DETECTED	1	1	1.6	1.5				
			10:27	4.0	3.0	20.20	20.20		8.01	8.01		31.83	31.83		82.70	82.70		6.21	6.21		14.54	14.50		11.3		0.114	0.001	0.001		NOT DETECTED	1	1	1.4					
			14:05	3.4	2.4	20.10	20.10	20.10	8.07	8.07	8.07	31.82	31.82	31.82	79.70	79.80	79.75	6.00	6.00	6.00	9.51	9.51	9.51	4.9	4.4	0.192	0.004	0.004	0.004	6	6	8	1.4	1.5				
			14:07	3.4	2.4	20.10	20.10		8.07	8.07		31.82	31.82		79.80	79.70		6.01	6.00		9.50	9.50		3.9		0.176	0.003	0.003		10	10		1.5					
			14:25	3.4	2.4	21.50	21.50	21.50	8.24	8.24	8.24	31.84	31.84	31.84	86.40	86.40	86.60	6.33	6.33	6.35	10.00	10.00	10.00	8.1	7.7	0.192	0.006	0.006	0.006	1	1	1	1.2	1.2				
			14:27	3.4	2.4	21.50	21.50	21.50	8.24	8.24	8.24	31.84	31.84	31.84	86.60	87.00		6.35	6.37		10.00	10.00		7.3		0.186	0.006	0.006		NOT DETECTED	1	1	1.2					
			12:17	3.6	2.6	20.80	20.80	20.80	8.16	8.16	8.16	31.97	31.97	31.97	83.00	83.00	82.88	6.16	6.16	6.15	9.50	9.50	9.50	8.6	8.5	0.181	0.004	0.004	0.004	NOT DETECTED	1	1	1.7	1.6				
			12:19	3.6	2.6	20.80	20.80		8.16	8.16		31.97	31.97		82.80	82.70		6.15	6.14		9.50	9.50		8.3		0.177	0.004	0.004		1	1							
			07:27	3.1	2.1	21.20	21.20	21.20	7.93	7.93	7.93	32.09	32.09	32.09	87.00	87.00	87.05	6.40	6.40	6.41	11.42	11.42	11.42	9.5	9.4	0.167	0.002	0.002	0.002	NOT DETECTED	1	1	1.9	1.7				
			07:29	3.1	2.1	21.20	21.20		7.93	7.93		32.09	32.09		87.10	87.10		6.41	6.41		11.42	11.42		10.3		0.167	0.002	0.002		NOT DETECTED	1							
		08:14	3.1	2.1	23.00	23.00	23.00	7.98	7.98	7.98	32.09	32.09	32.09	84.30	84.30	84.30	6.02	6.01	6.01	7.22	7.07	7.11	5.8	5.2	0.175	0.003	0.003	0.003	NOT DETECTED	1	1	1.5	1.5					
		08:16	3.1	2.1	23.00	23.00		7.98	7.98		32.09	32.09		84.30	84.30	84.30	6.01	6.01		7.07	7.07		4.6		0.182	0.003	0.003		1	1	1.4							
		09:54	3.1	2.1	23.40	23.40	23.40	8.14	8.14	8.14	31.71	31.71	31.71	84.40	83.90	83.53	5.99	5.93	5.93	3.18	3.17	3.14	3.4	3.3	0.197	0.005	0.005	0.005	NOT DETECTED	1	1	2.2	2.0					
		09:56	3.1	2.1	23.40	23.40		8.14	8.14		31.71	31.71		83.30	82.50		5.91	5.82		3.16	3.03		3.1		0.185	0.004	0.004		NOT DETECTED	1	1	1.7						
		08:49	3.3	2.3	20.70	20.70	20.70	7.47	7.47	7.47	32.62	32.62	32.62	83.40	83.40	83.35	6.17	6.17	6.17	7.37	7.37	7.37	5.0	5.4	0.118	0.010	0.010	0.010	NOT DETECTED	1	1	1.5	1.4					
		08:51	3.3	2.3	20.70	20.70		7.47	7.47		32.62	32.62		83.40	83.60		6.17	6.19		7.37	7.38		5.0		0.120	0.010	0.010		6	6	5	1.4						
		25/3/2021	Fine	15:20	4.5	3.5	22.50	22.50	22.45	8.15	8.05	8.12	32.54	32.54	32.54	88.60	89.30	90.15	6.32	6.40	6.44	8.88	8.80	8.55	6.9	6.9	0.095	0.004	0.001	0.001	NOT DETECTED	1	1	1.4	1.4			
		15:22	4.5	3.5	22.40	22.40		8.14	8.14		32.54	32.54		91.30	91.40		6.51	6.52		8.45	8.45		6.8		0.093	0.001	0.001		NOT DETECTED	1	1	1.3						
		17:05	3.2	2.2	23.80	23.80	23.80	8.29	8.29	8.29	32.61	32.61	32.61	106.20	106.10	106.48	7.44	7.44	7.46	7.48	7.39	7.40	5.1	4.7	<0.010	0.010	<0.010	0.001	NOT DETECTED	1	1	1.7	1.9					
		17:07	3.2	2.2	23.80	23.80		8.29	8.29	8.29	32.61	32.61	32.61	106.80	106.80	106.48	7.48	7.48		7.35	7.39		5.0		<0.001	0.010	<0.001	0.001	NOT DETECTED	1								
		23/3/2021	Fine	18:10	3.4	2.4	25.70	25.70	25.70	8.26	8.26	8.26	32.62	32.62	32.63	102.80	103.10	103.13	6.98	7.00	7.00	5.97	5.99	5.98	3.3	2.8	0.010	0.010	<0.001	0.001	NOT DETECTED	3	3	4	2.0	2.4		
				18:12	3.4	2.4	25.70	25.70		8.26	8.26		32.63	32.63		103.30	103.30		7.01	7.01		5.97	5.96		3.3		<0.001	0.001		5	5	4	2.0					



Lam Environmental Service Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022)

Baseline Water Quality Monitoring at Station SR5 (surface) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TN mg/L		UJA mg/L			E. Coli CFU/100mL			B.O.D mg/L				
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	V	AVG	Value	V	AVG	Value	AVG	
SRS	3/3/2021	Cloudy	14:35	4.2	1.0	20.10	20.10	8.05	8.05	8.05	30.97	30.97	81.50	79.40	79.98	6.17	6.00	6.05	14.50	14.21	14.02	11.4	11.4	0.240	0.004	0.004	0.004	1	1	1.1	1.1	
			14:37	4.2	1.0	20.10	20.10	8.05	8.05	8.05	30.97	30.97	80.20	78.80		6.05	5.96		13.66	13.72		11.4	11.4	0.239	0.004	0.004		4	4			
	5/3/2021	Cloudy	17:30	4.5	1.0	20.60	20.60	8.04	8.04	8.04	31.82	31.82	88.20	88.30	88.25	6.57	6.58	6.58	7.99	8.01	8.02	3.5	3.5	0.154	0.003	0.003	0.003	NOT DETECTED	1	1	1.2	1.3
			17:32	4.5	1.0	20.60	20.60	8.04	8.04	8.04	31.82	31.82	88.40	88.10		6.58	6.57		8.04	8.05		3.5	3.5	0.143	0.002	0.002		NOT DETECTED	1		1.4	
	9/3/2021	Cloudy	09:20	4.7	1.0	20.50	20.50	8.14	8.14	8.14	31.83	31.83	88.40	88.50	88.65	6.60	6.60	6.62	5.05	5.05	5.04	4.2	4.2	0.182	0.004	0.004	0.004	61	61	67	1.3	1.5
			09:22	4.7	1.0	20.50	20.50	8.14	8.14	8.14	31.83	31.83	89.60	89.90		6.63	6.64	6.61	5.05	5.05		4.1	4.1	0.184	0.004	0.004		72	72		1.6	
	11/3/2021	Fine	10:35	5.2	1.0	20.40	20.40	8.15	8.15	8.15	31.82	31.82	86.80	86.80	86.90	6.49	6.49		12.62	12.62	12.62	12.0	11.7	0.230	0.005	0.005	0.005	4	4	4	0.9	1.1
			10:37	5.2	1.0	20.40	20.40	8.15	8.15	8.15	31.82	31.82	87.00	87.00	86.90	6.50	6.51		12.62	12.62		12.0	11.7	0.219	0.004	0.004		3	3		1.2	
	13/3/2021	Fine	17:32	4.7	1.0	21.70	21.70	8.00	8.00	8.00	31.99	31.99	87.70	88.10	88.08	6.41	6.44	6.44	6.94	6.94	6.94	6.1	5.9	0.178	0.002	0.002	0.002	NOT DETECTED	1	1	1.1	1.1
			17:34	4.7	1.0	21.70	21.70	8.00	8.00	8.00	31.99	31.99	88.20	88.30		6.45	6.45		6.94	6.92		6.1	5.9	0.182	0.002	0.002		NOT DETECTED	1		1.0	
	15/3/2021	Fine	14:10	4.3	1.0	22.40	22.40	8.00	8.00	8.00	32.14	32.14	88.00	88.00	88.03	6.33	6.33	6.33	5.22	5.22	5.22	2.9	3.0	0.171	0.002	0.002	0.002	NOT DETECTED	1	1	1.1	1.2
			14:12	4.3	1.0	22.40	22.40	8.00	8.00	8.00	32.14	32.14	88.00	88.10		6.33	6.34		5.22	5.20		3.0	3.0	0.171	0.002	0.002		NOT DETECTED	1		1.2	
	17/3/2021	Fine	14:06	4.0	1.0	24.20	24.20	8.11	8.11	8.11	32.02	32.02	88.00	87.80	88.95	6.13	6.12	6.06	2.67	2.67	2.67	3.0	2.6	0.182	0.004	0.004	0.004	1	1	1	0.2	0.3
			14:08	4.0	1.0	24.20	24.20	8.11	8.11	8.11	32.02	32.02	86.40	85.60	86.95	6.02	5.98		2.67	2.67		2.1	2.1	0.183	0.003	0.003		NOT DETECTED	1		0.3	
	19/3/2021	Fine	16:06	4.8	1.0	23.90	23.90	8.20	8.20	8.20	31.59	31.59	87.10	88.10	88.20	6.13	6.20	6.20	1.87	1.86	1.87	1.5	1.3	0.256	0.008	0.008	0.008	NOT DETECTED	1	1	1.1	1.2
			16:08	4.8	1.0	23.90	23.90	8.20	8.20	8.20	31.59	31.59	88.60	89.00		6.24	6.24		1.86	1.87		1.0	1.0	0.241	0.007	0.007		NOT DETECTED	1		1.2	
	23/3/2021	Fine	20:16	4.6	1.0	20.60	20.60	7.59	7.59	7.59	32.62	32.62	81.90	81.80	81.80	6.07	6.07	6.07	7.44	7.45	7.45	5.5	5.1	0.135	0.001	0.001	0.001	NOT DETECTED	1	1	0.8	0.9
			20:18	4.6	1.0	20.60	20.60	7.59	7.59	7.59	32.62	32.62	81.80	81.70		6.07	6.07		7.46	7.46		4.6	4.6	0.139	<0.001	0.001		NOT DETECTED	1		1.0	
	25/3/2021	Fine	10:25	4.8	1.0	21.80	21.80	8.00	8.00	8.00	32.49	32.49	91.20	90.90	90.73	6.63	6.61	6.60	6.46	6.44	6.44	3.9	4.4	0.114	0.001	0.001	0.001	1	1	1	0.8	
			10:27	4.8	1.0	21.80	21.80	8.00	8.01	8.00	32.53	32.51	90.50	90.30		6.58	6.56		6.33	6.33	6.39	4.8	4.8	0.114	<0.001	0.001		NOT DETECTED	1	1	1.0	0.9
	27/3/2021	Cloudy	11:10	4.1	1.0	22.60	22.60	8.23	8.23	8.23	32.65	32.65	96.60	98.30	98.43	7.05	7.03	7.04	8.74	8.72	8.67	5.1	5.6	0.021	0.002	0.002	0.002	NOT DETECTED	1	1	1.3	1.3
			11:12	4.1	1.0	22.70	22.70	8.23	8.23	8.23	32.65	32.65	98.40	98.40		7.04	7.04		8.61	8.60		6.1	6.1	0.023	0.001	0.001		NOT DETECTED	1		1.3	
	29/3/2021	Fine	10:35	4.6	1.0	23.80	23.80	8.23	8.23	8.23	32.46	32.46	100.30	101.30	101.23	7.03	7.09	7.09	4.55	4.55	4.54	2.2	2.2	0.018	0.015	0.001	0.001	NOT DETECTED	1	1	1.8	1.7
			10:37	4.6	1.0	23.90	23.90	8.23	8.23	8.23	32.77	32.76	101.60	101.70		7.11	7.12		4.51	4.53		2.2	2.2	0.011	0.001	0.001		NOT DETECTED	1		1.6	

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station SR5 (surface) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TN mg/L		UVA		E. Coli CFU/100mL		B.O.D mg/L						
						Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		Value				
						AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	V	AVG	Value	V	AVG	Value	AVG		
SRS	3/3/2021	Cloudy	09:45	6.5	1.0	20.20	20.20	8.15	8.15	8.15	31.65	31.65	88.80	83.30	86.05	6.67	6.26	6.46	9.46	9.49	9.47	13.8	13.4	0.098	0.002	0.002	0.002	NOT DETECTED	1	1	1.7	1.7
			09:47	6.5	1.0	20.20	20.20	8.15	8.15	8.15	31.65	31.65	87.30	84.80		6.56	6.36		9.47	9.46		13.0	13.0	0.100	0.002	0.002		1	1			
	5/3/2021	Cloudy	10:35	4.9	1.0	20.30	20.30	7.96	7.96	7.96	31.86	31.86	77.50	77.70	77.78	5.80	5.82	5.83	9.41	9.39	9.32	3.0	3.1	0.150	0.002	0.002	0.002	NOT DETECTED	1	1	2.0	2.1
			10:37	4.9	1.0	20.30	20.30	7.96	7.96	7.96	31.86	31.86	77.80	78.10		5.83	5.85		9.25	9.23		3.2	3.2	0.155	0.002	0.002		NOT DETECTED	1		2.2	
	9/3/2021	Cloudy	14:15	5.1	1.0	20.20	20.20	8.07	8.07	8.07	31.80	31.80	84.30	84.30	84.28	6.33	6.33	6.33	7.07	7.07	7.03	3.3	3.1	0.181	0.003	0.003	0.003	8	8	11	1.6	1.5
			14:17	5.1	1.0	20.20	20.20	8.07	8.07	8.07	31.80	31.80	84.30	84.20		6.33	6.32	6.33	7.01	6.96		2.8	2.8	0.174	0.003	0.003		13	13		1.2	
			14:33	5.6	1.0	21.30	21.30	8.10	8.10	8.10	31.91	31.91	89.70	89.60	89.60	6.59	6.59	6.59	7.18	7.20	7.19	5.2	5.4	0.197	0.004	0.004		NOT DETECTED	1	1	1.1	1.3
	11/3/2021	Fine	14:35	5.6	1.0	21.30	21.30	8.10	8.10	8.10	31.91	31.91	89.60	89.50	89.60	6.59	6.58	6.59	7.19	7.20	7.19	5.5	5.4	0.195	0.004	0.004	0.004	NOT DETECTED	1	1	1.4	1.4
			12:25	5.1	1.0	20.90	20.90	8.15	8.15	8.15	31.94	31.94	83.50	83.60	83.58	6.18	6.19	6.19	6.89	6.90	6.90	5.1	5.0	0.184	0.003	0.004	0.004	NOT DETECTED	1	1	1.4	1.5
			12:35	5.2	1.0	20.90	20.90	8.15	8.15	8.15	31.94	31.94	83.60	83.60	83.60	6.19	6.20	6.20	6.90	6.90	6.90	4.8	4.8	0.182	0.003	0.004		NOT DETECTED	1	1	1.5	1.5
	15/3/2021	Fine	07:35	5.2	1.0	21.30	21.30	7.90	7.90	7.90	32.10	32.10	88.70	88.60	88.60	6.52	6.52	6.51	8.04	8.05	8.06	7.0	7.1	0.176	0.002	0.002	0.002	NOT DETECTED	1	1	1.8	1.8
			07:37	5.2	1.0	21.30	21.30	7.90	7.90	7.90	32.10	32.10	88.60	88.50	88.60	6.52	6.51	6.51	8.05	8.06	8.06	7.1	7.1	0.176	0.002	0.002		NOT DETECTED	1	1	1.8	1.8
	17/3/2021	Fine	08:23	4.3	1.0	23.00	23.00	7.98	7.98	7.98	32.10	32.10	89.40	89.10	88.63	6.37	6.35	6.32	3.20	3.18	3.18	3.6	3.1	0.182	0.003	0.003	0.003	NOT DETECTED	1	1	1.1	1.2
			08:25	4.3	1.0	23.00	23.00	7.98	7.98	7.98	32.10	32.10	88.20	87.80		6.29	6.26	6.32	3.17	3.17	3.18	3.6	3.1	0.184	0.003	0.003		NOT DETECTED	1		1.2	
	19/3/2021	Fine	09:38	5.2	1.0	23.10	23.10	8.16	8.16	8.16	31.69	31.69	88.10	88.30	88.33	6.29	6.30	6.31	3.29	3.30	3.30	1.3	1.4	0.232	0.005	0.005	0.006	NOT DETECTED	1	1	1.5	1.5
			09:40	5.2	1.0	23.10	23.10	8.16	8.16	8.16	31.69	31.69	88.40	88.50		6.31	6.32		3.30	3.30		1.5	1.5	0.244	0.006	0.006		NOT DETECTED	1		1.5	
	23/3/2021	Fine	10:33	4.0	1.0	20.60	20.60	7.54	7.54	7.54	32.65	32.65	91.40	91.40	91.38	6.04	6.04	6.04	9.14	9.14	9.14	6.1	6.6	0.141	0.001	0.001		NOT DETECTED	1	1	1.2	1.2
			10:35	4.0	1.0	20.60	20.60	7.54	7.54	7.54	32.65	32.65	91.40	91.30	91.38	6.04	6.03	6.04	9.49	9.49	9.50	6.1	6.6	0.141	0.001	0.001		NOT DETECTED	1		1.2	
25/3/2021	Fine	15:00	5.0	1.0	22.50	22.50	8.25	8.25	8.25	32.45	32.45	92.50	89.30	90.30	6.32	6.40	6.44	5.14	5.14	5.15	3.8	3.3	0.111	0.010	<0.001	0.001	0.001	NOT DETECTED	1	1	1.4	1.4
		15:22	5.0	1.0	22.40	22.40	8.24	8.14	8.14	32.54	32.54	91.90	91.40		6.51	6.52		5.15	5.16		2.8	2.8	0.102	<0.001	0.001		NOT DETECTED	1		1.4		
27/3/2021	Cloudy	17:10	4.2	1.0	23.80	23.80	8.22	8.22	8.22	32.67	32.67	101.10	101.00	100.75	7.44	7.44	7.24	7.48	7.39	8.43	5.5	5.1	0.031	0.001	<0.001	0.001	NOT DETECTED	1	1	1.7	1.8	
		17:12	4.2	1.0	23.80	23.80	8.22	8.22	8.22	32.67	32.67	100.50	100.40		7.04	7.03		7.47	7.47		5.5	5.1	0.031	<0.001	0.001		NOT DETECTED	1		1.7		
29/3/2021	Fine	18:15	4.6	1.0	24.30	24.30	8.25	8.25	8.25	32.82	32.82	94.80	94.70	93.95	6.58	6.53	6.51	8.35	8.35	8.31	5.2	5.6	0.019	<0.001	0.001	0.001	NOT DETECTED	1	1	1.8	1.9	
		18:17	4.6	1.0	24.30	24.30	8.25	8.25	8.25	32.83	32.83	93.20	93.10		6.47	6.46		8.26	8.28		6.0	5.6	0.014	<0.001	0.001		NOT DETECTED	1	1	1.9	1.9	



Lam Environmental Service Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022)

Baseline Water Quality Monitoring at Station SR5 (Middle) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UIA mg/L			E. Coli CFU/100mL			B.O.D mg/L	
						Value		Value		Value		Value		Value		Value		Value		Value		Value	V	AVG	Value	V	AVG	Value	AVG
						20.10	20.10	8.06	8.06	30.90	30.90	79.80	85.40	6.04	6.48	11.07	11.10	10.6	10.7	0.227	0.224	0.003	0.003	0.003	1	1	3	1.3	1.2
SR5	3/3/2021	Cloudy	14:40	4.2	2.1	20.10	20.10	20.10	8.06	8.06	30.90	30.90	84.20	6.56	6.45	6.38	11.06	11.09	10.8	10.7	0.220	0.224	0.003	0.003	0.003	4	4	1.1	1.2
	5/3/2021	Cloudy																											
	9/3/2021	Cloudy																											
	11/3/2021	Fine																											
	13/3/2021	Fine																											
	15/3/2021	Fine																											
	17/3/2021	Fine																											
	19/3/2021	Fine																											
	23/3/2021	Fine																											
	25/3/2021	Fine																											
	27/3/2021	Cloudy																											
	29/3/2021	Fine																											

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station SR5 (Middle) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UIA mg/L			E. Coli CFU/100mL			B.O.D mg/L	
						Value		Value		Value		Value		Value		Value		Value		Value		Value	V	AVG	Value	V	AVG	Value	AVG
						20.20	20.20	8.17	8.17	31.78	31.78	86.50	85.60	6.49	6.50	8.58	8.56	9.1	9.3	0.100	0.098	0.002	0.002	0.002	1	1	1	1.7	1.9
SR5	3/3/2021	Cloudy	09:50	6.5	3.3	20.20	20.20	20.20	8.17	8.17	31.78	31.78	86.85	6.60	6.58	6.54	8.55	8.56	8.56	9.4	0.095	0.098	0.002	0.002	0.002	1	1	2.0	1.9
	5/3/2021	Cloudy	09:52	6.5	3.3	20.20	20.20	20.20	8.17	8.17	31.78	31.78	87.80	6.60	6.58	6.54	8.55	8.56	8.56	9.4	0.095	0.098	0.002	0.002	0.002	1	1	2.0	1.9
	9/3/2021	Cloudy																											
	11/3/2021	Fine																											
	13/3/2021	Fine																											
	15/3/2021	Fine																											
	17/3/2021	Fine																											
	19/3/2021	Fine																											
	23/3/2021	Fine																											
	25/3/2021	Fine																											
	27/3/2021	Cloudy																											
	29/3/2021	Fine																											

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.



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Baseline Water Quality Monitoring at Station SR5 (Bottom) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth		Sampling Depth	Temperature			pH			Salinity			DO Saturation			DO			Turbidity			SS			TIN			UJA			E Coli			B.O.D		
				m	ft		°C				ppt		%		mg/L		NTU		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L				
							Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	
SR5	3/3/2021	Cloudy	14:45	4.2	3.2	20.00	20.00	20.00	8.03	8.03	8.03	31.11	31.11	31.11	80.80	81.30	80.50	6.12	6.15	6.07	9.90	9.87	9.92	6.8	7.1	0.207	0.212	0.002	0.002	0.002	1	1	3	1.4	1.2				
			14:47	4.2	3.2	20.00	20.00		8.03	8.03		31.11	31.11		80.20	79.70		6.04	5.98		9.96	9.95		7.3		0.216		0.002	0.002		4	4		1.0					
			17:35	4.5	3.5	20.60	20.60	20.60	8.07	8.07	8.07	31.84	31.84	31.84	84.10	84.20	84.43	6.27	6.28	6.30	5.86	5.81	5.83	3.2	3.4	0.141	0.141	0.003	0.003	0.003	1	1	1	1.4	1.4				
	5/3/2021	Cloudy	17:37	4.5	3.5	20.60	20.60		8.07	8.07		31.84	31.84		84.70	84.70		6.32	6.32		5.82	5.82		3.6		0.140		0.003	0.003		NOT DETECTED	1	1	1.3					
			09:25	4.7	3.7	20.60	20.60		8.15	8.15		31.82	31.82	31.82	85.60	85.60	85.60	6.38	6.38	6.38	4.69	4.69	4.69	5.3	5.0	0.178	0.191	0.004	0.004	0.004	11	11	12	1.3	1.4				
	9/3/2021		09:27	4.7	3.7	20.60	20.60		8.15	8.15		31.82	31.82	31.82	85.60	85.60	85.60	6.39	6.38	6.37	4.69	4.69	4.69	4.7		0.203		0.004	0.004		13	13		1.4					
			10:40	5.2	4.2	20.40	20.40		8.18	8.18		31.80	31.80	31.80	86.60	86.40		7.13	7.11		9.07	9.09		8.0	7.7	0.219	0.216	0.005	0.005	0.005	4	2	3	1.2	1.3				
	11/3/2021	Fine	10:42	5.2	4.2	20.40	20.40	20.40	8.18	8.18	8.18	31.80	31.80	31.80	86.00	85.70	86.18	7.07	7.06	7.09	9.11	9.05	9.08	7.3	6.0	0.184	0.216	0.005	0.005	0.005	2	2	3	1.2	1.3				
	13/3/2021	Fine	17:36	4.7	3.7	21.60	21.60	21.60	8.09	8.09	8.09	31.96	31.96	31.96	83.80	83.80	83.83	6.13	6.14	6.14	6.72	6.72	6.72	6.5	6.1	0.182	0.183	0.003	0.003	0.003	NOT DETECTED	1	1	1.1	1.1				
			17:38	4.7	3.7	21.60	21.60		8.09	8.09		31.96	31.96		83.80	83.90		6.14	6.14		6.71	6.71		5.7		0.182		0.003	0.003		1	1	1	1.0					
	15/3/2021	Fine	14:14	4.3	3.3	22.60	22.60	22.60	8.01	8.01	8.01	32.10	32.10	32.10	90.00	89.90	89.90	6.46	6.46	6.46	5.46	5.45	5.45	3.6	3.7	0.180	0.178	0.003	0.003	0.003	NOT DETECTED	1	1	1.1	1.0				
			14:16	4.3	3.3	22.60	22.60		8.01	8.01		32.10	32.10		89.90	89.80	89.90	6.45	6.45		5.45	5.45		3.8		0.176		0.003	0.003		NOT DETECTED	1	1	0.9					
17/3/2021	Fine	14:10	4.0	3.0	23.70	23.70	23.70	8.10	8.10	8.10	32.09	32.09	32.09	86.50	86.30	86.65	6.02	6.00	6.03	3.15	3.15	3.15	2.2	1.7	0.172	0.172	0.004	0.004	0.004	NOT DETECTED	1	1	0.9	0.8					
		14:12	4.0	3.0	23.70	23.70		8.10	8.10		32.09	32.09		86.90	86.90		6.04	6.05		3.15	3.15		1.2		0.172		0.003	0.003		NOT DETECTED	1	1	0.6						
19/3/2021	Fine	16:10	4.8	3.8	23.70	23.70	23.70	8.20	8.20	8.20	31.56	31.56	31.56	81.60	81.30	81.48	5.76	5.74	5.75	2.19	2.18	2.17	1.8	1.5	0.230	0.239	0.006	0.006	0.006	NOT DETECTED	1	1	1.0	1.1					
		16:12	4.8	3.8	23.70	23.70		8.20	8.20		31.56	31.56		81.20	81.80		5.73	5.78		2.17	2.15		1.1		0.247		0.006	0.006		NOT DETECTED	1	1	1.2						
23/3/2021	Fine	20:20	4.6	3.6	21.20	21.20	21.20	7.58	7.58	7.58	32.60	32.60	32.60	83.30	83.20	83.15	6.11	6.10	6.10	7.48	7.47	7.47	6.6	6.0	0.126	0.124	<0.001	0.001	0.001	NOT DETECTED	1	1	1.0	1.0					
		20:22	4.6	3.6	21.20	21.20		7.58	7.58		32.60	32.60		83.10	83.00	83.15	6.09	6.09		7.47	7.47	7.47	5.6		0.122		<0.001	0.001		NOT DETECTED	1	1	1.0						
25/3/2021	Fine	10:30	4.8	3.8	21.80	21.80	21.80	8.06	8.06	8.06	32.50	32.51	40.01	81.70	81.50	80.90	5.94	5.93	5.88	5.69	5.55	5.57	4.6	4.1	0.120	0.117	<0.001	0.001	0.001	1	1	1	0.9	0.9					
		10:32	4.8	3.8	21.80	21.80		8.05	8.05		32.52	32.52		80.40	80.00		5.85	5.81		5.55	5.47		3.6		0.114		<0.001	0.001		NOT DETECTED	1	1	0.9						
27/3/2021	Cloudy	11:15	4.1	3.1	22.70	22.70	22.70	8.23	8.23	8.23	32.63	32.63	32.63	93.30	94.50	94.43	6.66	6.75	6.75	9.53	9.65	9.54	4.6	4.8	0.043	0.040	<0.001	0.001	0.001	NOT DETECTED	1	1	1.4	1.6					
		11:17	4.1	3.1	22.70	22.70		8.23	8.23		32.63	32.63		94.80	95.10		6.78	6.79		9.48	9.49		5.0		0.036		<0.001	0.001		NOT DETECTED	1	1	1.8						
29/3/2021	Fine	10:40	4.6	3.6	23.30	23.30	23.30	8.22	8.22	8.22	32.91	32.91	32.91	82.50	82.40	82.70	5.83	5.82	5.84	10.55	10.54	10.49	5.4	6.0	0.015	0.016	<0.001	0.001	0.001	1	1	1	1.4	1.3					
		10:42	4.6	3.6	23.30	23.30		8.22	8.22		32.91	32.91		82.60	83.10		5.85	5.87		10.34	10.54		6.5		0.017		<0.001	0.001		NOT DETECTED	1	1	1.2						

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station SR5 (Bottom) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth		Sampling Depth	Temperature °C		pH -	Salinity ppt	DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UJA		E Coli CFU/100mL		B.O.D mg/L										
				m	m		Value	AVG			Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	V	AVG	Value	V	AVG	Value	V	AVG	Value	V	AVG					
				m	m		Value	AVG			Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG					
				m	m		Value	AVG			Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG					
SR5	3/3/2021	Cloudy	09:56	6.5	5.5	20.10	20.10	20.10	8.12	8.12	8.12	31.91	31.91	31.91	92.70	92.50	92.10	6.98	6.95	6.93	9.80	9.83	9.87	10.2	11.0	0.106	0.105	0.002	0.002	0.002	1	1	1	1.3	1.3
			09:58	6.5	5.5	20.10	20.10		8.12	8.12		31.91	31.91		91.40	91.80		6.88	6.90		9.94	9.91		11.8		0.102		0.002	0.002		1	1		1.3	
	5/3/2021		10:40	4.9	3.9	20.30	20.30	20.30	7.98	7.98	7.98	31.84	31.84	31.84	78.80	78.70	78.75	5.91	5.90	5.90	9.41	9.39	9.32	3.3	3.4	0.135	0.140	0.002	0.002	0.002	NOT DETECTED	1	1	1.6	1.6
			10:42	4.9	3.9	20.30	20.30		7.98	7.98		31.84	31.84		78.80	78.70		5.90	5.90		9.25	9.23		3.5		0.144		0.002	0.002		1	1		1.6	
	9/3/2021	Cloudy	14:20	5.1	4.1	20.30	20.30	20.30	8.09	8.09	8.09	31.81	31.81	31.81	81.90	81.90	81.88	6.14	6.14	6.14	6.84	6.84	6.84	3.4	3.4	0.180	0.182	0.003	0.003	0.003	15	15	11	1.1	1.2
			14:22	5.1	4.1	20.30	20.30		8.09	8.09		31.81	31.81		81.90	81.80	81.88	6.14	6.13	6.14	6.84	6.84	6.84	3.4	3.4	0.183	0.182	0.003	0.003		7	7		1.3	
			14:37	5.6	4.6	21.20	21.20	21.20	8.20	8.20	8.20	31.88	31.88	31.88	81.90	81.80	81.88	6.14	6.13	6.14	6.84	6.84	6.84	3.4	3.4	0.183	0.182	0.003	0.003		7	7		1.3	
	11/3/2021	Fine	14:40	5.6	4.6	21.20	21.20	21.20	8.20	8.20	8.20	31.88	31.88	31.88	81.90	81.80	81.88	6.14	6.13	6.14	6.84	6.84	6.84	3.4	3.4	0.183	0.182	0.003	0.003		7	7		1.3	
	13/3/2021	Fine	12:29	5.1	4.1	20.90	20.90	20.90	8.16	8.16	8.16	31.98	31.98	31.98	82.20	82.20	82.13	6.09	6.08	6.08	6.95	6.95	6.95	6.0	5.5	0.208	0.201	0.005	0.005	0.005	NOT DETECTED	1	1	1.2	1.1
			12:31	5.1	4.1	20.90	20.90	20.90	8.16	8.16	8.16	31.98	31.98	31.98	82.20	82.20	82.13	6.09	6.08	6.08	6.95	6.95	6.95	6.0	5.5	0.175	0.182	0.004	0.004	0.004	NOT DETECTED	1	1	1.6	1.5
			12:33	5.1	4.1	20.90	20.90		8.16	8.16		31.98	31.98		82.20	82.10		6.08	6.08		6.95	6.95		6.0		0.175		0.004	0.004		NOT DETECTED	1	1	1.3	
	15/3/2021	Fine	07:39	5.2	4.2	21.40	21.40	21.40	7.91	7.91	7.91	32.10	32.10	32.10	85.40	85.30	85.20	6.27	6.26	6.26	9.10	9.03	9.08	6.4	6.3	0.168	0.168	0.002	0.002	0.002	NOT DETECTED	1	1	1.4	1.4
			07:42	5.2	4.2	21.40	21.40		7.91	7.91		32.10	32.10		85.40	85.30	85.20	6.27	6.26	6.24	9.10	9.03	9.08	6.4	6.3	0.168	0.168	0.002	0.002		NOT DETECTED	1	1	1.4	
			07:43	5.2	4.2	21.40	21.40		7.91	7.91		32.10	32.10		85.40	85.30	85.20	6.27	6.26	6.24	9.10	9.03	9.08	6.4	6.3	0.168	0.168	0.002	0.002		NOT DETECTED	1	1	1.4	
	17/3/2021	Fine	08:27	4.3	3.3	23.10	23.10	23.10	8.00	8.00	8.00	32.09	32.09	32.09	84.90	84.80	84.80	6.05	6.04	6.03	2.90	2.89	2.89	3.4	3.2	0.185	0.186	0.003	0.003	0.003	NOT DETECTED	1	1	1.7	1.5
			08:29	4.3	3.3	23.10	23.10	23.10	8.00	8.00	8.00	32.09	32.09	32.09	84.70	84.50	84.50	6.03	6.03	6.01	2.89	2.88	2.89	3.4	3.2	0.185	0.186	0.003	0.003	0.003	NOT DETECTED	1	1	1.2	1.5
19/3/2021	Fine	09:42	5.2	4.2	23.10	23.10	23.10	8.18	8.18	8.18	31.67	31.67	31.67	86.70	86.80	86.83	6.19	6.20	6.20	3.21	3.20	3.20	1.6	1.3	0.242	0.240	0.008	0.008	0.006	NOT DETECTED	1	1	1.6	1.7	
		09:44	5.2	4.2	23.10	23.10	23.10	8.18	8.18	8.18	31.67	31.67	31.67	86.90	86.80	86.83	6.20	6.20	6.20	3.19	3.18	3.18	1.0	1.0	0.238	0.238	0.008	0.008		NOT DETECTED	1	1	1.6		
		08:37	4.10	3.0	21.50	21.50	21.50	7.50	7.50	7.50	32.59	32.59	32.59	89.70	89.70	89.70	6.32	6.27	6.27	9.51	9.51	9.51	6.9	6.9	0.138	0.136	0.001	0.001	0.001	NOT DETECTED	1	1	1.5	1.5	
23/3/2021	Fine	08:39	4.0	3.0	21.10	21.10	21.10	7.50	7.50	7.50	32.59	32.59	32.59	85.90	85.30	85.30	6.32	6.27	6.27	9.51	9.51	9.51	6.9	6.9	0.133	0.136	0.001	0.001	0.001	NOT DETECTED	1	1	1.2	1.4	
25/3/2021	Fine	15:05	5.0	4.0	22.40	22.40	22.40	8.10	8.10	8.10	32.44	32.44	32.44	91.80	91.50	91.60	6.59	6.58	6.58	4.59	4.50	4.54	2.4	2.8	0.100	0.100	0.001	0.001	0.001	NOT DETECTED	1	1	1.4	1.4	
		15:07	5.0	4.0	22.40	22.40	22.40	8.10	8.10	8.10	32.44	32.44	32.44	91.60	91.50	91.60	6.59	6.58	6.58	4.53	4.53	4.54	2.8	2.8	0.099	0.099	0.001	0.001	0.001	NOT DETECTED	1	1	1.1	1.3	
27/3/2021	Cloudy	17:17	4.2	3.2	23.50	23.50	23.50	8.20	8.20	8.20	32.60	32.60	32.62	93.40	93.80	94.03	6.58	6.60	6.62	6.85	6.84	6.81	3.3	3.8	0.064	0.065	0.001	0.001	0.001	NOT DETECTED	1	1	1.3	1.3	
		17:17	4.2	3.2	23.50	23.50	23.50	8.20	8.20	8.20	32.63	32.63	32.63	94.30	94.60	94.60	6.64	6.66	6.66	6.84	6.72	6.72	4.3	4.3	0.065	0.065	0.001	0.001	0.001	NOT DETECTED	1	1	1.2		
		18:20	4.6	3.6	24.20	24.20	24.20	8.23	8.23	8.23	32.81	32.81	32.81	94.40	94.40	94.40	6.64	6.64	6.64	7.48	7.46	7.44	3.7	4.1	0.026	0.026	0.001	0.001	0.001	NOT DETECTED	1	1	1.3		
29/3/2021	Fine	18:22	4.6	3.6	24.20	24.20	24.20	8.23	8.23	8.23	32.81	32.81	32.81	90.90	91.30	91.30	6.32	6.34	6.34	7.44	7.42	7.44	3.7	4.1	0.019	0.019	0.001	0.001	0.001	NOT DETECTED	1	1	1.6	1.5	



Baseline Water Quality Monitoring at Station SR6 (surface) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C			pH -			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			SS mg/L		TIN mg/L		UIA mg/L			E Coli CFU/100mL			B.O.D mg/L												
						Value	20.20	20.20	20.20	Value	8.14	8.14	8.14	Value	31.79	31.79	31.79	Value	84.60	83.60	84.08	Value	6.35	6.28	6.31	Value	15.12	15.11	15.11	Value	26.0	20.8	Value	0.110	0.106	Value	0.002	0.002	0.002	Value	1	1	3	Value	1.3	1.3
SR6	3/3/2021	Cloudy	10:05	3.3	1.0	20.20	20.20	20.20	8.14	8.14	8.14	31.79	31.79	31.79	84.60	83.60	84.08	6.35	6.28	6.31	15.12	15.11	15.11	26.0	20.8	0.110	0.106	0.002	0.002	0.002	1	1	3	1.3	1.3											
	5/3/2021	Cloudy																																												
	9/3/2021	Cloudy																																												
	11/3/2021	Fine																																												
	13/3/2021	Fine																																												
	15/3/2021	Fine																																												
	17/3/2021	Fine																																												
	19/3/2021	Fine																																												
	23/3/2021	Fine																																												
	25/3/2021	Fine																																												
	27/3/2021	Cloudy																																												
29/3/2021	Fine																																													

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Water samples were collected in middle layer.



Lam Environmental Service Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022).

Baseline Water Quality Monitoring at Station SR6 (Middle) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C			pH			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			SS mg/L			TIN mg/L			UJA mg/L			E. Coli CFU/100mL			B.O.D mg/L		
						Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	
SR6	3/3/2021	Cloudy	14:52	1.9	1.0	20.00	20.00	20.00	8.02	8.02	8.02	31.12	31.12	31.12	77.50	76.90	77.15	5.86	5.82	5.84	11.41	11.43	11.42	5.2	8.0	0.227	0.003	0.003	0.004	NOT DETECTED	1	2	1.2	1.2				
			14:55	1.9	1.0	20.00	20.00		8.02	8.02		31.12	31.12		77.00	77.20		5.83	5.85		11.42	11.41		10.7		0.247	0.004	0.004		3	3	1.2						
	5/3/2021	Cloudy	17:45	1.6	0.8	20.50	20.50	20.50	8.06	8.06	8.06	31.91	31.91	31.91	82.20	82.40	82.48	6.14	6.15	6.16	9.54	9.70	9.73	9.5	9.1	0.148	0.003	0.003	0.003	NOT DETECTED	1	1	0.6	0.7				
			17:47	1.6	0.8	20.50	20.50		8.06	8.06		31.91	31.91		82.60	82.70		6.17	6.19		9.89	9.79		9.6		0.151	0.003	0.003		1	1	0.8						
	9/3/2021	Cloudy	09:35	1.9	1.0	20.90	20.90	20.90	8.11	8.11	8.11	31.83	31.83	31.83	86.80	86.80	86.80	6.43	6.43	6.43	6.91	6.92	6.96	10.0	10.6	0.214	0.005	0.005	0.005	120	120	106	1.1	1.3				
			09:37	1.9	1.0	20.90	20.90		8.11	8.11		31.83	31.83		86.80	86.80		6.43	6.43		7.01	7.01		11.2		0.215	0.005	0.005		92	92	1.4						
	11/3/2021	Fine	10:48	1.9	1.0	20.50	20.50	20.50	8.17	8.17	8.17	31.61	31.61	31.61	84.70	84.70	84.55	6.33	6.34	6.32	13.65	13.65	13.65	10.2	10.9	0.213	0.005	0.005	0.006	NOT DETECTED	1	1	1.1	1.1				
			10:50	1.9	1.0	20.50	20.50		8.17	8.17		31.61	31.61		84.40	84.40		6.31	6.31		13.65	13.65		11.5		0.234	0.006	0.006		NOT DETECTED	1	1	1.1					
	13/3/2021	Fine	17:45	1.6	0.8	21.70	21.70	21.70	8.09	8.09	8.09	31.98	31.98	31.98	84.60	85.60	85.90	6.18	6.25	6.28	6.47	6.49	6.52	5.8	6.3	0.158	0.003	0.003	0.003	NOT DETECTED	1	1	1.1	1.1				
			17:47	1.6	0.8	21.70	21.70		8.09	8.09		31.98	31.98		86.70	86.70		6.34	6.34		6.56	6.56		6.8		0.165	0.003	0.003		NOT DETECTED	1	1	1.1					
	15/3/2021	Fine	14:18	1.4	0.7	22.70	22.70	22.70	8.01	8.01	8.01	32.15	32.15	32.15	93.10	92.70	92.63	6.67	6.64	6.64	5.56	5.56	5.56	4.5	4.6	0.160	0.003	0.003	0.003	NOT DETECTED	1	1	1.0	1.1				
			14:20	1.4	0.7	22.70	22.70		8.01	8.01		32.15	32.15		92.60	92.10		6.63	6.60		5.56	5.57		4.7		0.160	0.003	0.003		NOT DETECTED	1	1	1.2					
	17/3/2021	Fine	14:18	1.6	0.8	24.80	24.80	24.80	8.11	8.11	8.11	32.08	32.08	32.08	86.40	86.40	86.35	5.97	5.97	5.97	4.03	4.04	4.04	2.8	2.5	0.157	0.004	0.004	0.004	NOT DETECTED	1	1	0.8	0.9				
			14:20	1.6	0.8	24.80	24.80		8.11	8.11		32.08	32.08		86.30	86.30		5.96	5.96		4.04	4.03		2.2		0.165	0.004	0.004		NOT DETECTED	1	1	1.0					
	19/3/2021	Fine	15:58	1.5	0.8	24.30	24.30	24.30	8.21	8.21	8.21	31.73	31.73	31.73	82.60	81.30	81.80	5.78	5.68	5.72	3.62	3.64	3.64	2.4	2.3	0.214	0.006	0.006	0.006	NOT DETECTED	1	1	1.2	1.2				
			16:00	1.5	0.8	24.30	24.30		8.21	8.21		31.73	31.73		81.10	82.20		5.67	5.74		3.65	3.64		2.2		0.220	0.006	0.006		NOT DETECTED	1	1	1.2					
	23/3/2021	Fine	20:10	1.2	0.6	20.70	20.70	20.70	7.58	7.58	7.58	32.68	32.68	32.68	76.50	76.40	76.38	5.67	5.66	5.66	10.90	10.90	10.90	9.4	9.8	0.154	<0.001	0.001	0.001	23	23	25	1.0	1.0				
			20:12	1.2	0.6	20.70	20.70		7.58	7.58		32.68	32.68		76.30	76.30		5.65	5.65		10.90	10.90		10.1		0.156	<0.001	0.001		26	26	1.0						
	25/3/2021	Fine	10:15	1.1	0.6	21.80	21.80	21.80	8.05	8.05	8.05	32.45	32.46	32.46	76.40	76.40	76.25	5.56	5.55	5.55	11.24	11.29	11.27	10.6	10.5	0.116	0.002	0.002	0.002	1	1	0.7	0.9					
			10:17	1.1	0.6	21.80	21.80		8.05	8.05		32.46	32.46		76.10	76.10		5.54	5.54		11.28	11.26		10.3		0.124	0.002	0.002		1	1	1.0						
	27/3/2021	Cloudy	11:00	1.9	1.0	22.70	22.70	22.70	8.18	8.18	8.18	32.61	32.61	32.61	94.10	94.50	94.40	6.73	6.75	6.75	9.60	9.61	9.62	6.0	5.7	0.029	<0.001	0.001	0.001	NOT DETECTED	1	1	1.4	1.4				
			11:02	1.9	1.0	22.70	22.70		8.18	8.18		32.61	32.61		94.50	94.50		6.76	6.76		9.57	9.69		6.0		0.033	<0.001	0.001		NOT DETECTED	1	1	1.4					
	29/3/2021	Fine	10:50	1.2	0.6	24.00	24.00	24.00	8.21	8.21	8.21	32.77	32.77	32.77	90.80	92.00	91.93	6.33	6.39	6.40	9.14	9.16	9.11	4.0	3.7	0.011	<0.001	0.001	0.001	1	1	1.5	1.5					
			10:52	1.2	0.6	24.00	24.00		8.21	8.21		32.76	32.76		92.50	92.40		6.45	6.44		9.09	9.05	9.11	3.4	3.7	0.014	<0.001	0.001		NOT DETECTED	1	1	1.5					

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station SR6 (Middle) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature		pH		Salinity		DO Saturation		DO		Turbidity		SS		TIN		UJA		E. Coli		B.O.D								
						°C				ppt		%		mg/L		NTU		mg/L		mg/L		mg/L		mg/L		CFU/100mL		mg/L						
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG			
						Water samples were collected in surface and middle layer.																												
SR6	3/3/2021	Cloudy																																
	5/3/2021	Cloudy	10:55	2.0	1.0	20.30	20.30	20.30	7.95	7.95	7.95	31.91	31.91	31.91	76.90	77.10	77.18	5.76	5.78	5.78	12.61	12.61	12.51	10.5	10.4	0.196	0.003	0.003	0.003	NOT DETECTED	1	1	1.4	1.4
			10:57	2.0	1.0	20.30	20.30		7.95	7.95		31.91	31.91		77.40	77.30		5.79	5.79		12.46	12.34		10.3		0.190	0.003	0.003		NOT DETECTED	1	1	1.3	
	9/3/2021	Cloudy	14:28	2.2	1.1	20.20	20.20	20.20	8.06	8.06	8.06	31.80	31.80	31.80	79.40	79.30	79.38	5.96	5.96	5.96	13.08	13.20	13.15	4.2	4.7	0.183	0.003	0.003	0.003	31	31	31	1.1	1.2
			14:30	2.2	1.1	20.20	20.20		8.06	8.06		31.80	31.80		79.40	79.40		5.96	5.96		13.18	13.14		5.1		0.190	0.003	0.003		30	30	1.3		
	11/3/2021	Fine	14:45	2.3	1.2	21.40	21.40	21.40	8.19	8.19	8.19	31.88	31.88	31.88	86.60	86.70	86.60	6.37	6.37	6.37	9.75	9.75	9.75	7.4	7.1	0.200	0.005	0.005	0.005	NOT DETECTED	1	1	1.1	1.1
			14:47	2.3	1.2	21.40	21.40	21.40	8.19	8.19	8.19	31.88	31.88	31.88	86.60	86.50	86.60	6.36	6.36	6.37	9.75	9.76	9.75	6.8	7.1	0.203	0.005	0.005	0.005	NOT DETECTED	1	1	1.0	
	13/3/2021	Fine	12:35	2.0	1.0	20.90	20.90	20.90	8.15	8.15	8.15	26.70	26.70	26.70	85.30	85.00	85.18	6.74	6.70	6.72	7.49	7.40	7.41	5.6	5.7	0.169	0.004	0.004	0.004	NOT DETECTED	1	1	1.2	1.3
			12:37	2.0	1.0	20.90	20.90		8.15	8.15		26.70	26.70		85.10	85.30		6.71	6.73	6.73	7.35	7.40	7.40	5.7	5.7	0.180	0.004	0.004	0.004	NOT DETECTED	1	1	1.0	
	15/3/2021	Fine	07:48	2.1	1.0	21.40	21.40	21.40	7.90	7.90	7.90	32.09	32.09	32.09	89.30	89.40	89.30	6.55	6.56	6.56	9.89	9.72	9.64	8.8	8.7	0.002	0.002	0.002	0.002	NOT DETECTED	1	1	1.9	1.7
			07:50	2.1	1.0	21.40	21.40	21.40	7.90	7.90	7.90	32.09	32.09	32.09	89.30	89.20	89.30	6.55	6.56	6.56	9.89	9.53	9.56	8.8	8.7	0.166	0.002	0.002	0.002	NOT DETECTED	1	1	1.6	
	17/3/2021	Fine	08:35	1.9	1.0	22.80	22.80	22.80	8.01	8.01	8.01	32.08	32.08	32.08	86.40	86.50	86.48	6.18	6.19	6.19	5.32	5.32	5.33	3.6	3.5	0.161	0.003	0.003	0.003	NOT DETECTED	1	1	1.4	1.3
			08:37	1.9	1.0	22.80	22.80	22.80	8.01	8.01	8.01	32.08	32.08	32.08	86.50	86.50	86.48	6.19	6.19	6.19	5.32	5.34	5.33	3.6	3.5	0.164	0.003	0.003	0.003	NOT DETECTED	1	1	1.2	
	19/3/2021	Fine	09:30	1.9	1.0	23.30	23.30	23.30	8.17	8.17	8.17	31.80	31.80	31.80	84.30	85.30	85.40	5.98	6.06	6.07	3.43	3.43	3.43	1.7	2.1	0.221	0.006	0.006	0.006	NOT DETECTED	1	1	1.2	1.2
			09:32	1.9	1.0	23.30	23.30	23.30	8.17	8.17	8.17	31.80	31.80	31.80	85.80	86.20	86.10	6.10	6.12	6.12	3.43	3.43	3.43	2.4	2.4	0.225	0.006	0.006	0.006	NOT DETECTED	1	1	1.1	
	23/3/2021	Fine	08:26	1.7	0.9	20.90	20.90	20.90	7.44	7.44	7.44	32.61	32.61	32.61	80.80	81.40	81.40	6.03	6.07	6.07	7.48	10.56	10.40	8.5	8.96	0.127	0.001	0.001	0.001	6	6	6	1.4	1.5
08:28			1.7	0.9	20.90	20.90	20.90	7.44	7.44	7.44	32.61	32.61	32.61	81.80	81.90	81.48	6.03	6.04	6.04	10.54	10.54	10.54	8.0	8.3	0.138	0.013	<0.001	0.001	0.001	6	6	1.4		
25/3/2021	Fine	14:55	1.4	0.7	22.50	22.50	22.50	8.11	8.11	8.11	32.64	32.64	32.64	91.70	91.90	91.53	6.57	6.57	6.57	8.45	8.45	8.45	7.2	6.8	0.112	0.011	0.001	0.001	0.001	1	1	1.1	1.0	
		14:57	1.4	0.7	22.50	22.50	22.50	8.11	8.11	8.11	32.64	32.64	32.64	91.40	91.50	91.53	6.55	6.56	6.56	8.45	8.44	8.45	6.0	6.0	0.118	0.011	0.001	0.001	NOT DETECTED	1	1	0.9		
27/3/2021	Cloudy	17:22	1.4	0.7	24.00	24.00	24.00	8.26	8.26	8.26	32.61	32.61	32.61	102.80	102.80	103.08	7.17	7.17	7.17	8.59	8.55	8.54	5.2	4.6	0.011	<0.001	0.001	0.001	NOT DETECTED	1	1	1.2	1.5	
		17:22	1.4	0.7	24.00	24.00	24.00	8.26	8.26	8.26	32.61	32.61	32.61	102.60	102.50	103.08	7.20	7.22	7.19	8.52	8.49	8.50	5.0	4.6	0.010	<0.001	0.001	0.001	NOT DETECTED	1	1	1.0		
29/3/2021	Fine	18:25	1.0	0.5	26.00	26.00	26.00	8.27	8.27	8.28	32.80	32.80	32.80	103.60	104.50	104.35	7.10	7.17	7.15	4.80	4.70	4.75	2.0	2.5	<0.010	0.010	<0.001	0.001	NOT DETECTED	1	1	1.8	1.7	
		18:27	1.0	0.5	26.00	26.00	26.00	8.28	8.28	8.28	32.80	32.80	32.80	104.50	104.80	104.35	7.14	7.19	7.15	4.78	4.70		2.9	2.9	<0.010	<0.001	0.001	NOT DETECTED	1	1	1.6			



Baseline Water Quality Monitoring at Station SR6 (Bottom) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UIA mg/L			E Coli CFU/100mL			B.O.D mg/L					
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	V	AVG	Value	V	AVG	Value	AVG		
SR6	3/3/2021	Cloudy	10:11	3.3	2.3	20.20	20.20	20.20	8.14	8.14	31.32	31.32	31.32	86.40	85.90	84.98	6.52	6.48	28.86	28.84	29.15	★ 94.8	★ 34.9	0.105	0.107	0.002	0.002	0.002	4	4	3	1.2	1.4
	10:13	3.3	2.3	20.20	20.20	20.20	8.14	8.14	31.32	31.32	31.32	83.60	84.00	84.98	6.28	6.31	29.41	29.48	29.15	★ 175.0		0.105		0.002	0.002	0.002	1	1		1.6			
	5/3/2021	Cloudy																															
	9/3/2021	Cloudy																															
	11/3/2021	Fine																															
	13/3/2021	Fine																															
	15/3/2021	Fine																															
	17/3/2021	Fine																															
	19/3/2021	Fine																															
	23/3/2021	Fine																															
	25/3/2021	Fine																															
	27/3/2021	Cloudy																															
29/3/2021	Fine																																

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

*Considered as outliner

Baseline Water Quality Monitoring at Station SR9 (surface) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C			pH			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			SS mg/L			TIN mg/L			UIA mg/L			E.Coli CFU/100mL			B.O.D mg/L		
						Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG
SR9	3/3/2021	Cloudy	15:05	4.5	1.0	20.20	20.20		8.01	8.01	8.01	30.98	30.98	30.98	76.50	76.40	5.78	5.77	5.76	14.49	14.42	14.46	9.8	9.2	0.223	0.003	0.003	0.004	0.004	1	1	1	1.5	1.5	1.5			
			15:07	4.5	1.0	20.20	20.20		8.01	8.01	8.01	30.98	30.98	30.98	76.50	76.20	5.78	5.72		14.47	14.46		8.6		0.228	0.004	0.004		1									
			17:55	4.5	1.0	20.70	20.70	20.70	8.06	8.06	8.06	31.89	31.89	31.89	91.80	92.20	6.83	6.86	6.89	6.03	6.06	6.05	3.6	3.9	0.129	0.029	0.002	0.002	0.002	1	1	1	1.5	1.6				
	5/3/2021	Cloudy	17:57	4.5	1.0	20.70	20.70		8.06	8.06	8.06	31.89	31.89	31.89	92.50	93.50	6.89	6.96		6.06	6.06		4.2		0.129	0.029	0.002	0.002		1	1	1	1.6					
			09:45	4.8	1.0	20.60	20.60	20.60	8.10	8.10	8.10	31.67	31.67	31.67	93.10	92.40	6.94	6.91	6.91	5.13	5.16	5.15	5.4	5.5	0.190	0.004	0.004	0.005	56	56	62	1.5	1.4					
	9/3/2021	Cloudy	09:47	4.8	1.0	20.60	20.60	20.60	8.10	8.10	8.10	31.67	31.67	31.67	91.80	91.20	6.89	6.89		5.16	5.16		5.5		0.212	0.005	0.005		67	67		1.3						
			10:55	4.9	1.0	20.60	20.60	20.60	8.16	8.16	8.16	30.25	30.25	30.25	88.20	88.20	7.12	7.12	7.12	9.99	9.99	9.99	8.2	7.8	0.210	0.005	0.005	0.005	1	1	1	1.2	1.1					
	11/3/2021	Fine	10:57	4.9	1.0	20.60	20.60	20.60	8.16	8.16	8.16	30.25	30.25	30.25	88.30	88.20	7.13	7.12	7.12	9.99	9.99	9.99	7.3		0.212		0.005	0.005		1	1	1	1.0	1.1				
			17:55	4.6	1.0	22.10	22.10	22.10	8.08	8.08	8.08	31.94	31.94	31.94	87.40	90.90	6.33	6.60	6.71	9.02	9.00	9.01	7.3	7.2	0.168	0.017	0.003	0.003	0.003	1	1	1	1.0	1.1				
	13/3/2021	Fine	17:57	4.6	1.0	22.10	22.10	22.10	8.08	8.08	8.08	31.94	31.94		92.00	93.10	6.93	6.98		9.00	9.00		7.0		0.165		0.003	0.003		1	1	1	1.2					
			14:24	3.8	1.0	22.60	22.60	22.60	8.01	8.01	8.01	32.11	32.11	32.11	88.70	89.00	6.37	6.38		6.15	6.16	6.15	3.5	3.4	0.165	0.166	0.002	0.002	0.002	1	1	1	1.1	1.2				
	15/3/2021	Fine	14:26	3.8	1.0	22.60	22.60	22.60	8.01	8.01	8.01	32.11	32.11	32.11	89.10	89.10	6.40	6.40	6.39	6.16	6.13	6.15	3.3		0.166		0.002	0.002		1	1	1	1.3					
14:24			3.4	1.0	24.50	24.50	24.50	8.09	8.09	8.09	32.11	32.11	32.11	87.80	91.70	6.09	6.36	6.31	2.14	2.14	2.14	1.3	1.7	0.187	0.190	0.005	0.005	0.005	1	1	1	0.9	0.9					
17/3/2021	Fine	14:26	3.4	1.0	24.50	24.50	24.50	8.09	8.09	8.09	32.11	32.11	32.11	91.70	92.50	6.36	6.42		2.14	2.14	2.14	2.1		0.193		0.005	0.005		1	1	1	0.8						
		15:44	3.9	1.0	23.90	23.90	23.90	8.20	8.20	8.20	31.66	31.66	31.66	89.10	89.10	6.27	6.27	6.25	2.16	2.15	2.15	2.7	2.3	0.230	0.232	0.006	0.006	0.006	1	1	1	1.2	1.3					
19/3/2021	Fine	15:46	3.9	1.0	23.90	23.90	23.90	8.20	8.20	8.20	31.66	31.66	31.66	88.80	88.20	6.25	6.21		2.15	2.15	2.15	2.7		0.234		0.006	0.006		1	1	1	1.3						
		19:58	4.1	1.0	20.80	20.80	20.80	7.52	7.52	7.52	32.58	32.58	32.58	88.10	88.10	6.51	6.51	6.51	6.90	6.91	6.91	4.3	4.4	0.101	0.101	<0.001	0.001	0.001	1	1	1	1.3	1.3					
23/3/2021	Fine	20:00	4.1	1.0	20.80	20.80	20.80	7.52	7.52	7.52	32.58	32.58	32.58	88.20	88.10	6.52	6.52	6.52	6.92	6.92	6.91	4.4		0.101		<0.001	0.001		1	1	1	1.2						
		10:01	4.6	1.0	21.70	21.70	21.70	8.08	8.08	8.08	32.43	32.42	32.42	78.40	77.70	5.71	5.66	5.60	6.64	6.56	6.69	7.0	6.6	0.094	0.101	<0.001	0.001	0.001	0.001	2	2	2	1.2	1.1				
25/3/2021	Fine	10:03	4.6	1.0	21.70	21.70	21.70	8.08	8.08	8.08	32.42	32.42	32.42	76.50	74.90	5.57	5.46		6.77	6.78		6.69		0.107		0.001	0.001		1	1	1	1.0						
		10:45	4.9	1.0	22.70	22.70	22.70	8.18	8.18	8.18	32.62	32.62	32.62	91.80	91.40	6.56	6.53	6.54	8.36	8.41	8.35	4.7	4.6	0.061	0.065	<0.001	0.001	0.001	0.001	1	1	1	1.7	1.6				
27/3/2021	Cloudy	10:47	4.9	1.0	22.70	22.70	22.70	8.18	8.18	8.18	32.62	32.62	32.62	91.30	91.40	6.52	6.53		8.35	8.29		4.5		0.062		0.001	0.001		1	1	1	1.5						
		11:00	4.5	1.0	23.90	23.90	23.90	8.22	8.22	8.22	32.76	32.76	32.76	93.10	93.00	6.51	6.51	6.51	5.39	5.32	5.28	2.1	2.1	0.018		<0.001	0.001	0.001	0.001	1	1	1	1.7	1.7				
29/3/2021	Fine	11:02	4.5	1.0	23.90	23.90	23.90	8.22	8.22	8.22	32.78	32.78	32.77	93.40	92.80	6.53	6.56		5.21	5.20		2.1		0.011		<0.001	0.001		1	1	1	1.7						

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station SR9 (surface) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L	TIN mg/L		UIA			E.Coli CFU/100mL			B.O.D mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG		Value	AVG	Value	V'	AVG	Value	V'	AVG	Value	V'	AVG	
SR9	3/3/2021	Cloudy	10:22	5.5	1.0	20.10	20.10	8.12	8.12	31.78	31.78	87.30	87.00	6.57	6.55	6.49	23.19	23.20	23.23	21.6	21.0	0.069	0.001	0.001	0.001	1	1	1	1.4	1.5
			10:24	5.5	1.0	20.10	20.10	8.12	8.12	31.78	31.78	85.20	85.50	6.41	6.43		23.27	23.25		20.4		0.066	0.001	0.001		1			1.5	
			11:10	5.5	1.0	20.40	20.40	7.98	7.98	31.92	31.92	88.80	88.80	6.64	6.65		9.64	9.62		3.6	4.0	0.128	0.002	0.002	0.002	1	2	1	1.7	1.6
	5/3/2021	Cloudy	11:12	5.5	1.0	20.40	20.40	7.98	7.98	31.92	31.92	89.10	89.20	6.67	6.67	6.66	9.53	9.52		4.3		0.131	0.002	0.002		1			1.5	
			14:45	5.2	1.0	20.10	20.10	8.07	8.07	31.80	31.80	89.10	89.30	6.70	6.72	6.71	6.74	6.76	6.75	3.3	3.3	0.170	0.003	0.003	0.003	9	9	11	1.2	1.3
	9/3/2021	Cloudy	14:47	5.2	1.0	20.10	20.10	8.07	8.07	31.80	31.80	89.10	89.00	6.71	6.70	6.73	6.76	6.75	3.2	3.3	0.170	0.003	0.003		12	12		1.3		
			14:50	5.1	1.0	22.30	22.30	8.19	8.19	31.70	31.70	93.90	93.90	6.87	6.87	6.83	12.46	12.47	12.49	10.7	10.7	0.211	0.005	0.005	0.005	1	1	1	1.1	1.1
	11/3/2021	Fine	14:50	5.1	1.0	22.30	22.30	8.19	8.19	31.70	31.70	93.80	93.10	6.85	6.74		12.51	12.52		10.6		0.218	0.005	0.005		1			1.0	
			12:45	5.0	1.0	21.00	21.00	8.14	8.14	32.01	32.01	86.00	86.50	6.36	6.40	6.41	7.89	7.90		6.2	6.5	0.170	0.004	0.004	0.004	1	1	1	1.4	1.2
	13/3/2021	Fine	12:47	5.0	1.0	21.00	21.00	8.14	8.14	32.01	32.01	86.90	87.30	6.43	6.46		7.85	7.85		6.7		0.176	0.004	0.004		1			1.0	
			08:00	4.7	1.0	21.50	21.50	7.90	7.90	32.15	32.15	88.40	88.40	6.47	6.47	6.50	9.52	9.59	9.57	8.6	8.8	0.166	0.002	0.002	0.002	1	1	1	1.4	1.5
	15/3/2021	Fine	08:02	4.7	1.0	21.50	21.50	7.90	7.90	32.15	32.15	88.90	9.04	6.50	6.56	6.50	9.59	9.59		8.9		0.159	0.002	0.002		1			1.6	
			08:43	3.7	1.0	22.80	22.80	8.00	8.00	32.15	32.15	89.70	89.80	6.42	6.42	6.42	4.94	4.88	4.91	3.0	3.4	0.166	0.003	0.003	0.003	1	1	1	1.2	1.2
17/3/2021	Fine	08:45	3.7	1.0	22.80	22.80	8.00	8.00	32.15	32.15	89.80	89.80	6.42	6.42	6.42	4.88	4.93		3.7		0.175	0.003	0.003		1			1.2		
		09:18	4.3	1.0	23.20	23.20	8.14	8.14	31.79	31.79	92.00	99.90	6.80	7.40	7.07	7.23	2.42	2.41	2.41	2.1	1.8	0.236	0.006	0.006	0.006	1	1	1	1.3	1.4
19/3/2021	Fine	09:20	4.3	1.0	23.20	23.20	8.14	8.14	31.79	31.79	91.10	90.20	7.35	7.09		2.41	2.40		2.1		0.232	0.006	0.006		1			1.5		
		09:15	4.6	1.0	20.80	20.80	7.59	7.59	32.67	32.67	82.00	82.00	6.05	6.05	6.07	6.19	6.20	6.15	3.6	3.2	0.111	0.001	0.001	0.001	1	1	1	1.5	1.6	
23/3/2021	Fine	09:17	4.6	1.0	20.80	20.80	7.59	7.59	32.67	32.67	82.00	81.70	6.06	6.04	6.06	6.85	6.87	6.85	3.2	0.111		<0.001	0.001	0.001	1	1	1	1.6	1.6	
		14:40	4.4	1.0	22.70	22.70	8.13	8.13	32.52	32.52	92.53	91.40	6.54	6.54	6.51	8.74	8.65	8.72	5.1	5.6	0.098	0.001	0.001	0.001	1	1	1	1.1	1.2	
25/3/2021	Cloudy	14:42	4.4	1.0	22.70	22.70	8.10	8.10	32.53	32.53	92.10	84.80	6.58	6.78		8.74	8.76		5.1		0.091	<0.001	0.001	0.001	1	1	1	1.3		
		17:30	4.6	1.0	23.30	23.30	8.23	8.23	32.59	32.59	92.50	92.80	6.48	6.51	6.49	5.22	5.19	5.47	3.8	3.7	0.058	0.001	0.001	0.001	1	1	1	1.1	1.2	
29/3/2021	NOT DETECTED	17:32	4.6	1.0	23.30	23.30	8.23	8.23	32.59	32.59	92.50	93.00	6.48	6.47		5.19	6.27		3.8		0.015	<0.001	0.001	0.001	1	1	1	1.3		
		18:30	4.0	1.0	24.30	24.30	8.25	8.25	32.62	32.62	93.30	93.00	6.34	6.45	6.34	4.97	4.83	4.93	2.2	2.2	0.012	0.001	0.001	0.001	1	1	1	1.7	1.8	
29/3/2021	NOT DETECTED	18:32	4.0	1.0	24.30	24.30	8.25	8.25	32.62	32.62	95.50	95.40	6.63	6.62	6.51	4.82	4.84	4.87	2.0	2.2	0.012	<0.001	0.001	0.001	1	1	1	1.9		



Lam Environmental Service Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022).

Baseline Water Quality Monitoring at Station SR9 (Bottom) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature		pH		Salinity		DO Saturation		DO		Turbidity		SS		TIN		UIA			E. Coli			B.O.D			
						°C				ppt		%		mg/L		NTU		mg/L		mg/L		mg/L			CFU/100mL			mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	V'	AVG	Value	V'	AVG	Value	V'	AVG	Value	AVG	
SR9	3/3/2021	Cloudy	15:10	4.5	3.5	20.10	20.10	8.04	8.04	31.06	31.06	77.40	77.60	77.70	5.85	5.86	5.88	13.03	13.10	13.18	28.1	29.5	0.223	0.003	0.003	0.003	NOT DETECTED	1	1	1.5	1.5
			15:12	4.5	3.5	20.10	20.10	8.04	8.04	31.06	31.06	78.00	77.80		5.92	5.88		13.33	13.24		30.8		0.220	0.003	0.003	0.003	NOT DETECTED	1		1.4	
			18:00	4.5	3.5	20.50	20.50	8.11	8.11	31.88	31.88	88.10	88.10	87.95	6.57	6.57	6.56	7.07	7.07	7.16	3.7	3.8	0.123	0.003	0.003	0.003	NOT DETECTED	1	1	1.5	1.5
	5/3/2021	Cloudy	18:02	4.5	3.5	20.50	20.50	8.11	8.11	31.88	31.88	87.80	87.80		6.55	6.55		7.16	7.34		3.9		0.121	0.002	0.002	0.003	NOT DETECTED	1		1.4	
			09:50	4.8	3.8	20.70	20.70	8.13	8.13	31.73	31.73	87.80	88.10	88.20	6.53	6.56	6.57	5.16	5.16	5.17	5.1	4.7	0.186	0.004	0.004	0.004	43	43	40	1.4	1.6
	9/3/2021	Cloudy	09:50	4.8	3.8	20.70	20.70	8.13	8.13	31.73	31.73	88.40	88.50		6.58	6.59	6.57	5.17	5.17		4.2		0.192	0.004	0.004		36	36		1.8	
			11:00	4.9	3.9	20.60	20.60	8.10	8.10	31.85	31.85	84.90	83.70	84.33	6.33	6.24	6.29	9.75	9.76	9.75	9.7	10.3	0.215	0.004	0.004	0.004	1	1	1	1.1	1.1
	11/3/2021	Fine	11:02	4.9	3.9	20.60	20.60	8.10	8.10	31.85	31.85	83.30	85.40	84.33	6.21	6.37	6.29	9.75	9.75	9.75	10.8		0.223	0.004	0.004		NOT DETECTED	1		1.1	
			17:59	4.6	3.6	21.70	21.70	8.00	8.00	31.97	31.97	90.10	90.10	90.08	6.58	6.58	6.58	6.84	6.73	6.72	5.4	5.7	0.167	0.003	0.003	0.003	NOT DETECTED	1	1	1.0	1.1
	13/3/2021	Fine	18:01	4.6	3.6	21.70	21.70	8.00	8.00	31.97	31.97	90.10	90.00		6.58	6.58		6.73	6.58		5.9		0.166	0.003	0.003	0.003	NOT DETECTED	1		1.2	
			14:28	3.8	2.8	22.90	22.90	8.03	8.03	32.05	32.05	90.80	91.60	91.55	6.49	6.54	6.54	7.55	7.53	7.53	5.3	5.2	0.170	0.003	0.003	0.003	NOT DETECTED	1	1	1.2	1.2
	15/3/2021	Fine	14:30	3.8	2.8	22.90	22.90	8.03	8.03	32.05	32.05	91.80	92.00		6.56	6.58		7.52	7.51		5.0		0.165	0.003	0.003	0.003	NOT DETECTED	1	1	1.1	
			14:28	3.4	2.4	23.90	23.90	8.11	8.11	32.14	32.14	83.40	83.40	84.20	5.85	5.85	5.91	2.86	2.80	2.79	1.7	2.1	0.177	0.004	0.004	0.004	NOT DETECTED	1	1	1.2	1.2
	17/3/2021	Fine	14:30	3.4	2.4	23.90	23.90	8.11	8.11	32.14	32.14	84.10	85.90		5.90	6.02		2.80	2.71		2.5		0.177	0.004	0.004		NOT DETECTED	1		1.1	
			15:48	3.9	2.9	23.80	23.80	8.21	8.21	31.64	31.64	85.00	87.60	87.43	5.99	6.18	6.16	2.02	2.02	2.02	1.3	1.4	0.226	0.006	0.006	0.006	NOT DETECTED	1	1	1.2	1.2
	19/3/2021	Fine	15:50	3.9	2.9	23.80	23.80	8.21	8.21	31.64	31.64	88.30	88.80		6.22	6.26		2.02	2.02		1.4		0.215	0.006	0.006		NOT DETECTED	1		1.1	
			20:02	4.1	3.1	21.10	21.10	7.57	7.57	32.57	32.57	88.20	88.40		6.45	6.50	6.51	6.75	6.74		4.2		0.117	<0.001	0.001	0.001	3	3	3	1.2	1.2
	23/3/2021	Fine	20:04	4.1	3.1	21.10	21.10	7.57	7.57	32.57	32.57	88.60	88.70	88.48	6.52	6.52		6.65	6.59		3.8	4.0	0.106	<0.001	0.001		2	2			
			10:05	4.6	3.6	21.70	21.70	8.08	8.08	32.42	32.42	75.50	75.20	75.28	5.50	5.48	5.49	6.89	7.03		7.2	7.0	0.093	<0.001	0.001	0.001	NOT DETECTED	1	1	0.9	1.1
	25/3/2021	Fine	10:07	4.6	3.6	21.70	21.70	8.08	8.08	32.42	32.43	75.50	74.90		5.50	5.46		7.11	7.16		6.7		0.095	<0.001	0.001		NOT DETECTED	1		1.2	
			10:50	4.9	3.9	22.70	22.70	8.20	8.20	32.55	32.55	91.70	91.50	91.43	6.56	6.54	6.54	9.05	9.07		9.05	4.0	0.046	<0.001	0.001	0.001	NOT DETECTED	1	1	1.8	1.8
	27/3/2021	Cloudy	10:52	4.9	3.9	22.70	22.70	8.20	8.20	32.60	32.60	91.30	91.20		6.53	6.52		9.03	9.04		5.1	4.6	0.038	<0.001	0.001		NOT DETECTED	1	1	1.7	
			11:05	4.5	3.5	23.50	23.50	8.21	8.21	32.80	32.80	87.80	87.90	87.80	6.19	6.17	6.18	7.51	7.53	7.50	2.8	3.3	0.017	<0.001	0.001	0.001	NOT DETECTED	1	1	1.2	1.2
	29/3/2021	Fine	11:07	4.5	3.5	23.50	23.50	8.21	8.21	32.82	32.82	87.80	87.90		6.18	6.19		7.56	7.38		3.7		0.014	<0.001	0.001		NOT DETECTED	1	1	1.1	

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. The remaining value (e.g. < 0.001 mg/L) is adopted for worst-case estimation of average concentration.

Baseline Water Quality Monitoring at Station SR9 (Bottom) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UIA mg/L		E. Coli CFU/100mL			B.O.D mg/L				
						Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		Value	
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
SR9	3/3/2021	Cloudy	10:27	5.5	4.5	20.20	20.20	8.16	8.16	31.80	31.80	80.40	80.60	80.70	6.04	6.06	6.07	26.11	26.18	26.13	26.4	27.1	0.068	0.001	0.001	1	1	3	1.4	1.4	
			10:29	5.5	4.5	20.20	20.20	8.16	8.16	31.83	31.83	80.80	81.00		6.07	6.09		26.12	26.09		27.8		0.068	0.001	0.001		4	4		1.4	
			11:15	5.5	4.5	20.30	20.30	8.02	8.02	31.90	31.90	85.20	85.30	85.40	6.38	6.39	6.40	7.07	7.07	7.06	3.5	3.7	0.129	0.002	0.002	0.002	8	8	9	1.7	1.8
	5/3/2021	Cloudy	11:17	5.5	4.5	20.30	20.30	8.02	8.02	31.90	31.90	85.50	85.60		6.41	6.41		7.07	7.04		3.8		0.125	0.002	0.002		10	10		1.8	
			14:50	5.2	4.2	20.00	20.00	8.09	8.09	31.83	31.83	86.50	86.40	86.30	6.78	6.78	6.77	6.51	6.51	6.53	3.2	3.2	0.175	0.003	0.003	0.003	12	12	14	1.2	1.2
	9/3/2021	Cloudy	14:52	5.2	4.2	20.00	20.00	8.09	8.09	31.83	31.83	86.10	86.20		6.74	6.76		6.56	6.54		3.2		0.172	0.003	0.003		15	15		1.2	
			14:55	5.1	4.1	21.50	21.50	8.20	8.20	31.80	31.80	90.30	90.30	90.23	6.62	6.63	6.62	10.20	10.25	10.21	9.2	8.9	0.202	0.005	0.005	0.005	NOT DETECTED	1	1	0.8	1.1
	11/3/2021	Fine	14:57	5.1	4.1	21.50	21.50	8.20	8.20	31.80	31.80	90.20	90.10		6.62	6.62		10.19	10.25		8.6		0.197	0.005	0.005		NOT DETECTED	1		1.3	
			12:50	5.0	4.0	21.00	21.00	8.17	8.17	31.98	31.98	83.70	83.90	83.98	6.19	6.21	6.21	7.75	7.74	7.66	5.7	5.8	0.175	0.004	0.004	0.004	1	1	1	1.5	1.4
	13/3/2021	Fine	12:52	5.0	4.0	21.00	21.00	8.17	8.17	31.98	31.98	84.10	84.20		6.22	6.23		7.58	7.56		5.8		0.173	0.004	0.004		1	1		1.2	
			08:04	4.7	3.7	21.50	21.50	7.92	7.92	32.09	32.09	89.50	89.50	89.45	6.55	6.56	6.55	11.50	11.53	11.50	11.1	11.1	0.167	0.002	0.002	0.002	NOT DETECTED	1	1	1.2	1.4
23/3/2021	Fine	08:06	3.7	2.7	21.50	21.50	7.92	7.92	32.09	32.09	89.50	89.50	89.45	6.55	6.56	6.55	11.50	11.53	11.50	11.1	11.1	0.167	0.002	0.002	0.002	NOT DETECTED	1	1	1.2	1.4	
		08:47	3.7	2.7	22.70	22.70	8.00	8.00	32.19	32.19	86.70	86.70	86.68	6.21	6.18	6.17	3.34	3.32	3.33	2.5	2.3	0.184	0.004	0.004	0.004	NOT DETECTED	1	1	0.8	1.0	
		08:49	3.7	2.7	22.70	22.70	8.00	8.00	32.19	32.19	86.10	86.20	86.08	6.17	6.10	6.17	3.34	3.32	3.33	2.0	2.3	0.190	0.004	0.004	0.004	NOT DETECTED	1	1	1.2	1.0	
19/3/2021	Fine	09:22	4.3	3.3	23.10	23.10	8.18	8.18	31.64	31.64	88.20	88.10	87.63	6.29	6.28	6.25	2.67	2.67	2.67	2.0	2.2	0.244	0.007	0.007	0.007	NOT DETECTED	1	1	1.9	1.9	
		09:24	4.3	3.3	23.10	23.10	8.18	8.18	31.64	31.64	87.40	88.80		6.23	6.19	6.28	2.67	2.67		2.4		0.244	0.007	0.007		1	1		1.9		
		08:19	4.80	3.8	20.80	20.80	7.55	7.55	32.66	32.66	83.60	83.60	83.70	6.11	6.11	6.19	5.69	5.70	5.69	3.25	3.4	0.109	<0.001	0.001	0.001	NOT DETECTED	1	1	1.4	1.3	
23/3/2021	Fine	08:21	4.6	3.6	20.80	20.80	7.55	7.55	32.66	32.66	83.60	83.50		6.18	6.17		5.69	5.68		2.0		0.106	<0.001	0.001	0.001	NOT DETECTED	1		1.4		
		14:45	4.4	3.4	22.80	22.80	8.16	8.16	32.03	32.03	96.50	96.30	96.28	6.96	6.89	6.90	7.30	7.34	7.32	5.5	6.0	0.085	<0.001	0.001	0.001	NOT DETECTED	1	1	1.1	1.1	
25/3/2021	Fine	14:47	4.4	3.4	22.80	22.80	8.15	8.15	32.06	32.06	96.20	96.10		6.87	6.86		7.32	7.31		6.4		0.086	<0.001	0.001	0.001	NOT DETECTED	1		1.1		
		17:35	4.6	3.6	23.90	23.90	8.22	8.22	32.55	32.55	92.10	91.10	91.08	6.45	6.38	6.38	5.13	5.13	5.09	4.1	4.1	0.060	0.056	<0.001	0.001	0.001	NOT DETECTED	1	1	1.4	1.5
27/3/2021	Cloudy	17:37	4.6	3.6	23.90	23.90	8.22	8.22	32.55	32.55	90.80	90.30		6.37	6.33		5.05	5.05		4.1		0.051	<0.001	0.001	0.001	NOT DETECTED	1		1.6		
		24:35	3.0	3.0	24.20	24.20	8.26	8.26	32.81	32.81	97.30	97.30	97.71	6.77	6.71	6.81	5.33	5.28	5.30	1.7	1.7	0.040	<0.001	0.001	0.001	NOT DETECTED	1		2.0		
29/3/2021	Fine	18:37	4.0	3.0	24.20	24.20	8.26	8.26	32.81	32.81	98.30	98.30	97.80	6.84	6.84		5.28	5.29	5.29	1.7	1.7	0.012	<0.001	0.001	0.001	NOT DETECTED	1	1	1.6	1.6	

**Baseline Water Quality Monitoring at Station SR10 (surface) - Ebb Tide**

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth	Sampling Depth	Temperature °C		pH -			Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU			SS mg/L		TIN mg/L		UIA mg/L			E.Coli CFU/100mL			B.O.D mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	V	AVG	Value	V	AVG	Value	AVG		
SR10	3/3/2021	Cloudy	15:12	3.2	1.0	20.20	20.20	20.20	8.06	8.06	8.06	30.99	30.99	30.99	83.70	82.40	82.85	6.32	6.21	6.25	9.90	9.85	9.81	7.6	7.9	0.215	0.215	0.003	0.003	0.003	1	1	2.0
			15:14	3.2	1.0	20.20	20.20	20.20	8.06	8.06	8.06	30.99	30.99	30.99	81.80	83.50	82.85	6.17	6.30		9.73	9.76		8.2		0.214	0.215	0.003	0.003	0.003	2	2	1.6
	5/3/2021	Cloudy																															
	9/3/2021	Cloudy																															
	11/3/2021	Fine																															
	13/3/2021	Fine																															
	15/3/2021	Fine																															
	17/3/2021	Fine																															
	19/3/2021	Fine																															
	23/3/2021	Fine																															
	25/3/2021	Fine																															
	27/3/2021	Cloudy																															
29/3/2021	Fine																																

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station SR10 (surface) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C			pH -			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			SS mg/L		TIN mg/L			UIA mg/L			E.Coli CFU/100mL			B.O.D mg/L		
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	V	AVG	Value	V	AVG	Value	V	AVG	Value	AVG	
SR10	3/3/2021	Cloudy	10:39	3.1	1.0	20.20	20.20	20.20	8.13	8.13	8.13	31.71	31.71	31.71	82.10	82.00	81.63	6.17	6.15	6.13	34.35	34.37	35.23	38.3	37.7	0.089	0.093	0.002	0.002	0.002	4	4	1.2	5	5	0.9	1.1
	5/3/2021	Cloudy	10:41	3.1	1.0	20.20	20.20		8.13	8.13		31.71	31.71		81.10	81.30		6.10	6.11		37.62	34.58		37.0		0.096		0.002	0.002		5						
	9/3/2021	Cloudy																																			
	11/3/2021	Fine																																			
	13/3/2021	Fine																																			
	15/3/2021	Fine																																			
	17/3/2021	Fine																																			
	19/3/2021	Fine																																			
	23/3/2021	Fine																																			
	25/3/2021	Fine																																			
	27/3/2021	Cloudy																																			
	29/3/2021	Fine																																			

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.



Lam Environmental Service Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022).

Baseline Water Quality Monitoring at Station SR10 (Middle) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature				pH		Salinity		DO Saturation		DO		Turbidity		SS		TIN		UJA		E. Coli			B.O.D						
						°C				ppt		%		mg/L		NTU		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG		
SR10	3/3/2021	Cloudy				Water samples were collected in surface and middle layer.																													
	5/3/2021	Cloudy	18:10	2.5	1.3	20.40	20.40	20.40	8.07	8.07	8.07	31.88	31.88	31.88	83.90	84.00	84.03	6.27	6.28	6.28	6.57	6.55	6.56	6.0	5.6	0.136	0.141	0.002	0.002	0.002	NOT DETECTED	1	1	0.8	0.8
			18:12	2.5	1.3	20.40	20.40		8.07	8.07		31.88	31.88		84.10	84.10		6.28	6.29		6.56	6.56		5.2		0.146		0.002	0.002		NOT DETECTED	1		0.8	
	9/3/2021	Cloudy	10:00	2.8	1.4	20.90	20.90	20.90	8.13	8.13	8.13	31.77	31.77	31.77	89.80	89.60	89.55	6.65	6.64	6.64	9.86	9.80	9.79	13.1	13.0	0.199	0.198	0.003	0.003	0.003	34	34	33	1.3	1.3
			10:02	2.8	1.4	20.90	20.90		8.13	8.13		31.77	31.77		89.40	89.40		6.63	6.62		9.73	9.76		12.8		0.197		0.003	0.003		31	31		1.2	
	11/3/2021	Fine	11:08	2.7	1.4	20.80	20.80	20.80	8.14	8.14	8.14	31.72	31.72	31.72	89.50	89.60	89.58	6.65	6.70	6.68	19.31	19.48	19.40	18.8	19.5	0.217	0.222	0.003	0.003	0.003	5	5	5	1.1	1.2
			11:10	2.7	1.4	20.80	20.80		8.14	8.14		31.72	31.72		89.60	89.60		6.69	6.67		19.54	19.61		20.1		0.226		0.003	0.003		5	5		1.2	
	13/3/2021	Fine	18:10	2.5	1.3	22.40	22.40	22.40	8.06	8.06	8.06	31.87	31.87	31.87	93.80	93.80	93.75	6.76	6.76	6.76	7.95	7.93	7.90	7.1	7.3	0.152	0.152	0.002	0.002	0.002	NOT DETECTED	1	1	1.0	1.1
			18:12	2.5	1.3	22.40	22.40		8.06	8.06		31.87	31.87		93.60	93.80		6.75	6.76		7.86	7.86		7.4		0.152		0.002	0.002		NOT DETECTED	1		1.2	
	15/3/2021	Fine	14:36	2.2	1.1	23.20	23.20	23.20	8.03	8.03	8.03	32.01	32.01	32.01	90.00	90.00	90.05	6.25	6.39	6.40	9.99	10.10	10.07	9.2	9.3	0.146	0.147	0.001	0.001	0.001	NOT DETECTED	1	1	1.2	1.0
			14:38	2.2	1.1	23.20	23.20		8.03	8.03		32.01	32.01		90.90	91.30		6.45	6.49		10.10	10.10		9.4		0.147		0.001	0.001		NOT DETECTED	1		0.8	
	17/3/2021	Fine	14:38	2.7	1.4	24.10	24.10	24.10	8.06	8.06	8.06	32.20	32.20	32.20	96.40	96.40	96.35	6.73	6.73	6.73	2.67	2.67	2.73	3.2	2.7	0.142	0.144	0.003	0.003	0.003	NOT DETECTED	1	1	0.9	1.1
		14:40	2.7	1.4	24.10	24.10		8.06	8.06		32.20	32.20		96.40	96.20		6.73	6.72		2.78	2.79		3.2		0.145		0.003	0.003		NOT DETECTED	1		1.2		
19/3/2021	Fine	15:33	2.1	1.1	24.90	24.90	24.90	8.20	8.20	8.20	31.90	31.90	31.90	84.80	85.80	85.98	5.85	5.93	5.94	3.68	3.68	3.68	2.7	2.2	0.166	0.163	0.004	0.004	0.004	NOT DETECTED	1	1	1.3	1.4	
		15:35	2.1	1.1	24.90	24.90		8.20	8.20		31.90	31.90		86.40	86.90		5.96	6.00		3.68	3.68		1.6		0.160		0.003	0.003		NOT DETECTED	1		1.5		
23/3/2021	Fine	19:52	2.2	1.1	20.70	20.70	20.70	7.62	7.62	7.62	32.71	32.71	32.71	83.80	83.80	83.83	6.20	6.20	6.20	10.64	10.64	10.65	9.0	8.5	0.113	0.113	<0.001	<0.001	0.001	NOT DETECTED	1	1	1.1	1.2	
		19:54	2.2	1.1	20.70	20.70		7.62	7.62		32.71	32.71		83.90	83.80		6.21	6.20		10.64	10.66		8.0		0.113		<0.001	<0.001		NOT DETECTED	1		1.1		
25/3/2021	Fine	09:55	2.6	1.3	21.90	21.90	21.90	8.10	8.10	8.10	32.51	32.51	32.51	83.90	83.90	83.78	6.08	6.08	6.07	9.74	9.55	9.51	5.8	5.5	0.084	0.084	<0.001	<0.001	0.001	NOT DETECTED	1	1	1.0	1.2	
		09:57	2.6	1.3	21.90	21.90		8.10	8.10		32.51	32.51		83.80	83.50		6.07	6.05		9.38	9.38		5.2		0.084		<0.001	<0.001		NOT DETECTED	1		1.3		
27/3/2021	Cloudy	10:40	2.6	1.3	23.00	23.00	23.00	8.20	8.20	8.20	32.58	32.58	32.58	85.40	85.30	85.33	6.07	6.07	6.07	8.73	8.59	8.60	6.5	6.2	0.091	0.078	0.00	0.002	0.002	1	1	1.8	1.6		
		10:42	2.6	1.3	23.00	23.00		8.20	8.20		32.58	32.58		85.30	85.30		6.07	6.07		8.53	8.53		5.8		0.064		0.00	0.002		NOT DETECTED	1		1.4		
29/3/2021	Fine	11:10	2.7	1.4	23.80	23.80	23.80	8.21	8.21	8.21	32.82	32.82	32.83	100.40	100.60	100.45	7.03	7.04	7.03	4.01	4.02	4.02	3.0	2.5	<0.010	0.010	<0.001	<0.001	0.001	NOT DETECTED	1	1	1.5	1.6	
		11:12	2.7	1.4	23.80	23.80		8.21	8.21		32.84	32.84		100.20	100.60		7.02	7.04		4.01	4.02		2.0		<0.010		<0.001	<0.001		NOT DETECTED	1		1.6		

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station SR10 (Middle) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UJA mg/L		E. Coli CFU/100mL		B.O.D mg/L									
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG				
						Water samples were collected in surface and middle layer.																													
SR10	3/3/2021	Cloudy																																	
	5/3/2021	Cloudy	11:25	2.9	1.5	20.20	20.20	20.20	8.00	8.00	8.00	31.82	31.82	31.82	81.10	81.20	81.13	6.09	6.10	6.85	10.40	10.41	10.41	7.4	7.1	0.137	0.138	0.002	0.002	0.002	NOT DETECTED	1	1	1.4	1.4
			11:27	2.9	1.5	20.20	20.20		8.00	8.00		31.82	31.82		81.20	81.00		6.10	6.09		10.42	10.40		6.8		0.139		0.002	0.002		NOT DETECTED	1		1.4	
	9/3/2021	Cloudy	14:58	2.9	1.5	20.40	20.40	20.40	8.06	8.06	8.06	23.80	23.80	23.80	86.50	86.40	86.30	6.78	6.78	6.77	12.31	12.22	12.27	8.6	8.8	0.207	0.206	0.003	0.003	0.003	24	24	27	0.9	1.1
			15:00	2.9	1.5	20.40	20.40		8.06	8.06		23.80	23.80		86.10	86.20		6.74	6.76		12.20	12.33		9.0		0.204		0.003	0.003		30	30		1.2	
	11/3/2021	Fine	15:00	2.7	1.4	21.80	21.80	21.80	8.18	8.18	8.18	31.73	31.73	31.73	83.70	83.90	83.98	6.65	6.65	6.65	13.09	12.93	12.93	10.0	10.6	0.198	0.198	0.002	0.002	0.003	NOT DETECTED	1	1	1.1	1.2
			15:02	2.7	1.4	21.80	21.80		8.18	8.18		31.73	31.73		83.70	83.90		6.65	6.64		12.86	12.82		11.1		0.198		0.002	0.002		NOT DETECTED	1		1.2	
	13/3/2021	Fine	12:58	2.9	1.5	21.40	21.40	21.40	8.14	8.14	8.14	31.98	31.98	31.98	84.10	84.20	83.98	6.44	6.61	6.63	9.49	9.49	9.52	7.9	7.9	0.184	0.183	0.003	0.003	0.003	1	1	2	1.3	1.3
			13:00	2.9	1.5	21.40	21.40		8.14	8.14		31.98	31.98		84.10	84.20		6.68	6.77		9.51	9.59		7.9		0.181		0.003	0.003		2	2		1.2	
	15/3/2021	Fine	08:10	2.9	1.5	22.00	22.00	22.00	7.89	7.89	7.89	32.04	32.04	32.04	87.20	87.30	87.30	6.33	6.34	6.34	12.62	12.61	12.60	11.0	10.9	0.157	0.157	0.001	0.001	0.002	NOT DETECTED	1	1	2.3	2.1
			08:12	2.9	1.5	22.00	22.00		7.89	7.89		32.04	32.04		87.30	87.40		6.34	6.34		12.60	12.59		11.0		0.158		0.002	0.002		NOT DETECTED	1		1.8	
17/3/2021	Fine	08:54	2.9	1.5	22.90	22.90	22.90	8.01	8.01	8.01	32.17	32.17	32.17	83.40	83.70	83.55	5.95	5.97	5.98	3.54	3.54	3.54	1.9	1.9	0.165	0.165	0.002	0.002	0.002	NOT DETECTED	1	1	1.4	1.3	
		08:56	2.9	1.5	22.90	22.90		8.01	8.01		32.17	32.17		84.00	84.30		5.99	6.01	5.98	3.54	3.53		1.8		0.165		0.002	0.002		NOT DETECTED	1		1.2		
19/3/2021	Fine	09:10	2.3	1.2	23.60	23.60	23.60	8.17	8.17	8.17	31.94	31.94	31.94	84.30	84.30	84.25	5.95	5.95	5.95	5.68	5.58	5.65	1.4	1.8	0.245	0.249	0.005	0.005	0.006	NOT DETECTED	1	1	1.5	1.6	
		09:12	2.3	1.2	23.60	23.60		8.17	8.17		31.94	31.94		84.20	84.30		5.95	5.95		5.67	5.56		2.1		0.253		0.006	0.006		NOT DETECTED	1		1.7		
23/3/2021	Fine	08:08	2.5	1.3	20.50	20.50	20.50	7.53	7.53	7.53	32.70	32.70	32.70	78.60	78.60	78.54	5.84	5.84	5.84	13.66	13.66	13.66	9.1	9.1	0.105	0.104	<0.001	0.001	0.001	NOT DETECTED	1	1	2.0	2.1	
		08:10	2.5	1.3	20.50	20.50		7.53	7.53		32.70	32.70		78.50	78.40	78.53	5.83	5.82	5.83	13.66	13.66		9.8	9.5	0.103		<0.001	0.001		NOT DETECTED	1		2.2		
25/3/2021	Fine	14:35	2.8	1.4	22.40	22.40	22.40	8.17	8.17	8.17	32.62	32.62	32.63	93.30	92.50	93.02	6.70	6.65	6.69	10.24	10.24	10.29	12.7	12.0	0.073	0.074	<0.001	0.001	0.001	NOT DETECTED	1	1	1.2	1.2	
		14:37	2.8	1.4	22.40	22.40		8.18	8.18		32.63	32.63		92.68	93.60		6.67	6.73		10.37	10.30		11.2		0.072		<0.001	0.001		NOT DETECTED	1		1.2		
27/3/2021	Cloudy	17:42	2.7	1.4	24.10	24.10	24.10	8.25	8.25	8.25	32.57	32.57	32.57	95.40	95.60	95.30	6.65	6.66	6.64	6.84	6.72	6.75	4.8	4.3	0.030	0.030	<0.001	0.001	0.001	NOT DETECTED	1	1	1.8	1.8	
		17:42	2.7	1.4	24.10	24.10		8.25	8.25		32.57	32.57		95.40	95.60		6.65	6.61		6.72	6.72		3.8		0.030		<0.001	0.001		NOT DETECTED	1		1.8		
29/3/2021	Fine	18:40	2.8	1.4	25.20	25.20	25.20	8.29	8.29	8.29	32.86	32.86	32.86	106.00	107.00	107.25	7.28	7.32	7.33	5.64	5.66		1.6	1.7	0.011	0.011	<0.001	0.001	0.001	NOT DETECTED	1	1	2.2	2.2	
		18:46	2.8	1.4	25.20	25.20		8.29	8.29		32.86	32.86		106.00	107.00		7.28	7.32		5.64	5.66		1.6		0.011		<0.001	0.001		NOT DETECTED	1		2.2		



Baseline Water Quality Monitoring at Station SR10 (Bottom) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UIA mg/L			E.Coli CFU/100mL			B.O.D mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	V	AVG	Value	V	AVG	Value	AVG
SR10	3/3/2021	Cloudy	15:17	3.2	2.2	20.10	20.10	20.10	8.03	8.03	30.62	30.62	81.50	82.00	6.18	6.22	9.35	9.38	6.5	5.9	0.225	0.208	0.003	0.003	0.003	NOT DETECTED	1	1	0.8	0.9	
			15:20	3.2	2.2	20.10	20.10	20.10	8.03	8.03	30.62	30.62	81.10	81.50	6.15	6.17	9.49	9.50	5.3		0.191		0.003	0.003		NOT DETECTED	1		0.9		
	5/3/2021	Cloudy																													
	9/3/2021	Cloudy																													
	11/3/2021	Fine																													
	13/3/2021	Fine																													
	15/3/2021	Fine																													
	17/3/2021	Fine																													
	19/3/2021	Fine																													
	23/3/2021	Fine																													
	25/3/2021	Fine																													
	27/3/2021	Cloudy																													
29/3/2021	Fine																														

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station SR10 (Bottom) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH -		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UIA mg/L			E.Coli CFU/100mL			B.O.D mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	V	AVG	Value	V	AVG	Value	AVG		
SR10	3/3/2021	Cloudy	10:46	3.1	2.1	20.10	20.10	20.10	8.12	8.12	31.72	31.72	31.72	85.00	85.20	6.40	6.42	30.27	30.27	42.5	41.7	0.094	0.098	0.002	0.002	0.002	1	1	3	1.0	1.0
			10:48	3.1	2.1	20.10	20.10		8.12	8.12	31.72	31.72		84.10	84.40	6.33	6.36	30.28	30.27			0.101			0.002	0.002	4	4			
	5/3/2021	Cloudy																													
	9/3/2021	Cloudy																													
	11/3/2021	Fine																													
	13/3/2021	Fine																													
	15/3/2021	Fine																													
	17/3/2021	Fine																													
	19/3/2021	Fine																													
	23/3/2021	Fine																													
	25/3/2021	Fine																													
	27/3/2021	Cloudy																													
	29/3/2021	Fine																													

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.



Lam Environmental Service Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022).

Baseline Water Quality Monitoring at Station SR12 (Middle) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C			pH			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			SS mg/L			TIN mg/L			UJA mg/L			E. Coli CFU/100mL			B.O.D mg/L		
						Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	
SR12	3/3/2021	Cloudy	15:25	1.9	1.0	20.00	20.00	7.98	7.98	7.98	31.13	31.13	86.70	87.20	86.45	6.56	6.59	6.54	10.08	10.10	10.13	6.6	6.5	0.192	0.194	0.002	0.002	0.002	0.002	0.002	1	1	1	0.8	1.0			
			15:27	1.9	1.0	20.00	20.00	7.98	7.98	7.98	31.13	31.13	85.60	86.30	86.48	6.48	6.51	6.48	10.18	10.15	10.13	6.4	6.5	0.195	0.194	0.002	0.002	0.002	0.002	NOT DETECTED	1	1	1	1.1	1.3			
			18:20	1.4	0.7	20.60	20.60	8.05	8.05	8.05	31.87	31.87	89.90	89.70	89.25	6.70	6.68	6.65	5.21	5.42	5.35	3.3	2.7	0.139	0.140	0.002	0.002	0.002	0.002	5	5	5	1.3	1.3				
	5/3/2021	Cloudy	18:22	1.4	0.7	20.60	20.60	8.05	8.05	8.05	31.87	31.87	89.40	88.00	89.25	6.66	6.55	6.65	5.32	5.43	5.35	2.0	2.0	0.140	0.140	0.002	0.002	0.002	0.002	4	4	4	1.2	1.3				
			10:08	1.3	0.7	21.00	21.00	8.11	8.11	8.11	31.80	31.80	86.90	89.30	89.40	6.43	6.61	6.62	6.14	6.14	6.11	5.2	4.9	0.196	0.199	0.003	0.003	0.004	18	18	15	1.2	1.3					
			10:10	1.3	0.7	21.00	21.00	8.11	8.11	8.11	31.80	31.80	90.40	91.00	89.40	6.70	6.74	6.62	6.08	6.07	6.11	4.5	4.9	0.202	0.199	0.004	0.004	0.004	12	12	15	1.2	1.3					
	9/3/2021	Fine	11:15	1.2	0.6	20.90	20.90	8.17	8.17	8.17	31.83	31.83	87.50	87.60	87.60	6.48	6.49	6.49	11.24	11.24	11.28	9.5	9.7	0.216	0.215	0.004	0.004	0.004	0.004	3	3	3	4	0.8	0.9			
			11:17	1.2	0.6	20.90	20.90	8.17	8.17	8.17	31.83	31.83	87.60	87.70	87.60	6.50	6.50	6.49	11.24	11.38	11.28	9.8	9.7	0.213	0.215	0.004	0.004	0.004	0.004	5	5	4	1.0	1.0				
			18:18	0.9	0.5	21.90	21.90	8.00	8.00	8.00	32.04	32.04	88.10	88.20	88.28	6.40	6.42	6.42	8.24	8.23	8.23	7.3	7.5	0.170	0.173	0.003	0.003	0.003	0.003	NOT DETECTED	1	1	1.2	1.3				
	13/3/2021	Fine	18:20	0.9	0.5	21.90	21.90	8.00	8.00	8.00	32.04	32.04	88.30	88.50	88.28	6.42	6.44	6.42	8.22	8.22	8.23	7.6	7.6	0.176	0.176	0.003	0.003	0.003	0.003	NOT DETECTED	1	1	1.4	1.4				
			14:40	0.9	0.5	23.80	23.80	8.05	8.05	8.05	32.12	32.12	96.80	96.40	97.50	6.92	6.89	6.84	6.52	6.50	6.51	5.9	5.8	0.154	0.152	0.003	0.003	0.003	0.003	NOT DETECTED	1	1	1.2	1.2				
			14:42	0.9	0.5	23.80	23.80	8.05	8.05	8.05	32.12	32.12	96.70	96.30	97.50	6.79	6.76	6.84	6.50	6.50	6.51	5.6	5.8	0.150	0.152	0.003	0.003	0.003	0.003	1	1	1	1.2	1.2				
	15/3/2021	Fine	14:50	1.0	0.5	24.50	24.50	8.11	8.11	8.11	32.26	32.26	89.70	90.30	90.30	6.22	6.27	6.27	2.66	2.65	2.65	2.6	3.1	0.153	0.152	0.004	0.004	0.004	0.004	NOT DETECTED	1	1	0.6	0.7				
			14:52	1.0	0.5	24.50	24.50	8.11	8.11	8.11	32.26	32.26	90.60	90.60	90.30	6.29	6.29	6.27	2.64	2.63	2.63	2.6	3.1	0.151	0.152	0.004	0.004	0.004	0.004	NOT DETECTED	1	1	0.7	0.7				
			15:23	1.0	0.5	24.00	24.00	8.21	8.21	8.21	31.75	31.75	90.00	89.90	89.53	6.31	6.31	6.28	3.17	3.16	3.16	2.3	2.0	0.223	0.225	0.006	0.006	0.006	0.006	NOT DETECTED	1	1	1.7	1.6				
	19/3/2021	Fine	15:25	1.0	0.5	24.00	24.00	8.21	8.21	8.21	31.75	31.75	89.30	88.90	89.53	6.26	6.23	6.28	3.15	3.14	3.16	1.7	2.0	0.227	0.225	0.006	0.006	0.006	0.006	NOT DETECTED	1	1	1.5	1.5				
			19:45	1.0	0.5	20.60	20.60	7.59	7.59	7.59	32.60	32.60	88.00	89.00	89.20	6.53	6.60	6.62	6.57	6.57	6.58	5.0	4.7	0.096	0.096	<0.001	0.001	0.001	4	4	4	1.2	1.3					
			19:47	1.0	0.5	20.60	20.60	7.59	7.59	7.59	32.60	32.60	89.90	89.90	89.20	6.67	6.67	6.62	6.53	6.63	6.58	4.3	4.7	<0.001	0.001	0.001	<0.001	0.001	4	4	4	1.4	1.3					
	23/3/2021	Fine	09:44	1.1	0.6	21.80	21.80	8.19	8.19	8.19	32.47	32.47	86.60	86.60	86.65	6.29	6.29	6.30	7.23	7.44	7.31	4.6	5.0	0.099	0.106	<0.001	0.001	0.001	0.001	NOT DETECTED	1	1	0.8	0.9				
			09:46	1.1	0.6	21.80	21.80	8.19	8.19	8.19	32.47	32.49	86.70	86.70	86.65	6.30	6.30	6.30	7.42	7.16	7.31	4.4	5.0	0.104	0.104	0.001	0.001	0.001	0.001	NOT DETECTED	1	1	1.0	1.0				
			10:35	1.0	0.5	22.70	22.70	8.20	8.20	8.20	32.64	32.64	97.20	97.00	97.13	6.94	6.93	6.94	8.51	8.49	8.49	4.1	3.6	0.019	0.019	<0.001	0.001	0.001	0.001	NOT DETECTED	1	1	1.9	1.9				
	27/3/2021	Cloudy	10:37	1.0	0.5	22.70	22.70	8.20	8.20	8.20	32.64	32.64	97.00	97.30	97.13	6.93	6.95	6.94	8.48	8.49	8.49	3.0	3.6	0.019	0.019	<0.001	0.001	0.001	0.001	NOT DETECTED	1	1	1.8	1.8				
			11:25	1.0	0.5	23.90	23.90	8.24	8.24	8.24	32.99	32.99	96.20	97.00	96.93	6.72	6.77	6.77	5.47	5.55	5.49	3.7	3.4	<0.010	0.010	<0.001	0.001	0.001	0.001	NOT DETECTED	1	1	1.4	1.5				
			11:27	1.0	0.5	23.90	23.90	8.24	8.24	8.24	32.99	32.99	97.10	97.40	96.93	6.78	6.80	6.77	5.48	5.47	5.49	3.0	3.4	<0.010	0.010	<0.001	0.001	0.001	0.001	NOT DETECTED	1	1	1.5	1.5				

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station SR12 (Middle) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C			pH			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			SS mg/L			TIN mg/L			UJA mg/L			E. Coli CFU/100mL			B.O.D mg/L		
						Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	
SR12	3/3/2021	Cloudy	10:55	1.8	0.9	19.90	19.90	8.05	8.05	8.05	31.94	31.94	93.70	93.90	92.80	7.06	7.09	7.00	17.14	17.13	17.00	18.4	17.8	0.092	0.090	0.002	0.002	0.002	NOT DETECTED	1	1	1.1	1.2					
			10:57	1.8	0.9	20.00	20.00	8.05	8.05	8.05	31.94	31.94	91.60	92.00	92.80	6.90	6.94	7.00	16.87	16.85	17.00	17.2	17.8	0.088	0.090	0.001	0.001	0.001	NOT DETECTED	1	1	1.1	1.1					
			11:35	1.5	0.8	20.30	20.30	7.96	7.96	7.96	31.85	31.85	86.50	86.80	87.00	6.49	6.51	6.53	7.47	7.45	7.40	5.5	5.6	0.145	0.138	0.002	0.002	0.002	NOT DETECTED	1	1	1.4	1.6					
			11:37	1.5	0.8	20.30	20.30	7.96	7.96	7.96	31.85	31.85	87.00	87.70	87.00	6.52	6.58	6.53	7.34	7.34	7.40	5.6	5.6	0.130	0.138	0.002	0.002	0.002	NOT DETECTED	1	1	1.7	1.7					
			15:10	1.5	0.8	20.30	20.30	8.06	8.06	8.06	31.79	31.79	87.00	87.20	87.30	6.52	6.54	6.55	5.94	5.92	5.92	2.9	3.4	0.183	0.184	0.003	0.003	0.003	10	10	8	1.3	1.2					
			15:12	1.5	0.8	20.30	20.30	8.06	8.06	8.06	31.79	31.79	87.40	87.60	87.30	6.55	6.57	6.55	5.91	5.90	5.92	3.9	3.4	0.184	0.184	0.003	0.003	0.003	6	6	8	1.1	1.1					
			15:08	1.4	0.7	21.70	21.70	8.18	8.18	8.18	31.85	31.85	88.60	89.00	89.30	6.51	6.58	6.51	5.94	5.92	5.92	3.4	3.4	0.184	0.184	0.003	0.003	0.003	NOT DETECTED	1	1	1.1	1.2					
			15:10	1.4	0.7	21.70	21.70	8.18	8.18	8.18	31.85	31.85	89.50	90.10	89.30	6.54	6.58	6.53	7.20	7.21	7.20	6.4	5.9	0.184	0.195	0.005	0.005	0.005	NOT DETECTED	1	1	1.2	1.2					
			13:05	1.3	0.7	21.40	21.40	8.12	8.12	8.12	31.98	31.98	88.20	88.20	88.73	6.48	6.48	6.52	6.15	6.16	6.16	6.1	6.4	0.184	0.185	0.003	0.003	0.003	NOT DETECTED	1	1	1.3	1.3					
			13:07	1.3	0.7	21.40	21.40	8.12	8.12	8.12	31.98	31.98	88.90	89.60	88.73	6.53	6.58	6.52	6.17	6.17	6.17	5.4	5.4	0.185	0.185	0.003	0.003	0.003	1	1	1.2	1.2						
			08:18	1.3	0.7	21.80	21.80	7.92	7.92	7.92	32.16	32.16	86.00	86.80	86.75	6.27	6.30	6.31	7.50	7.41	7.45	4.4	4.5	0.161	0.160	0.002	0.002	0.002	NOT DETECTED	1	1	1.2	1.2					
			15:20	1.3	0.8	21.80	21.80	7.92	7.92	7.92	32.16	32.16	86.00	86.80	86.75	6.27	6.30	6.31	7.50	7.41	7.45	4.4	4.5	0.161	0.160	0.002	0.002	0.002	NOT DETECTED	1	1	1.2	1.2					
17/3/2021	Fine	09:03	1.1	0.6	22.70	22.70	8.02	8.02	8.02	32.26	32.26	81.80	82.00	82.20	5.85	5.87	5.86	3.43	3.43	3.43	2.8	3.2	0.161	0.157	0.003	0.003	0.003	NOT DETECTED	1	1	1.2	1.2						
		09:05	1.1	0.6	22.70	22.70	8.02	8.02	8.02	32.26	32.26	82.10	82.00	82.20	5.87	5.84	5.86	3.43	3.43	3.43	2.8	3.2	0.161	0.157	0.003	0.003	0.003	NOT DETECTED	1	1	1.1	1.1						
19/3/2021	Fine	09:03	1.4	0.7	23.50	23.50	8.18	8.18	8.18	31.90	31.90	84.40	84.40	84.38	5.97	5.97	5.97	5.89	5.89	5.89	1.9	1.9	0.165	0.163	0.004	0.004	0.004	NOT DETECTED	1	1	1.8	1.8						
		09:05	1.4	0.7	23.50	23.50	8.18	8.18	8.18	31.90	31.90	84.40	84.40	84.38	5.97	5.96	5.97	5.89	5.89	5.89	1.9	1.9	0.160	0.160	0.004	0.004	0.004	NOT DETECTED	1	1	1.8	1.8						
23/3/2021	Fine	08:00	1.3	0.7	19.00	19.00	7.44	7.44	7.44	31.84	31.84	88.00	88.00	87.95	6.76	6.76	6.76	9.75	9.75	9.75	6.5	6.1	0.137	0.139	<-0.001	0.001	0.001	NOT DETECTED	15	15	18	2.8	2.6					
		08:02	1.3	0.7	19.00	19.00	7.44	7.44	7.44	31.84	31.84	88.00	87.80	87.95	6.76	6.74	6.75	9.75	9.75	9.75	6.5	6.1	0.137	0.139	<-0.001	0.001	0.001	NOT DETECTED	15	15	18	2.8	2.6					
25/3/2021	Fine	14:25	1.2	0.6	22.00	22.00	8.14	8.14	8.14	32.62	32.62	73.70	73.70	88.75	6.74	6.74	6.75	7.46	7.46	7.46	8.2	8.3	0.076	0.073	<-0.001	0.001	0.001	NOT DETECTED	1	1	1.2	1.2						
		14:27	1.2	0.6	22.00	22.00	8.14	8.14	8.14	32.62	32.62	93.80	93.80	88.75	6.75	6.75	6.75	7.46	7.47	7.46	8.4	8.0	0.070	0.070	<-0.001	0.001	0.001	NOT DETECTED	1	1	1.2	1.2						
27/3/2021	Cloudy	17:47	1.3	0.7	24.00	24.00	8.29	8.29	8.29	32.69	32.69	105.50	105.90	105.83	7.37	7.40	7.40	7.07	7.07	7.07	5.0	5.0	0.016	0.017	<-0.001	0.001	0.001	NOT DETECTED	1	1	1.6	1.7						
		17:47	1.3	0.7	24.00	24.00	8.29	8.29	8.29	32.68	32.68	105.50	105.90	105.83	7.41	7.40	7.40	7.07	7.07	7.07	5.0	5.0	0.016	0.017	<-0.001	0.001	0.001	NOT DETECTED	1	1	1.6	1.7						
29/3/2021	Fine	18:45	1.2	0.6	24.50	24.50	8.30	8.30	8.31	32.80	32.80	107.30	107.90	108.28	7.43	7.47	7.50	5.58	5.57	5.56	1.9	1.9	<-0.010	0.010	<-0.001	0.001	0.001	NOT DETECTED	1	1	1.9	2.1						
		18:47	1.2	0.6	24.50	24.50	8.30	8.31	8.31	32.81	32.81	108.70	109.20	108.28	7.52	7.56	7.50	5.55	5.53	5.56	2.3	1.9	<-0.010	0.010	<-0.001	0.001	0.001	NOT DETECTED	1	1	2.2	2.2						



Lam Environmental Service Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022).

Baseline Water Quality Monitoring at Station SR15 (Middle) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C				pH				Salinity ppt				DO Saturation %				DO mg/L				Turbidity NTU				SS mg/L				TIN mg/L				UJA mg/L				E Coli CFU/100mL				B.O.D mg/L			
						Value		AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG									
SR15	3/3/2021	Cloudy	14:05	2.1	1.1	20.10	20.10	20.10	8.06	8.06	8.06	31.05	31.05	31.05	80.40	80.44	80.37	6.07	6.08	6.07	9.91	9.95	9.94	7.6	8.1	0.25	0.24	0.004	0.004	0.004	NOT DETECTED	1	1	1	0.3	0.4													
			14:07	2.1	1.1	20.10	20.10		8.06	8.06		31.05	31.05		80.30	80.35		6.07	6.07		9.97	9.94		8.6		0.24		0.004	0.004		NOT DETECTED	1																	
	5/3/2021	Cloudy	17:05	1.5	0.8	21.00	21.00	21.00	8.08	8.08	8.08	31.90	31.90	31.90	86.00	86.20	86.28	6.36	6.37	6.38	9.08	9.09	9.07	6.6	7.0	0.15	0.152	0.003	0.003	0.003	NOT DETECTED	1	1	1	1.3	1.4													
			17:07	1.5	0.8	21.00	21.00		8.08	8.08		31.90	31.90		86.30	86.60		6.38	6.40		9.07	9.05		7.3		0.15		0.003	0.003		NOT DETECTED	1		1	1.4														
	9/3/2021	Cloudy	08:55	1.2	0.6	20.40	20.40	20.40	8.12	8.12	8.12	31.85	31.85	31.85	88.20	88.10	87.98	6.59	6.59	6.58	9.75	9.75	9.75	12.2	11.6	0.21	0.212	0.005	0.005	0.005	NOT DETECTED	1	1	1	1.4	1.7													
			08:57	1.2	0.6	20.40	20.40		8.12	8.12		31.85	31.85		88.00	87.60		6.58	6.56		9.75	9.74		11.0		0.21		0.005	0.005		56	55		1.6															
	11/3/2021	Fine	10:10	1.4	0.7	20.30	20.30	20.30	8.15	8.15	8.15	31.73	31.73	31.73	86.50	86.50	86.43	6.49	6.49	6.49	17.63	17.71	17.71	17.1	17.1	0.20	0.202	0.005	0.005	0.005	NOT DETECTED	1	1	20	1.7	1.8													
			10:12	1.4	0.7	20.30	20.30		8.15	8.15		31.73	31.73		86.40	86.30		6.48	6.48		17.74	17.77		17.0		0.20		0.005	0.005		23	23		1.4															
	13/3/2021	Fine	17:10	0.9	0.5	21.80	21.80	21.80	8.19	8.19	8.19	32.02	32.02	32.02	82.98	83.00	83.22	6.04	6.06	6.07	13.78	13.71	13.72	12.9	13.4	0.17	0.162	0.005	0.005	0.005	NOT DETECTED	1	1	1	1.1	0.9													
			17:12	0.9	0.5	21.80	21.80		8.19	8.19		32.02	32.02		83.20	83.70		6.06	6.10		13.71	13.69		13.8		0.16		0.004	0.004		NOT DETECTED	1		1	0.7														
	15/3/2021	Fine	13:43	1.6	0.8	23.00	23.00	23.00	8.05	8.05	8.05	32.10	32.10	32.10	94.20	94.40	93.68	6.72	6.73	6.68	7.92	7.93	7.93	6.3	6.5	0.16	0.163	0.003	0.003	0.004	NOT DETECTED	1	1	1	1.5	1.4													
			13:45	1.6	0.8	23.00	23.00		8.05	8.05		32.10	32.10		94.20	94.40		6.72	6.73		7.92	7.93		6.3		0.16		0.003	0.003		NOT DETECTED	1		1	1.3														
	17/3/2021	Fine	13:38	1.2	0.6	23.60	23.60	23.60	8.10	8.10	8.10	32.12	32.12	32.12	85.50	85.80	85.75	6.03	6.05	6.05	5.34	5.45	5.41	3.4	4.1	0.18	0.174	0.004	0.004	0.004	NOT DETECTED	1	1	1	1.2	1.1													
			13:40	1.2	0.6	23.60	23.60		8.10	8.10		32.12	32.12		85.90	85.80		6.05	6.05		5.43	5.42		4.8		0.17		0.004	0.004		NOT DETECTED	1		1	1.0														
	19/3/2021	Fine	16:28	1.1	0.6	24.40	24.40	24.40	8.17	8.17	8.17	31.85	31.85	31.85	82.50	82.50	82.38	5.75	5.75	5.74	3.53	3.53	3.56	2.6	2.5	0.18	0.182	0.005	0.005	0.005	NOT DETECTED	1	1	1	1.3	1.6													
			16:30	1.1	0.6	24.40	24.40		8.17	8.17		31.85	31.85		82.30	82.20		5.73	5.73		3.58	3.58		2.3		0.19		0.005	0.005		NOT DETECTED	1		1	1.8														
	23/3/2021	Fine	20:40	1.3	0.7	20.50	20.50	20.50	7.58	7.58	7.58	32.60	32.60	32.60	86.80	86.80	86.90	6.43	6.45	6.45	8.31	8.23	8.25	4.6	5.1	0.11	0.109	<0.001	0.001	0.001	NOT DETECTED	1	1	3	1.2	1.3													
			20:42	1.3	0.7	20.50	20.50		7.58	7.58		32.60	32.60		86.90	87.00		6.46	6.46		8.22	8.23		4.6		0.11		<0.001	0.001		<0.001	0.001		3	3	1.2	1.3												
	25/3/2021	Fine	10:44	1.8	0.9	22.10	22.10	22.10	8.10	8.09	8.09	32.48	32.47	32.47	82.40	79.50	79.93	5.95	5.75	5.78	7.49	7.48	7.48	4.4	4.9	0.10	0.104	<0.001	0.001	0.001	NOT DETECTED	1	1	2	1.2	1.1													
			10:46	1.8	0.9	22.10	22.10		8.09	8.09		32.47	32.47		79.80	79.90		5.71	5.71		7.48	7.47		5.4		0.11		0.001	0.001		2	2		0.9															
	27/3/2021	Cloudy	11:40	1.2	0.6	22.00	22.00	22.00	8.23	8.23	8.23	32.66	32.66	32.66	94.10	96.30	96.48	6.73	6.89	6.90	10.05	10.03	10.03	8.7	9.0	<0.010	0.012	<0.001	0.001	0.001	NOT DETECTED	1	1	2	1.7	2.1													
			11:42	1.2	0.6	22.00	22.00		8.23	8.23		32.66	32.66		97.10	98.40		6.92	7.04		10.02	10.02		9.3		0.01		<0.001	0.001		1	1		2.4															
	29/3/2021	Fine	10:20	1.6	0.8	24.60	24.60	24.60	8.20	8.20	8.20	32.62	32.62	32.63	101.20	101.40	101.20	7.00	7.01	7.00	6.45	6.45	6.43	2.2	2.3	<0.010	0.010	<0.001	0.001	0.001	NOT DETECTED	1	1	7	2.0	2.0													
			10:22	1.6	0.8	24.60	24.60		8.20	8.20		32.63	32.63		101.30	100.90		7.00	6.98		6.43	6.40		2.4		<0.010		<0.001	0.001		6	6		2.0															

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station SR15 (Middle) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UJA			E Coli CFU/100mL			B.O.D mg/L							
						Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		Value					
						AVG		AVG		AVG		AVG		AVG		AVG		AVG		AVG		AVG		AVG	V	AVG	Value	V	AVG	Value	AVG				
SR15	3/3/2021	Cloudy	09:10	2.9	1.5	19.90	19.90	19.90	7.89	7.89	30.63	30.63	87.40	85.60	84.33	6.64	6.46	6.41	12.75	12.78	12.76	33.9	44.3	0.09	0.087	0.001	0.001	0.001	25	25	26	1.3	1.4		
			09:12	2.9	1.5	19.90	19.90		7.89	7.89	30.63	30.63	81.90	82.40		6.20	6.34		12.76	12.75		54.6		0.09		0.001	0.001		26	26		1.5			
			10:10	2.6	1.3	20.40	20.40	20.40	7.91	7.91	31.86	31.86	89.60	90.60	91.08	6.70	6.78	6.81	16.51	16.52	16.52	12.6	12.2	0.14	0.146	0.002	0.002	0.002	10	10	9	1.9	1.9		
			10:12	2.6	1.3	20.40	20.40		7.91	7.91	31.86	31.86	91.30	92.80		6.83	6.94		16.54	16.52		11.7		0.15		0.002	0.002		7	7		1.9			
			13:50	1.5	0.8	20.00	20.00	20.00	8.01	8.01	31.74	31.74	81.40	81.30	81.35	6.13	6.13	6.13	10.42	10.44	10.46	8.1	7.9	0.18	0.184	0.003	0.003	0.003	10	10	13	2.0	1.7		
			13:52	1.5	0.8	20.00	20.00		8.01	8.01	31.74	31.74	81.30	81.40		6.13	6.13		10.47	10.49		7.7		0.18		0.003	0.003		16	16		1.4			
			14:15	1.6	0.8	21.40	21.40	21.40	8.22	8.22	31.97	31.97	86.00	86.40	86.65	6.33	6.36	6.38	14.98	14.98	14.92	14.4	15.1	0.18	0.183	0.005	0.005	0.005	3	3	4	1.2	1.2		
			14:17	1.6	0.8	21.40	21.40	21.40	8.22	8.22	31.97	31.97	87.00	87.20	86.65	6.40	6.42	6.42	14.87	14.86	14.92	15.8	15.1	0.18	0.183	0.005	0.005	0.005	5	5		1.2	1.2		
			12:05	1.5	0.8	20.80	20.80	20.80	8.17	8.17	31.91	31.91	86.90	86.60	86.53	6.45	6.42	6.42	10.18	10.18	10.19	6.5	6.6	0.18	0.180	0.004	0.004	0.004	14	14	14	1.5	1.5		
			12:07	1.5	0.8	20.80	20.80	20.80	8.17	8.17	31.91	31.91	86.40	86.20	86.53	6.41	6.39		10.18	10.20		6.6	6.6	0.18	0.180	0.004	0.004		13	13	14	1.4			
			07:15	1.8	0.9	21.00	21.00	21.00	7.93	7.93	32.03	32.03	90.00	90.60	90.65	6.65	6.69	6.70	8.33	8.40	8.39	5.2	5.2	0.19	0.183	0.003	0.003	0.003	16	16	16	1.6	1.7		
			08:00	1.4	0.9	21.00	21.00	21.00	7.93	7.93	32.03	32.03	90.00	90.60	90.65	6.73	6.73	6.73	8.40	8.40	8.40	5.2	5.2	0.19	0.183	0.003	0.003		16	16		1.7			
			08:03	1.4	0.7	22.70	22.70	22.70	7.93	7.93	32.09	32.09	87.80	87.90	87.83	6.29	6.30	6.30	5.70	5.70	5.70	4.2	3.9	0.18	0.178	0.003	0.003	0.003	1	2	1	1.8	1.7		
			08:05	1.4	0.7	22.70	22.70	22.70	7.93	7.93	32.09	32.09	88.00	87.60	87.83	6.31	6.28	6.30	5.70	5.70	5.70	3.5	3.9	0.18	0.178	0.003	0.003		2	2		1.8	1.7		
			10:23	1.4	0.7	23.60	23.60	23.60	8.18	8.18	31.84	31.84	85.00	85.40	85.53	6.01	6.04	6.05	3.81	3.81	3.80	3.1	2.7	0.20	0.206	0.006	0.006	0.006	3	3	3	1.2	1.4		
			10:05	1.4	0.7	23.60	23.60	23.60	8.18	8.18	31.84	31.84	85.70	85.40	85.63	6.08	6.08	6.08	3.76	3.80	3.80	2.2	2.2	0.21	0.206	0.006	0.006		2	2		1.6			
		08:58	1.6	0.8	20.30	20.30	20.30	7.52	7.52	32.56	32.56	80.30	80.30	80.30	5.90	5.90	5.90	9.50	9.50	9.50	8.6	8.2	0.13	0.131	<0.001	0.001		9	9	27	1.4	1.5			
		09:00	1.6	0.8	20.30	20.30	20.30	7.52	7.52	32.56	32.56	79.80	80.10	80.13	5.96	5.98	5.98	9.50	9.50	9.50	8.6	8.2	0.13	0.131	<0.001	0.001		9	9	27	1.4	1.5			
23/3/2021	Fine	15:30	1.3	0.7	22.20	22.20	22.20	8.09	8.09	32.57	32.57	87.60	87.90	87.93	6.31	6.33	6.34	10.56	10.55	10.55	10.3	12.6	0.11	0.105	0.002	0.002	0.002	NOT DETECTED	1	1	1	1.2	1.2		
		15:32	1.3	0.7	22.20	22.20	22.20	8.09	8.09	32.57	32.57	88.10	88.10	87.93	6.35	6.35	6.35	10.55	10.52	10.55	12.2	12.6	0.10	0.105	0.001	0.001		NOT DETECTED	1	1	1	1.1	1.1		
		16:55	1.2	0.6	24.10	24.10	24.10	8.26	8.26	32.44	32.44	111.70	111.10	112.25	7.79	7.89	7.87	9.57	9.51	9.52	7.8	8.2	<0.010	0.012	<0.001	0.001	0.001	NOT DETECTED	1	1	1	2.6	2.4		
		16:57	1.2	0.6	24.10	24.10	24.10	8.27	8.27	32.45	32.45	113.10	113.10	113.25	7.89	7.89	7.87	9.50	9.50	9.50	8.5	8.5	<0.001	0.001	0.001	0.001	0.001	NOT DETECTED	1	1	1	2.1	1.9		
		17:50	1.4	0.7	25.60	25.60	25.60	8.26	8.26	32.73	32.73	102.10	102.90	103.68	6.93	6.99	6.98	6.88	6.84	6.80	4.9	4.5	<0.010	0.010	<0.001	0.001	0.001	NOT DETECTED	1	1	1	1.6	1.8		
		29/3/2021	Fine	17:52	1.4	0.7	25.60	25.60	25.60	8.26	8.26	32.73	32.73	104.00	105.00	103.68	7.06	7.18	7.04	6.74	6.74	6.80	4.9	4.5	<0.010	0.010	<0.001	0.001	0.001	NOT DETECTED	1	1	1	1.6	1.8



Lam Environmental Service Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022)

Baseline Water Quality Monitoring at Station CE (surface) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C			pH			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			SS mg/L			TIN mg/L			UIA mg/L			E. Coli CFU/100mL			B.O.D mg/L				
						Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		V	AVG	Value		V	AVG	Value		AVG
CE	3/3/2021	Cloudy	15:30	9.5	1.0	20.10	20.10	20.10	8.03	8.03	8.03	30.96	30.96	30.96	82.60	81.20	80.98	6.26	8.12	6.63	9.22	9.28	9.34	7.0	6.9	0.233	0.235	0.004	0.004	0.004	5	5	6	0.8	0.8					
			15:32	9.5	1.0	20.10	20.10	20.10	8.03	8.03	8.03	30.96	30.96	79.80	80.30		6.06	6.09		9.44	9.40		6.7		0.237		0.004	0.004		7	7		0.8							
			18:27	9.3	1.0	20.50	20.50	20.50	8.07	8.07	8.07	32.00	32.00	89.80	90.10	89.65	6.70	6.72	6.70	6.35	6.34	6.34	3.6	3.4	0.149	0.146	0.003	0.003	0.003	NOT DETECTED	1	1	1.0	0.9						
	5/3/2021	Cloudy	18:30	9.3	1.0	20.50	20.50	20.50	8.07	8.07	8.07	32.00	32.00	89.00	89.70		6.68	6.69		6.34	6.34	6.34	3.2	3.4	0.142	0.146	0.003	0.003		1	1	0.7								
			10:20	8.5	1.0	20.70	20.70	20.70	8.16	8.16	8.16	31.83	31.83	89.30	89.30	89.33	6.63	6.64	6.64	3.94	3.93	3.93	3.7	3.6	0.178	0.179	0.004	0.004	0.004	37	37	41	1.3	1.3						
			10:22	8.5	1.0	20.70	20.70	20.70	8.16	8.16	8.16	31.83	31.83	89.30	89.40		6.65	6.64		3.93	3.93		3.5		0.180		0.004	0.004		44	44		1.3							
	11/3/2021	Fine	11:25	8.2	1.0	20.70	20.70	20.70	8.17	8.17	8.17	31.88	31.88	87.30	87.30	87.35	6.50	6.49	6.50	9.09	9.09	9.09	6.9	7.3	0.202	0.199	0.005	0.005	0.005	1	1	1	0.9	1.2						
			11:27	8.2	1.0	20.70	20.70	20.70	8.17	8.17	8.17	31.88	31.88	87.40	87.40		6.50	6.50		9.09	9.09		7.6		0.196		0.005	0.005		NOT DETECTED	1		1.4							
			16:50	8.0	1.0	21.50	21.50	21.50	8.00	8.00	8.00	32.06	32.06	83.40	83.90	84.93	6.11	6.15	6.23	5.55	5.51	5.68	7.0	6.9	0.167	0.164	0.003	0.003	0.003	NOT DETECTED	1	1	0.6	0.7						
	13/3/2021	Fine	16:52	8.0	1.0	21.50	21.50	21.50	8.00	8.00	8.00	32.06	32.06	85.70	86.70		6.26	6.36		6.34	5.33		6.8		0.160		0.003	0.003		NOT DETECTED	1	1		0.8						
			14:42	7.7	1.0	22.00	22.00	22.00	8.03	8.03	8.03	32.25	32.25	89.80	92.70		6.51	6.72		4.99	4.98		2.1	2.1	0.147		0.003	0.003	0.003	NOT DETECTED	1	1	1.1	1.3						
			14:44	7.7	1.0	22.00	22.00	22.00	8.03	8.03	8.03	32.25	32.25	93.10	93.30	92.23	6.75	6.77	6.69	4.96	4.95	4.97	2.1	2.1	0.143	0.145	0.003	0.003	0.003	NOT DETECTED	1	1		1.1						
	17/3/2021	Fine	15:00	7.6	1.0	23.40	23.40	23.40	8.10	8.10	8.10	32.16	32.16	94.90	94.60	94.48	6.72	6.70	6.69	1.85	1.85	1.85	1.9	2.4	0.166	0.168	0.004	0.004	0.004	NOT DETECTED	1	1	0.9	0.9						
			15:02	7.6	1.0	23.40	23.40	23.40	8.10	8.10	8.10	32.16	32.16	94.30	94.10		6.68	6.66		1.85	1.83		2.8		0.170		0.004	0.004		NOT DETECTED	1		0.8							
			15:05	8.5	1.0	23.70	23.70	23.70	8.20	8.20	8.20	31.65	31.65	85.40	87.50	88.78	6.02	6.17	6.26	2.68	2.67	2.67	2.0	1.7	0.227	0.227	0.006	0.006	0.006	NOT DETECTED	1	1	1.5	1.3						
	19/3/2021	Fine	15:07	8.5	1.0	23.70	23.70	23.70	8.20	8.20	8.20	31.65	31.65	90.30	91.90		6.37	6.48		2.67	2.67		1.3		0.226		0.006	0.006		NOT DETECTED	1		1.0							
			19:30	8.4	1.0	21.20	21.20	21.20	7.62	7.62	7.62	32.78	32.78	88.00	87.10	87.03	6.46	6.39	6.39	7.84	7.85	7.86	4.3	4.0	0.094	0.097	<0.001	0.001	0.001	NOT DETECTED	1	1	1.0	1.2						
			19:32	8.4	1.0	21.20	21.20	21.20	7.62	7.62	7.62	32.78	32.78	88.70	86.30		6.36	6.33		7.85	7.90		4.3		0.099		<0.001	0.001		NOT DETECTED	1	1		1.4						
	23/3/2021	Fine	11:06	8.4	1.0	22.00	22.00	22.00	8.09	8.09	8.09	32.78	32.78	73.50	73.30	72.60	5.32	5.30	5.25	8.35	8.35	8.35	3.8	3.6	0.087	0.089	<0.001	0.001	0.001	NOT DETECTED	1	1	2.2	2.2						
			11:08	8.4	1.0	22.00	22.00	22.00	8.09	8.08	8.09	32.78	32.78	73.10	70.50		5.29	5.10		8.35	8.35		3.4		0.091		<0.001	0.001		NOT DETECTED	1	1		2.1						
			10:20	8.0	1.0	27.70	27.70	25.20	8.21	8.21	8.21	32.81	32.81	92.80	93.30	93.38	6.62	6.65	6.66	8.45	8.36	8.36	2.4	2.3	0.054	0.055	0.000	0.001	0.001	NOT DETECTED	1	1	3.0	2.9						
	27/3/2021	Cloudy	10:22	8.0	1.0	22.70	22.70	22.70	8.21	8.21	8.21	32.81	32.81	93.60	93.80		6.68	6.69		8.35	8.29		2.1		0.056		<0.001	0.001		NOT DETECTED	1	1	2.8							
			29/3/2021	13:00	8.0	1.0	24.00	24.00	24.00	8.26	8.26	8.26	32.86	32.86	99.80	100.00	99.93	6.96	6.97	6.97	4.69	4.69	4.69	1.8	1.8	0.011	0.013	<0.001	0.001	0.001	NOT DETECTED	1	1	1.3	1.4					
			13:02	8.0	1.0	24.00	24.00	24.00	8.26	8.26	8.26	32.86	32.86	99.90	100.00		6.97	6.97		4.69	4.69		1.7		0.014		<0.001	0.001		NOT DETECTED	1	1	1.4							

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station CE (surface) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature		pH		Salinity		DO Saturation		DO mg/L		Turbidity		SS		TIN		UIA		E. Coli		B.O.D									
						°C				ppt		%		mg/L		NTU		mg/L		mg/L		mg/L		CFU/100mL											
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG				
CE	3/3/2021	Cloudy	11:04	20.10	1.0	20.10	20.10	20.15	8.11	8.11	8.11	31.87	31.87	82.60	82.40	82.20	6.21	6.19	6.18	14.60	14.64	14.62	14.3	13.7	0.098	0.098	0.002	0.002	0.002	NOT DETECTED	1	1	1.1	1.1	
			11:06	10.0	1.0	20.20	20.20		8.11	8.11		31.87	31.87	81.70	82.10		6.14	6.16		14.61	14.63		13.1		0.098		0.002	0.002		NOT DETECTED	1		1.1		
	5/3/2021	Cloudy	11:45	9.9	1.0	20.40	20.40	20.40	8.02	8.02	8.02	31.99	31.99	82.70	81.70	85.18	6.18	6.11	6.37	5.85	5.84	5.84	2.6	2.9	0.129	0.131	0.002	0.002	0.002	1	1	2	1.3	1.5	
			11:47	9.9	1.0	20.40	20.40		8.02	8.02		31.99	31.99	89.60	86.70		6.70	6.49		5.83	5.83		2.6		0.132		0.002	0.002		2	2		1.7		
	9/3/2021		15:20	9.7	1.0	20.30	20.30	20.30	8.06	8.06	8.06	31.81	31.81	88.90	89.30	89.13	6.66	6.69	6.68	5.05	5.10	5.09	2.6	2.5	0.172	0.182	0.003	0.003	0.004	3	3	3	1.0	1.2	
			15:22	9.7	1.0	20.30	20.30		8.06	8.06		31.81	31.81	89.20	89.10		6.68	6.67		5.07	5.13		2.3		0.192		0.004	0.004		3	3		1.4		
	11/3/2021	Fine	15:03	8.6	1.0	21.40	21.40	21.40	8.19	8.19	8.19	31.87	31.87	90.40	90.30	90.28	6.64	6.63	6.63	6.52	6.53	6.54	4.7	4.5	0.188	0.191	0.004	0.004	0.004	NOT DETECTED	1	1		1.2	1.2
			15:05	8.6	1.0	21.40	21.40	21.40	8.19	8.19	8.19	31.87	31.87	90.20	90.20		6.63	6.62		6.54	6.55	6.54	4.2	4.5	0.193	0.191	0.005	0.005	0.005	NOT DETECTED	1		1.2		
	13/3/2021	Fine	11:50	8.6	1.0	21.10	21.10	21.10	8.14	8.14	8.14	32.03	32.03	87.30	89.00	88.88	6.43	6.56	6.55	5.91	5.97	6.01	3.0	2.9	0.175	0.179	0.004	0.004	0.004	NOT DETECTED	1	1	1.2	1.4	
			11:52	8.6	1.0	21.10	21.10		8.14	8.14		32.03	32.03	89.40	89.00		6.59	6.62		6.05	6.10	6.01	2.8		0.183		0.004	0.004		NOT DETECTED	1		1.6		
	15/3/2021	Fine	08:25	8.4	1.0	21.50	21.50	21.50	7.92	7.92	7.92	32.23	32.23	90.80	90.80	90.65	6.57	6.64	6.64	5.05	5.05	5.05	4.2	4.0	0.150	0.153	0.002	0.002	0.002	NOT DETECTED	1	1	1.4	1.3	
			08:27	8.4	1.0	21.50	21.50		7.92	7.92		32.23	32.23	90.90	90.80		6.57	6.64		5.05	5.05	5.05	4.2	4.0	0.150	0.153	0.002	0.002		NOT DETECTED	1		1.4		
	17/3/2021	Fine	09:10	8.0	1.0	22.60	22.60	22.60	8.03	8.03	8.03	32.22	32.22	90.70	90.80	90.75	6.51	6.51	6.51	2.45	2.47	2.47	1.7	1.8	0.158	0.158	0.003	0.003	0.003	NOT DETECTED	1	1	1.0	1.0	
			09:12	8.0	1.0	22.60	22.60		8.03	8.03		32.22	32.22	90.80	90.70		6.51	6.50		2.49	2.48		1.8		0.158		0.003	0.003		NOT DETECTED	1		1.0		
	19/3/2021	Fine	08:49	9.0	1.0	23.50	23.50	23.50	8.03	8.03	8.03	31.98	31.98	84.90	84.90	85.68	6.00	5.94	6.06	4.40	4.49	4.55	1.6	1.8	0.250	0.245	0.005	0.005	0.005	NOT DETECTED	1	1	2.6	2.7	
			08:51	9.0	1.0	23.50	23.50		8.03	8.03		31.98	31.98	84.90	84.90		6.01	6.29		4.63	4.69		1.9		0.240		0.005	0.005		NOT DETECTED	1		2.8		
23/3/2021	Fine	07:45	20.90	20.90	20.90	20.90	7.35	7.35	7.35	32.52	32.52	89.80	89.80	89.48	6.61	6.60	6.60	8.48	8.47	8.48	5.2	5.2	0.104	0.103	0.001	0.001	0.001	NOT DETECTED	1	1	1.1	1.2			
		07:47	9.0	1.0	20.90	20.90	20.90	7.35	7.35		32.52	32.52	89.60	89.40		6.61	6.60		8.48	8.47		5.2		0.104		0.001	0.001		NOT DETECTED	1		1.1			
25/3/2021	Fine	14:00	8.0	1.0	22.50	22.50	22.50	8.08	8.08	8.08	32.78	32.78	98.10	98.00	97.80	7.03	7.02	7.01	5.91	5.92	5.92	3.4	3.2	0.064	0.064	0.001	0.001	0.001	3	4	1.1	1.1			
		14:02	8.0	1.0	22.50	22.50	22.50	8.08	8.08		32.78	32.78	97.60	97.50		6.99	6.99		5.92	5.93	5.92	3.4	3.2	0.063		0.001	0.001		4	4		1.1			
27/3/2021	Cloudy	17:50	8.6	1.0	23.40	23.40	23.40	8.27	8.27	8.27	32.76	32.76	101.80	101.80	101.90	7.18	7.19	7.19	5.52	5.50	5.48	2.4	2.5	0.047	0.047	0.001	0.001	0.001	NOT DETECTED	1	1	1.2	1.4		
		17:52	8.6	1.0	23.40	23.40		8.27	8.27		32.76	32.76	101.90	102.10		7.19	7.20		5.46	5.45		2.6		0.046		0.001	0.001		NOT DETECTED	1		1.6			
29/3/2021		18:50	7.9	1.0	23.80	23.80	23.80	8.29	8.29	8.29	32.97	32.97	99.20	99.40	99.20	7.04	7.04	6.98	6.40	6.40	6.41	3.3	3.3	0.016	0.016	0.001	0.001	0.001	1	1	1.3	1.3			
		18:52	7.9	1.0	23.80	23.80	23.80	8.29	8.29		32.97	32.97	99.90	100.10		7.09	7.01		6.42	6.33		3.3		0.016		0.001	0.001		1	1		1.5	1.4		



Lam Environmental Service Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022).

Baseline Water Quality Monitoring at Station CE (Middle) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UIA mg/L		E. Coli CFU/100mL		B.O.D mg/L								
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	V'	AVG	Value	V'	AVG	Value	V'	AVG	Value	V'	AVG					
CE	3/3/2021	Cloudy	15:35	9.5	4.8	20.00	20.00	20.00	8.04	8.04	8.04	31.12	31.12	77.70	78.00	77.60	5.88	5.90	5.88	9.50	9.52	9.50	6.8	6.6	0.234	0.233	0.004	0.004	0.004	1	1	0.6	0.6	
			15:37	9.5	4.8	20.00	20.00		8.04	8.04		31.12	31.12	77.20	77.50		5.85	5.87		9.50	9.49		6.4		0.231		0.004	0.004		1	1	0.6		
			18:32	9.3	4.7	20.50	20.50	20.50	8.11	8.11	8.11	31.99	31.99	86.30	86.30	86.33	6.44	6.44	6.44	5.04	5.05	5.03	4.4	4.2	0.137	0.145	0.003	0.003	0.004	NOT DETECTED	1	1	1.5	1.4
	5/3/2021	Cloudy	18:35	9.3	4.7	20.50	20.50		8.11	8.11		31.99	31.99	86.40	86.30		6.44	6.44		5.01	5.00		4.4		0.152		0.004	0.004		NOT DETECTED	1	1	1.2	
			10:25	8.5	4.3	20.50	20.50	20.50	8.16	8.16	8.16	31.84	31.84	89.20	89.50	89.40	6.66	6.68	6.67	5.89	5.91	5.91	3.9	4.1	0.180	0.182	0.004	0.004	0.004	54	54	1.5	1.5	
			10:27	8.5	4.3	20.50	20.50		8.16	8.16		31.84	31.84	89.50	89.40		6.68	6.67		5.91	5.91		4.3		0.184		0.004	0.004		58	58	1.4		
	11/3/2021	Fine	11:29	8.2	4.1	20.70	20.70	20.70	8.20	8.20	8.20	31.85	31.85	85.50	85.60	85.68	6.37	6.37	6.38	8.86	8.87	8.89	6.2	6.6	0.197	0.201	0.005	0.005	0.005	NOT DETECTED	1	1	1.0	1.0
			11:31	8.2	4.1	20.70	20.70		8.20	8.20		31.85	31.85	85.70	85.90		6.38	6.39		8.98	8.86		6.9		0.205		0.005	0.005		NOT DETECTED	1	1	1.0	
			16:54	8.0	4.0	21.40	21.40	21.40	8.08	8.08	8.08	32.02	32.02	89.00	89.00	89.25	6.52	6.53	6.54	5.19	5.05	5.09	6.8	6.7	0.184	0.186	0.004	0.004	0.004	NOT DETECTED	1	1	0.9	0.9
	13/3/2021	Fine	16:56	8.0	4.0	21.40	21.40		8.08	8.08		32.02	32.02	89.50	89.50		6.56	6.56		5.05	5.05		6.5		0.188		0.004	0.004		NOT DETECTED	1	1	0.8	
			14:46	7.7	3.9	22.00	22.00	22.00	8.05	8.05	8.05	31.68	31.68	86.80	86.90	86.95	6.38	6.38	6.40	4.38	4.37	4.38	2.9	2.9	0.147	0.147	0.003	0.003	0.003	NOT DETECTED	1	1	1.1	1.1
			14:48	7.7	3.9	22.00	22.00		8.05	8.05		31.68	31.68	87.00	87.10		6.40	6.42		4.38	4.38		2.7		0.147		0.003	0.003		1	1	1.1		
	17/3/2021	Fine	15:04	7.6	3.8	22.90	22.90	22.90	8.12	8.12	8.12	32.20	32.20	84.30	84.50	85.53	6.01	6.03	6.10	2.66	2.66	2.66	2.6	2.2	0.158	0.160	0.004	0.004	0.004	NOT DETECTED	1	1	0.7	0.8
			15:06	7.6	3.8	22.90	22.90		8.12	8.12		32.20	32.20	85.90	87.40		6.12	6.23		2.66	2.67		1.7		0.161		0.004	0.004		NOT DETECTED	1	1	0.8	
			15:09	8.5	4.3	23.40	23.40	23.40	8.21	8.21	8.21	31.58	31.58	82.10	83.10	83.95	5.83	5.90	5.96	2.46	2.44	2.43	1.6	1.6	0.219	0.216	0.006	0.006	0.006	NOT DETECTED	1	1	1.7	1.7
	19/3/2021	Fine	15:11	8.5	4.3	23.40	23.40		8.21	8.21		31.58	31.58	84.90	85.70		6.03	6.09		2.42	2.40		1.5		0.212		0.006	0.006		NOT DETECTED	1	1	1.6	
			19:34	8.4	4.2	21.20	21.20	21.20	7.64	7.64	7.64	32.65	32.65	87.60	87.50	87.68	6.62	6.41	6.48	7.15	7.08	7.08	3.8	4.1	0.097	0.098	<0.001	0.001	0.001	2	2	1.3	1.3	
			19:38	8.4	4.2	21.20	21.20		7.64	7.64		32.65	32.65	87.90	87.70		6.44	6.43		7.07	7.01		3.8		<0.001		0.001			2	2	1.2		
	23/3/2021	Fine	11:10	8.4	4.2	21.80	21.80	21.80	8.08	8.08	8.08	32.61	32.62	76.30	75.30	75.55	5.54	5.47	5.48	7.67	7.72	7.71	3.4	2.8	0.093	0.096	0.001	0.001	0.001	NOT DETECTED	1	1	1.4	1.6
			11:12	8.4	4.2	21.80	21.80		8.08	8.08		32.63	32.64	75.20	75.40		5.45	5.47		7.72	7.72		2.2		0.098		0.001	0.001		NOT DETECTED	1	1	1.7	
			10:25	8.0	4.0	22.70	22.70	22.65	8.23	8.23	8.23	32.79	32.79	94.20	94.00	93.80	6.73	6.70	6.71	7.35	7.40	7.30	3.1	3.1	0.041	0.044	<0.001	0.001	0.001	NOT DETECTED	1	1	2.3	2.3
	27/3/2021	Cloudy	10:27	8.0	4.0	22.60	22.60		8.23	8.23		32.82	32.82	93.30	93.70		6.67	6.70		7.35	7.10		3.1		0.046		<0.001	0.001		1	1	2.3		
			13:10	8.0	4.0	23.50	23.50	23.50	8.26	8.26	8.26	32.88	32.88	95.20	94.90	95.08	6.69	6.68	6.69	5.96	5.83	5.85	2.0	2.2	0.014	0.015	<0.001	0.001	0.001	NOT DETECTED	1	1	1.5	1.6
			13:12	8.0	4.0	23.50	23.50		8.25	8.25		32.87	32.87	95.10	95.10		6.68	6.69		5.83	5.77		2.0		0.015		<0.001	0.001		NOT DETECTED	1	1	1.6	

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station CE (Middle) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C				pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UIA mg/L		E. Coli CFU/100mL		B.O.D mg/L										
						Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG						
						Value	AVG		Value	AVG		Value	AVG		Value	AVG		Value	AVG		Value	AVG		Value	AVG		Value	AVG		Value	AVG		Value	AVG	Value	AVG	Value	AVG
CE	3/3/2021	Cloudy	11:10	10.0	5.0	20.00	20.00	20.00	8.13	8.13	8.13	31.75	31.75	86.90	86.50	86.63	7.19	7.17	7.18	12.48	12.61	12.56	11.0	10.9	0.096	0.093	0.002	0.002	0.002	NOT DETECTED	1	1	1.2	1.2				
			11:12	10.0	5.0	20.00	20.00		8.13	8.13		31.75	31.75	86.50	86.60		7.16	7.18		12.59	12.55		10.7		0.090		0.002	0.002		1	1	1.2						
	5/3/2021	Cloudy	11:50	9.9	5.0	20.40	20.40	20.40	8.05	8.05	8.05	32.03	32.03	88.20	88.30	88.28	6.59	6.60	6.60	6.45	6.44	6.44	2.8	3.3	0.133	0.136	0.003	0.003	0.003	NOT DETECTED	1	1	1.6	1.5				
			11:52	9.9	5.0	20.40	20.40		8.05	8.05		32.03	32.03	88.40	88.20		6.61	6.59		6.43	6.42		3.8		0.139		0.003	0.003		1	1	1.4						
	9/3/2021	Cloudy	15:24	9.7	4.9	20.30	20.30	20.30	8.10	8.10	8.10	31.81	31.81	85.60	85.60	85.58	6.77	6.78	6.77	5.55	5.56	5.56	2.5	2.7	0.182	0.184	0.004	0.004	0.004	5	5	4	1.0	1.1				
			15:26	9.7	4.9	20.30	20.30		8.10	8.10		31.81	31.81	85.70	85.40		6.78	6.76		5.56	5.55		2.8		0.186		0.004	0.004		3	3	1.1						
	11/3/2021	Fine	15:07	8.6	4.3	21.10	21.10	21.10	8.21	8.21	8.21	31.85	31.85	87.10	87.80	87.93	6.43	6.48	6.49	6.50	6.56	6.60	4.0	4.2	0.188	0.189	0.004	0.004	0.004	NOT DETECTED	1	1	1.3	1.4				
			15:09	8.6	4.3	21.10	21.10		8.21	8.21		31.85	31.85	88.20	88.60		6.51	6.54		6.65	6.67		4.3		0.190		0.004	0.004		NOT DETECTED	1	1	1.4					
	13/3/2021	Fine	11:54	8.6	4.3	21.20	21.20	21.20	8.18	8.18	8.18	32.01	32.01	88.40	88.50	88.53	6.51	6.54	6.53	4.89	4.81	4.98	3.0	3.4	0.174	0.174	0.004	0.004	0.004	NOT DETECTED	1	1	1.4	1.3				
			11:56	8.6	4.3	21.20	21.20		8.18	8.18		32.01	32.01	88.60	88.60	88.53	6.52	6.53		5.32	4.90		3.8		0.174		0.004	0.004		NOT DETECTED	1	1	1.2					
	15/3/2021	Fine	08:29	8.4	4.2	21.50	21.50	21.50	7.93	7.93	7.93	32.22	32.22	89.00	89.00	89.08	6.51	6.51	6.52	5.37	5.44	5.38	3.0	3.2	0.166	0.167	0.003	0.003	0.003	38	38	42	1.0	0.9				
			08:31	8.4	4.2	21.50	21.50		7.93	7.93		32.22	32.22	89.10	89.20		6.52	6.52		5.39	5.33		3.2		0.166		0.003	0.003		45	45	0.8						
17/3/2021	Fine	09:14	8.0	4.0	22.60	22.60	22.60	8.03	8.03	8.03	32.21	32.21	87.70	87.50	87.65	6.28	6.27	6.28	2.29	2.29	2.29	1.4	1.7	0.166	0.166	0.003	0.003	0.003	NOT DETECTED	1	1	1.1	1.2					
		09:16	8.0	4.0	22.60	22.60		8.03	8.03		32.21	32.21	87.60	87.80		6.28	6.28		2.29	2.29		1.9		0.166		0.003	0.003		NOT DETECTED	1	1	1.2						
19/3/2021	Fine	08:53	9.0	4.5	23.10	23.10	23.10	8.12	8.12	8.12	31.69	31.69	87.40	88.30	88.56	6.24	6.30	6.32	2.96	2.93	3.00	1.4	1.6	0.240	0.241	0.006	0.006	0.006	NOT DETECTED	1	1	2.2	2.3					
		08:55	9.0	4.5	23.10	23.10		8.12	8.12		31.69	31.69	88.70	88.80		6.33	6.41		3.93	3.52		1.8		0.241		0.006	0.006		NOT DETECTED	1	1	2.3						
23/3/2021	Fine	07:49	9.0	4.5	21.40	21.40	21.40	7.42	7.42	7.42	32.62	32.62	88.30	88.60	88.28	6.46	6.46	6.46	7.50	7.56	7.53	4.0	4.9	0.107	0.108	0.001	0.001	0.001	NOT DETECTED	1	1	1.1	1.3					
		07:51	9.0	4.5	21.40	21.40		7.42	7.42		32.62	32.62	88.30	88.20		6.46	6.46		7.54	7.53		4.4		0.109		0.001	0.001		NOT DETECTED	1	1	1.4						
25/3/2021	Fine	14:05	8.0	4.0	22.20	22.20	22.15	8.15	8.15	8.15	32.17	32.17	97.10	97.20	97.23	7.01	7.01	7.01	4.68	4.61	4.62	3.0	3.5	0.064	0.067	0.001	0.001	0.001	6	6	5	0.9	0.9					
		14:07	8.0	4.0	22.00	22.20		8.15	8.15		32.17	32.17	97.30	97.30		7.01	7.01		4.59	4.59		4.62		0.069		0.001	0.001		4	4	5	0.8	0.9					
27/3/2021	Cloudy	17:57	8.6	4.3	23.30	23.30	23.30	8.28	8.28	8.28	32.77	32.77	98.70	96.40	96.78	6.76	6.81	6.82	4.95	4.94	4.95	3.1	2.9	0.048	0.042	0.001	0.001	0.001	NOT DETECTED	1	1	1.2	1.1					
		17:57	8.6	4.3	23.30	23.30		8.28	8.28		32.78	32.78	96.80	97.20		6.84	6.87		4.95	4.94		2.6		0.048		0.001	0.001		NOT DETECTED	1	1	1.0						
29/3/2021	Fine	18:56	7.9	4.0	23.40	23.40	23.40	8.27	8.27	8.27	32.94	32.94	97.20	96.86	96.85	6.70	6.76	6.76	7.50	7.40	7.40	3.2	2.3	0.010	0.010	0.001	0.001	0.001	NOT DETECTED	1	1	1.1	1.1					
		18:57	7.9	4.0	23.40	23.40		8.27	8.27		32.94	32.94	97.60	96.10	97.58	6.88	6.91	6.88	7.45	7.43	7.46	2.3	2.3	0.010	0.010	0.001	0.001	0.001	NOT DETECTED	1	1	2.2	2.2					



Lam Environmental Service Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022)

Baseline Water Quality Monitoring at Station CE (Bottom) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature		pH		Salinity		DO Saturation		DO		Turbidity		SS		TIN		UIA		E. Coli		B.O.D					
						°C				ppt		%		mg/L		NTU		mg/L		mg/L		mg/L		CFU/100mL		mg/L					
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	V	AVG	Value	V	AVG	Value	V	AVG	Value	V	AVG
CE	3/3/2021	Cloudy	15:40	9.5	8.5	20.00	20.00	20.00	8.06	8.06	31.11	81.60	82.10	8.16	8.20	8.21	9.35	9.42	10.8	9.1	0.236	0.240	0.004	0.004	0.004	2	2	2	0.9	1.0	
			15:42	9.5	8.5	20.00	20.00	20.00	8.06	8.06	31.11	82.50	82.40	8.24	8.24	9.36	9.35	7.3	7.3	0.244	0.240	0.004	0.004	0.004	2	2	1	1.0	1.1		
	5/3/2021	Cloudy	18:37	9.3	8.3	20.50	20.50	20.50	8.12	8.12	31.99	86.00	86.00	8.42	8.41	5.17	5.17	5.18	4.0	4.2	0.142	0.147	0.003	0.003	0.004	NOT DETECTED	1	1	1.1	1.2	
			18:40	9.3	8.3	20.50	20.50	20.50	8.12	8.12	31.99	85.70	85.30	8.40	8.37	5.18	5.19	4.4	4.4	0.151	0.147	0.004	0.004	0.004	NOT DETECTED	1	1	1.3	1.2		
	9/3/2021	Cloudy	10:30	8.5	7.5	20.50	20.50	20.50	8.18	8.18	31.85	88.00	88.10	8.57	8.57	6.57	6.57	4.90	4.2	4.3	0.180	0.182	0.005	0.005	0.005	5	5	6	1.0	1.1	
			10:32	8.5	7.5	20.50	20.50	20.50	8.18	8.18	31.85	88.00	88.10	8.57	8.57	6.57	6.57	4.90	4.2	4.3	0.180	0.182	0.005	0.005	0.005	7	7	6	1.2	1.1	
	11/3/2021	Fine	11:33	8.2	7.2	20.60	20.60	20.60	8.21	8.21	31.86	84.50	84.00	8.37	8.74	8.74	8.74	6.7	6.6	0.192	0.196	0.005	0.005	0.005	NOT DETECTED	1	1	1.2	1.2		
			11:35	8.2	7.2	20.60	20.60	20.60	8.21	8.21	31.86	84.40	80.10	8.34	8.98	8.73	8.73	8.74	6.5	6.6	0.196	0.194	0.005	0.005	0.005	NOT DETECTED	1	1	1.2	1.2	
	13/3/2021	Fine	16:58	8.0	7.0	21.30	21.30	21.30	8.08	8.08	32.02	87.80	89.10	8.83	6.46	6.55	6.55	4.83	4.82	4.83	4.4	0.165	0.161	0.003	0.003	0.003	NOT DETECTED	1	1	0.8	0.8
			17:00	8.0	7.0	21.30	21.30	21.30	8.08	8.08	32.02	89.20	89.20	8.56	8.56	4.84	4.83	4.9	4.9	0.156	0.161	0.003	0.003	0.003	NOT DETECTED	1	1	0.7	0.7		
	15/3/2021	Fine	14:50	7.7	6.7	22.10	22.10	22.10	8.05	8.05	32.22	89.70	89.30	8.90	6.42	6.47	6.49	4.31	4.31	4.31	3.3	0.152	0.151	0.003	0.003	0.003	NOT DETECTED	1	1	1.7	1.6
			14:52	7.7	6.7	22.10	22.10	22.10	8.05	8.05	32.22	89.9	90.20	8.51	8.54	4.31	4.31	4.31	3.4	0.149	0.151	0.003	0.003	0.003	NOT DETECTED	1	1	1.4	1.6		
	17/3/2021	Fine	15:08	7.6	6.6	22.90	22.90	22.90	8.14	8.14	32.20	85.90	87.30	88.15	6.13	6.23	6.29	1.80	1.82	1.82	2.0	0.153	0.152	0.004	0.004	0.004	NOT DETECTED	1	1	0.7	0.7
			15:10	7.6	6.6	22.90	22.90	22.90	8.14	8.14	32.20	89.20	90.20	8.36	8.44	1.83	1.81	1.82	2.0	0.151	0.152	0.004	0.004	0.004	NOT DETECTED	1	1	0.6	0.6		
	19/3/2021	Fine	15:13	8.5	7.5	23.30	23.30	23.30	8.22	8.22	31.59	82.40	82.20	82.90	5.86	5.85	5.90	2.95	2.94	2.93	1.3	0.219	0.222	0.006	0.006	0.006	NOT DETECTED	1	1	1.4	1.4
			15:15	8.5	7.5	23.30	23.30	23.30	8.22	8.22	31.59	83.30	83.70	82.90	5.92	5.95	5.90	2.92	2.91	2.93	1.3	0.224	0.222	0.006	0.006	0.006	NOT DETECTED	1	1	1.3	1.3
	23/3/2021	Fine	19:38	8.4	7.4	21.40	21.40	21.40	7.61	7.61	32.63	87.20	87.20	87.15	6.37	6.36	6.37	9.99	9.99	9.93	4.0	0.103	0.109	<0.001	0.001	0.001	NOT DETECTED	1	1	1.3	1.4
			19:40	8.4	7.4	21.40	21.40	21.40	7.61	7.61	32.63	87.20	87.00	87.15	6.37	6.36	6.37	9.99	9.99	9.93	4.0	0.114	0.109	<0.001	0.001	0.001	NOT DETECTED	1	1	1.3	1.4
	25/3/2021	Fine	11:14	8.4	7.4	21.90	21.90	21.90	8.08	8.08	32.72	78.00	77.40	77.23	6.58	6.50	6.50	7.68	7.66	7.64	2.8	0.087	0.092	<0.001	0.001	0.001	NOT DETECTED	1	1	1.4	1.4
			11:16	8.4	7.4	21.90	21.90	21.90	8.08	8.08	32.75	77.00	76.50	77.23	6.58	6.54	6.54	7.70	7.53	7.64	2.8	0.097	0.092	<0.001	0.001	0.001	NOT DETECTED	1	1	1.4	1.4
	27/3/2021	Cloudy	10:30	8.0	7.0	22.60	22.60	22.60	8.25	8.25	32.79	96.20	96.40	96.40	6.88	6.89	6.89	6.97	6.95	6.99	3.6	0.039	0.041	<0.001	0.001	0.001	NOT DETECTED	1	1	1.8	1.8
			10:32	8.0	7.0	22.60	22.60	22.60	8.25	8.25	32.76	96.50	96.50	96.40	6.89	6.89	6.89	6.94	6.95	6.99	3.6	0.042	0.041	<0.001	0.001	0.001	NOT DETECTED	1	1	1.8	1.8
	29/3/2021	Fine	13:15	8.0	7.0	23.40	23.40	23.40	8.25	8.25	32.38	94.40	94.50	94.60	6.68	6.69	6.69	5.05	4.98	4.99	4.3	0.013	0.013	<0.001	0.001	0.001	NOT DETECTED	1	1	1.6	1.5
			13:17	8.0	7.0	23.40	23.40	23.40	8.25	8.25	32.27	94.70	94.80	94.60	6.69	6.69	6.69	4.97	4.96	4.99	4.3	0.012	0.013	<0.001	0.001	0.001	NOT DETECTED	1	1	1.4	1.5

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station CE (Bottom) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UIA mg/L		E. Coli CFU/100mL		B.O.D mg/L				
						Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		Value		
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value
CE	3/3/2021	Cloudy	11:15	10.0	9.0	19.90	19.90	19.95	8.13	8.13	31.72	83.40	83.70	8.21	8.23	6.19	12.21	12.25	12.22	5.8	5.9	0.002	0.002	0.002	NOT DETECTED	1	1	1.7	1.6	
			11:17	10.0	9.0	20.00	20.00	20.00	8.13	8.13	31.72	81.20	82.60	8.13	8.20	12.20	12.23	5.9	5.9	0.098	0.095	0.002	0.002	0.002	NOT DETECTED	1	1	1.5	1.5	
	5/3/2021	Cloudy	11:55	9.9	8.9	20.40	20.40	20.40	8.07	8.07	32.09	87.60	87.70	8.54	8.55	7.34	7.21	7.17	5.9	5.6	0.127	0.125	0.002	0.002	0.002	10	10	9	1.0	1.2
			11:57	9.9	8.9	20.40	20.40	20.40	8.07	8.07	32.09	87.70	87.80	8.55	8.55	7.08	7.06	7.17	5.2	5.8	0.123	0.125	0.002	0.002	0.002	7	7	9	1.3	1.2
	9/3/2021	Cloudy	15:28	9.7	8.7	20.30	20.30	20.30	8.11	8.11	31.82	84.30	84.30	8.32	8.32	6.04	6.04	6.04	3.5	3.2	0.171	0.173	0.004	0.004	0.004	2	2	2	0.9	1.0
			15:30	9.7	8.7	20.30	20.30	20.30	8.11	8.11	31.82	84.30	84.30	8.32	8.32	6.03	6.04	6.04	2.8	3.2	0.174	0.173	0.004	0.004	0.004	2	2	2	1.0	1.0
	11/3/2021	Fine	15:11	8.6	7.6	21.10	21.10	21.10	8.22	8.22	31.85	88.10	88.20	8.50	8.51	6.89	6.89	6.84	5.3	4.9	0.201	0.196	0.005	0.005	0.005	NOT DETECTED	1	1	0.9	1.1
			15:13	8.6	7.6	21.10	21.10	21.10	8.22	8.22	31.85	88.20	88.20	8.51	8.51	6.87	6.72	6.84	4.4	4.9	0.190	0.196	0.005	0.005	0.005	NOT DETECTED	1	1	1.2	1.1
	13/3/2021	Fine	11:58	8.6	7.6	21.20	21.20	21.20	8.18	8.18	32.01	88.70	88.60	8.54	8.53	4.82	4.81	4.78	3.7	3.5	0.184	0.184	0.005	0.005	0.005	1	1	1	1.4	1.3
			12:00	8.6	7.6	21.20	21.20	21.20	8.18	8.18	32.01	88.60	88.50	8.53	8.52	4.78	4.72	4.72	3.2	3.2	0.183	0.184	0.005	0.005	0.005	1	1	1	1.2	1.2
	15/3/2021	Fine	08:33	8.4	7.4	21.50	21.50	21.50	7.92	7.92	32.21	89.70	89.10	8.53	8.52	5.31	5.25	5.29	2.4	2.3	0.152	0.154	0.002	0.002	0.002	NOT DETECTED	1	1	1.1	1.2
17/3/2021	Fine	08:38	8.4	7.0	22.50	22.50	22.50	7.92	7.92	32.21	89.70	89.10	8.53	8.52	5.31	5.25	5.29	2.4	2.3	0.152	0.154	0.002	0.002	0.002	NOT DETECTED	1	1	1.1	1.2	
		09:20	8.0	7.0	22.60	22.60	22.60	8.06	8.06	32.21	87.50	87.40	8.29	8.28	2.45	2.45	2.45	1.3	1.8	0.160	0.161	0.003	0.003	0.003	NOT DETECTED	1	1	0.7	0.9	
19/3/2021	Fine	08:57	9.0	8.0	23.00	23.00	23.00	8.14	8.14	31.68	86.40	86.60	8.705	8.61	3.69	3.53	3.54	1.8	2.3	0.238	0.241	0.006	0.006	0.006	NOT DETECTED	1	1	1.9	1.9	
		08:59	9.0	8.0	23.00	23.00	23.00	8.14	8.14	31.68	87.40	87.80	8.67	8.60	3.48	3.48	3.48	2.7	2.3	0.243	0.238	0.006	0.006	0.006	NOT DETECTED	1	1	1.8	1.8	
23/3/2021	Fine	07:53	8.0	8.0	21.30	21.30	21.30	7.48	7.48	32.63	86.40	86.30	8.640	8.63	7.30	7.32	7.30	4.1	4.3	0.111	0.110	-0.001	0.001	0.001	NOT DETECTED	1	1	0.8	0.8	
		07:55	9.0	8.0	21.30	21.30	21.30	7.48	7.48	32.63	86.40	86.30	8.640	8.63	7.30	7.32	7.30	4.1	4.3	0.111	0.110	-0.001	0.001	0.001	NOT DETECTED	1	1	1.1	1.0	
25/3/2021	Fine	14:10	8.0	7.0	22.20	22.20	22.20	8.13	8.13	32.62	94.80	94.60	94.95	94.83	4.20	4.21	4.20	5.0	4.6	0.081	0.080	0.001	0.001	0.001	4	4	4	1.0	1.0	
		14:12	8.0	7.0	22.20	22.20	22.20	8.13	8.13	32.62	95.20	95.20	94.95	94.83	4.19	4.20	4.20	4.2	4.6	0.078	0.078	0.001	0.001	0.001	4	4	4	1.0	1.0	
27/3/2021	Cloudy	18:00	8.6	7.6	23.30	23.30	23.30	8.28	8.28	32.72	96.70	96.20	96.40	96.17	6.77	6.80	6.80	4.77	3.6	0.35	0.036	0.040	-0.001	0.001	0.001	NOT DETECTED	1	1	1.3	1.3
		18:02	8.30	7.6	23.30	23.30	23.30	8.28	8.28	32.75	96.70	96.20	96.40	96.17	6.77	6.80	6.80	4.77	3.6	0.35	0.036	0.040	-0.001	0.001	0.001	NOT DETECTED	1	1	1.2	1.2
29/3/2021	Fine	18:00	7.9	6.9	23.30	23.30	23.30	8.27	8.27	32.94	93.90	94.10	94.60	94.62	6.62	6.64	6.64	7.53	7.51	7.52	2.3	2.6	0.012	-0.001	0.001	NOT DETECTED	1	1	1.9	1.9
		19:02	7.9	6.9	23.30	23.30	23.30	8.26	8.26	32.94	95.20	95.20	94.60	94.61	6.71	6.71	6.71	7.50	7.54	7.52	2.3	2.6	0.011	-0.001	0.001	NOT DETECTED	1	1	1.8	1.8

Baseline Water Quality Monitoring at Station CF (surface) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C			pH			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			SS mg/L			TIN mg/L			UIA mg/L			E.Coli CFU/100mL			B.O.D mg/L		
						Value	AVG		Value	AVG		Value	AVG		Value	AVG		Value	AVG		Value	AVG		Value	AVG		Value	AVG		Value	AVG		Value	AVG		Value	AVG	
CF	3/3/2021	Cloudy	13:45	9.3	1.0	20.20	20.20		8.10	8.10		31.41	31.41	31.41	94.60	94.50	94.70	7.13	7.11	7.14	12.64	12.68	13.02	2.7	4.3	0.209	0.004	0.004	0.004	NOT DETECTED	1	1	1	1.0	1.2			
			13:47	9.3	1.0	20.20	20.20		8.10	8.10		31.41	31.41		94.60	95.10		7.13	7.17		13.40	13.34		5.8		0.206	0.004	0.004		1	1	1	1.3					
			16:45	9.2	1.0	21.00	21.00	21.00	8.04	8.04	8.04	32.09	32.09	32.09	89.50	89.90	89.80	6.62	6.65	6.64	7.78	7.74	7.78	4.0	4.2	0.146	0.003	0.003	0.003	NOT DETECTED	1	1	1	1.4	1.6			
	5/3/2021	Cloudy	16:47	9.2	1.0	21.00	21.00		8.04	8.04		32.09	32.09		89.90	89.90		6.65	6.65		7.73	7.85		4.3		0.150	0.003	0.003	0.003	NOT DETECTED	1	1	1	1.7				
			08:40	8.3	1.0	21.00	21.00		8.07	8.07		31.97	31.97	31.97	88.70	88.90	88.78	6.56	6.57	6.57	4.83	4.87	4.90	5.4	5.4	0.201	0.004	0.004	0.004	41	41	39	3.8	3.6				
			08:42	8.3	1.0	21.00	21.00	21.00	8.07	8.07	8.07	31.97	31.97		88.80	88.70		6.57	6.57		4.99	4.92		5.3		0.195	0.004	0.004		36	36	34						
	9/3/2021	Cloudy	09:54	7.9	1.0	20.60	20.60		7.94	7.94		32.01	32.01	32.01	95.30	95.90	95.80	7.09	7.14	7.13	10.55	10.55	10.55	9.1	9.0	0.191	0.003	0.003	0.003	3	3	4	2.7	2.8				
			09:56	7.9	1.0	20.60	20.60	20.60	7.94	7.94	7.94	32.01	32.01	32.01	96.00	96.00	95.80	7.14	7.14	7.13	10.55	10.54	10.55	8.8	9.0	0.187	0.003	0.003	0.003	5	5	4	2.9					
			18:25	8.3	1.0	21.80	21.80	21.80	8.23	8.23	8.23	32.30	32.30	32.30	96.40	96.50	96.33	7.01	7.01	7.01	6.44	6.43	6.42	5.4	5.6	0.154	0.005	0.005	0.005	21	21	18	1.2	1.2				
	13/3/2021	Fine	18:27	8.3	1.0	21.80	21.80		8.23	8.23		32.30	32.30		96.30	96.10		7.01	6.99		6.41	6.38		5.7		0.152	0.004	0.004		14	14	12						
			13:28	7.9	1.0	23.20	23.20	23.20	7.99	7.99	7.99	32.31	32.31	32.31	94.00	93.90	93.85	6.87	6.86	6.86	5.46	5.45	5.45	5.1	5.0	0.185	0.005	0.005	0.005	4	4	4	1.7	1.7				
			13:30	7.9	1.0	23.20	23.20		7.99	7.99		32.31	32.31		93.80	93.70	93.85	6.66	6.66	6.66	5.45	5.45	5.45	4.8	5.0	0.186	0.004	0.004	0.005	3	3	4	1.7					
	17/3/2021	Fine	13:30	7.1	1.0	23.10	23.10		8.01	8.01		32.15	32.15	32.15	91.50	91.40	91.15	6.51	6.51	6.49	4.96	4.82	4.86	3.1	3.2	0.198	0.004	0.004	0.004	NOT DETECTED	1	1	1	0.8	0.9			
			13:32	7.1	1.0	23.10	23.10	23.10	8.01	8.01	8.01	32.15	32.15		91.10	90.60		6.48	6.44		4.82	4.82		3.2		0.198	0.004	0.004		NOT DETECTED	1		0.8					
			16:35	8.7	1.0	23.90	23.90	23.90	8.18	8.18	8.18	31.77	31.77	31.77	87.00	90.20	91.10	6.12	6.34	6.41	3.17	3.27	3.25	1.1	1.4	0.228	0.006	0.006	0.006	NOT DETECTED	1	1	1	1.5	1.5			
	19/3/2021	Fine	16:37	8.7	1.0	23.90	23.90		8.18	8.18		31.77	31.77		92.90	94.30		6.53	6.63		3.28	3.28		1.7		0.236	0.006	0.006		NOT DETECTED	1		1.5					
			20:47	8.2	1.0	21.00	21.00		7.60	7.60		32.56	32.56		86.60	87.40	87.78	6.38	6.44	6.47	4.34	4.20	4.27	2.5	2.5	0.124	<0.001	0.001	0.001	1	1	2	1.2	1.2				
			20:49	8.2	1.0	21.00	21.00	21.00	7.60	7.60	7.60	32.56	32.56	32.56	86.40	86.70		6.51	6.53		4.21	4.19	4.24	2.2		<0.001	0.001		3	2	2							
	23/3/2021	Fine	09:27	8.0	1.0	21.90	21.90		7.99	7.99		32.69	32.69		92.10	91.90	91.88	6.66	6.65	6.65	6.49	6.47	6.44	7.0	7.6	0.099	0.001	0.001	0.001	7	7	9	0.8	0.8				
			09:29	8.0	1.0	21.90	21.90	21.90	7.99	7.99	7.99	32.69	32.69	32.69	91.80	91.70		6.64	6.64	6.65	6.45	6.34		8.2		0.105	0.001	0.001		11	11		0.7					
			11:50	6.0	1.0	22.90	22.90	22.90	8.07	8.07	8.08	32.78	32.78	32.78	95.50	95.50	95.40	6.80	6.80	6.79	8.24	8.22	8.20	3.8	4.1	0.054	<0.001	0.001	0.001	5	5	5	1.2	1.3				
	27/3/2021	Cloudy	11:52	6.0	1.0	22.90	22.90		8.08	8.08		32.79	32.79		95.20	95.40		6.77	6.79		8.15	8.19		4.3		0.057	<0.001	0.001		4	4		1.3					
			29/9/2021	10:05	7.0	1.0	23.50	23.50	23.50	8.01	8.01	8.02	33.05	33.06	33.04	88.00	91.40	89.88	6.25	6.42	6.31	8.23	8.22	8.22	2.4	2.6	0.019	0.019	<0.001	0.001	8	8	7	2.3	2.5			
			10:07	7.0	1.0	23.50	23.50		8.02	8.02		33.02	33.02		89.00	90.10		6.23	6.33		8.21	8.21		2.8		0.019	<0.001	0.001		6	6		2.7					

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station CF (surface) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UIA mg/L		E.Coli CFU/100mL			B.O.D mg/L							
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	V'	AVG	Value	V'	AVG	Value	V'	AVG				
CF	3/3/2021	Cloudy	08:48	10.3	1.0	20.00	20.00	20.00	7.34	7.34	31.64	31.64	31.64	79.80	79.60	79.85	6.02	6.01	6.03	15.58	15.58	15.58	17.4	16.8	0.177	<0.001	0.001	0.001	15	15	12	1.4	1.3	
			08:50	10.3	1.0	20.00	20.00		7.34	7.34		31.64	31.64		79.60	80.40		6.01	6.08		15.56	15.58		16.2		0.182	<0.001	0.001		9	9		1.2	
			09:45	10.0	1.0	20.40	20.40	20.40	7.79	7.79	7.79	32.06	32.06	32.06	93.20	95.60	94.20	6.97	7.15	7.04	12.59	12.50	12.58	3.2	3.5	0.145	0.002	0.002	0.002	2	2	3	2.9	2.6
	5/3/2021	Cloudy	09:47	10.0	1.0	20.40	20.40		7.79	7.79		32.06	32.06		93.40	94.60		6.98	7.07		12.61	12.61		3.8		0.146	0.002	0.002		3	3		2.3	
			13:30	9.1	1.0	20.40	20.40	20.40	7.64	7.64	7.64	31.63	31.63	31.63	97.00	97.00	96.80	7.26	7.26	7.25	9.53	9.99	9.77	5.1	5.6	0.200	0.001	0.001	0.001	42	42	46	2.2	2.1
			13:32	9.1	1.0	20.40	20.40		7.64	7.64		31.63	31.63		96.90	96.30	96.80	7.26	7.21		9.86	9.71		6.0		0.192	0.001	0.001		49	49		1.9	
	9/3/2021	Cloudy	14:00	9.1	1.0	21.50	21.50	21.50	8.16	8.16	8.16	32.14	32.14	32.14	95.40	94.50	94.25	6.98	6.92	6.80	8.48	8.48	8.50	4.4	4.9	0.209	0.005	0.005	0.006	2	2	2	1.4	1.4
			14:02	9.1	1.0	21.50	21.50	21.50	8.16	8.16	8.16	32.14	32.14	32.14	94.00	93.10		6.88	6.81		8.51	8.52		5.3		0.204	0.005	0.005		NOT DETECTED	1		1.4	
			13:15	8.8	1.0	21.10	21.10	21.10	8.13	8.13	8.13	31.38	31.38	31.38	96.40	96.50	96.43	7.12	7.13	7.13	9.42	9.37	9.38	7.0	7.2	0.172	0.004	0.004	0.004	7	7	6	2.5	2.5
	13/3/2021	Fine	13:17	8.8	1.0	21.10	21.10	21.10	8.13	8.13	8.13	31.38	31.38	31.38	96.50	96.30		7.12	7.13		9.37	9.37	9.38	7.4	7.2	0.177	0.004	0.004		4	4	6	2.4	2.4
			07:00	10.1	1.0	21.40	21.40	21.40	7.92	7.92	7.92	32.17	32.17	32.17	95.70	93.80	93.73	6.87	6.88	6.88	9.37	9.23	9.72	7.9	7.8	0.203	0.001	0.003	0.003	43	43	40	2.3	2.3
			07:02	9.10	1.0	21.40	21.40		7.92	7.92		32.17	32.17		95.70	93.80	93.73	6.87	6.88		9.37	9.23	9.72	7.9	7.8	0.203	0.001	0.003		43	43		2.3	
	17/3/2021	Fine	07:45	7.8	1.0	22.40	22.40	22.40	7.67	7.67	7.67	31.90	31.90	31.90	90.60	90.30	90.35	6.54	6.52	6.52	7.23	7.23	7.22	3.9	4.2	0.217	0.002	0.002	0.002	4	4	6	2.8	2.7
			07:47	7.8	1.0	22.40	22.40	22.40	7.67	7.67	7.67	31.90	31.90	31.90	90.30	90.20	90.35	6.54	6.51	6.52	7.22	7.21	7.22	3.9	4.2	0.220	0.002	0.002		7	7	6	2.6	
			10:10	9.5	1.0	23.00	23.00	23.00	8.16	8.16	8.16	31.65	31.65	31.65	84.20	84.30	84.18	6.02	6.03	6.02	2.86	2.87	2.87	2.0	1.8	0.252	0.006	0.006	0.006	NOT DETECTED	1	2	1.2	
	19/3/2021	Fine	10:12	9.5	1.0	23.00	23.00	23.00	8.16	8.16	8.16	31.65	31.65	31.65	84.20	84.30	84.18	6.02	6.03	6.02	2.87	2.88		1.5		0.254	0.006	0.006		3	3		1.1	
			21:08	8.7	1.0	21.30	21.30	21.30	7.44	7.44	7.44	32.63	32.63	32.63	83.90	83.70	83.30	6.02	6.03	6.03	2.87	2.87	2.87	5.0	5.7	0.301	<0.001	0.001	0.001	NOT DETECTED	1	1	1.3	
			09:10	8.7	1.0	21.30	21.30	21.30	7.44	7.44	7.44	32.63	32.63	32.63	81.40	81.90	81.48	5.97	6.03	5.97	8.35	8.35	8.44	5.4	5.4	0.108	<0.001	0.001	0.001	NOT DETECTED	1	1	1.3	
23/3/2021	Fine	15:45	6.4	1.0	22.30	22.30	22.30	7.11	8.11	7.11	31.89	31.89	31.88	94.60	92.50	92.98	6.83	6.65	6.69	4.70	4.54	4.60	5.7	5.3	0.104	<0.001	0.001	0.001	NOT DETECTED	1	1	0.9	1.0	
		15:47	6.4	1.0	22.30	22.30	22.30	8.11	8.11	8.11	31.88	31.88	31.88	92.40	92.40		6.64	6.64		4.54	4.61	4.60	4.9	5.3	0.079	<0.001	0.001		NOT DETECTED	1	1	1.1		
		16:30	7.0	1.0	23.00	23.00	23.00	8.20	8.20	8.20	32.98	32.98	32.98	89.60	90.40	93.03	6.35	6.38	6.59	6.72	6.89	6.84	3.7	3.6	0.038	<0.001	0.001	0.001	NOT DETECTED	1	1	1.3	1.3	
29/3/2021	Fine	16:30	7.0	1.0	23.10	23.10	23.10	8.20	8.20	8.20	32.98	32.98	32.98	89.60	90.90	106.33	6.76	6.86		6.89	6.84		3.5		0.037	<0.001	0.001		NOT DETECTED	1	1	1.3		
		17:30	7.0	1.0	24.90	24.90	24.90	8.12	8.12	8.12	33.02	33.02	33.02	106.80	107.90	106.33	7.47	7.44	7.44	5.44	5.44	5.44	1.9	1.7	0.010	<0.001	0.001		NOT DETECTED	1	1	1.5	1.4	
		17:32	7.0	1.0	24.90	24.90	24.90	8.12	8.12	8.12	33.03	33.03	33.03	106.20	106.90	106.33	7.43	7.40	7.44	5.44	5.45	5.44	1.9	1.7	0.010	<0.001	0.001		NOT DETECTED	1	1	1.4		



Lam Environmental Service Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022).

Baseline Water Quality Monitoring at Station CF (Middle) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C			pH			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			SS mg/L			TIN mg/L			UJA			E. Coli CFU/100mL			B.O.D mg/L		
						Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		V	AVG	Value		AVG		
CF	3/3/2021	Cloudy	13:50	9.3	4.7	20.00	20.00	8.11	8.11	29.35	29.35	89.80	88.40	87.65	6.87	6.76	6.67	9.71	9.77	9.54	5.9	6.2	0.203	0.004	0.004	0.004	NOT DETECTED	1	1	1	0.8	0.8						
			13:52	9.3	4.7	20.00	20.00	8.11	8.11	29.35	29.35	86.00	86.40		6.52	6.54		9.82	8.85		6.5		0.207	0.004	0.004		1	1										
	5/3/2021	Cloudy	16:50	9.2	4.6	20.70	20.70	8.07	8.07	32.06	32.06	86.30	86.30	86.33	6.41	6.41	6.41	7.50	7.71	7.66	7.6	7.3	0.147	0.003	0.003	0.003	4	4	3	1.7	1.8							
			16:52	9.2	4.6	20.70	20.70	8.07	8.07	32.06	32.06	86.40	86.30		6.41	6.41		7.71	7.72	7.66	7.0		0.137	0.003	0.003		2	2		1.8								
	9/3/2021	Cloudy	08:45	8.3	4.2	20.60	20.60	8.11	8.11	31.86	31.86	83.30	83.40	83.35	6.21	6.22	6.22	8.92	8.97	8.95	7.1	7.2	0.184	0.004	0.004	0.004	22	22	25	2.3	2.4							
			08:47	8.3	4.2	20.60	20.60	8.11	8.11	31.86	31.86	83.40	83.30		6.22	6.21	6.22	8.99	8.93		7.3		0.176	0.004	0.004		27	27		2.4								
	11/3/2021	Fine	09:58	7.9	4.0	20.40	20.40	8.09	8.09	31.96	31.96	84.50	84.70	84.70	6.33	6.34	6.34	10.59	10.61	10.60	8.5	8.6	0.197	0.004	0.004	0.004	53	53	61	1.6	1.8							
			10:00	7.9	4.0	20.40	20.40	8.09	8.09	31.96	31.96	84.80	84.80		6.34	6.34		10.62	10.58		8.7		0.190	0.004	0.004		69	69		2.0								
	13/3/2021	Fine	18:29	8.3	4.2	21.20	21.20	8.22	8.22	32.13	32.13	89.70	89.70	89.85	6.59	6.60	6.61	5.71	5.83	5.80	6.4	6.2	0.154	0.004	0.004	0.004	35	35	31	0.8	0.9							
			18:31	8.3	4.2	21.20	21.20	8.22	8.22	32.13	32.13	89.90	90.10		6.61	6.62		5.83	5.83		5.9		0.149	0.004	0.004		28	28		1.0								
	15/3/2021	Fine	13:32	7.9	4.0	22.00	22.00	8.00	8.00	30.90	30.90	91.20	91.80	91.95	6.62	6.66	6.69	5.71	5.57	5.60	4.1	4.3	0.174	0.003	0.003	0.004	8	8	7	1.5	1.5							
			13:34	7.9	4.0	22.00	22.00	8.00	8.00	30.90	30.90	92.30	92.50		6.70	6.76		5.56	5.56	5.60	4.4		0.182	0.004	0.004		5	5										
	17/3/2021	Fine	13:34	7.1	3.6	22.80	22.80	8.06	8.06	32.09	32.09	88.90	88.60	88.60	6.36	6.34	6.34	4.70	4.69	4.69	4.2	4.4	0.184	0.004	0.004	0.004	NOT DETECTED	1	1	1.0	1.1							
			13:36	7.1	3.6	22.80	22.80	8.06	8.06	32.09	32.09	88.50	88.40		6.33	6.32		4.68	4.67	4.69	4.6		0.188	0.004	0.004		NOT DETECTED	1		1.1								
	19/3/2021	Fine	16:39	8.7	4.4	23.60	23.60	8.19	8.19	31.67	31.67	85.80	88.20	88.53	6.07	6.24	6.27	2.88	2.88	2.89	1.8	2.3	0.229	0.006	0.006	0.006	NOT DETECTED	1	1	1.6	1.5							
			16:41	8.7	4.4	23.60	23.60	8.19	8.19	31.67	31.67	89.30	90.80		6.32	6.43		2.89	2.90		2.8		0.233	0.006	0.006		NOT DETECTED	1		1.4								
	23/3/2021	Fine	20:51	8.2	4.1	21.50	21.50	7.61	7.61	32.47	32.47	86.30	86.80	87.65	6.30	6.34	6.40	4.04	4.12	4.10	2.3	2.2	0.130	<0.001	0.001	0.001	3	3	4	1.3	1.4							
			20:53	8.2	4.1	21.50	21.50	7.61	7.61	32.47	32.47	88.30	89.10		6.44	6.50		4.12	4.10		2.0		0.121	<0.001	0.001		<0.001	0.001	4	4		1.3						
	25/3/2021	Fine	09:32	8.0	4.0	21.80	21.80	8.06	8.05	32.60	32.60	87.60	87.40	87.40	6.35	6.34	6.34	6.43	6.20	6.28	7.6	7.1	0.103	0.002	0.002	0.002	6	6	5	0.6	0.7							
			09:34	8.0	4.0	21.80	21.80	8.05	8.05	32.61	32.61	87.30	87.30	87.40	6.33	6.33		6.20	6.27		7.5		0.106	0.001	0.001		4	4		0.7								
	27/3/2021	Cloudy	11:55	6.0	3.0	22.80	22.80	8.13	8.13	32.73	32.73	95.50	96.70	96.88	6.81	6.82	6.84	6.50	6.47	6.44	3.9	4.2	0.050	<0.001	0.001	0.001	29	29	31	2.5	2.4							
			11:57	6.0	3.0	22.80	22.80	8.14	8.14	32.73	32.73	96.10	96.20		6.85	6.86		6.39	6.39		4.4		0.051	<0.001	0.001		33	33		2.2								
	29/3/2021	Fine	10:10	7.0	3.5	23.40	23.40	8.11	8.11	32.71	32.71	93.60	93.50	93.58	6.61	6.59	6.60	7.67	7.68	7.61	3.2	3.2	0.017	<0.001	0.001	0.001	6	6	8	2.1	2.2							
			10:12	7.0	3.5	23.40	23.40	8.11	8.11	32.72	32.72	93.50	93.70	93.58	6.59	6.60		7.53	7.54		3.1		0.019	<0.001	0.001		9	9		2.2								

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station CF (Middle) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UJA			E. Coli FCU/100mL			B.O.D mg/L				
						Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value	V'	AVG	Value	V'	AVG	Value	V'	AVG
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value
CF	3/3/2021	Cloudy	08:52	10.3	5.2	20.20	20.20	7.59	7.59	31.78	31.78	79.40	80.20	81.40	5.99	6.04	6.16	22.49	22.51	22.50	21.7	21.7	0.151	0.001	0.001	0.001	16	16	17	1.2	1.1	
			08:55	10.3	5.2	20.20	20.20	7.59	7.59	31.78	31.78	81.70	80.90		6.31	6.29		22.48	22.50		21.6		0.164	0.001	0.001		18	18		1.0		
	5/3/2021	Cloudy	09:50	10.0	5.0	20.30	20.30	7.88	7.88	31.78	31.78	86.80	81.70	82.73	6.79	6.13	6.28	11.42	11.42	11.38	5.5	5.4	0.139	0.002	0.002	0.002	NOT DETECTED	1	1	2.4	2.2	
			09:52	10.0	5.0	20.30	20.30	7.88	7.88	31.78	31.78	81.70	80.70		6.13	6.05		11.42	11.24		5.3		0.146	0.002	0.002		NOT DETECTED	1		1.9		
	9/3/2021	Cloudy	13:34	9.1	4.6	20.20	20.20	7.91	7.91	31.87	31.87	83.80	84.00	83.90	6.29	6.30	6.30	9.87	9.76	9.75	6.7	7.3	0.200	0.003	0.003	0.003	27	27	25	1.5	1.5	
			13:36	9.1	4.6	20.20	20.20	7.91	7.91	31.87	31.87	84.00	83.80		6.31	6.29	6.30	9.62	9.74		6.9		0.195	0.003	0.003		23	23		1.5		
	11/3/2021	Fine	14:04	9.1	4.6	20.90	20.90	8.18	8.18	31.65	31.65	87.30	87.30	87.20	6.48	6.48	6.48	8.48	8.48	8.50	6.8	7.2	0.220	0.006	0.006	0.006	4	4	4	0.9	1.1	
			14:06	9.1	4.6	20.90	20.90	8.18	8.18	31.65	31.65	87.10	87.10		6.47	6.48		8.51	8.52		7.6		0.224	0.006	0.006		4	4		1.2		
	13/3/2021	Fine	13:19	8.8	4.4	20.90	20.90	8.16	8.16	32.15	32.15	92.00	92.00	92.00	6.81	6.81	6.81	9.60	9.56	9.56	9.6	9.5	0.158	0.004	0.004	0.004	15	15	13	2.1	2.1	
			13:21	8.8	4.4	20.90	20.90	8.16	8.16	32.15	32.15	92.00	92.00		6.81	6.81		9.54	9.53		9.4		0.155	0.004	0.004		11	11		2.0		
	15/3/2021	Fine	07:04	10.1	5.1	21.30	21.30	7.95	7.95	32.02	32.02	89.60	89.80	89.93	6.59	6.60	6.61	7.75	7.74	7.66	7.2	7.3	0.205	0.003	0.003	0.003	29	29	41	2.0	1.9	
07:06			10.1	5.1	21.30	21.30	7.95	7.95	32.02	32.02	90.10	90.20		6.62	6.63		7.58	7.57		7.4		0.203	0.003	0.003		28	28		1.8			
17/3/2021	Fine	07:49	9.7	3.8	22.20	22.20	7.85	7.85	32.01	32.01	87.30	87.00	87.00	6.34	6.19	6.16	5.78	6.19	6.16	5.9	5.7	0.224	0.003	0.003	0.003	11	11	10	1.7	1.4		
		07:51	9.7	3.8	22.20	22.20	7.85	7.85	32.01	32.01	87.10	87.00		6.31	6.31		6.06	6.06		5.9		0.221	0.003	0.003		8	8		1.7			
19/3/2021	Fine	10:14	9.5	4.8	22.80	22.80	8.17	8.17	31.54	31.54	82.90	82.70	82.58	5.95	5.93	5.93	4.31	4.31	4.31	2.0	2.1	0.248	0.006	0.006	0.006	2	2	2	1.1	1.1		
		10:16	9.5	4.8	22.80	22.80	8.17	8.17	31.54	31.54	82.40	82.30		5.92	5.91		4.31	4.31		2.1		0.246	0.006	0.006		1	1		1.1			
23/3/2021	Fine	09:12	8.7	4.4	21.40	21.40	7.48	7.48	32.68	32.68	84.60	85.00	84.60	6.11	6.11	6.11	8.40	8.41	8.42	7.8	7.5	0.107	0.001	0.001	0.001	1	1	1	1.1	1.2		
		09:14	8.7	4.4	21.40	21.40	7.48	7.48	32.68	32.68	84.10	85.20		6.22	6.23		7.42	8.44		7.1		0.104	0.001	0.001		1	1		1.2			
25/3/2021	Fine	15:50	6.4	3.2	22.30	22.30	8.13	8.13	32.89	32.89	88.60	90.30	90.05	6.36	6.49	6.47	4.96	4.83	4.80	5.6	5.6	0.063	0.001	0.001	0.001	NOT DETECTED	1	1	1.2	1.1		
		15:52	6.4	3.2	22.30	22.30	8.13	8.13	32.89	32.89	90.60	90.70		6.51	6.52		4.70	4.71		4.80		0.064	0.001	0.001		NOT DETECTED	1		0.9			
27/3/2021	Cloudy	16:35	7.0	3.5	22.90	22.90	8.22	8.22	32.85	32.83	97.70	98.70	98.58	6.95	7.00	7.01	6.71	6.68	6.63	4.9	4.7	0.039	0.001	0.001	0.001	9	9	7	1.8	1.8		
		16:37	7.0	3.5	22.90	22.90	8.22	8.22	32.85	32.83	99.00	99.00		7.04	7.03		6.57	6.54		4.5		0.042	0.001	0.001		7	7		1.8			
29/3/2021	Fine	17:35	7.9	3.5	24.50	24.50	8.19	8.19	32.97	32.97	102.50	102.10	102.38	7.08	7.05	7.06	4.81	4.72	4.71	4.74	2.0	1.8	0.010	0.001	0.001	0.001	NOT DETECTED	1	1	1.5	1.4	
		17:37	7.0	3.5	24.50	24.50	8.19	8.19	32.97	32.97	102.50	102.40		7.08	7.07		4.71	4.71		4.74		0.010	0.001	0.001		NOT DETECTED	1		1.2			



Lam Environmental Service Limited

Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022).

Baseline Water Quality Monitoring at Station CF (Bottom) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C				pH				Salinity ppt				DO Saturation %				DO mg/L				Turbidity NTU				SS mg/L				TIN mg/L				UJA mg/L				E. Coli CFU/100mL				B.O.D mg/L																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
						Value		AVG		Value		AVG		Value		AVG		Value		AVG		Value		AVG		Value		AVG		Value		AVG		Value		V		AVG		Value		V		AVG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidity were obtained in each duplicate set for better representativeness.
For calculation of average concentration of E. Coli, the minimum value for "NOT DETECTED" is treated as 1.0 CFU per 100mL according to reporting limit.
The smaller-than symbol (e.g. < 0.001 mg/L) is removed for ease of calculation. Adopting the value of reporting limit (i.e. 0.001 mg/L) is based on the best available information to account for the uncertainty in reported values below the detection limit.

Baseline Water Quality Monitoring at Station CF (Bottom) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L		TIN mg/L		UJA mg/L		E. Coli CFU/100mL		B.O.D mg/L									
						Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value		AVG	Value	V	AVG	Value	V	AVG	Value	AVG							
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG								
CF	3/3/2021	Cloudy	08:57	10.3	9.3	20.20	20.20	20.20	7.76	7.76	31.71	31.71	31.71	82.60	77.40	79.75	6.24	5.81	6.00	22.95	22.92	22.93	58.4	46.4	0.146	0.139	0.001	0.001	0.001	11	11	13	1.1	1.1	
			09:00	10.3	9.3	20.20	20.20		7.76	7.76		31.71	31.71		79.50	79.50		5.97	5.97		22.93	22.93		34.4		0.132		0.001	0.001		14	14		1.1	
			09:55	10.0	9.0	20.30	20.30	20.30	7.95	7.95	32.03	32.03	32.03	78.20	79.50	79.68	5.85	5.95	6.71	14.57	14.56		8.5	8.8	0.142	0.141	0.002	0.002	0.002	NOT DETECTED	1	1	1.7	1.8	
	5/3/2021	Cloudy	09:57	10.0	9.0	20.30	20.30	20.30	7.95	7.95	32.03	32.03		80.20	80.80		6.00	6.05		14.55	14.56		9.0		0.140		0.002	0.002		NOT DETECTED	1		1.8		
			13:38	9.1	8.1	20.20	20.20	20.20	8.02	8.02	31.98	31.98	31.98	82.90	82.90	82.85	6.22	6.22	6.22	9.52	9.51	9.51	7.5	7.4	0.193	0.194	0.003	0.003	0.003	8	8	10	1.3	1.4	
	9/3/2021	Cloudy	13:40	9.1	8.1	20.20	20.20	20.20	8.02	8.02	31.98	31.98		82.90	82.70		6.22	6.21		9.51	9.51		7.3		0.194	0.194	0.003	0.003		11	11		1.4		
			14:08	9.1	8.1	20.60	20.60	20.60	8.21	8.21	31.89	31.89	31.89	83.40	83.50	83.50	6.22	6.22	6.22	13.66	13.66	13.66	13.0	12.8	0.227	0.222	0.007	0.007	0.007	9	9	8	1.1	1.0	
	11/3/2021	Fine	14:10	9.1	8.1	20.60	20.60	20.60	8.21	8.21	31.89	31.89		83.50	83.60		6.22	6.23		13.66	13.66		12.6		0.217	0.217	0.006	0.006		7	7	8	0.9	1.0	
			13:23	8.8	7.8	20.80	20.80	20.80	8.19	8.19	32.17	32.17	32.17	86.90	87.40	87.55	6.24	6.44	6.48	9.60	9.57	9.56	10.4	9.9	0.213	0.211	0.004	0.004	0.004	5	5	8	2.1	2.1	
	13/3/2021	Fine	13:25	8.8	7.8	20.80	20.80	20.80	8.19	8.19	32.17	32.17		87.90	88.00		6.52	6.52		9.55	9.53		9.56		0.158	0.158	0.001	0.001	0.004	11	11	11	8	2.1	
			07:08	10.1	9.1	21.20	21.20	21.20	7.95	7.95	32.04	32.04	32.04	91.60	91.80	91.60	6.74	6.74	6.74	7.23	7.03	7.29	6.8	6.6	0.203	0.202	0.003	0.003	0.003	41	41	35	1.3	1.3	
	15/3/2021	Fine	07:10	10.1	9.1	21.20	21.20	21.20	7.95	7.95	32.04	32.04		92.90	93.00		6.74	6.74		7.23	7.03		6.8		0.203	0.203	0.003	0.003		41	41		1.3		
			07:53	7.8	6.8	22.20	22.20	22.20	7.93	7.93	32.00	32.00	32.00	86.40	86.40	86.40	6.25	6.26	6.26	6.49	6.48	6.47	5.4	5.4	0.217	0.217	0.003	0.003	0.003	10	10	9	0.9	1.2	
	17/3/2021	Fine	07:55	7.8	6.8	22.20	22.20	22.20	7.93	7.93	32.00	32.00		86.50	86.50		6.26	6.26		6.46	6.46		4.6	5.0	0.216	0.217	0.003	0.003	0.003	7	7	9	0.9	1.2	
			10:18	9.5	8.5	22.90	22.90	22.90	8.17	8.17	31.62	31.62	31.62	83.70	83.70	83.63	6.00	6.00	5.99	4.16	4.15	4.10	2.4	2.3	0.252	0.251	0.008	0.008	0.006	2	2	2	1.1	1.3	
	19/3/2021	Fine	10:20	9.5	8.5	22.90	22.90	22.90	8.17	8.17	31.62	31.62		83.60	83.50		5.99	5.98		4.15	4.30		2.2		0.250	0.250	0.008	0.008		1	1	2	1.0	1.3	
09:16			8.7	7.7	21.40	21.40	21.40	7.48	7.48	32.64	32.64	32.64	84.70	84.90	84.83	6.21	6.21	6.21	7.40	7.30	7.34	4.0	4.0	0.157	0.157	0.001	0.001	0.001	NOT DETECTED	1	1	1.5	1.5		
23/3/2021	Fine	09:18	8.7	7.7	21.40	21.40	21.40	7.48	7.48	32.64	32.64		84.90	84.90		6.21	6.21	6.21	7.55	7.56	7.55	3.8	3.4	0.113	0.112	<0.001	0.001	0.001	NOT DETECTED	1	1	1.1	1.3		
		15:55	6.4	5.4	22.20	22.20	22.20	8.14	8.14	32.89	32.89	32.90	89.20	89.60	89.95	6.42	6.45	7.25	5.48	5.47	5.42	2.6	3.1	0.064	<0.001	0.001	0.001	0.001	NOT DETECTED	1	1	1.2	1.2		
25/3/2021	Fine	15:57	6.4	5.4	22.20	22.20	22.20	8.14	8.14	32.90	32.90		90.30	90.70		6.53	6.58	7.05	5.33	5.40	5.42	3.5		0.063	0.064	<0.001	0.001	0.001	NOT DETECTED	1	1	1.1	1.2		
		16:40	7.0	6.0	22.80	22.80	22.80	8.25	8.23	32.87	32.87	32.87	90.00	90.90	90.15	6.91	6.98	7.25	7.05	6.97	6.98	5.2	5.2	0.034	<0.001	0.001	0.001	0.001	20	20	20	1.4	1.4		
27/3/2021	Cloudy	16:40	7.0	6.0	22.80	22.80	22.80	8.25	8.25	32.87	32.87		90.80	90.80		7.03	7.06		6.95	6.98		5.1		0.033	<0.001	0.001	0.001	0.001	20	20		1.3			
		17:40	7.0	6.0	24.40	24.40	24.40	8.24	8.24	32.94	32.94	32.94	100.80	103.20	103.23	7.12	7.15	7.15	6.33	6.39	6.27	2.6	2.4	<0.010	0.010	<0.001	0.001	0.001	NOT DETECTED	1	1	1.4	1.4		
29/3/2021	Fine	17:42	7.0	6.0	24.40	24.40	24.40	8.24	8.24	32.94	32.94		103.40	103.40		7.16	7.16	7.15	6.19	6.28	6.27	2.6		<0.010	0.010	<0.001	0.001	0.001	NOT DETECTED	1	1	1.8	1.8		

Strong Monsoon Signal

Searching period : [202103 - 202103]

Total number of records : [1]

Direction	Start Time		End Time		Duration hh mm
	hh mm	dd/mon/yyyy	hh mm	dd/mon/yyyy	
East	05:45	03/Mar/2021	16:15	03/Mar/2021	10 30

Strong Monsoon Signal as displayed in this database between 1 January 1950 and 14 April 1956 refers to the "Local Strong Wind Signal" adopted in Hong Kong which covered warning of strong winds due to monsoon or less intense tropical cyclones. With effect from 15 April 1956, the Strong Monsoon Signal and the Tropical Cyclone Strong Wind Signal No. 3 were introduced to delineate the warnings for monsoon systems and tropical cyclones.

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Automatic Weather Observations Daily Data for Single Element

Mean Temperature	Max Temperature	Min Temperature	Pressure	Dew Point Temp
WET Bulb Temp	Relative Humidity	Rainfall	Prevailing Wind Direction	Wind Speed

Daily Mean Wind Speed (km/h) at Cheung Chau 2021

Back Year Go

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	14.7	11.9	9.9	12.7	8.3	16.8	23.0	14.9	18.8	11.7	22.4	28.3
2	19.1	14.3	24.0	7.4	11.0	12.2	23.5	11.5	16.1	12.1	24.4	18.1
3	17.0	24.6	25.8	9.4	30.0	11.6	19.2	22.2	8.6	21.3	21.6	23.2
4	11.8	18.1	16.6	13.5	13.3	14.9	15.4	18.5	10.1	23.0	22.1	19.5
5	10.5	17.0	18.8	21.3	10.8	9.6	22.2	22.8	10.1	26.0	17.3	14.0
6	17.5	7.2	10.6	19.5	26.8	11.6	21.9	21.3	8.7	24.8	6.8	15.1
7	21.5	13.7	14.6	25.0	10.0	20.5	29.0	15.3	18.0	34.8	13.1	20.8
8	36.8	25.6	23.0	20.4	12.9	17.2	21.7	11.8	10.2	42.7	38.5	23.7
9	20.4	34.9	17.4	21.3	16.7	15.8	9.1	19.4	10.5	68.5	22.1	14.8
10	18.0	28.8	24.9	28.1	15.1	21.3	16.0	14.2	16.4	31.3	19.7	20.6
11	31.0	17.8	19.8	24.7	18.3	27.0	14.8	11.0	11.3	28.9	15.8	18.4
12	26.0	13.6	7.4	12.8	18.1	35.1	11.9	8.3	16.8	45.6	15.0	10.9
13	12.3	12.5	22.8	7.6	17.8	23.7	10.3	9.9	13.0	50.5	16.3	17.3
14	11.3	10.9	19.0	22.3	19.1	18.9	9.9	17.4	7.9	26.5	18.2	13.5
15	8.8	14.4	18.4	28.4	16.0	21.3	12.8	10.5	15.6	17.8	17.5	13.1
16	20.1	13.3	9.7	22.6	19.2	25.3	8.8	8.2	8.3	25.7	12.6	14.5
17	23.6	17.6	13.5	12.9	17.2	21.4	16.5	9.3	8.3	31.2	14.3	24.4
18	16.0	20.2	20.8	29.9	23.0	24.2	20.0	10.5	20.2	16.8	14.1	24.4
19	19.1	15.7	15.9	36.0	23.4	24.6	33.0	10.0	22.2	15.9	10.8	18.4
20	15.2	10.4	7.7	27.4	23.0	23.7	27.6	9.3	10.9	20.5	23.9	22.4
21	14.7	9.3	20.7	20.2	24.6	20.3	28.5	13.4	6.7	20.2	17.2	29.5
22	11.0	6.3	20.9	15.0	19.3	15.3	10.8	15.2	15.5	32.1	27.4	15.9
23	12.8	13.9	14.3	10.3	16.2	15.0	12.3	11.8	23.3	21.3	26.8	11.8

24	19.8	22.1	8.7	22.7	9.9	11.3	10.3	9.0	28.0	23.3	12.2	9.3
25	17.3	15.5	24.3	21.3	10.4	7.6	12.8	7.3	22.5	19.8	10.6	19.1
26	7.0	8.2	23.3	27.9	16.6	10.1	13.6	12.5	17.5	17.1	12.3	24.3
27	18.6	16.7	8.6	23.0	15.5	19.1	13.5	17.1	11.2	16.9	15.5	24.2
28	14.0	19.6	7.6	14.5	16.8	29.0#	18.8	14.4	10.3	19.9	13.9	15.6
29	23.6		13.7	15.6	21.3	18.2#	9.5	16.9	10.8	22.1	10.6	15.0
30	21.8		14.5	8.9	19.0	24.1	12.7	13.4	11.6	13.9	28.6	17.9
31	17.1		15.3		17.7		18.8	11.6		19.6		17.4

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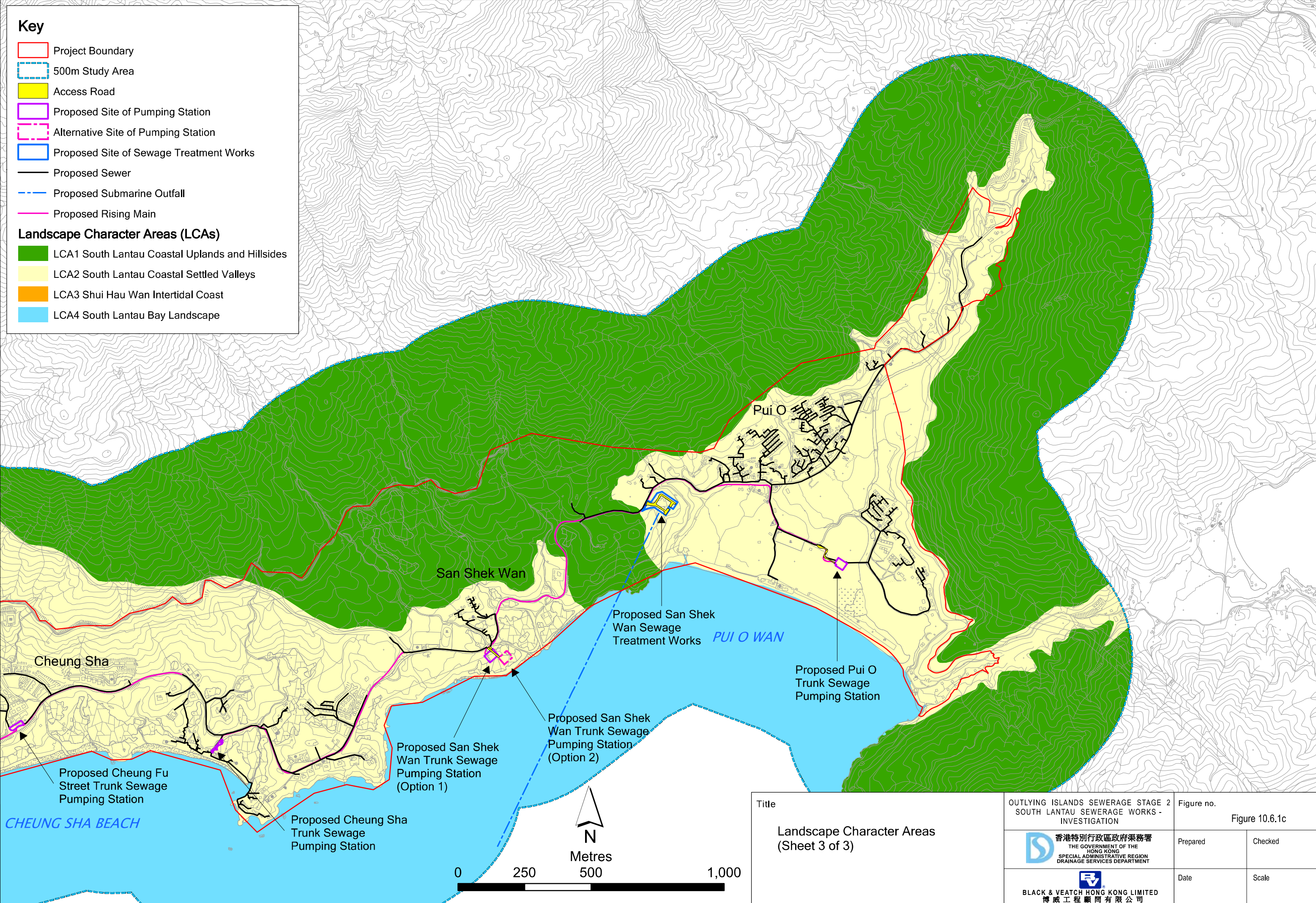


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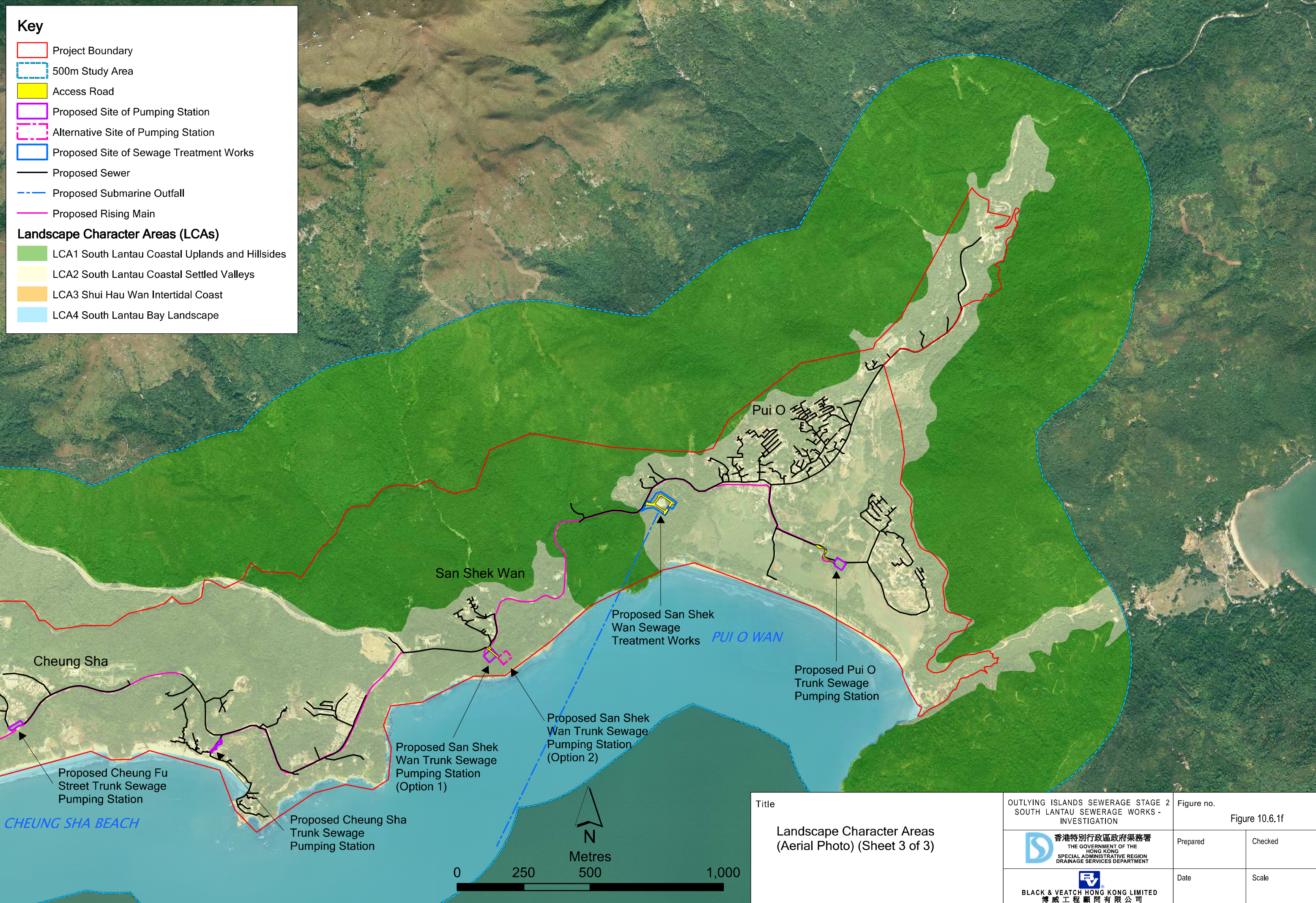
Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment
Works, Associated Submarine Outfall and Pui O
Sewerage Works - ET Services (2021-2022)
Baseline Monitoring Report

Appendix G

Key Plan of Contract Area



Title Landscape Character Areas (Sheet 3 of 3)	OUTLYING ISLANDS SEWERAGE STAGE 2 SOUTH LANTAU SEWERAGE WORKS - INVESTIGATION		Figure no. Figure 10.6.1c	
	 香港特別行政區政府渠務署 THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION DRAINAGE SERVICES DEPARTMENT	Prepared	Checked	
		 BLACK & VEATCH HONG KONG LIMITED 博威工程顧問有限公司	Date	Scale



Key

Project Boundary

500m Study Area

Access Road

Proposed Site of Pumping Station

Alternative Site of Pumping Station

Proposed Site of Sewage Treatment Works

Proposed Sewer

Proposed Submarine Outfall

Proposed Rising Main

Landscape Character Areas (LCAs)

LCA1 South Lantau Coastal Uplands and Hillsides

LCA2 South Lantau Coastal Settled Valleys

LCA3 Shui Hau Wan Intertidal Coast

LCA4 South Lantau Bay Landscape

Title Landscape Character Areas (Aerial Photo) (Sheet 3 of 3)	OUTLYING ISLANDS SEWERAGE STAGE 2 SOUTH LANTAU SEWERAGE WORKS - INVESTIGATION		Figure no. Figure 10.6.1f	
	 香港特別行政區政府渠務署 THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION DRAINAGE SERVICES DEPARTMENT	Prepared	Checked	
		 BLACK & VEATCH HONG KONG LIMITED 博威工程顧問有限公司	Date	Scale

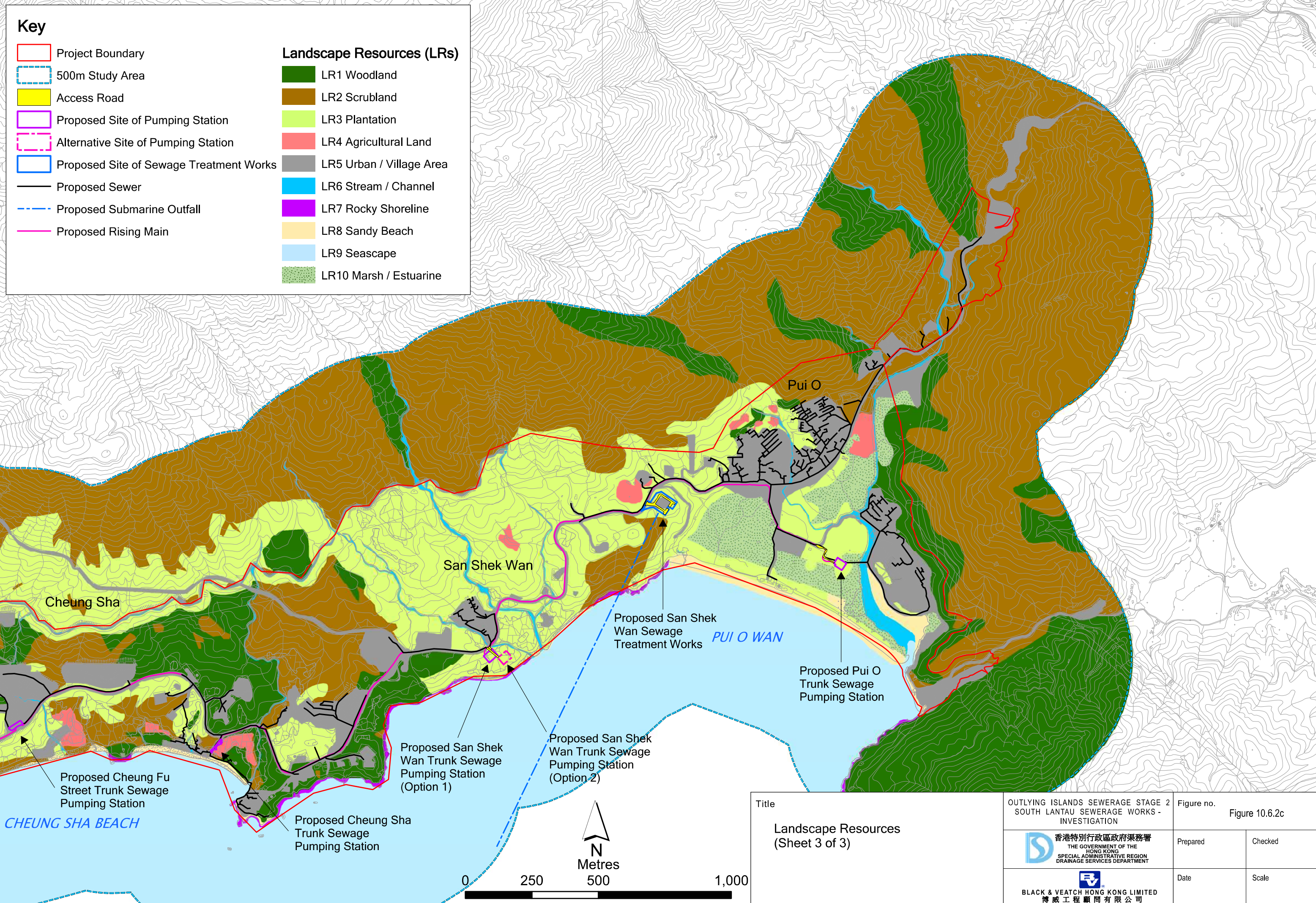


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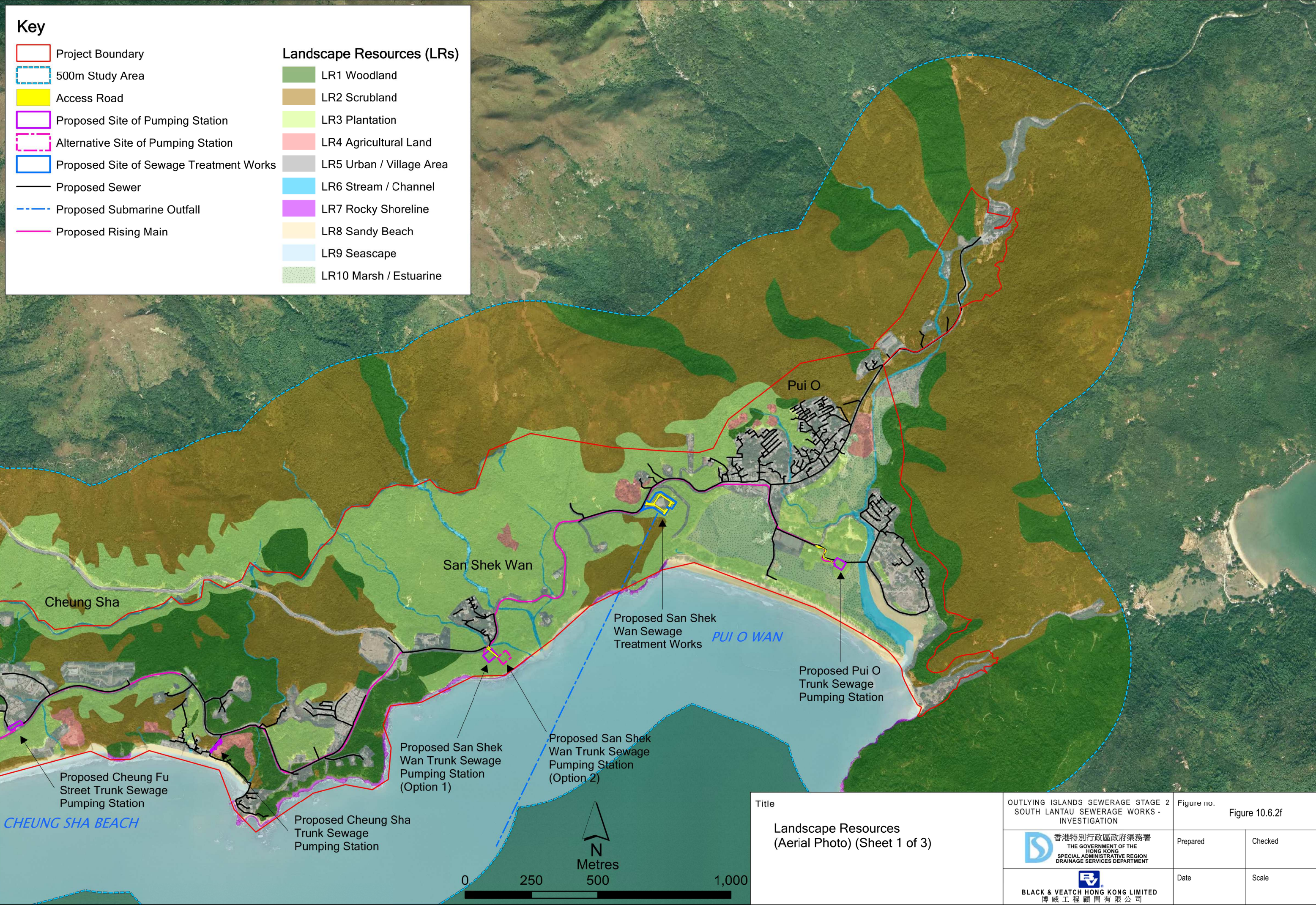
Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment
Works, Associated Submarine Outfall and Pui O
Sewerage Works - ET Services (2021-2022)
Baseline Monitoring Report

Appendix H

Key Plan of Landscape Resources and Landscape Character Areas



Title Landscape Resources (Sheet 3 of 3)	OUTLYING ISLANDS SEWERAGE STAGE 2 SOUTH LANTAU SEWERAGE WORKS - INVESTIGATION		Figure no. Figure 10.6.2c	
	 香港特別行政區政府渠務署 THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION DRAINAGE SERVICES DEPARTMENT	Prepared	Checked	
	 BLACK & VEATCH HONG KONG LIMITED 博威工程顧問有限公司	Date	Scale	





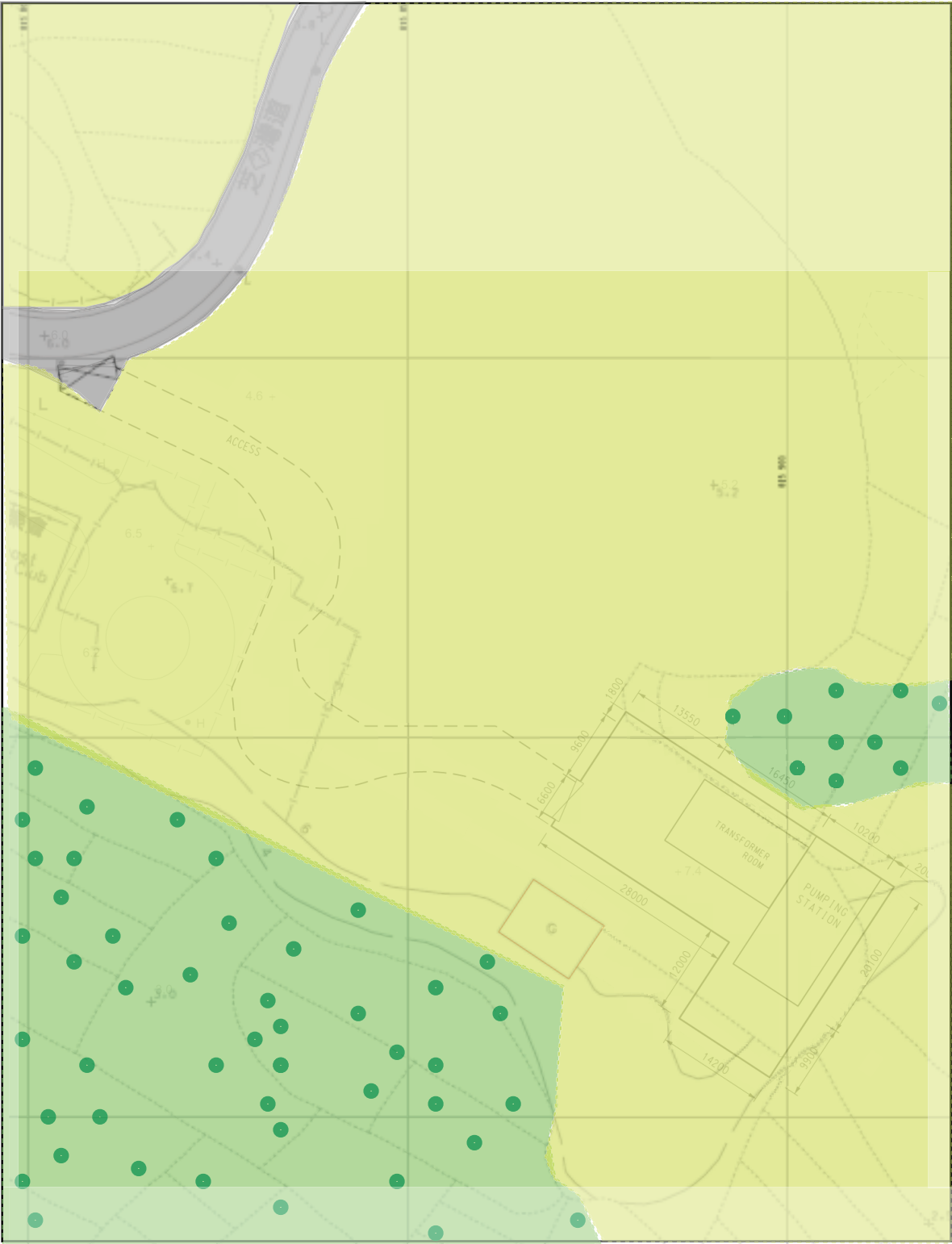
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Sewerage Works - ET Services (2021-2022)
Baseline Monitoring Report

Appendix I

Landscape Resources and Landscape Character Areas showing on the Revised Layout of Proposed Pui O Sewage Pumping Station

Appendix I - Landscape Resources and Landscape Character Areas showing on the Revised Layout of Pui O Sewage Pumping Station



Landscape Resources (LRs) showing on the Proposed Pui O Sewage Pumping Station



Landscape Character Areas (LCA) showing on the Proposed Pui O Sewage Pumping Station

Landscape Resources (LRs)

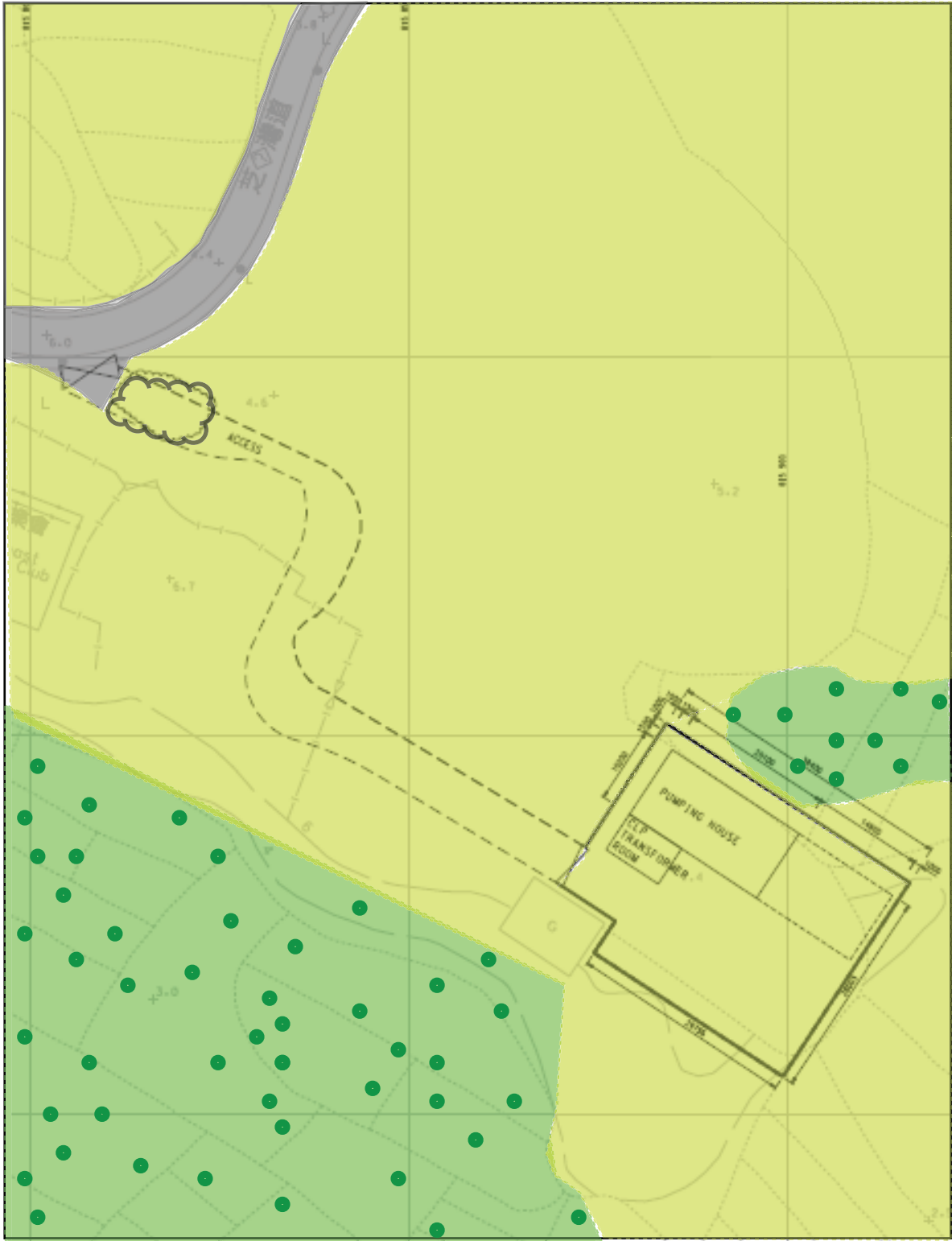
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|--|--------------------------|---|------------------------|
|  | LR1 Woodland |  | LR6 Stream / Channel |
|  | LR2 Scrubland |  | LR7 Rocky Shoreline |
|  | LR3 Plantation |  | LR8 Sandy Beach |
|  | LR4 Agricultural Land |  | LR9 Seascape |
|  | LR5 Urban / Village Area |  | LR10 Marsh / Estuarine |

Landscape Character Areas (LCAs)

- | | |
|---|--|
|  | LCA1 South Lantau Coastal Uplands and Hillside |
|  | LCA2 South Lantau Coastal Settled Valleys |
|  | LCA3 Shui Hau Wan Intertidal Coast |
|  | LCA4 South Lantau Bay Landscape |

Key

-  Boundary of the Affected Existing Trees



Landscape Resources (LRs) showing on the Proposed Pui O Sewage Pumping Station



Landscape Character Areas (LCA) showing on the Proposed Pui O Sewage Pumping Station

Landscape Resources (LRs)		Landscape Character Areas (LCAs)		Key	
	LR1 Woodland		LR6 Stream / Channel		LCA1 South Lantau Coastal Uplands and Hillside
	LR2 Scrubland		LR7 Rocky Shoreline		LCA2 South Lantau Coastal Settled Valleys
	LR3 Plantation		LR8 Sandy Beach		LCA3 Shui Hau Wan Intertidal Coast
	LR4 Agricultural Land		LR9 Seascape		LCA4 South Lantau Bay Landscape
	LR5 Urban / Village Area		LR10 Marsh / Estuarine		Boundary of the Affected Existing Trees

Title Landscape Resources and Landscape Character Areas at Proposed Pui O Sewage Pumping Station	OUTLYING ISLANDS SEWERAGE STAGE 2 SOUTH LANTAU SEWERAGE WORKS - INVESTIGATION		Figure no. Figure 10.6.5g	
			Prepared	Checked
	 BLACK & VEATCH HONG KONG LIMITED 博威工程顧問有限公司		Date	Scale

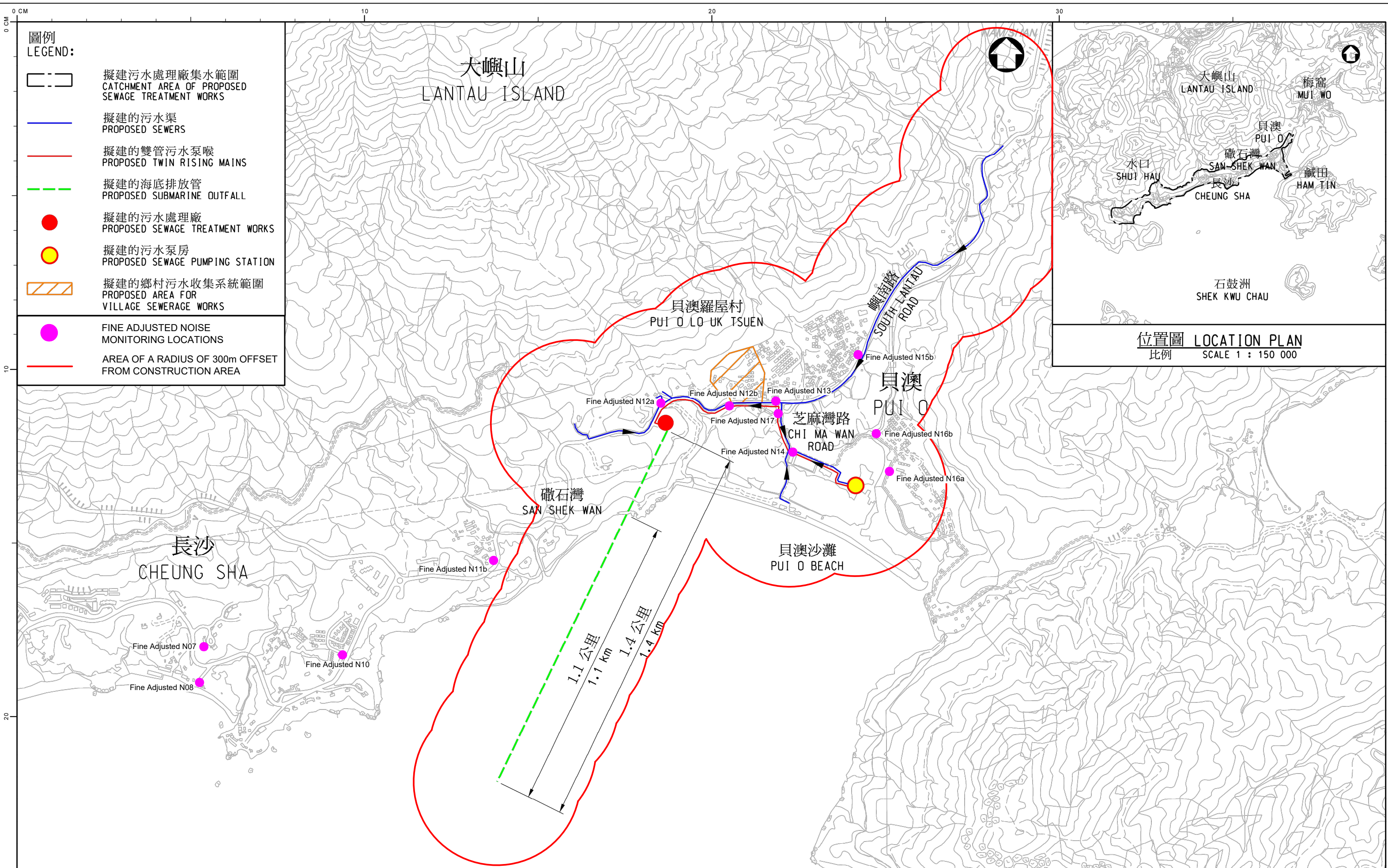


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Appendix J

Location of Noise Monitoring Locations and Construction Areas





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Contract No. SD 6/2020
Construction of San Shek Wan Sewage Treatment
Works, Associated Submarine Outfall and Pui O
Sewerage Works - ET Services (2021-2022)
Baseline Monitoring Report

Appendix K

Sensitivity Analysis of Control Station Criteria

Sensitivity Analysis of Control Station Criteria

Turbidity	Date	SR4 (Depth Average)		SR5 (Depth Average)		SR6 (Depth Average)		SR9 (Depth Average)		SR10 (Depth Average)		SR12 (Depth Average)		SR15 (Depth Average)		CE (Depth Average)		CF (Depth Average)	
		Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb (120%)	Mid-Ebb (130%)	Mid-Flood (120%)	Mid-Flood (130%)
	3/3/2021	11.0	12.8	11.7	9.3	11.4	22.1	13.8	24.7	9.6	32.8	10.1	17.0	9.9	12.8	11.3	12.2	24.4	26.4
	5/3/2021	8.6	13.0	6.9	9.3	9.7	12.5	6.6	8.3	6.6	10.4	5.3	7.4	9.1	16.5	6.6	7.2	15.4	16.7
	9/3/2021	6.0	9.8	4.9	6.9	7.0	13.2	5.2	6.6	9.8	12.3	6.1	5.9	9.7	10.5	5.9	6.4	11.6	12.6
	11/3/2021	11.1	9.6	10.9	6.6	13.7	9.8	9.9	11.4	19.5	12.9	11.3	7.2	17.7	14.9	10.7	11.6	12.3	13.3
	13/3/2021	12.5	10.0	6.8	6.9	6.5	7.4	7.9	7.8	7.9	9.5	8.2	6.2	13.7	10.2	6.2	6.8	11.4	12.4
	15/3/2021	8.4	11.1	5.3	8.6	5.6	9.6	6.8	10.5	10.1	12.6	6.5	7.4	7.9	8.4	5.5	5.9	9.9	10.7
	17/3/2021	3.7	6.4	2.9	3.0	4.0	5.3	2.5	4.1	2.7	3.5	2.6	3.4	5.4	5.7	2.5	2.7	7.9	8.6
	19/3/2021	4.9	3.2	2.0	3.2	3.6	3.4	2.1	2.5	3.7	5.6	3.2	5.9	3.6	3.8	3.2	3.5	4.5	4.9
	23/3/2021	8.0	8.2	7.5	9.5	10.9	10.5	6.8	6.3	10.6	13.7	6.6	9.8	8.2	9.5	9.9	10.8	9.8	10.6
	25/3/2021	10.6	8.8	6.0	4.8	11.3	8.4	6.9	8.0	9.5	10.3	7.3	7.5	7.5	10.5	9.5	10.3	5.9	6.4
	27/3/2021	8.4	6.9	9.1	7.6	9.6	8.5	8.7	5.3	8.6	6.8	8.5	7.1	10.0	9.5	9.1	9.8	8.2	8.9
	29/3/2021	9.2	6.0	7.5	7.9	9.1	4.7	6.4	5.1	4.0	5.7	5.5	5.6	6.4	6.8	6.2	6.7	6.6	7.1
Exceeded 120% of Control		9	2	7	1	12	4	4	3	8	7	5	3	9	5	% exceeded AL:	64.3%	% exceeded AL:	29.8%
Exceeded 130% of Control		1	2	0	1	1	2	1	1	1	5	0	2	2	3	% exceeded LL:	7.1%	% exceeded LL:	19.0%
95%-tile (14.4 NTU)		0	0	0	0	0	1	0	1	1	1	0	1	1	2	% exceeded AL:	2.4%	% exceeded AL:	7.1%
99%-tile (23.5 NTU)		0	0	0	0	0	0	0	0	1	0	1	0	0	0	% exceeded LL:	0.0%	% exceeded LL:	2.4%
AL exceedance (OR case)		9	2	7	1	12	5	4	4	8	7	5	4	9	5	% exceeded AL:	64.3%	% exceeded AL:	33.3%
LL exceedance (OR case)		1	2	0	1	1	2	1	2	1	5	0	2	2	3	% exceeded LL:	7.1%	% exceeded LL:	20.2%
AL exceedance (AND case)		0	0	0	0	0	1	0	1	1	1	0	1	1	2	% exceeded AL:	2.4%	% exceeded AL:	7.1%
LL exceedance (AND case)		0	0	0	0	0	0	0	0	1	0	0	0	0	0	% exceeded LL:	0.0%	% exceeded LL:	2.4%
SS																			
	Date	SR4 (Depth Average)		SR5 (Depth Average)		SR6 (Depth Average)		SR9 (Depth Average)		SR10 (Depth Average)		SR12 (Depth Average)		SR15 (Depth Average)		CE (Depth Average)		CF (Depth Average)	
		Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb (120%)	Mid-Ebb (130%)	Mid-Flood (120%)	Mid-Flood (130%)
	3/3/2021	10.2	14.4	9.7	11.2	8.0	20.8	19.3	24.1	6.9	39.7	6.5	17.8	8.1	44.3	9.0	9.8	33.9	36.8
	5/3/2021	5.6	7.7	3.5	3.3	9.1	10.4	3.9	3.8	5.6	7.1	2.7	5.6	7.0	12.2	4.7	5.1	7.1	7.6
	9/3/2021	7.8	4.0	4.6	3.2	10.6	4.7	5.1	3.2	13.0	8.8	4.9	3.4	11.6	7.9	4.8	5.2	8.1	8.8
	11/3/2021	9.9	7.0	9.7	5.4	10.9	7.1	9.0	9.8	19.5	10.6	9.7	5.9	17.1	15.1	8.2	8.8	9.9	10.8
	13/3/2021	11.3	9.5	6.0	5.2	6.3	5.7	6.4	6.1	7.3	7.9	7.5	4.9	13.4	6.6	7.3	7.9	10.6	11.5
	15/3/2021	5.7	9.1	3.3	6.7	4.6	8.7	4.3	9.9	9.3	10.9	5.8	4.5	6.5	5.2	3.3	3.6	8.7	9.4
	17/3/2021	3.4	4.7	2.1	3.1	2.5	3.5	1.9	2.8	2.7	1.8	3.1	3.2	4.1	3.9	2.6	2.8	5.9	6.4
	19/3/2021	3.4	3.1	1.4	1.4	2.3	2.1	1.8	2.0	2.2	1.8	2.0	1.9	2.5	2.7	1.8	2.0	2.4	2.6
	23/3/2021	5.0	5.5	5.5	6.7	9.8	8.3	4.2	3.2	8.5	9.5	4.7	6.1	5.1	8.2	5.0	5.4	6.6	7.2
	25/3/2021	8.7	6.5	4.2	3.0	10.5	6.6	6.8	5.8	5.5	12.0	5.0	8.3	4.9	12.6	3.6	3.9	5.6	6.0
	27/3/2021	7.0	4.8	5.2	4.5	5.7	4.6	4.6	3.9	6.2	4.3	3.6	5.0	9.0	8.2	3.6	3.9	5.4	5.8
	29/3/2021	4.8	3.1	4.1	4.9	3.7	2.5	2.7	1.9	2.5	1.7	3.4	1.9	2.3	4.5	3.2	3.5	2.3	2.5
Exceeded 120% of Control		12	5	7	2	9	5	7	2	9	7	8	1	10	8	% exceeded AL:	73.8%	% exceeded AL:	35.7%
Exceeded 130% of Control		1	4	0	1	0	3	1	1	2	5	0	1	2	8	% exceeded LL:	7.1%	% exceeded LL:	27.4%
95%-tile (13.1 mg/L)		0	1	0	0	0	1	1	1	1	1	0	1	2	2	% exceeded AL:	4.8%	% exceeded AL:	8.3%
99%-tile (30.4 mg/L)		0	0	0	0	0	0	0	0	0	1	0	0	0	1	% exceeded LL:	0.0%	% exceeded LL:	2.4%
AL exceedance (OR case)		12	6	7	2	9	6	7	3	9	7	8	2	10	8	% exceeded AL:	73.8%	% exceeded AL:	40.5%
LL exceedance (OR case)		1	4	0	1	0	3	1	1	2	5	0	1	2	8	% exceeded LL:	7.1%	% exceeded LL:	27.4%
AL exceedance (AND case)		0	0	0	0	0	0	1	0	1	1	0	0	2	2	% exceeded AL:	4.8%	% exceeded AL:	3.6%
LL exceedance (AND case)		0	0	0	0	0	0	0	0	0	1	0	0	0	1	% exceeded LL:	0.0%	% exceeded LL:	2.4%
BOD5																			
	Date	SR4 (Depth Average)		SR5 (Depth Average)		SR6 (Depth Average)		SR9 (Depth Average)		SR10 (Depth Average)		SR12 (Depth Average)		SR15 (Depth Average)		CE (Depth Average)		CF (Depth Average)	
		Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb (120%)	Mid-Ebb (130%)	Mid-Flood (120%)	Mid-Flood (130%)
	3/3/2021	1.3	2.0	1.2	1.6	1.2	1.4	1.5	1.4	1.3	1.0	1.0	1.2	0.4	1.4	0.9	1.0	1.4	1.5
	5/3/2021	1.2	1.5	1.3	1.9	0.7	1.4	1.5	1.7	0.8	1.4	1.3	1.6	1.4	1.9	1.4	1.5	2.6	2.8
	9/3/2021	1.5	1.4	1.4	1.4	1.3	1.2	1.5	1.2	1.3	1.1	1.3	1.2	1.7	1.7	1.5	1.7	2.0	2.1
	11/3/2021	1.4	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	0.9	1.2	1.6	1.2	1.3	1.5	1.4	1.5
	13/3/2021	1.5	1.6	1.1	1.5	1.1	1.3	1.1	1.3	1.1	1.3	1.3	1.3	0.9	1.5	0.9	1.0	2.6	2.9
	15/3/2021	1.3	1.7	1.1	1.6	1.1	1.7	1.2	1.5	1.0	2.1	1.2	1.2	1.4	1.7	1.7	1.8	2.2	2.3
	17/3/2021	0.9	1.5	0.5	1.3	0.9	1.3	1.0	1.1	1.1	1.3	0.7	1.2	1.1	1.7	0.9	1.0	2.1	2.3
	19/3/2021	1.1	1.8	1.1	1.6	1.2	1.2	1.2	1.7	1.4	1.6	1.6	1.8	1.6	1.4	1.7	1.8	1.4	1.5
	23/3/2021	1.2	1.3	1.0	1.3	1.0	1.5	1.2	1.4	1.2	2.1	1.3	2.6	1.3	1.5	1.5	1.6	1.5	1.6
	25/3/2021	1.3	1.4	0.9	1.3	0.9	1.0	1.1	1.2	1.2	1.2	0.9	1.2	1.1	1.2	2.0	2.2	1.3	1.4
	27/3/2021	1.8	1.8	1.5	1.4	1.5	1.7	1.4	1.6	1.8	1.9	1.7	2.1	2.4	2.8	3.0	1.8	1.9	1.9
	29/3/2021	2.4	2.3	1.5	1.7	1.5	1.7	1.4	1.8	1.6	2.2	1.5	2.1	2.0	1.8	1.8	1.9	1.7	1.9
Exceeded 120% of Control		4	5	2	3	2	0	4	3	3	4	2	3	4	2	% exceeded AL:	25.0%	% exceeded AL:	23.8%
Exceeded 130% of Control		0	3	0	2	0	0	0	1	0	3	0	3	0	1	% exceeded LL:	0.0%	% exceeded LL:	15.5%
95%-tile (2.2 mg/L)		1	1	0	0	0	0	0	0	0	0	0	1	0	1	% exceeded AL:	1.2%	% exceeded AL:	3.6%
99%-tile (2.7 mg/L)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	% exceeded LL:	0.0%	% exceeded LL:	0.0%
AL exceedance (OR case)		4	6	2	3	2	0	4	3	3	4	2	4	4	2	% exceeded AL:	25.0%	% exceeded AL:	26.2%
LL exceedance (OR case)		0	3	0	2	0	0	0	1	0	3	0	3	0	1	% exceeded LL:	0.0%	% exceeded LL:	15.5%
AL exceedance (AND case)		1	1	0	0	0	0	0	0	0	0	0	1	0	1	% exceeded AL:	1.2%	% exceeded AL:	3.6%
LL exceedance (AND case)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	% exceeded LL:	0.0%	% exceeded LL:	0.0%
E. Coli																			
	Date	SR4 (Depth Average)		SR5 (Depth Average)		SR6 (Depth Average)		SR9 (Depth Average)		SR10 (Depth Average)		SR12 (Depth Average)		SR15 (Depth Average)		CE (Depth Average)		CF (Depth Average)	
		Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb (120%)	Mid-Ebb (130%)	Mid-Flood (120%)	Mid-Flood (130%)
	3/3/2021	1.0	1.3	2.5	1.0	2.0	2.5	1.0	1.8	1.3	3.5	1.0	1.0	1.0	25.5	3.6	3.9	16.6	18.0
	5/3/2021	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.3	1.0	1.0	4.5	1.0	1.0	8.5	1.2	1.3	1.8	2.0
	9/3/2021	19.3	71.5	39.3	10.8	106.0	3												

EPD Comments on Baseline Monitoring Report

Item	EPD's Comment on 22 July 2022	ET's Response
1	S.1 - Please supplement an updated construction programme as per S.12.1 of the EM&A manual; and	Construction programme is provided in Figure 1.0
2	S.5.1.6 - The last sentence is misleading, according to S.3.6.1, the interval should be referring to calibration of the monitoring equipment, as such, please review S.5.1.6 and revise the last sentence as "... 3 monthly intervals calibration is proposed as intervals for the impact re-calibration frequency for water quality monitoring."	Revised