

Contract No. CM 04/2024 – Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works – Environmental Team Services (2025 - 2027)

Monthly Environmental Monitoring and Audit
Report for:
January 2026
Revision 2

Certified By:

A handwritten signature in black ink, appearing to read "Ting Po Chung".

Ting Po Chung, Ivan
Environmental Team Leader
Report Date: 11 February 2026



Drainage Services Department
The Government of the Hong Kong Special Administrative Region

Our Ref: 7076811/L32993/AC/KL/TK/KCL/jm

11 February 2026

Drainage Services Department
Sewage Services Branch
Consultants Management Division Group 4
18/F, Drainage Services Tower
8 Ying Wa Street
Cheung Sha Wan, Kowloon

Attn: Mr. CHAN Ka Keung

By Email and Post
(kkchan06@dsd.gov.hk)

Dear Sir

Contract No. SD 7/2020
Independent Environmental Checker ("IEC") for Environmental Monitoring Work for
South Lantau Sewerage Works
Verification of Monthly EM&A Report (January 2026)

With reference to the Monthly EM&A Report (January 2026) Revision 2 dated and certified by the ET Leader on 11 February 2026, please note that we have no adverse comments on the captioned and we hereby verify the captioned in accordance with Condition 3.4 of the Environmental Permit No. EP-538/2017.

Should you have questions please do not hesitate to contact the undersigned at tel. 3995-8140 or by email to kitty.lee@smec.com; or our Mr Tommy KONG on tel. 3995-8123 or by email to tommy.kong@smec.com.

Yours faithfully



Kitty LEE
Independent Environmental Checker

cc

Binnies	- Mr. Kevin CHAN
Umwelt	- Mr. Ivan TING
KLCW-JV	- Mr. Daniel Chu

by email
by email
by email

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Executive Summary

This Monthly Environmental Monitoring and Audit (“EM&A”) Report summarise project monitoring and auditing data, with full interpretation illustrating the acceptability or otherwise of any environmental impacts and identification or assessment of the implementation status of agreed mitigation measures, including monitoring results and findings of the EM&A Programme, along with findings recorded during the site Inspections and audits, reports of Complaints, Notifications of Summons and Successful Prosecutions, and other necessary observations obtained within this reporting month of January 2026.

In the reporting month, the principal work activities conducted are as follow:

- Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road;
- Trenchless drilling works (Chi Ma Wan Road);
- Excavation and Excavation and Lateral Support (“ELS”) work at Pui O Sewage Pumping Station (“POSPS”);
- Superstructure Reinforced Concrete (“RC”) works at San Shek Wan Sewerage Treatment Works (“SSWSTW”);
- Waterproofing Work at SSWSTW;
- Excavation and Site formation at SSWSTW;
- Electrical and Mechanical (“E&M”) Installation at POSPS; and
- E&M Installation at SSWSTW
- Slope Work near SSWSTW

Noise Monitoring

Noise Monitoring has been conducted at 8 of the designated monitoring locations (N12a, N12b, N13, N14, N15b, N16a, N16b, and N17) where construction works has been conducted nearby during the reporting month.

Noise limit level exceedance of 75 dB(A) was recorded at N12a on 24 December 2025. Site observation recorded a breaker was operating at a roadside works site on South Lantau Road was observed during monitoring. Also, local traffic noise, that comprises of heavy vehicles including trucks and buses, was observed to be high. As such, the exceedance would be due to combination of construction works and traffic flow. Hence, it is considered that the exceedance maybe project-related.

Repeat monitoring was conducted on 30 December 2025 due to no construction works during the public holidays on 25–26 December. Corrected noise level of 72dB(A) at N12a was recorded. Site investigation conducted on 30 December 2025 observed that no beaker was in operation at the work site. Corresponding remedial actions, including reminding the Contractor to maintain vigilance over construction noise and implemented proper construction noise mitigation measures according to EM&A Manual and Construction Noise Mitigation Plan. And formalizing the mandatory erection of noise barriers for future concrete breaking activities to prevent the recurrence of similar incidents. The Final Investigation report was submitted to EPD on 30 January 2026.

No action or limit level exceedance was recorded in construction noise level in this reporting period.

Water Quality Monitoring

Subsequent to the completion of marine work on 24 May 2025, water quality monitoring was considered completed by 30 May 2025. No water quality monitoring is conducted in this reporting month.

Should marine works resume, water quality monitoring will be conducted in accordance with the requirement stipulated in the EM&A Manual accordingly.

Ecological Impact Monitoring

Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.

As per latest version of PTP, 4 tree found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery at Kam Tin and eventually be transplanted to Pui O Pumping Station.

The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.

The extent of the work site boundaries was checked by the ET during the weekly site audit.

Complaints, Notification of Summons and Prosecution

No environmental complaint was recorded in the reporting month.

No notification of summons and successful prosecution regarding construction works were recorded in the reporting month.

Reporting Changes

There are no reporting changes in the reporting month.

Future Key Issues

The construction works scheduled to be conducted in the coming 3 reporting months are listed as follows:

- Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road;
- Excavation and site formation at SSWSTW;
- Trenchless drilling works (Chi Ma Wan Road);
- Excavation and ELS work at POSPS;
- Superstructure RC works at SSWSTW;
- Waterproofing Work at SSWSTW;
- Retaining wall construction at SSWSTW;
- E&M Installation at POSPS;
- E&M Installation at SSWSTW;
- Architectural Builders Works and Finishes Work ("ABWF") at POSPS; and
- ABWF at SSWSTW

Key construction activities for the next three months with the recommended mitigation measures to be implemented are presented as follows:

Key Construction Works	Recommended Mitigation Measures
• Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road; • Excavation and site formation at SSWSTW; • Trenchless drilling works (Chi Ma Wan Road); • Excavation and ELS work at POSPS; • Superstructure RC works at SSWSTW; • Waterproofing Work at SSWSTW; • Retaining wall construction at SSWSTW; • E&M Installation at POSPS; • E&M Installation at SSWSTW; • Architectural Builders Works and Finishes Work ("ABWF") at POSPS; and • ABWF at SSWSTW	• Prevention of site runoff during heavy rainstorms. • Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan; • Dust control during dust generating works; • Adopt surface drainage and sediment control facilities for sewage installation in village and public roads; • Adopt temporary drainage and sediment control facilities on Site; • Vehicle wheel-washing and body washing facilities should be provided at the site entrance; • Regular water spraying on excavation works for dust control; and • Proper waste handling, recycling and storage.

1. Introduction

1.1 Project Background

- 1.1.1 The Environmental Protection Department (“EPD”) completed the Outlying Islands Sewerage Master Plan (“SMP”) Study in 1994 and drew up a SMP for Lantau Island and other outlying islands. The proposed sewerage works of the SMP were divided into 2 stages. The Stage 2 Works of the SMP were subsequently reviewed by EPD under the Outlying Islands Sewerage Master Plan Stage 2 Review (SMP Review Study) in 2001.
- 1.1.2 The proposed sewerage works for South Lantau were further reviewed in 2008 under the Review of Sewerage Scheme for South Lantau (Review Study). According to the Review Study, the proposed sewerage works for South Lantau would serve the unsewered areas of Shui Hau, Tong Fuk, Cheung Sha, San Shek Wan, Pui O and Ham Tin.
- 1.1.3 The Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works, herein referred to as “the Project”, referred to the sewerage works for South Lantau that would serve the unsewered areas of Shui Hau, Tong Fuk, Cheung Sha, San Shek Wan, Pui O and Ham Tin.
- 1.1.4 The Project mainly comprises of the following items:
- a) Construction of a secondary sewage treatment works (“STW”) at San Shek Wan in South Lantau;
 - b) Construction of sewage pumping station (“SPS”) at Pui O, San Shek Wan, Cheung Sha, Cheung Fu Street, Shui Hau and Tong Fuk;
 - c) Construction of about 1.4km of twin submarine outfalls with a diameter of 350mm for the disposal of treated effluent from the STW at San Shek Wan;
 - d) Construction of about 10.1km of gravity sewers with diameters ranging from 150mm to 375mm along South Lantau Road and Chi Ma Wan Road and at Pui O; and
 - e) Construction of about 3.1km of twin rising mains with a diameter of 200mm to 250mm along South Lantau Road and Chi Ma Wan Road.

1.2 Environmental Monitoring & Audit Programme

- 1.2.1 An Environmental Impact Assessment (“EIA”) was subsequently prepared to review the potential environmental impact that would be due to the Project during its construction works and operational works. The EIA Report was submitted and approved on 24 April 2017, and Environmental Permit (“EP”) No. EP-538/2017 was subsequently granted on 13 July 2017.
- 1.2.2 Environmental Monitoring & Audit (“EM&A”) Programme is therefore implemented in accordance with the EM&A Manual under the EIA Report.
- 1.2.3 Umwelt Consulting Limited (“UCL”) has been appointed to work as the Environmental Team (“ET”) under EP No. EP-538/2017 to implement the Environmental Monitoring and Audit (“EM&A”) programme as stipulated in the EM&A Manual of the approved EIA Report for the Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works (Register No.: AEIAR-210/2017).

1.3 Monthly Environmental Monitoring & Audit Report

- 1.3.1 This Monthly EM&A Report summarise project monitoring and auditing data, with full interpretation illustrating the acceptability or otherwise of any environmental impacts and identification or assessment of the implementation status of agreed mitigation measures, including monitoring results and findings of the EM&A Programme, along with findings recorded during the site Inspections and audits, reports of Complaints, Notifications of Summons and Successful Prosecutions, and other necessary observations obtained within this reporting month of January 2026.
- 1.3.2 The structure of this Report is detailed as follows:
- a) **Section 1 Introduction –**
Details the scope and structure of the report.
 - b) **Section 2 Basic project Information and Environmental Status –**
Summarizes project organization and key personnel contact, construction programme and works undertaken for the month. Construction programme, works undertaken during the month with illustrations, drawing showing the project area, environmental sensitive receivers and monitoring locations.
 - c) **Section 3 Implementation Status –**
Advice on the implementation status of environmental protection and pollution control/mitigation measures, as recommended in the EIA Report and summarised in the updated implementation schedule.
 - d) **Section 4 Noise Monitoring –**
Summarizes the monitoring results obtained in the reporting period, including monitoring methodology, name of laboratory and equipment used and calibration details, parameters monitored, monitoring locations (and depth), monitoring date, frequency, and duration, for impact noise monitoring.
 - e) **Section 5 Water Quality Monitoring –**
Summarizes the monitoring results obtained in the reporting period, including monitoring methodology, name of laboratory and equipment used and calibration details, parameters monitored, monitoring locations (and depth), monitoring date, frequency, and duration, for impact water quality monitoring.
 - f) **Section 6 Ecology –**
Summarizes the audit findings during the reporting month on ecological aspects.
 - g) **Section 7 Waste Management –**
Summarizes the status of waste management, including the amount and types of waste generated, and respective treatment approach.
 - h) **Section 8 Report on Complaints, Notification of Summons and Successful Prosecutions –**
Summarizes:
 - Record of all complaints received (written or verbal) for each media, including locations and nature of complaints investigation, liaison and consultation undertaken, actions and follow-up procedures taken, results and summary;
 - Record of notifications of summons and successful prosecutions for breaches of the current environmental protection/pollution control legislations, including locations and nature of the breaches, investigation, follow-up actions taken, results and summary;

- Review of the reasons for and the implications of non-compliance, complaints, summons and prosecutions including review of pollution sources and working procedures; and
 - Description of the actions taken in the event of non-compliance and deficiency reporting and any follow-up procedures related to non-compliance.
- i) **Section 9 Future Key Issues –**
An account of the future key issues as reviewed from the works programme and work method statements.
- j) **Section 10 Conclusion –**
Summarises the findings conclusion drawn from the environmental monitoring and audit programme in this reporting month.

2. Basic project Information and Environmental Status

2.1 Basic Project Information

2.1.1 Drainage Services Department (“DSD”) is the project proponent and the permit holder of the Project. For the construction phase of the Project, Contractor(s), ET and Independent Environmental Checker (“IEC”) are appointed to manage and control environmental issues. Key personnel and contact particulars are summarized in **Table 2.1**.

2.1.2 Upon conclusion of Contract No: SD 15/2022 Outlying Island Sewerage Stage 2 – South Lantau Sewage Works – Environmental Team Services (2023 – 2024), the subsequent contract, Contract No. CM 04/2024 Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works – Environmental Team Services (2025-2027), has been awarded to Umwelt Consulting Limited (“UCL”) starting 1 February 2025. As such the environmental team leader (“ETL”) appointed for the Project has been updated to Mr. Ting Po Chung, Ivan since 1 February 2025. His contact details has been updated in **Table 2.1**.

2.1.3 There are no other reporting changes in the reporting month.

Table 2.1: Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
Drainage Services Department	The Engineer for the Contract	Engineer	Mr. KK Chan	2594 7297	3104 6426
Binnies Hong Kong Limited	Engineer's Representative	Resident Engineer	Mr. Kevin Chan	3529 3003	-
Kwan Lee – Chun Wo Joint Venture	Contractor	Sub Agent	Mr. Daniel Chu	6737 6701	2744 6937
		Environmental Supervisor	Ms. Joey Pang	6978 2876	
		Environmental Supervisor	Mr. Philip Wong	6908 8920	
SMEC Hong Kong	IEC	IEC	Ms. Kitty Lee	3995 8140	3422 3631
Umwelt Consulting Limited	ET	ET Leader	Mr. Ivan Ting	3756 9590	3582 3310

2.2 Construction Programme

2.2.1 The proposed sewerage works will collect the sewage generated from the unsewered areas of Shui Hau, Tong Fuk, Cheung Sha, San Shek Wan, Pui O and Ham Tin in South Lantau (i.e. within the Project Catchment Area) and convey it to a proposed sewage treatment works at San Shek Wan for treatment and disposal into outer bay of Pui O / Chi Ma Wan via a submarine outfall.

2.2.2 The Project was divided into 3 contracts. The current contract, Contract No. DC/2020/02 - Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works (“the Contract”) would have the following implementations. The works site of the Contract is also given in **Figure 2.1**.

2.2.3 The major components of the Contract under Environmental Permit (“EP”) (EP No. EP-538/2017) comprises:

- a) Construction of a secondary sewage treatment works (“STW”) at San Shek Wan in South Lantau;
- b) Construction of a sewage pumping station (“SPS”) at Pui O, San Shek Wan, Cheung Sha and Cheung Fu Street;
- c) Construction of about 1.4km of submarine outfall with a diameter of 350mm for the disposal of treated effluent from the STW at San Shek Wan;
- d) Construction of about 10.1km of gravity sewers with diameters ranging from 150mm to 375mm along South Lantau Road and Chi Ma Wan road and at Pui O; and
- e) Construction of about 3.1km twin rising mains with a diameter of 200mm to 250mm along South Lantau Road and Chi Ma Wan Road.

2.3 Works undertaken during the Reporting Month

2.3.1 In the reporting month, the principal work activities conducted are as follow:

- a) Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road
- b) Trenchless drilling works (Chi Ma Wan Road)
- c) Excavation and ELS work at POSPS
- d) Superstructure RC works at SSWSTW
- e) Waterproofing Work at SSWSTW
- f) Excavation and Site formation at SSWSTW
- g) E&M Installation at POSPS
- h) E&M Installation at SSWSTW
- i) Slope Work near SSWSTW

2.3.2 The locations of the works are shown in **Figure 2.2**.

2.4 Drawing Showing the Project Area, Environmental Sensitive Receivers and Monitoring Locations

2.4.1 Noise monitoring location plans with sensitive receivers are shown in **Figure 2.3** and **Figure 2.4** respectively.

3. Implementation Status

3.1 Advice on the Implementation Status of Environmental Protection and Pollution Control/Mitigation Measures

3.1.1 Mitigation measures according to the environmental mitigation implementation schedule in Annex A of EM&A Manual were generally implemented by the Contractor. Hence, the EM&A programme was considered effective and shall be maintained.

3.2 Environmental Mitigation Measures

3.2.1 Environmental mitigation measures mentioned the EIA Report were weekly reviewed and recorded in Weekly Environmental Site Audit Checklist. Also, a summary of the current status on submissions and measures mentioned in the EP No. EP-538/2017 are shown in **Table 3.1**.

Table 3.1: Summary of Submission Status under EP-538/2017

EP Condition	Submission and Revision No.	Date of Latest Submission
2.10	Waste Management Plan (Rev. 5) (electronic copy)	4 April 2022#
2.11	Preservation and/or Transplantation Plan for Plant Species of Conservation Importance (Rev. 23)	9 September 2022#
2.12	Compensatory Woodland Planting Plan (Rev. 23)	15 May 2023^
2.13	Silt Curtain Deployment Plan (Rev. 11)	1 June 2022#
2.14	Landscape Mitigation Plan	To be confirmed
2.15	Construction Noise Mitigation Plan (Rev. 20)	4 August 2022#

Note:

^ Submission was made to EPD

Approval from EPD was received

3.3 Environmental Monitoring Requirements and Contractual Requirements

3.3.1 A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in **Table 3.2**.

Table 3.2: Summary of the Current Status on Licences and/or Permits on Environmental Protection Pertinent to The Project

Permits and/or Licences	Permit. No. / Account No.	Issued Date	Valid Period & Expiry Date	Status
Notification of Works Under APCO	466408	14 Apr 2021	N/A	Valid
Wastewater Discharge Licence under Water Pollution Control Ordinance	SSWSTW: WT00039636-2021	30 Dec 2021	30 Dec 2021 to 31 Dec 2026	Valid
	POPS: WT00039820-2021	31 Dec 2021	31 Dec 2021 to 31 Dec 2026	Valid
	SSWSTW: Gravity Sewer & Raising Main: WT00042613-2022	09 Jan 2023	09 Jan 2023 to 31 Jan 2028	Valid

Permits and/or Licences	Permit. No. / Account No.	Issued Date	Valid Period & Expiry Date	Status
Billing account under Waste Disposal Ordinance	Account No.: 7040411	05 May 2021	N/A	Valid
Registration as a Chemical Waste Producer	0000-931-K3428-01	13 May 2021	N/A	Valid
Construction Noise Permit under Noise Control Ordinance for SSWSTW	GW-RS0836-25	13 Aug 2025	15 Aug 2025 to 12 Feb 2026	Valid
	Ref. 1002 5713	N/A	N/A	Submitted to EPD, pending for reply from EPD
Construction Noise Permit under Noise Control Ordinance for POSPS	GW-RS0993-25	18 Sep 2025	27 Sep 2025 to 26 Mar 2026	Valid
Construction Noise Permit under Noise Control Ordinance for Chi Ma Wan Road	GW-RS0834-25	13 Aug 2025	15 Aug 2025 to 12 Feb 2026	Valid
	Ref. 1002 5718	N/A	N/A	Submitted to EPD, pending for reply from EPD

Note: Only valid permits or permits under applications within the reporting month are included.

3.4 Site Inspection and Audit Reports

- 3.4.1 Within this reporting month, weekly environmental site inspections were conducted on 8, 12, 19 and 26 January 2026. IEC attended the SSEMC meeting held on 19 January 2026. The ET and contractor participated in the holding nursery visit for transplanted trees on 12 and 19 January 2026.
- 3.4.2 No non-compliance was found during the site inspections while reminders on environmental measures were recommended. Reminders and/or Observations recorded during site inspections in this reporting month are listed in **Table 3.3**.

Table 3.3: Summary of Environmental Inspections

Inspection Date	Reminder and Recommendations	Close-out Date / Status
8 January 2026	<u>Pui O Sewage Pumping Station</u> No Reminder and/or Observation <u>San Shek Wan Sewage Treatment Works</u> Reminder 1: The contractor is reminded to maintain the housekeeping.	Contractor has rectified the reminders on 12 January 2026

Inspection Date	Reminder and Recommendations	Close-out Date / Status
12 January 2026	<u>Pui O Sewage Pumping Station</u> No Reminder and/or Observation <u>San Shek Wan Sewage Treatment Works</u> Reminder 1: The contractor is reminded to maintain the housekeeping. <u>Kam Tin Nursery</u> No Reminder and/or Observation	Contractor has rectified the reminders on 19 January 2026
19 January 2026	<u>Pui O Sewage Pumping Station</u> Reminder 1: The contractor should ensure EP and CNPs are displayed at all entrances of all works sites. <u>San Shek Wan Sewage Treatment Works</u> Reminder 1: The contractor is reminded to maintain the housekeeping. Reminder 2: The contractor is reminded to remove standing water in the construction site. Reminder 3: The contractor is reminded to cover the dust with canvas. <u>Kam Tin Nursery</u> No Reminder and/or Observation	Contractor has rectified the reminders on 26 January 2026
26 January 2026	<u>Pui O Sewage Pumping Station</u> Reminder 1: The contractor should ensure EP and CNPs are displayed at all entrances of all works sites. Reminder 2: The contractor is reminded not to leave oily equipment on exposed earth. Reminder 3: The contractor is reminded to ensure chemicals are properly stored on site with a drip tray or other containment. <u>San Shek Wan Sewage Treatment Works</u> No Reminder and/or Observation	To be verified in next inspection

4. Noise Monitoring

4.1 Monitoring Methodology

Monitoring Procedure

- 4.1.1 The impact noise monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.
- 4.1.2 The monitoring station shall normally be at a point 1m from the exterior of the sensitive receiver's building façade and be at a position 1.2m above the ground.
- 4.1.3 Façade measurements were made at the monitoring locations. For free-field measurement, a correction factor of +3dB(A) will be applied.
- 4.1.4 The battery condition was checked to ensure the correct functioning of the meter.
- 4.1.5 Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - a) Frequency weighting: A,
 - b) Time weighting: Fast,
 - c) Measurement time set: continuous 5 mins
- 4.1.6 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 ± 1.0 dB (A), the measurement would be considered invalid and repeat of noise measurement would be required after recalibration or repair of the equipment.
- 4.1.7 Noise measurements will be made in accordance with standard acoustical principles and shall not be made in fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Equipment Used for Noise Monitoring

- 4.1.8 Noise monitoring was performed using sound level meter at the designated monitoring locations. The 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 4.1**.

Table 4.1: Noise Monitoring Equipment

Equipment	Brand and Model	Serial Number	Valid Until
Integrated Sound Level Meter	Rion - NL-53	452008	23 Apr 2026
Acoustic Calibrator	Rion - NC-75	34256525	14 Feb 2026

- 4.1.9 The calibration certificates of the noise monitoring equipment are attached in **Appendix 4.1**.

Calibration Details

- 4.1.10 The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- 4.1.11 The sound level meter and calibrator were calibrated at yearly intervals.

Parameters Monitored

- 4.1.12 The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (“ L_{eq} ”). $L_{eq(30min)}$ should be used as the monitoring parameter. Supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference.
- 4.1.13 For impact monitoring for construction of village sewers / rising main, noise monitoring should be undertaken on weekly basis. 1 set of $L_{eq(30min)}$ noise level as 6 consecutive $L_{eq(5min)}$ between 07:00-19:00 hours on normal weekdays has been taken.

4.2 Monitoring Stations

- 4.2.1 The noise monitoring stations for the Project are listed and shown in **Table 4.2**. Impact noise monitoring was conducted once per week at the noise monitoring stations with construction works being conducted nearby. Noise monitoring has been conducted at 8 noise monitoring stations N12a, N12b, N13, N14, N15b, N16a, N16b and N17 in the reporting month.
- 4.2.2 Monitoring station N17 Bui O Public School is an institutional sensitive receiver. During the reporting month, no examination was conducted, as such the construction noise criteria is 70dB(A).

Table 4.2: Noise Monitoring Station

Monitoring Station ID *	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
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	Free-Field	G/F
N15b *	Pui O Lo Wai Tsuen	Façade	G/F
N16a *	Residences at Ham Tin	Façade	G/F
N16b *	Residences at Ham Tin	Free-Field	G/F

Monitoring Station ID *	Monitoring Location	Measurement Type	Level (in terms of no. of floor)
N17 *	Bui O Public School	Façade	R/F

NOTE:

* Fine adjustment of noise monitoring stations at all locations was proposed as per EP Condition 3.1.

* Measurement was conducted at the station in the reporting month.

4.3 Monitoring Date, Time, Frequency and Duration

4.3.1 For daytime construction work on normal weekdays, monitoring of $L_{eq(30min)}$ should be carried out at each station at 0700-1900 hours on normal weekdays at a frequency of once a week. Impact monitoring schedule can be referred to **Appendix 4.2**.

4.4 Noise Monitoring Results

4.4.1 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **Appendix 4.3**.

4.4.2 No action or limit level exceedance was recorded in construction noise level in this reporting period.

Exceedances Recorded in the Last Month

4.4.3 Noise limit level exceedance of 75 dB(A) was recorded at N12a on 24 December 2025. Site observation recorded a breaker was operating at a roadside works site on South Lantau Road was observed during monitoring. Also, local traffic noise, that comprises of heavy vehicles including trucks and buses, was observed to be high. As such, the exceedance would be due to combination of construction works and traffic flow. Hence, it is considered that the exceedance maybe project-related.

4.4.4 Repeat monitoring was conducted on 30 December 2025 due to no construction works during the public holidays on 25–26 December. Corrected noise level of 72dB(A) at N12a was recorded. Site investigation conducted on 30 December 2025 observed that no beaker was in operation at the work site. Corresponding remedial actions, including reminding the Contractor to maintain vigilance over construction noise and implemented proper construction noise mitigation measures according to EM&A Manual and Construction Noise Mitigation Plan. And formalizing the mandatory erection of noise barriers for future concrete breaking activities to prevent the recurrence of similar incidents. The Investigation report was submitted by EPD on 30 January 2026 and the Investigation Report is shown in **Appendix 10.1**.

5. Water Quality Monitoring

5.1 Completion of Water Quality Monitoring

- 5.1.1 Subsequent to the completion of marine work on 24 May 2025, water quality monitoring was considered completed by 30 May 2025. No water quality monitoring is conducted in this reporting month.
- 5.1.2 Should marine works resume, water quality monitoring will be conducted in accordance with the requirement stipulated in the EM&A Manual accordingly.

6. Ecology

6.1 Monitoring Methodology

- 6.1.1 The weekly site audit to be carried out by the ET should include checking whether good site practices are being properly implemented by the Contractor
- 6.1.2 Impact monitoring of the transplanted *Aquilaris sinensis* at holding nursery and 1 retain tree of *Aquilaris sinensis* in SSWSTW Project Site, establishment and after-establishment caring measures of the compensatory mixed woodland to ensure the affected tree would not be affected by any unacceptable construction works. The trees would be treated with establishment works immediately after transplanting.
- 6.1.3 Site inspection at the nursery was conducted on 12 and 19 January 2026. No reminder was recorded.

6.2 Parameters Monitored

- 6.2.1 The extent of the work site boundaries should be checked by the ET during the weekly site audit. Any disturbance by the Contractor outside the works area especially any damage to the vegetation and surrounding habitats outside the Project area shall be reported to ER and IEC.
- 6.2.2 To identify any unacceptable construction works for the trees of *Aquilaris sinensis* during transplanting, establishment and after-establishment caring measures of the compensatory mixed woodland.

6.3 Monitoring Location

- 6.3.1 As per latest version of PTP, 4 trees found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW (**Figure 6.1**) which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery (**Figure 6.2**) at Kam Tin and eventually be transplanted to Pui O Pumping Station.

6.4 Monitoring Date, Time, Frequency and Duration

- 6.4.1 The recommended good site practices to be audited once every week as part of the site audit programme. The weekly site audit to be carried out by the ET includes checking whether good site practices are being properly implemented by the Contractor. Results are recorded in Weekly Environmental Site Audit Checklist.
- 6.4.2 Monitoring programme for post-transplantation was conducted on 12 and 19 January 2026.

6.5 Monitoring Results

- 6.5.1 The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- 6.5.2 The extent of the work site boundaries was checked by the ET during the weekly site audit.
- 6.5.3 Results and findings of site audit in this reporting month are listed in **Table 3.3**.

7. Waste Management

7.1.1 The quantities of waste for disposal in the Reporting Period are summarized in **Table 7.1**. The Monthly Summary Waste Flow Table is shown in **Appendix 7.1**.

Table 7.1: Summary of Quantities of Waste Material

Waste Type	Quantity this month	Quantity (the end of last month)	Cumulative Quantity-to-Date
Hard Rock and Large Broken Concrete (Inert), in '000m ³	0	0	0
Reused in this Contract (Inert), in '000m ³	0	0	0
Reused in other Projects (Inert), in '000m ³	0	0	0
Disposal as Public Fill (Inert), in '000m ³	0.57	0.14	31.39789
Metals, in '000kg	9.3827	10.5817	133.9543
Paper / Cardboard Packing, in '000kg	0.0595	0.0365	1.51928
Plastics, in '000kg	0.0026	0.0019	0.12176
Chemical Wastes, in '000kg	0	0	0
General Refuses, in '000kg	114.33	84.88	1353.99
Marine Sediment (Type 1 – Open Sea Disposal), m ³	0	0	1360.2

8. Complaints, Notification of Summons and Prosecution

- 8.1.1 No environmental complaint was recorded in the reporting month.
- 8.1.2 No notification of summons and successful prosecution regarding construction works were recorded in the reporting month.
- 8.1.3 Cumulative statistic on complaints, summary of complaints and successful prosecutions are summarized in **Table 8.1**, **Table 8.2** and **Table 8.3** respectively.

Table 8.1: Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
Project commencement to the end of last reporting month	4
This Reporting Month (January 2026)	0
Total:	4

Table 8.2: Summary of Complaints

Date of Notification from EPD	Date of Complaint	Description of Complaint	Validity of Complaint	Close-Out Date / Status
26 May 2022	22 May 2022	A complaint is regarding to noise nuisance from marine site of San Shek Wan, Lantau Island.	Based on the investigation, the works activities of marine works did not result in any noise nuisance to Noise Sensitive Receivers (NSRs), noise nuisance from the Project is unlikely to be valid.	The interim report was submitted to EPD in June 2022. EPD replied no further comments on the final investigation report on 13 July 2022.
23 Dec 2022	21 Dec 2022	A complaint is regarding to the water quality for Pui O Beach, Lantau Island.	Based on the investigation, the works activities at POPS did not result in any water quality impacts to the Pui O Beach.	The interim report was submitted to EPD on 4 Jan 2023.
16 Aug 2024	15 Aug 2024	A complaint is regarding to the damaged silt curtain and potential water quality impact.	Based on the investigation, no marine works since Dec 2023 till present, the land based works activities at POPS did not result in any water quality impacts to the Pui O Wan	The interim report was submitted to EPD on 31 Aug 2024.

Date of Notification from EPD	Date of Complaint	Description of Complaint	Validity of Complaint	Close-Out Date / Status
16 Sep 2025	16 Sep 2025	A complaint is regarding to oil sheen observed at Pui O Wetland, Lantau Island.	Based on the investigation, no evidence of oil leakage within our project site, it is considered that the oil pollution would not due to our site operation. As such the case is considered closed.	The Final Investigation Report was submitted to EPD by 17 Oct 2025.

Table 8.3: Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	-	0	0
Other	-	0	0
Total	-	0	0

9. Future Key Issues

9.1.1 In coming reporting 3 months, the scheduled construction activities are listed as follows:

- Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road
- Excavation and site formation at SSWSTW
- Trenchless drilling works (Chi Ma Wan Road)
- Excavation and ELS work at POSPS
- Superstructure RC works at SSWSTW
- Waterproofing Work at SSWSTW
- Retaining wall construction at SSWSTW
- E&M Installation at POSPS
- E&M Installation at SSWSTW
- ABWF work at POSPS
- ABWF work at SSWSTW

9.1.2 The scheduled construction activities and the recommended mitigation measures for the coming 3 months are listed in **Table 9.1**. The major construction activities for the next 3 months are summarized in 3 Months Rolling Programme – February 2026 to April 2026 in **Appendix 9.1**

Table 9.1: Construction Activities and Recommended Mitigation Measures in Coming Reporting 3 Months

Key Construction Works	Recommended Mitigation Measures
• Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road • Excavation and site formation at SSWSTW • Trenchless drilling works (Chi Ma Wan Road) • Excavation and ELS work at POSPS • Superstructure RC works at SSWSTW • Waterproofing Work at SSWSTW • Retaining wall construction at SSWSTW • E&M Installation at POSPS • E&M Installation at SSWSTW • ABWF work at POSPS • ABWF work at SSWSTW	• Prevention of site runoff during heavy rainstorms. • Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan; • Dust control during dust generating works; • Adopt surface drainage and sediment control facilities for sewage installation in village and public roads; • Adopt temporary drainage and sediment control facilities on Site; • Vehicle wheel-washing and body washing facilities should be provided at the site entrance; • Regular water spraying on excavation works for dust control; and • Proper waste handling, recycling and storage.

10. Conclusion

10.1 Noise Monitoring

- 10.1.1 Noise Monitoring has been conducted at 8 of the designated monitoring locations where construction works has been conducted nearby during the reporting month.
- 10.1.2 Noise limit level exceedance of 75 dB(A) was recorded at N12a on 24 December 2025. Site observation recorded a breaker was operating at a roadside works site on South Lantau Road was observed during monitoring. Also, local traffic noise, that comprises of heavy vehicles including trucks and buses, was observed to be high. As such, the exceedance would be due to combination of construction works and traffic flow. Hence, it is considered that the exceedance maybe project-related.
- 10.1.3 Repeat monitoring was conducted on 30 December 2025 due to no construction works during the public holidays on 25–26 December. Corrected noise level of 72dB(A) at N12a was recorded. Site investigation conducted on 30 December 2025 observed that no beaker was in operation at the work site. Corresponding remedial actions, including reminding the Contractor to maintain vigilance over construction noise and implemented proper construction noise mitigation measures according to EM&A Manual and Construction Noise Mitigation Plan. And formalizing the mandatory erection of noise barriers for future concrete breaking activities to prevent the recurrence of similar incidents. The Investigation report was submitted by EPD on 30 January 2026 and the Investigation Report is shown in **Appendix 10.1**.
- 10.1.4 No action or limit level exceedance was recorded in construction noise level in this reporting period.

10.2 Water Quality Monitoring

- 10.2.1 Subsequent to the completion of marine work on 24 May 2025, water quality monitoring was considered completed by 30 May 2025. No water quality monitoring is conducted in this reporting month.

10.3 Ecological Impact Monitoring

- 10.3.1 Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.
- 10.3.2 As per latest version of PTP, 4 trees found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery at Kam Tin and eventually be transplanted to Pui O Pumping Station.
- 10.3.3 The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- 10.3.4 The extent of the work site boundaries was checked by the ET during the weekly site audit.
- 10.3.5 Within this reporting period, holding nursery visit for transplanted trees on 12 and 19 January 2026.

- 10.3.6 No non-compliance was found during the site inspection while reminders on environmental measures were recommended. Results and findings of these inspections in this reporting period are listed below in **Table 10.1**

Table 10.1: Summary of Ecological Impact Monitoring

Inspection Date	Reminder and Recommendations	Close-out Date / Status
12 January 2026	Nil	--
19 January 2026	Nil	--

10.4 Review of the Reasons for and the Implications of Non-compliance

- 10.4.1 No environmental non-compliance was recorded in the reporting month.

10.5 Summary of Action Taken in the Event of and Follow-Up on Non-Compliance

- 10.5.1 There was no particular action taken since no non-compliance was recorded in the reporting month.
- 10.5.2 The performance of the environmental management system of the reporting period was generally satisfied. Mitigation measures according to the environmental mitigation implementation schedule and the EIA were generally implemented by the Contractor. Hence, the EM&A programme was considered effective and shall be maintained.

10.6 Complaints, Notification of Summons and Prosecution

- 10.6.1 No complaints were recorded in the reporting month.
- 10.6.2 No notification of summons and successful prosecution regarding construction works were recorded in the reporting month.

Appendix 4.1

Calibration Certificates for Noise Meter and Acoustic Calibrator



JCSS
JCSS 0197

CALIBRATION CERTIFICATE

Product : SOUND CALIBRATOR
Model : NC-75
Serial number : 34256525
Manufacturer : RION CO., LTD.
Calibration item : Sound pressure level (with reference standard microphone)
Calibration method : Measured by specified secondary standard microphone
according to JCSS calibration procedure specified by RION.
Ambient conditions : Temperature 23.2 °C, Relative humidity 49 %,
Static pressure 100.2 kPa
Calibration date : 12/2/2025 (D/M/YYYY)
Calibration location : 3-20-41 Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan
RION CO., LTD. Calibration Room

We hereby certify that the results of this calibration were as follows.

Issue date : 14/2/2025 (D/M/YYYY)

Yoshio Maruyama
Manager
Quality Assurance Section,
Quality Assurance Department,
Production Division
RION CO., LTD.
3-20-41 Higashimotomachi, Kokubunji,
Tokyo 185-8533, Japan



This certificate is based on article 144 of the Measurement Law and indicates the result of calibration in accordance with measurement standards traceable to Primary Measurement Standards (National Standards) which realizes the physical units of measurement according to the International System of Units (SI).

The accreditation symbol is attestation of which the result of calibration is traceable to Primary Measurement Standards (National Standards).

The certificate shall not be reproduced except in full, without the written approval of the issuing laboratory.

The calibration laboratory who issued this calibration certificate conforms to ISO/IEC 17025:2017.

This calibration certificate was issued by the calibration laboratory accredited by IAJapan who is a signatory to the Mutual Recognition Arrangement (MRA) of International Laboratory Accreditation Cooperation (ILAC) and Asia Pacific Accreditation Cooperation (APAC). This (These) calibration result(s) may be accepted internationally through ILAC/APAC MRA.

CALIBRATION RESULT

Sound pressure level (with reference standard microphone)

Measured Value	Expanded Uncertainty *
93.99 dB	0.09 dB

Specified secondary standard microphone:

Model : 4160
Serial number : 2973341

Reference Sound pressure : 2×10^{-5} Pa

* Defines an interval estimated to have a level of confidence of approximately 95 %.
Coverage factor $k = 2$

Calibration result is the calibration value in ambient conditions during calibration.

BE OUT OF JCSS CALIBRATION

1. Frequency

Measured Value	Measurement uncertainty ($k = 2$)
1000.0 Hz	4.0×10^{-4} Hz

Working measurement standard universal counter:

Model : 53132A
Serial number : MY40005574
(JCSS Calibration Certificate No. 2408008578510)

2. Total distortion

Measured Value
0.3 %

Working measurement standard distortion meter:

Model : VA-2230A
Serial number : 11076061
(A2LA Calibration Certificate No. 1504-03541)

- closing -



RION CO., LTD.

3-20-41 Higashimotomachi Kokubunji Tokyo 185-8533
Phone:042(359)7888, Facsimile:042(359)7442

Certificate of Calibration

Name : **Class 1 Sound Level Meter**
Model : **NL-53** **S/No.** : **00452008**
Date of Calibration : **April, 23, 2025**

We hereby certify that the above product was tested and calibrated according to the prescribed Rion procedures, and that it fulfills specification requirements.

The measuring equipment and reference devices used for testing and calibrating this unit are managed under the Rion traceability system and are traceable according to official Japanese standards and official standards of countries belonging to the International Committee of Weights and Measures.

RION CO., LTD.

Manager, Quality Control Department

Appendix 4.2

Impact Monitoring Schedule for Construction Phase Noise Monitoring for the Reporting Month and Next Month



Contract No. CM 04/2024

Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works – Environmental Team Services (2025 - 2027)

Environmental Monitoring Schedule

Month: January-2026

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				The first day of January	1-Jan	2-Jan
	Noise Monitoring					
4-Jan	5-Jan	6-Jan	7-Jan	8-Jan	9-Jan	10-Jan
					Noise Monitoring	
11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan
				Noise Monitoring	Noise Monitoring	
18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan
		Noise Monitoring				
25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan



Contract No. CM 04/2024

Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works – Environmental Team Services (2025 - 2027)

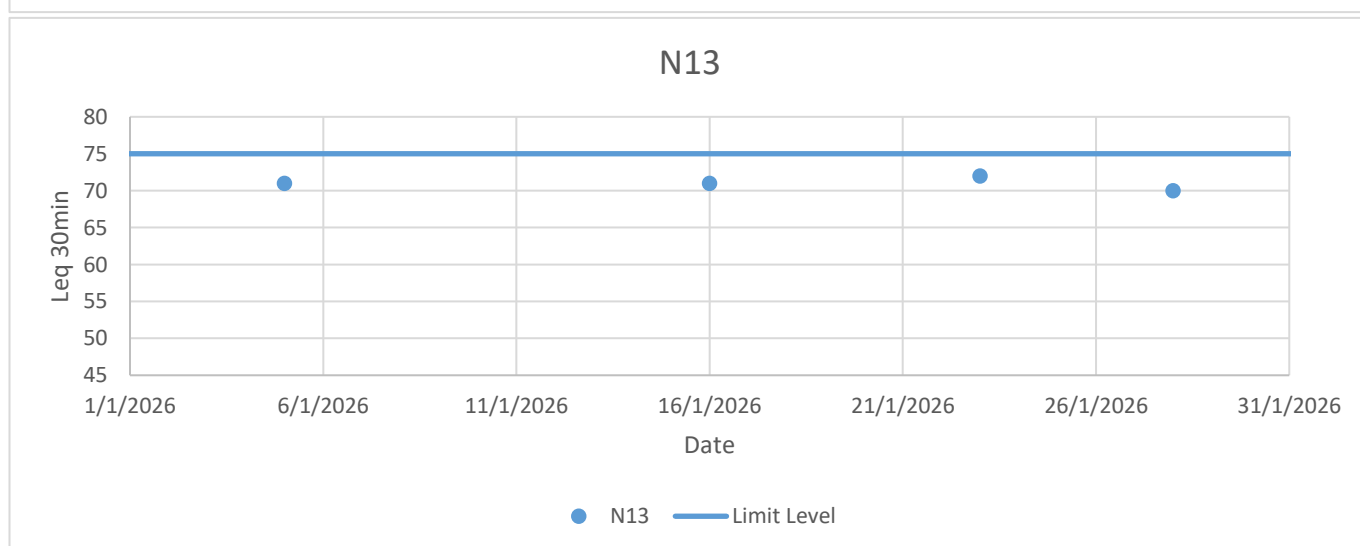
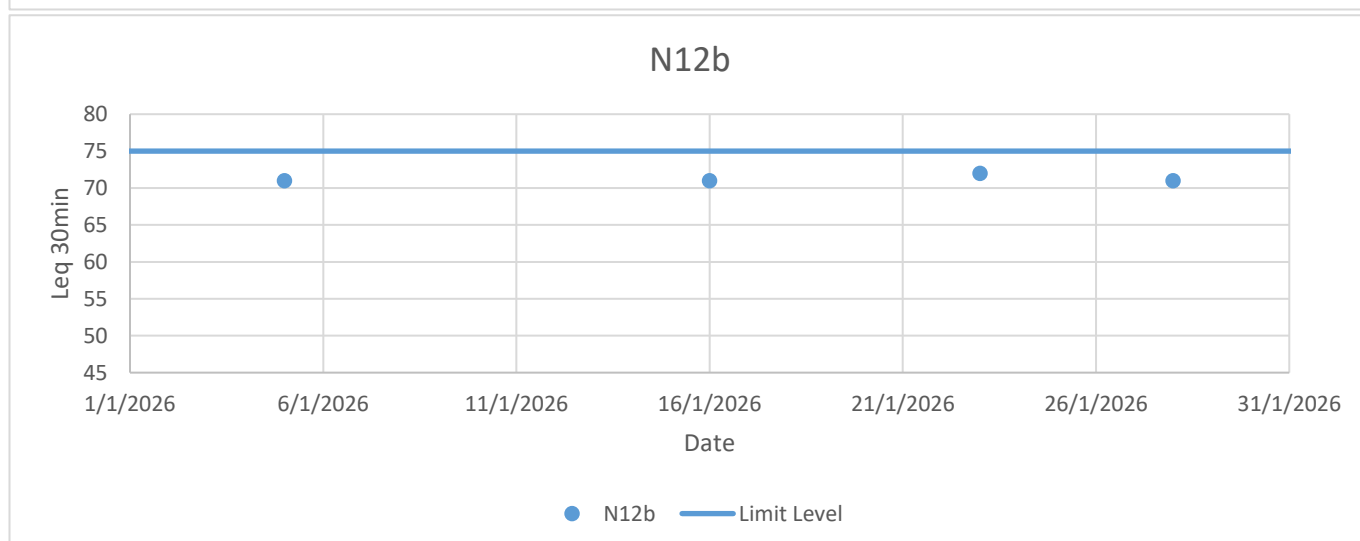
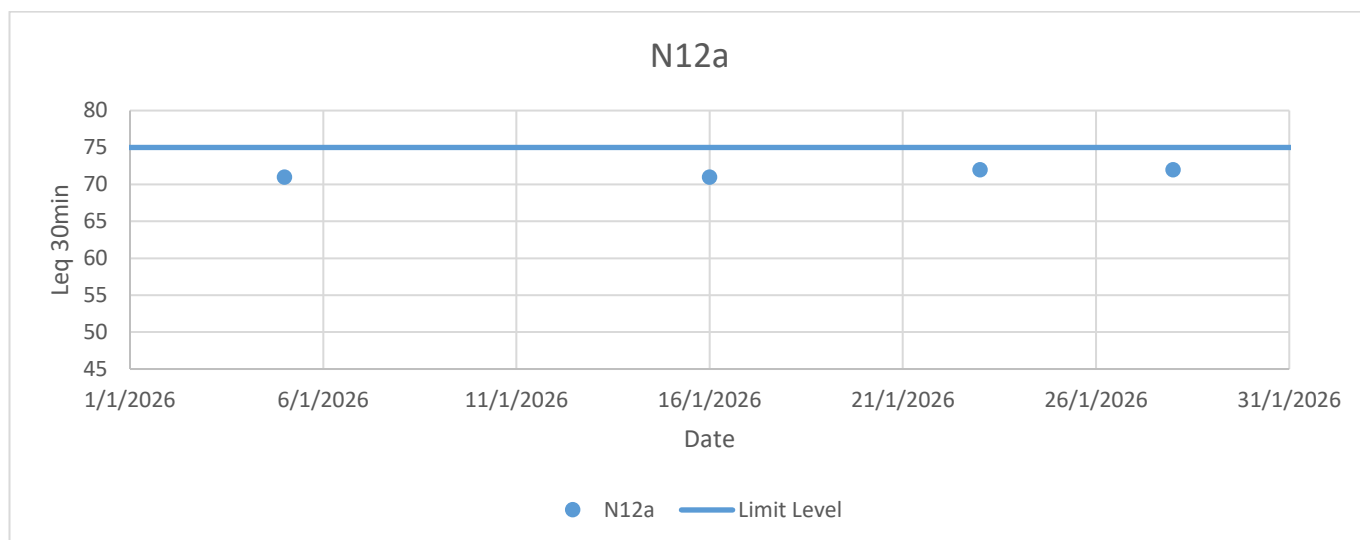
Environmental Monitoring Schedule

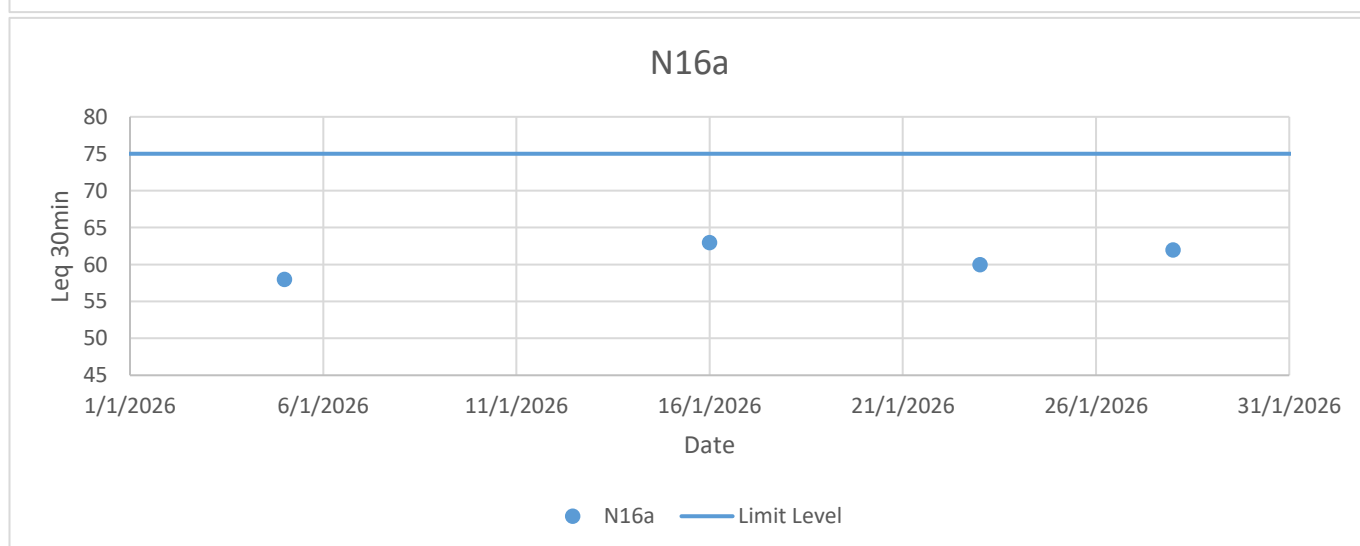
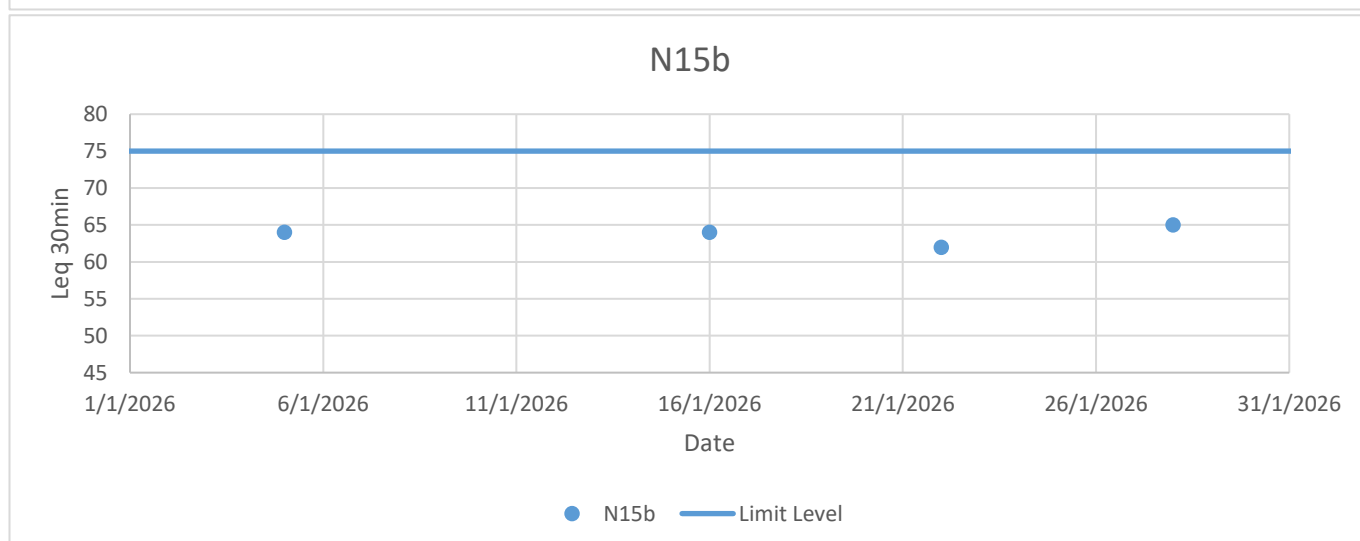
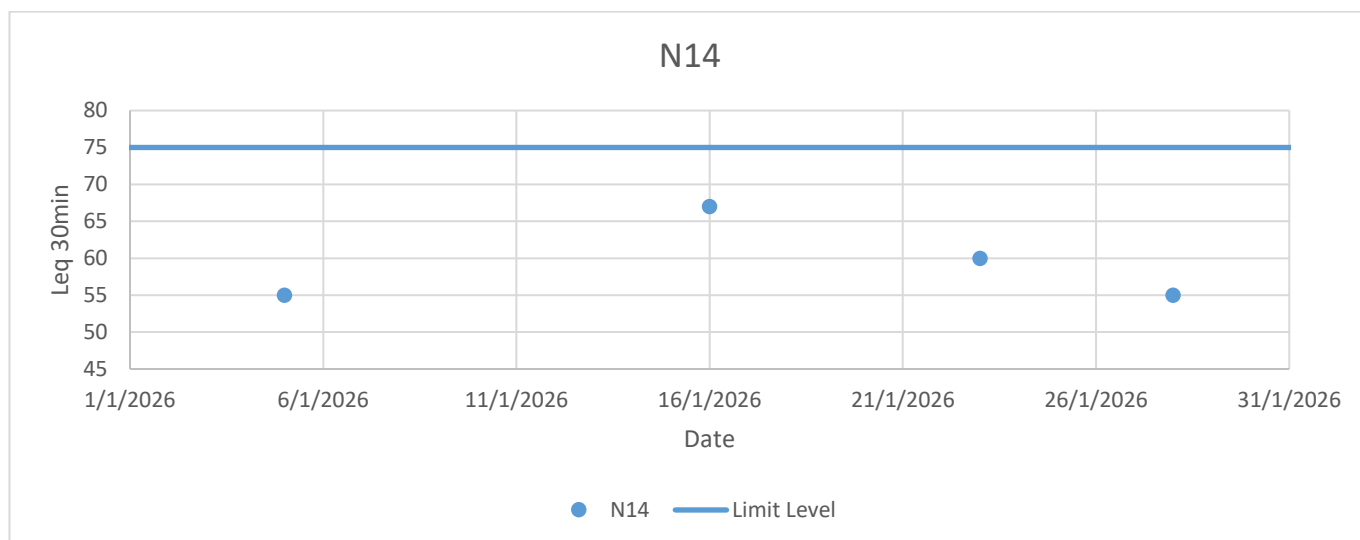
Month: February-2026

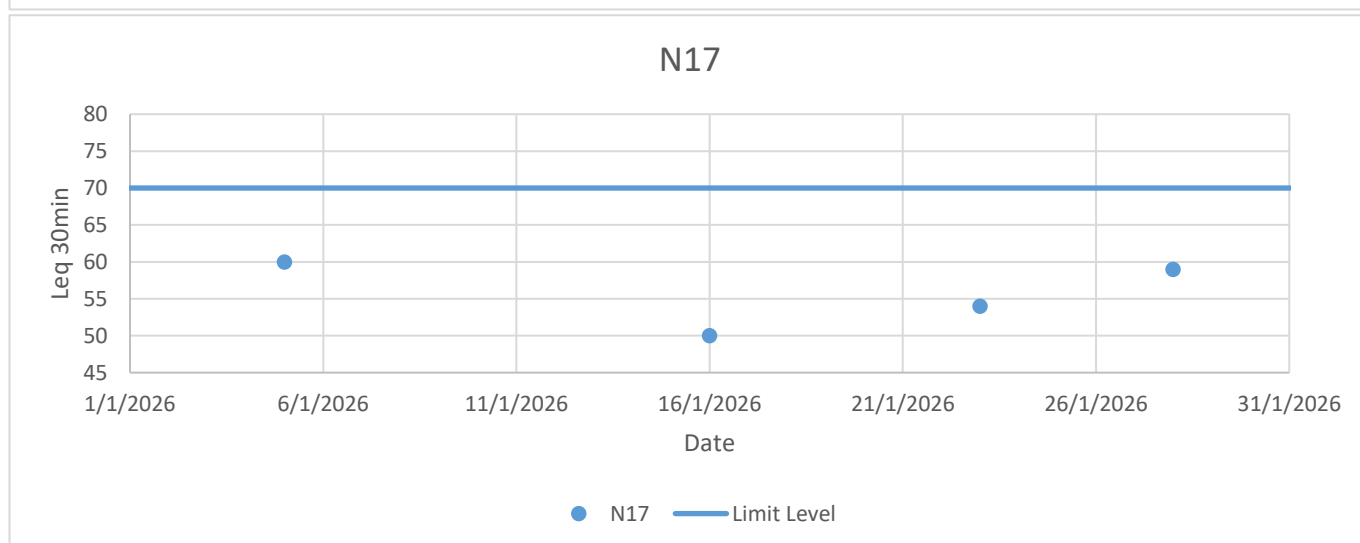
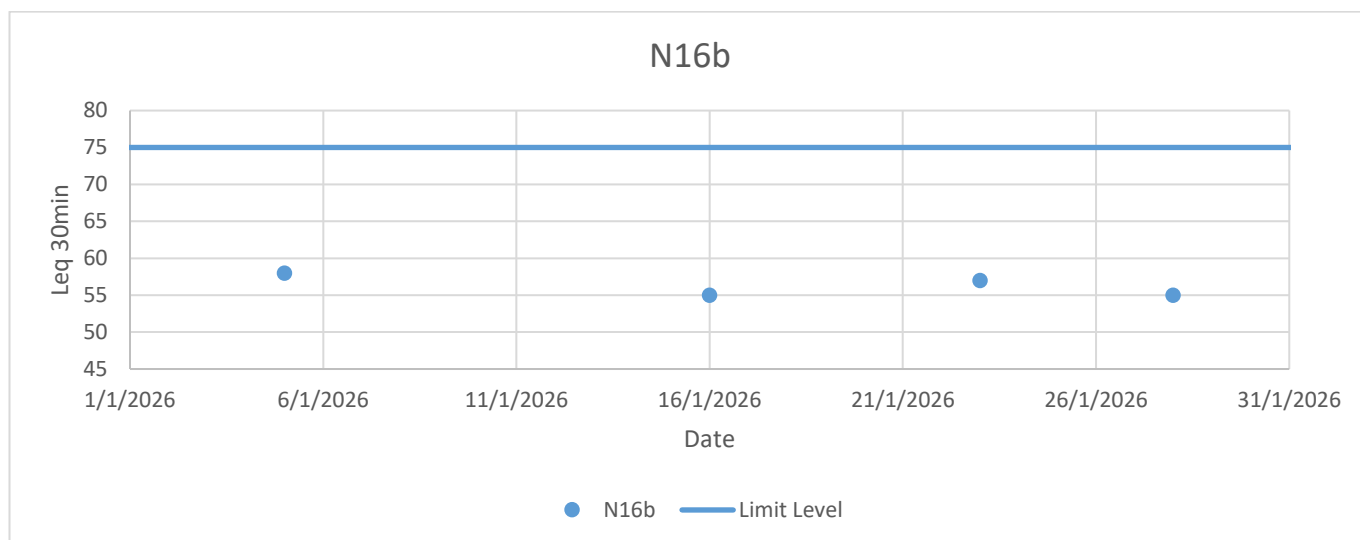
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		Noise Monitoring				
1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb
	Noise Monitoring					
8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb
					Noise Monitoring	
15-Feb	16-Feb	Lunar New Year's Day	17-Feb	18-Feb	19-Feb	20-Feb
				Noise Monitoring		
22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb

Appendix 4.3

Noise Monitoring Results and Graphical Representations









UMWELT CONSULTING LIMITED

23/F, On Hong Commercial Building, 145
Hennessy Road, Wan Chai, Hong Kong

Ref Location Name Level Type of Measurement
Location N12a Lo Uk Tsuen G/F Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise
					Leq	L10	L90						
5/1/2026	Sunny	Calm	09:30	10:00	68.7	73.2	53.8	68	3	71	75	Traffic, human activity, birds	Our project (hammering)
					70.3	71.8	53.8						
					67.7	71.1	52.4						
					66.8	69.9	49.8						
					63.3	68.3	45.9						
					67.2	69.4	51.8						
16/1/2026	Sunny	Calm	09:50	10:20	68.5	69.0	55.7	68	3	71	75	Traffic, human activity, birds	Our project (concrete filling near entrance, operation of excavator, hammering in site)
					67.0	68.7	56.1						
					68.0	69.3	55.9						
					67.0	70.9	58.0						
					65.1	69.5	55.2						
					70.6	71.3	55.9						
23/1/2026	Cloudy	Calm	10:08	10:38	71.7	75.5	61.7	69	3	72	75	Traffic, human activity, birds	Our project (Drilling)
					67.0	70.2	53.9						
					69.0	71.4	54.4						
					68.7	72.2	56.5						
					69.8	73.2	58.1						
					67.9	70.4	56.8						
28/1/2026	Cloudy	Calm	13:20	13:50	67.6	70.2	55.1	69	3	72	75	Traffic, human activity, birds	Our project (Drilling)
					70.4	71.4	55.0						
					69.9	72.1	55.5						
					68.6	71.3	56.3						
					67.6	71.6	51.2						
					64.8	67.6	47.5						



UMWELT CONSULTING LIMITED

23/F, On Hong Commercial Building, 145
Hennessy Road, Wan Chai, Hong Kong

	Ref	Location Name			Level			Type of Measurement						
Location	N12b	Lo Uk Tsuen			G/F	Free-Field								
Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	
					Leq	L10	L90							
5/1/2026	Sunny	Calm	10:10	10:40	66.5	70.5	52.0	68	3	71	75	Traffic, human activity	Not observed	
					68.5	72.4	55.1							
					68.8	72.5	54.5							
					65.9	70.4	54.6							
					66.2	69.5	54.3							
					71.4	74.1	54.8							
16/1/2026	Sunny	Calm	10:32	11:02	69.1	71.6	60.5	68	3	71	75	Traffic, human activity	Our project (concrete breaking by Excavator)	
					68.8	71.2	55.5							
					68.8	72.1	55.9							
					67.9	71.7	56.0							
					68.2	70.9	55.0							
					66.8	70.9	56.6							
23/1/2026	Cloudy	Calm	10:45	11:15	68.4	72.6	53.4	69	3	72	75	Traffic, human activity, birds	Our project (Drilling)	
					68.1	70.7	51.6							
					68.1	70.5	51.2							
					67.0	70.4	52.9							
					68.2	71.5	54.9							
					70.9	74.4	57.4							
28/1/2026	Cloudy	Calm	12:47	13:17	65.7	69.5	47.6	68	3	71	75	Traffic, human activity, birds, helicopter	Not observed	
					66.4	69.3	45.5							
					64.7	68.5	47.2							
					64.0	68.1	45.4							
					69.5	71.3	49.2							
					71.6	75.3	48.0							



UMWELT CONSULTING LIMITED

23/F, On Hong Commercial Building, 145
Hennessy Road, Wan Chai, Hong Kong

Ref **Location Name** **Level** **Type of Measurement**
Location N13 Pui O San Wai Tsuen G/F Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise
					Leq	L10	L90						
5/1/2026	Sunny	Calm	10:48	11:18	65.7	68.7	61.6	68	3	71	75	Traffic , human activity, school bell	Not observed
					69.1	72.4	63.5						
					67.9	69.5	63.9						
					69.0	71.8	63.7						
					69.1	72.1	64.4						
					68.6	72.5	60.2						
16/1/2026	Sunny	Calm	11:10	11:40	68.9	73.2	57.0	68	3	71	75	Traffic , human activity, dog bark, school bell	Not observed
					67.5	71.9	52.0						
					65.7	69.8	51.4						
					65.4	69.4	53.2						
					65.7	69.3	53.5						
					69.8	70.8	52.1						
23/1/2026	Cloudy	Calm	14:38	15:08	70.0	72.3	54.6	69	3	72	75	Traffic, human activity, birds	Not observed
					67.2	70.5	58.2						
					67.9	71.0	58.8						
					67.9	71.3	59.5						
					69.2	72.5	60.7						
					68.2	71.1	59.7						
28/1/2026	Cloudy	Calm	11:26	11:56	66.0	69.4	53.5	67	3	70	75	Traffic, human activity, birds	Not observed
					66.2	70.0	54.3						
					69.3	72.6	54.6						
					65.5	69.2	56.4						
					67.6	69.5	49.7						
					64.6	65.9	43.9						



UMWELT CONSULTING LIMITED

23/F, On Hong Commercial Building, 145
Hennessy Road, Wan Chai, Hong Kong

	Ref	Location Name			Level	Type of Measurement							
Location	N14	South Lantau Community Centre			G/F	Façade							
		Wind Condition	Start Time	End Time	Measured Noise Level				Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	
Date	Weather				Leq	L10	L90	Leq30mins					Construction Noise
5/1/2026	Sunny	Calm	13:05	13:35	59.6	55.5	45.0	55	--	55	75	Human activity, traffic, birds	Not observed
					56.5	58.4	45.0						
					49.7	56.0	42.3						
					53.5	56.8	44.3						
					52.8	54.1	45.6						
					49.0	52.3	43.9						
16/1/2026	Sunny	Calm	13:25	13:55	66.7	70.4	54.1	67	--	67	75	Human activity, traffic, birds	Other Project (Concrete breaking by Excavator from Electricity Supply Improvement Work by CLP)
					66.0	69.5	53.1						
					66.6	67.7	59.4						
					66.2	69.3	61.2						
					67.8	71.5	61.5						
					65.2	68.3	61.3						
23/1/2026	Cloudy	Calm	11:21	11:51	62.1	63.5	53.0	60	--	60	75	Traffic, human activity, birds	Our Project (Pumping)
					56.7	58.8	52.1						
					58.0	60.3	52.5						
					60.4	61.3	59.7						
					61.5	61.9	60.1						
					60.9	61.9	60.1						
28/1/2026	Cloudy	Calm	10:20	10:50	56.7	60.0	42.1	55	--	55	75	Traffic, human activity, birds	Not observed
					51.9	55.9	40.6						
					53.4	56.5	42.8						
					52.3	56.5	43.7						
					57.4	61.5	48.1						
					53.2	54.4	44.5						



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23/F, On Hong Commercial Building, 145
Hennessy Road, Wan Chai, Hong Kong

	Ref	Location Name	Level	Type of Measurement									
Location	N15b	Pui O Lo Wai Tsuen	G/F	Façade									
Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise
					Leq	L10	L90						
5/1/2026	Sunny	Moderate	15:09	15:39	61.8	65.4	55.0	64	--	64	75	Traffic, human activity, birds	Not observed
					60.9	65.2	54.8						
					61.1	65.1	55.0						
					67.1	70.5	55.3						
					62.2	65.4	54.9						
					64.4	67.4	55.1						
16/1/2026	Sunny	Calm	15:43	16:13	61.5	65.4	54.7	64	--	64	75	Traffic, human activity	Not observed
					62.6	67.2	54.9						
					63.2	67.5	54.9						
					59.1	62.9	54.9						
					63.7	67.7	55.4						
					67.1	68.4	61.3						
22/1/2026	Cloudy	Calm	14:13	14:43	61.3	64.8	55.7	62	--	62	75	Traffic, human activity, birds	Not observed
					63.3	67.2	55.7						
					60.1	63.4	55.5						
					59.5	62.7	55.4						
					62.5	66.0	55.4						
					60.8	64.3	55.3						
28/1/2026	Cloudy	Calm	12:06	12:36	64.6	68.6	52.0	65	--	65	75	Traffic, human activity, birds	Not observed
					65.0	67.8	55.0						
					67.9	69.0	56.1						
					62.4	66.2	55.1						
					60.0	63.1	54.9						
					62.6	66.6	55.3						

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23/F, On Hong Commercial Building, 145
Hennessy Road, Wan Chai, Hong Kong

	Ref	Location Name	Level	Type of Measurement									
Location	N16a	Residences at Ham Tin	G/F	Free-Field									
Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise
					Leq	L10	L90						
5/1/2026	Sunny	Calm	13:49	14:19	55.2	49.4	42.7	55	3	58	75	Traffic, human activity, birds	Not observed
					53.9	53.6	41.1						
					56.0	54.4	40.1						
					57.2	54.8	40.7						
					50.8	50.7	41.4						
					55.6	55.0	41.1						
16/1/2026	Sunny	Calm	14:09	14:39	53.1	47.8	40.6	60	3	63	75	Traffic, human activity, birds, dog bark	Not observed
					46.0	44.9	38.7						
					54.1	48.7	39.2						
					53.3	53.1	39.6						
					52.9	57.1	40.4						
					66.9	66.7	43.3						
23/1/2026	Cloudy	Calm	12:48	13:18	56.1	50.3	35.2	57	3	60	75	Traffic, human activity, birds	Not observed
					54.6	55.2	35.0						
					50.8	43.6	33.5						
					54.5	58.2	41.5						
					56.3	55.5	34.7						
					62.0	53.1	34.9						
28/1/2026	Cloudy	Calm	09:10	09:40	56.7	55.1	42.6	59	3	62	75	Traffic, human activity, birds	Not observed
					60.5	54.7	41.9						
					59.3	57.5	40.6						
					54.6	51.5	40.7						
					60.3	57.3	40.0						
					61.0	58.2	39.7						



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23/F, On Hong Commercial Building, 145
Hennessy Road, Wan Chai, Hong Kong

Ref	Location Name	Level	Type of Measurement
Location	N16b	Residences at Ham Tin	G/F
			Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise
					Leq	L10	L90						
5/1/2026	Sunny	Moderate	14:27	14:57	56.0	59.2	48.2	55	3	58	75	Traffic, human activity, birds	Not observed
					53.9	57.7	47.9						
					52.5	52.1	46.4						
					50.6	52.4	44.5						
					56.6	60.5	45.9						
					56.4	60.6	49.4						
16/1/2026	Sunny	Calm	14:58	15:28	51.7	50.0	41.9	52	3	55	75	Traffic, human activity, birds	Not observed
					46.8	48.9	41.6						
					54.6	56.9	43.4						
					53.9	55.1	42.1						
					49.0	52.3	42.0						
					49.3	53.0	43.2						
23/1/2026	Cloudy	Calm	13:23	13:53	51.8	50.4	41.9	54	3	57	75	Traffic, human activity, birds	Not observed
					52.9	55.6	44.2						
					53.5	57.1	43.5						
					53.8	58.2	42.1						
					54.9	58.0	42.3						
					54.5	54.6	40.5						
28/1/2026	Cloudy	Calm	09:42	10:12	53.8	58.1	42.2	52	3	55	75	Traffic, human activity, birds	Not observed
					46.1	48.3	41.2						
					47.4	50.2	42.3						
					50.1	52.7	40.8						
					50.6	54.6	41.7						
					55.9	59.3	41.5						



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Hennessy Road, Wan Chai, Hong Kong

	Ref	Location Name			Level	Type of Measurement								
Location	N17	Bui O Public School			R/F	Façade								
Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	
					Leq	L10	L90							
5/1/2026	Sunny	Calm	12:25	12:55	58.4	62.7	49.3	60	--	60	70	Human activity, traffic, birds	Not observed	
					59.4	63.4	50.8							
					60.8	64.4	51.5							
					61.4	65.7	51.2							
					60.4	63.9	52.2							
					57.6	60.1	48.7							
16/1/2026	Sunny	Calm	12:39	13:09	51.3	52.5	46.2	50	--	50	70	Traffic, human activity, birds, school bell	Not observed	
					52.8	53.0	45.9							
					47.2	49.4	44.3							
					46.5	48.7	44.1							
					47.2	49.0	45.0							
					50.9	53.8	46.5							
23/1/2026	Cloudy	Calm	14:03	14:33	50.2	52.8	46.2	54	--	54	70	Traffic, human activity, birds	Not observed	
					53.1	55.2	48.6							
					54.8	56.0	52.8							
					54.2	55.6	52.6							
					54.4	56.0	52.3							
					53.6	55.0	52.0							
28/1/2026	Cloudy	Calm	10:54	11:24	51.0	53.8	46.4	59	--	59	70	Human activity, birds, school bell, helicoper	Not observed	
					54.2	56.7	47.8							
					51.7	53.1	47.2							
					62.0	64.0	45.3							
					62.1	66.0	47.1							
					58.5	61.2	48.3							

Appendix 7.1

Monthly Summary Waste Flow Table

Drainage Services Department
Contract No. DC/2020/02
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works

Monthly Summary Waste Flow Table for 2026

Month	Actual Quantities of Inert C&D Material Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated (a)	Hard Rocks and Large Broken Concrete (b)	Reused in the Contract (c)	Reused in other Projects (d)	Disposed as Public Fill (a-b-c-d)	Imported Fill	Metals	Paper/card-board packaging	Plastics [see Note 5]	Chemical waste	Others. e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
Jan	0.60	0.00	0.00	0.00	0.57	0.03	9.3827	0.0595	0.0026	0.00	114.33
Feb	0.00										
Mar	0.00										
Apr	0.00										
May	0.00										
Jun	0.00										
Sub-total	0.60	0.00	0.00	0.00	0.57	0.03	9.3827	0.0595	0.0026	0.00	114.33
July	0.00										
Aug	0.00										
Sept	0.00										
Oct	0.00										
Nov	0.00										
Dec	0.00										
Total	0.60	0.00	0.00	0.00	0.57	0.03	9.3827	0.0595	0.0026	0.00	114.33

Notes:

- (1) The inert C&D material except slurry and bentonite are disposed at Mui Wo Temporary Public Fill Bank (MW-PFRF) or Tuen Mun Area 38 Fill Bank (TM38-FB)
- (2) The slurry and bentonite are disposed at Tseung Kwan O Area 137 Fill Bank (TKO137FB)
- (3) The non-inert waste is disposed at NENT or Outlying Islands Transfer Facilities
- (4) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (5) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (6) Assume the density of fill material is 2 tonne/m³.

Appendix 9.1

3 Months Rolling Programme

KL-CW JV

Tentative Three Months Construction Rolling Program 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. : -
--	--

Construction Activities for the reporting period

Item	Construction Activities
1	Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road
2	Trenchless drilling works (Chi Ma Wan Road)
3	Excavation and ELS work at POSPS
4	Superstructure RC works at SSWSTW
5	Waterproofing Work at SSWSTW
6	Excavation and Site formation at SSWSTW
7	E&M Installation at POSPS
8	E&M Installation at SSWSTW
9	Slope Work (near SSWSTW)

KL-CW JV

Tentative Three Months Construction Rolling Program 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. : -
--	--

Tentative Three Months (February, March and April 2026) Construction Rolling Program

Item	Construction Activities
1	Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road
2	Excavation and Site formation at SSWSTW
3	Trenchless drilling works (Chi Ma Wan Road)
4	Excavation and ELS work at POSPS
5	Superstructure RC works at SSWSTW
6	Waterproofing Work at SSWSTW
7	Retaining wall construction at SSWSTW
8	E&M Installation at POSPS
9	E&M Installation at SSWSTW
10	ABWF work at POSPS
11	ABWF work at SSWSTW

Appendix 10.1

Investigation Report

Notification of Exceedance

Contract:		CM 04/2024 - Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works – Environmental Team Services (2025 - 2027)								
Date:		24 December 2025			NOE Reference:		20251224-NM			
Parameter:		Noise								
		Results, dB(A)			Criteria (Limit Level), dB(A)			Exceedance		
Station:		N12a		75		75		Limit Level		

Location	Weather	Wind Condition	Start Time	End Time	Measured Noise Level dB(A)			Corrected Leq(30mins) dB(A)	Major observation	Other Observation
					L _{eq}	L ₁₀	L ₉₀			
N12a	Cloudy	Calm	9:27	9:57	71.0	73.6	60.7	75	Concrete Breaking from our project	A relatively high traffic flow, including commercial vehicles like trucks and buses, was observed
					72.1	74.3	66.5			
					71.5	74.0	62.3			
					74.9	76.6	62.3			
					72.1	74.1	61.9			

Investigation Report

ET's On-site Observations:

On 24 December 2025, during the noise monitoring at N12a, one breaker was observed operating at a roadside works site within the project boundary on South Lantau Road, and no noise mitigation measures were implemented during this period. Also, local traffic noise, that comprises heavy vehicles including trucks and buses, was observed to be high.

On December 30, 2025, during the noise monitoring at N12a, excavation work was found at the roadside construction site roadside works site within the project boundary on South Lantau Road, and no noise mitigation measures were taken during this period.

Information Provided by the Contractor

At around 10 a.m. on 24 December 2025, project - related concrete breaking work was carried out near the noise monitoring station N12a. As of 24 December 2025, the concrete breaking work had been completed.

Possible reason for Action or Limit Level Non-compliance:

According to on-site observation during the construction noise monitoring at N12a on 24 December 2025, one breaker was observed operating during the noise monitoring at the roadside works site within the project boundary on South Lantau Road.. In addition, local traffic noise that comprises of heavy vehicles including trucks and buses, was observed to be high.

According to the information provided by the Contractor, project-related construction work, i.e. breaking up of pavement, was carried out near the noise monitoring station N12a at about 10 am. The monitoring period 09:27-09:57 overlaps with the early setup or trial operation of the concrete breaking works. Location of the construction works is given in **Figure 1**.

In conclusion, the exceedance would be due to combination of construction works and traffic flow. Hence, it is considered that exceedance maybe project related.

Repeat Monitoring:

Due to the following day being public holidays (25 to 26 December 2025), repeat monitoring was conducted in the next monitoring period. Noise monitoring was performed on 30 December 2025, measured Leq30mins at N12a did not exceed the limit level 75dB(A). It was observed that the concrete breaking works at the works site observed on 24 December 2025 was completed.

Remedial Action / Additional mitigation measures:

Although the concrete breaking work has been completed, the contractor is reminded to maintain vigilance over construction noise and implemented proper construction noise mitigation measures according to EM&A Manual and Construction Noise Mitigation Plan.

Photo Records

Site Observation Photos around noise Monitoring Stations taken by the ET on 24 December 2025



Photo Records on 30 December 2025 provided by ET

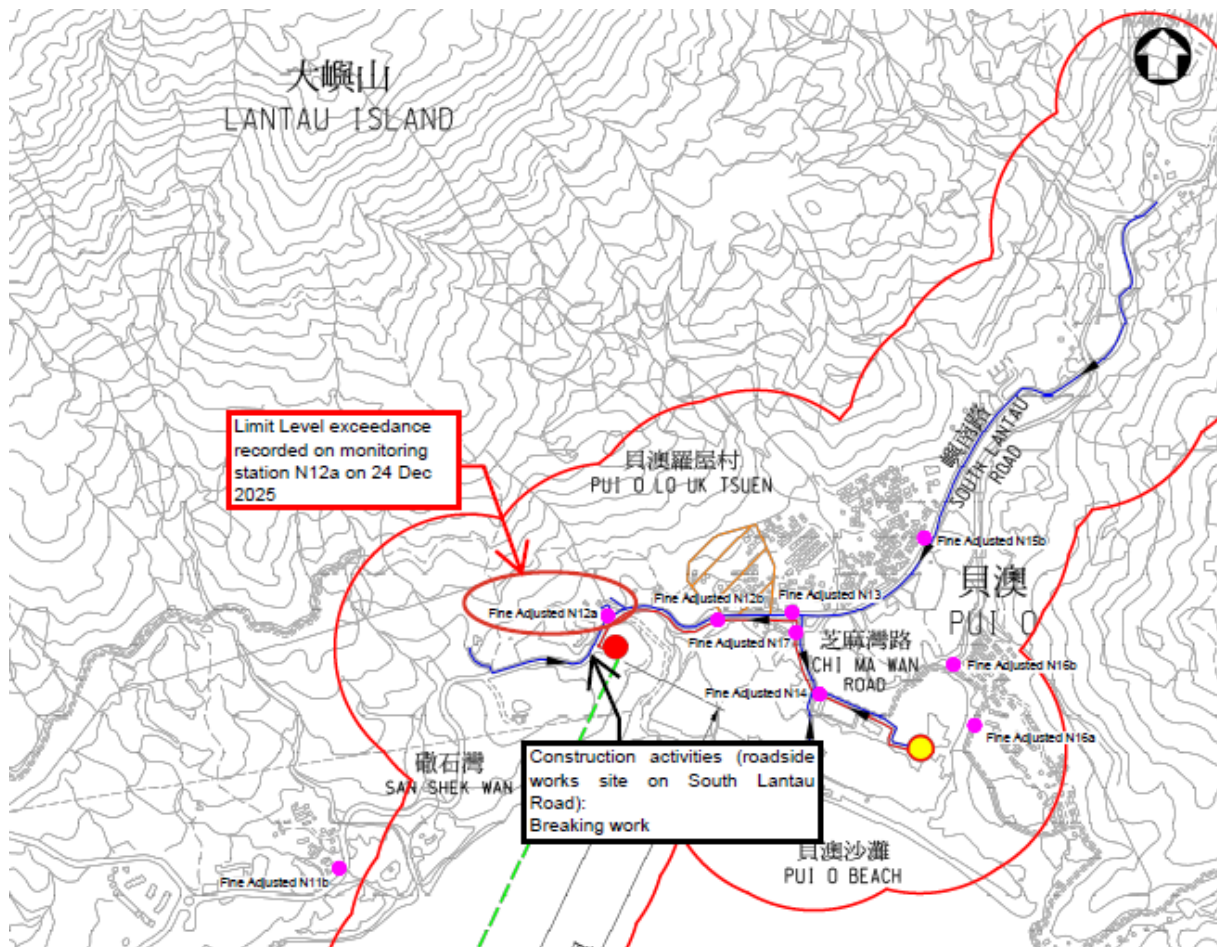


Construction activities: Excavation



Site Photo of N12a

Figure 1: Location Plan (Site activities held on 24 December 2025)





**Contract No. CM 04/2024 - Outlying Islands Sewerage
Stage 2 – South Lantau Sewerage Works –
Environmental Team Services (2025 - 2027)**

UMWELT CONSULTING LIMITED

23/F, On Hong Commercial Building, 145
Hennessy Road, Wan Chai, Hong Kong

Figures

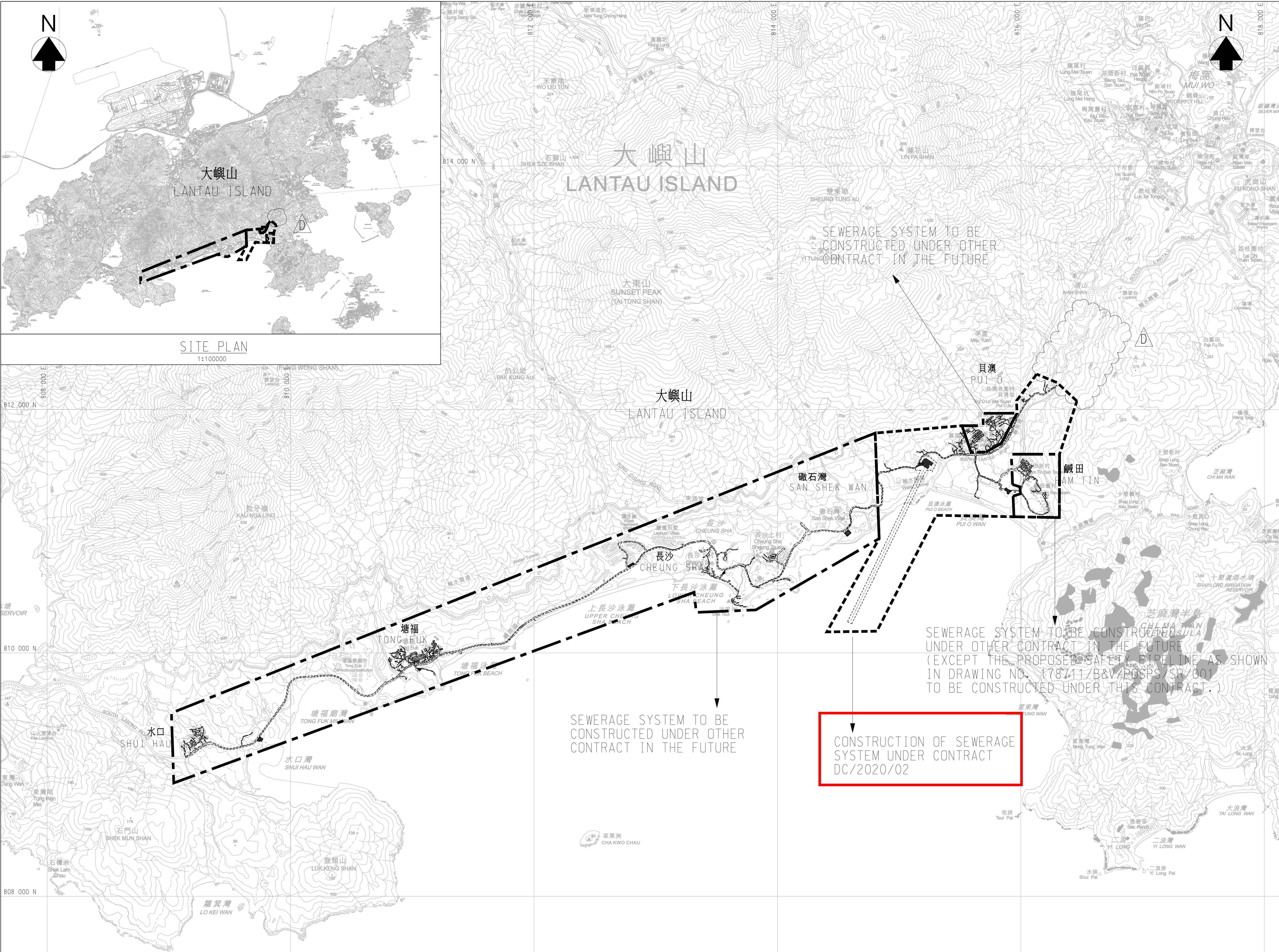


Figure 2.1 - Master Layout Plan

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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	Christina		

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.	Revision
178711/B&V/GN/001	D

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

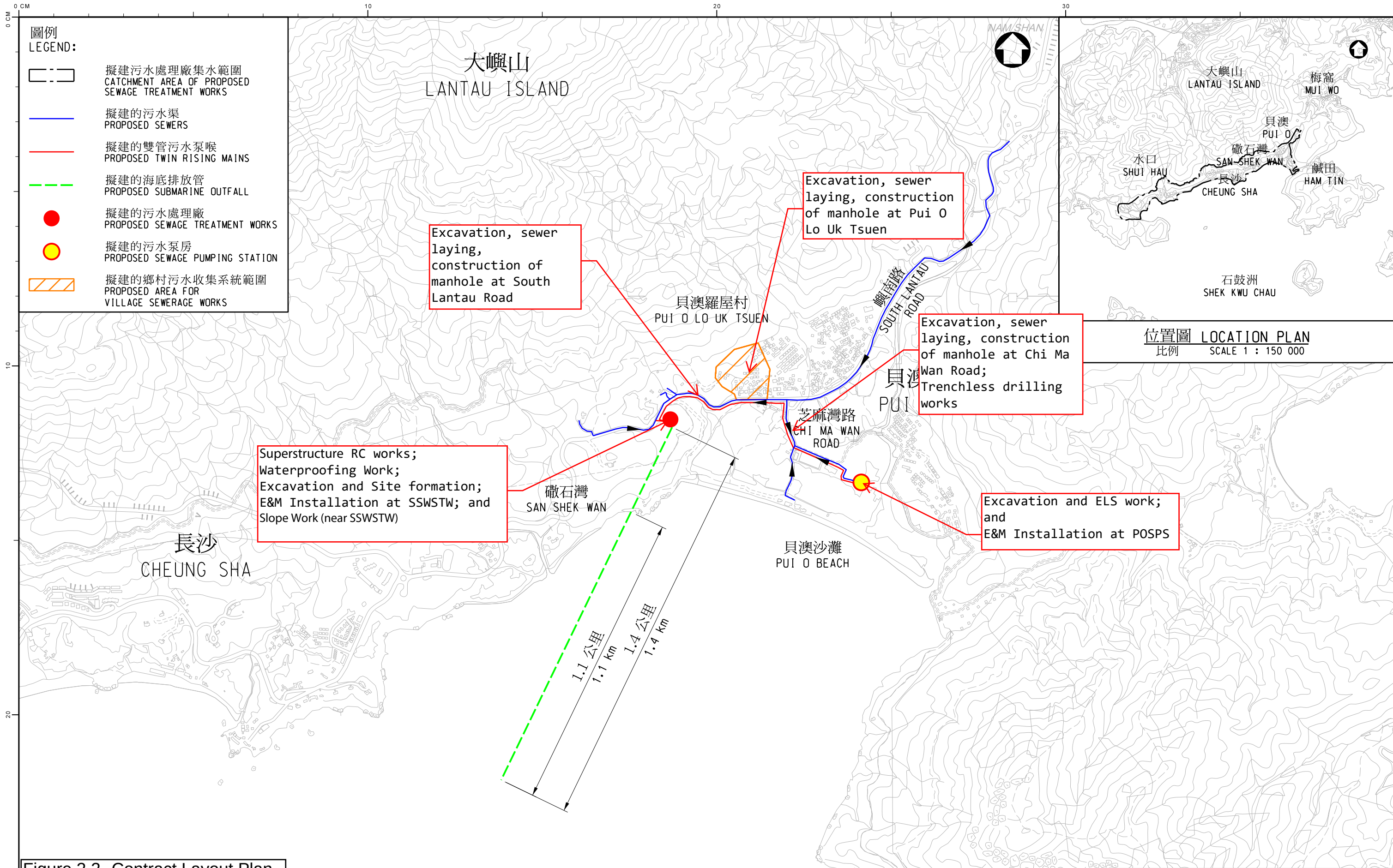


Figure 2.2 Contract Layout Plan

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	W. H. CHAN	日期 date	27 APR 2020	修改項目 description	簡簽 initial
核對 checked	Ir K. S. CHAN	日期 date	27 APR 2020	圖則編號 drawing no.	比例 scale
批核 approved	Ir L. CHEN	日期 date	27 APR 2020	DVD/2020/001	1:12 500
部門 office	特別職務部 SPECIAL DUTY DIVISION			保留版權 COPYRIGHT RESERVED	
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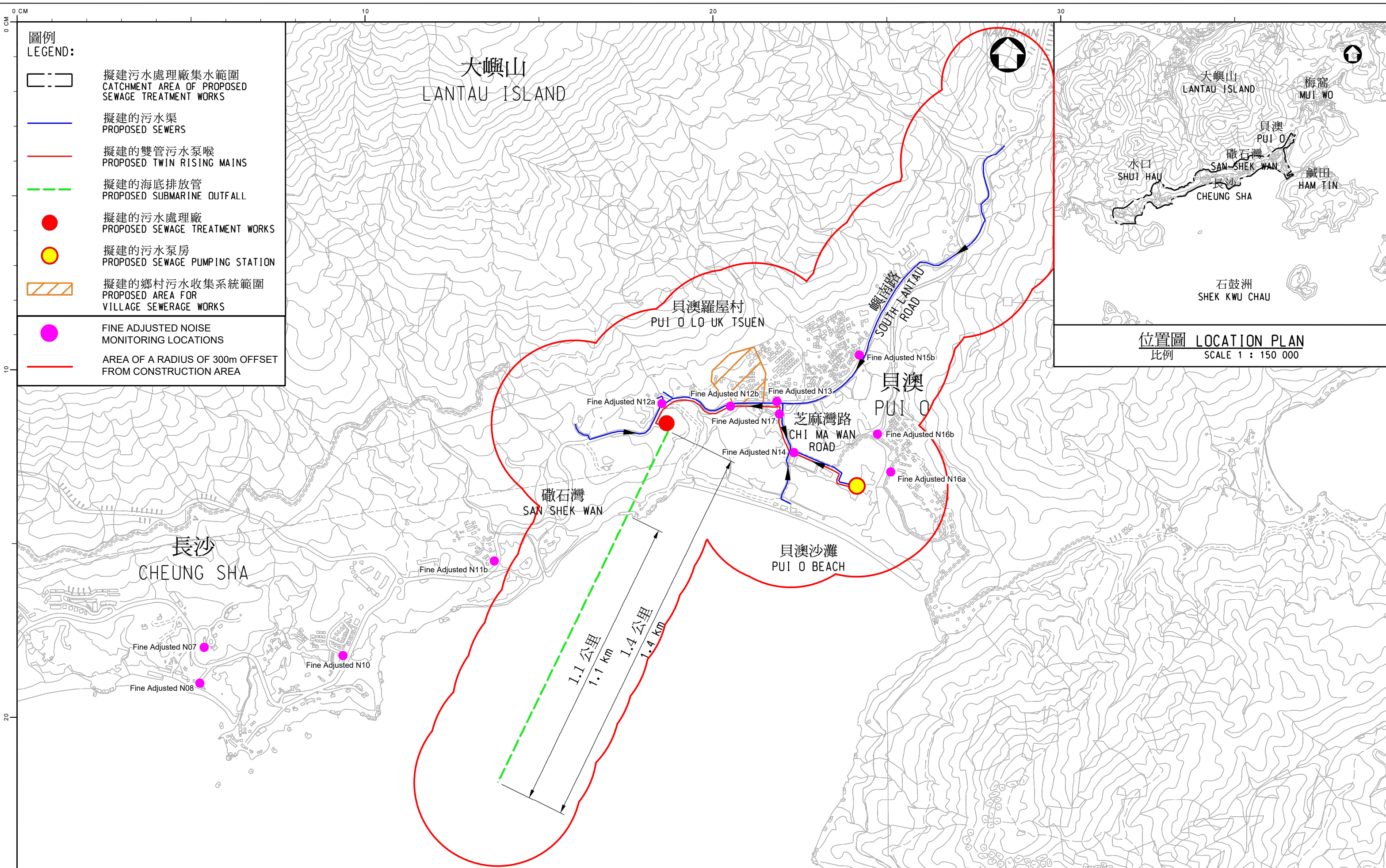


Figure 2.3 - Locations of Noise Monitoring Station

Key

 Project Boundary	 Fung Shui Woodland	 <i>Aquilaria sinensis</i>
 500m Study Area	 Mixed Woodland	 <i>Artocarpus hypargyreus</i>
 Proposed Site of Pumping Station	 Plantation	 <i>Pavetta hongkongensis</i>
 Alternative Site of Pumping Station	 Shrubland-Grassland	 Black Kite
 Proposed Site of Sewage Treatment Works	 Cultivated Land	 Collared Scops Owl
 Access Road	 Marsh	 Greater Coucal
 Proposed Sewer	 Stream	 Hwamei
 Proposed Rising Main	 Mangrove	 Reef Egret
 Proposed Submarine Outfall	 Sandflat	 Copperhead Racer
	 Rocky Shore	 Chinese Bullfrog
	 Sandy Shore	 Japanese pipistrelle
	 Urbanised/Disturbed Area	 Horseshoe Crab
	 Subtidal Hard Bottom Habitat	 Hard Coral
	 Subtidal Soft Bottom Habitat	

Index Map





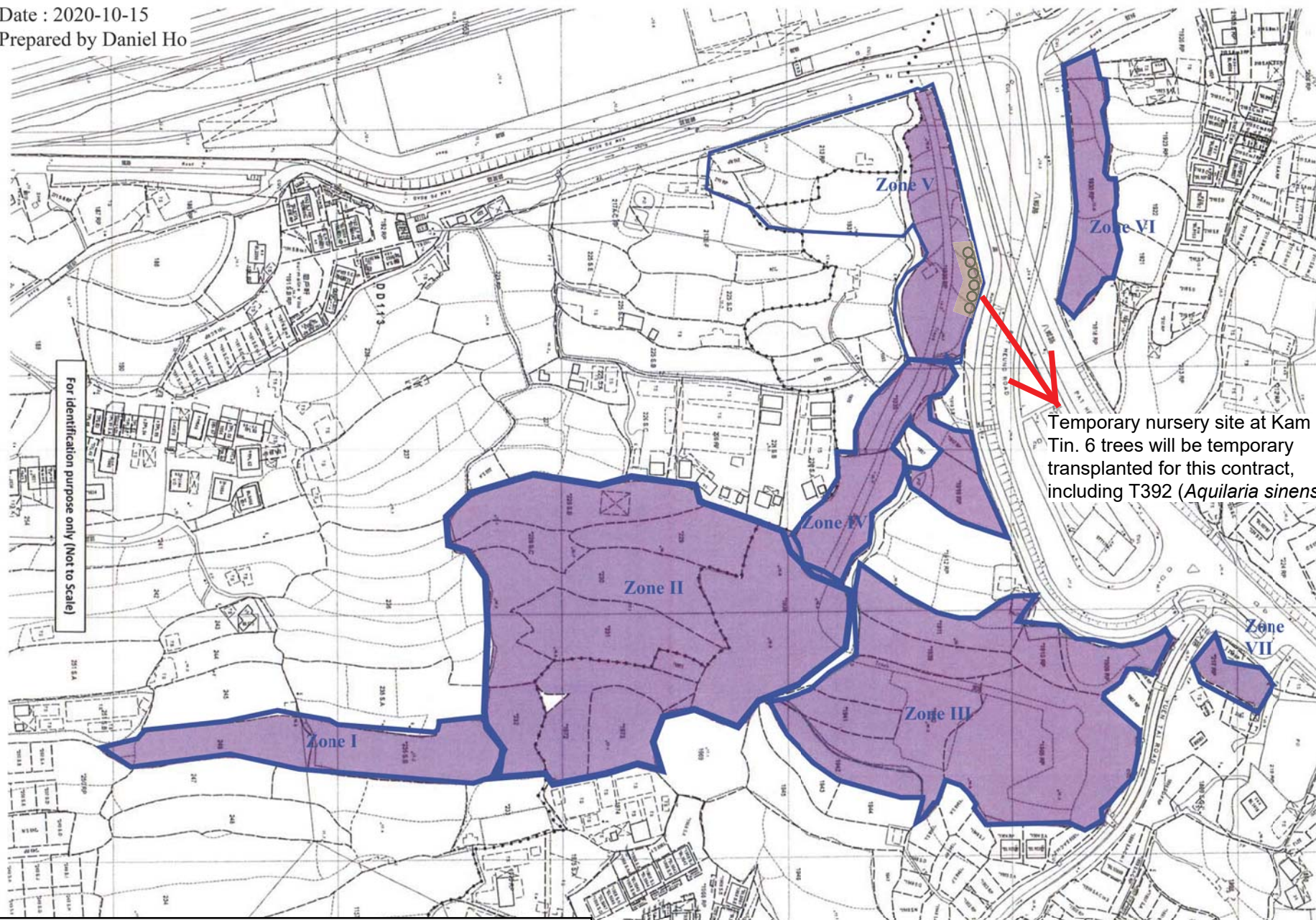


Figure 6.2 - Location Plan for Temporary Holding Nursery

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

Drawing Title : Location Plan for 6 nos. Trees on Kam Tin Nursery



Toyo Greenland Co., Ltd.

Check : Ho Tat Pui, Daniel

Ref: C3109/22/TGD0164

Scale : N.T.S.

Date : 10 January 2022

Rev.

00