

North East New Territories (NENT) Landfill Extension

Monthly Environmental
Monitoring and Audit Report
(No. 30) – May 2025

2025-06-13

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Ref: P521530-0000-REP-NN-0108

By Email

13 June 2025

Meinhardt Infrastructure & Environment Ltd.
10/F Genesis
33-35 Wong Chuk Hand Road
Hong Kong

Attn: Ms. Claudine Lee,

Dear Claudine,

Re: Contract No. EP/SP/77/15
Northeast New Territories Landfill Extension
Submission of Monthly Environmental Monitoring and Audit Report (No.30) – May 2025
R1

In accordance with the requirement specified in Condition 3.3 of Environmental Permit No. EP-292/2007 and Further Environmental Permit No. FEP-02/292/2007, we are pleased to submit the certified "Monthly Environmental Monitoring and Audit Report (No.30) – May 2025 R1" dated 13 June 2025 for your verification.

Should you require any further information or clarification, please do not hesitate to contact the undersigned or our Mr. Keith Chau on 3664 6788.

Yours faithfully,
For and on behalf of
Aurecon Hong Kong Limited

A handwritten signature in blue ink, appearing to read "Fredrick Leong".

Fredrick Leong
Environmental Team Leader

Encl.

1. Monthly Environmental Monitoring and Audit Report (No.30) – May 2025 R1

cc.

1. Veolia (Contractor) – Mr. Matt Choy (By email: matt.choy@veolia.com)

Our Ref.: CL/91823/2608-VES
Date: 13 June 2025

By Email

Veolia Hong Kong Holding Limited
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Attn.: Mr. Colin Mitchell

**Meinhardt Infrastructure and
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Dear Sir

Re: Contract No. EP/SP/77/15
North-East New Territories Landfill Extension (NENTX)
Monthly Environmental Monitoring and Audit Report (No.30) –
May 2025

I refer to Condition 3.3 under Environmental Permit No. EP-292/2007 and Further Environmental Permit No. FEP-02/292/2007, regarding the submission of a monthly Environmental Monitoring and Audit report. I hereby verify the captioned "Monthly Environmental Monitoring and Audit Report (No.30) – May 2025" dated 13 June 2025.

Should you have any queries, please do not hesitate to contact the undersigned at 2859 5409.

Yours faithfully
MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD



Claudine Lee
Independent Environmental Checker

Document Control Record

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Title	Associate Director, Environmental	Title	Environmental Team Leader

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Executive Summary

- ES1. Aurecon Hong Kong Limited (Aurecon) was appointed to undertake the role of Environmental Team (ET) and carry out Environmental Monitoring and Audit for the North East New Territories (NENT) Landfill Extension.
- ES2. The construction phase and EM&A programme of the Project commenced on 1 December 2022.
- ES3. This 30th Monthly EM&A Report presents the EM&A works conducted from 1 to 31 May 2025 in accordance with the Updated EM&A Manual.

Summary of Construction Works undertaken during Report Period

- ES4. The major construction works undertaken during the reporting period include:

ES Table1 Major Construction Works undertaken during the Reporting Period

-	Material loading and unloading, backfilling of material and site traffic at Portion A, SBA to alternative disposal ground
-	Construction of site buildings at Portion D
-	Site clearance at Portion A, B2/E1, E3-1 & E4
-	Installation of permanent fencing at Portion A, B1 & E4
-	Site formation at Portion A, B2/E1, E3-1 & E4
-	Tree felling at whole site
-	Shotcreting (Permanent and Temporary) at whole site
-	Soil nail installation at Portion A, B2/E1 & E4
-	Installation of minipile at Portion A
-	Construction of RE wall at Portion E3-1

Environmental Monitoring and Audit Progress

- ES5. A summary of the monitoring activities in this reporting period is listed below:

ES Table2 Summary of the Monitoring Activities during the Reporting Period

Items	Times	Date
- Air Quality Monitoring during normal weekdays at each monitoring station	6 times	3, 8, 13, 19, 24 & 30 May 2025
- Construction Noise Monitoring during normal weekdays at each monitoring station	4 times	8, 13, 19 & 30 May 2025
- Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	13 May 2025
- Landfill Gas Monitoring during normal weekdays for Construction Works	24 times	2 to 3, 6 to 10, 12 to 17, 19 to 24 & 26 to 30 May 2025
- Joint Environmental Site Inspection	4 times	6, 12, 19 & 26 May 2025

Environmental Exceedance

Air Quality, Noise, Surface Water Quality Monitoring & Landfill Gas Monitoring

ES6. No exceedance of the Action and Limit Levels were recorded at designated monitoring stations during the reporting period.

Environmental Non-Conformance/Summons and Prosecution

ES7. No non-compliance event and summons/prosecutions were recorded during the reporting period.

Environmental Complaint

ES8. No environmental complaint was recorded during the reporting period.

Reporting Change

ES9. There was no reporting change in the reporting period.

Future Key Issues

ES10. Works to be undertaken in the next month include:

ES Table3 Major Construction Works undertaken during the Next Reporting Period

-	Material loading and unloading, backfilling of material and site traffic at Portion A, SBA to alternative disposal ground
-	Construction of site buildings at Portion D
-	Site clearance at Portion A, B2/E1, E3-1 & E4
-	Installation of permanent fencing at Portion A, B1 & E4
-	Site formation at Portion A, B2/E1, E3-1 & E4
-	Tree felling at whole site
-	Shotcreting (Permanent and Temporary) at whole site
-	Soil nail installation at Portion A, B2/E1 & E4
-	Installation of minipile at Portion A
-	Construction of RE wall at Portion E3-1

ES11. Potential environmental impacts arising from the above construction activities are mainly associated with air quality, construction noise, water quality, waste management, landfill gas monitoring, landscape and visual, cultural heritage and ecology.

1 Introduction

1.1 Background

- 1.1.1 The North East New Territories Landfill Extension (the NENTX Project) is located adjacent to the existing North East New Territories (NENT) Landfill at Ta Kwu Ling. The extension site is located in a valley covering mainly the existing NENT Landfill Stockpile and Borrow Area that was formed to the east of the existing landfill as part of the original site development of the landfill, and layout plan shown in **Figure 1**.
- 1.1.2 The NENTX is a designated project. The Environmental Impact Assessment (EIA) Report (AEIAR-111/2007) and an Environmental Monitoring and Audit Manual were approved on 20 September 2007. The project is governed by an Environmental Permit (EP) (EP-292/2007) which was granted on 26 November 2007. A further of EP (FEP) was applied and the FEP (FEP-01/292/2007) was subsequently granted on 28 April 2022. Another further of EP (FEP-02/292/2007) was subsequently granted on 23 August 2023. The Updated EM&A Manual was approved by Director of Environmental Protection (DEP) on 4 January 2024.
- 1.1.3 In accordance with the requirements specified in Section 2.7 to 2.11 and Section 12.3 of the Updated EM&A Manual and Condition 3.3 of EP and FEP, Monthly EM&A report should be submitted to DEP, within 2 weeks after the end of the reporting month. The submissions shall be certified by the Environmental Team (ET) Leader and verified by the Independent Environmental Checker (IEC).
- 1.1.4 The construction phase and EM&A programme of the Project commenced on 1 December 2022.

1.2 Nature, Scale and Scope of the captioned Designated Project

- 1.2.1 The Nature, Scale and Scope of the captioned Designated Project is presented in **Table 1-1**.

Table 1-1 Nature, Scale and Scope of the captioned Designated Project

Item(s)	Content
Nature of Designated Project	Construction and operation of a landfill for waste as defined in the "Waste Disposal Ordinance" (Cap. 354)
Scale and Scope of Designated Project	The Project mainly consists of the followings: - Construction and operation of a landfill extension of about 70 hectares with a target void space of at least 19 million cubic metres on the eastern side of the existing NENT Landfill, including the followings: - i. Site formation and preparation; ii. Installation of liner system; iii. Installation of leachate collection, treatment and disposal facilities; iv. Installation of gas collection, utilization and management facilities; v. Utilities provisions and drainage diversion; vi. Landfilling operation; vii. Restoration and aftercare in subsequent stages; and viii. Measures to mitigate environmental impacts as well as environmental monitoring and auditing to be implemented.

1.3 Purpose of this Report

- 1.3.1 This is the 30th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 01 to 31 May 2025.

1.4 Structure of the Report

- 1.4.1 The structure of the report is as follows:

Section 1 – Introduction

- details the background, purpose and structure of the report.

Section 2 – Project Information

- summarises background and scope of the Project, site description, project organization and contact details, construction programme, the construction works undertaken and the status of Environmental Permit(s)/License(s) during the reporting period.

Section 3 – Air Quality Monitoring

- Construction Dust

Section 4 – Noise Monitoring

Section 5 – Water Quality Monitoring

- Groundwater Monitoring
- Surface Water Monitoring

Section 6 – Waste Management

Section 7 – Landfill Gas Monitoring

Section 8 – Landscape and Visual

Section 9 – Cultural Heritage

Section 10 – Ecological Monitoring

Section 11 – Site Inspection and Audit

Section 12 – Environmental Non-Conformance

Section 13 – Implementation Status on Environmental Mitigation Measures

Section 14 – Future Key Issues

Section 15 – Conclusion

2 Project Information

2.1 Construction Activities

- 2.1.1 Construction programme and a summary of the major construction activities undertaken in this reporting period is shown in **Appendix A**. The major construction works undertaken during the reporting period is presented in **Table 2-1**.

Table 2-1 Major Construction Works undertaken during the Reporting Period

-	Material loading and unloading, backfilling of material and site traffic at Portion A, SBA to alternative disposal ground
-	Construction of site buildings at Portion D
-	Site clearance at Portion A, B2/E1, E3-1 & E4
-	Installation of permanent fencing at Portion A, B1 & E4
-	Site formation at Portion A, B2/E1, E3-1 & E4
-	Tree felling at whole site
-	Shotcreting (Permanent and Temporary) at whole site
-	Soil nail installation at Portion A, B2/E1 & E4
-	Installation of minipile at Portion A
-	Construction of RE wall at Portion E3-1

2.2 Project Organization & Management Structure

- 2.2.1 The Project Organization Chart & Management Structure are shown in **Appendix B**. The key personnel contact information is summarized in **Table 2-2**.

Table 2-2 Contact Information of Key Personnel

Party	Name	Contact Number
Contractor (Veolia Hong Kong Holding Ltd.)	Mr. Matt Choy	2902 5296
Independent Environmental Checker (IEC) (Meinhardt Infrastructure and Environment Ltd.)	Ms. Claudine Lee	2859 5409
Environmental Team Leader (ETL) (Aurecon Hong Kong Limited)	Mr. Fredrick Leong	3664 6888

2.3 Status of Submission required under the EP & FEP during reporting period

- 2.3.1 The status of statutory environmental compliance with the EP & FEP conditions under the EIAO, submission status under the EP & FEP during reporting period are presented in **Table 2-3**. The detail status of statutory environmental compliance with the EP & FEP conditions under the EIAO, submission status under the EP & FEP for NENTX project are shown in **Appendix C**.

Table 2-3 Status of Submissions required under the EP & FEP during Reporting Period

EP Condition	FEP Condition	Submission / Measures	Status
2.3	2.1	Management Organization of Main Construction Companies	Submitted
2.4	2.2	Setting up of Community Liaison Group (CLG)	Community Liaison Group was set up.
2.5	2.3	Submission of EM&A Manual	Submitted
2.6	2.4	Submission of Preservation of Cultural Landscape Features	Submitted
2.7	2.5	Submission of Vegetation Survey (Transplantation Proposal)	Submitted
2.8	2.6	Submission of Translocation Proposal	Submitted
2.9	2.7	Submission of Transplantation Report and Post-Transplantation Monitoring	Submitted
2.10	2.8	Submission of Translocation Report and Post-Translocation Monitoring	Submitted
2.11	2.9	Submission of Detailed Landfill Gas Hazard Assessment Report	Submitted
2.12	2.10	Submission of Waste Management Plan	Submitted
3.2	3.2	Submission of Baseline Monitoring Report	Submitted
3.3	3.3	Submission of Monthly EM&A Report	Submitted

2.4 Status of Environmental Approval Document

- 2.4.1 A summary of the relevant valid permits, licences, and/or notifications on environmental protection for this Project since the granting of the EP & FEP is presented in **Table 2-4**.

Table 2-4 Summary of the Relevant Valid Permits, Licences, and/or Notifications on Environmental Protection

Permit / Licenses / Notification	Reference	Expiry Date	Remark
Environmental Permit (EP)	EP-292/2007	Throughout the Contract	Permit granted on 26 November 2007
Further Environmental Permit (FEP)	FEP-01/292/2007	Throughout the Contract	Permit granted on 28 April 2022
	FEP-02/292/2007	Throughout the Contract	Permit granted on 23 August 2023
Notification of Construction Works as required under Air Pollution Control (Construction Dust) Regulation	479809	Throughout the Construction Phase	Notified on 13 May 2022
Registration of Waste Producer under Waste Disposal Ordinance	7043692	Throughout the Contract	Registered on 13 April 2022
Construction Noise Permit	GW-RN0508-25	18 August 2025	Permit granted on 8 May 2025
Registration as Chemical Waste Producer	5213-642-P1034-18	Throughout the Contract	Registered on 11 July 2022
Effluent Discharge License under Water Pollution Control Ordinance	WT00042301-2022	31 October 2027	Permit granted on 18 October 2022 Variation of Licence (Permit granted on 7 February 2023)

2.5 Environmental Monitoring and Audit Progress

2.5.1 A summary of the monitoring activities in this reporting period is presented in **Table 2-5**.

Table 2-5 Summary of the Monitoring Activities in this Reporting Period

Items	Times	Date
- Air Quality Monitoring during normal weekdays at each monitoring station	6 times	3, 8, 13, 19, 24 & 30 May 2025
- Construction Noise Monitoring during normal weekdays at each monitoring station	4 times	8, 13, 19 & 30 May 2025
- Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	13 May 2025
- Landfill Gas Monitoring during normal weekdays for Construction Works	24 times	2 to 3, 6 to 10, 12 to 17, 19 to 24 & 26 to 30 May 2025
- Joint Environmental Site Inspection	4 times	6, 12, 19 & 26 May 2025
- EPD General Site Inspection	1 time	13 May 2025

Air Quality

2.5.2 6 sets of 1-hr & 24-hr TSP construction dust measurement were carried out at each monitoring stations during normal weekdays of the reporting period. No Action / Limit Level exceedance for 1-hr & 24-hr TSP impact monitoring was recorded during the period.

Noise

2.5.3 4 sets of 30-minute construction noise measurement were carried out at each monitoring stations during normal weekdays of the reporting period. No exceedance of Action and Limit Levels of construction noise was recorded during the reporting period.

Groundwater

2.5.4 The baseline groundwater monitoring was commenced on 28 March 2025. The details of baseline groundwater monitoring will be presented in the Baseline Monitoring Report.

Surface Water Quality

2.5.5 1 set of surface water quality measurement were carried out at each monitoring stations during normal weekdays of the reporting period. No exceedance of Action and Limit Levels of surface water quality at each monitoring stations was recorded during the reporting period.

Landfill Gas

2.5.6 24 sets of landfill gas measurement were carried out at the designated monitoring locations during normal weekdays of the reporting period. No exceedance of Action and Limit Levels of landfill gas was recorded during the reporting period.

Landscape and Visual

- 2.5.7 All the specified and affected LCAs, LRAs and VSRs have been monitored during the reporting period. No exceedance of Action and Limit Levels of landscape and visual was recorded during the reporting period.

Cultural Heritage

- 2.5.8 Implementation of the mitigation measures during construction phase of the Project has been monitored through the regular site inspection/audit.

Ecology

- 2.5.9 Implementation of the mitigation measures during construction phase of the Project has been monitored through the regular site inspection/audit.

Environmental Site Inspection

- 2.5.10 4 weekly environmental site inspections were carried out during the reporting period. A joint environmental site inspection was carried out by the representatives of the Employer's Representative (ER), the Contractor, IEC and the ET on 19 May 2025. The Contractor has generally implemented part of the mitigation measures as recommended. One (1) general site inspection was conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG) during the reporting period.

3 Air Quality Monitoring

3.1 Construction Dust

3.1.1 Monitoring Requirement

- 3.1.1.1 In accordance with the Updated EM&A Manual, 1-hr & 24-hr Total Suspended Particulates (TSP) levels should be measured at the designated air quality monitoring stations in every 6 days to ensure that any deteriorating air quality could be readily detected, and timely action shall be undertaken to rectify such situation. For 1-hr TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs. The specific time to start and stop the 24- hr TSP monitoring shall be clearly defined for each location.

3.1.2 Monitoring Parameters, Frequency and Location

- 3.1.2.1 According to the Updated EM&A Manual, three monitoring stations namely AM(D)1, AM(D)2 and AM(D)3 are selected for the impact monitoring.
- 3.1.2.2 A baseline monitoring plan has been submitted to IEC and EPD on 31 May 2022 including the proposal with justification of change of monitoring locations. Due to limited access to the original monitoring locations at AM(D)1, AM(D)2 and AM(D)3, the adjusted stations at AM1, AM2 and AM3 were agreed with IEC prior to the baseline and impact monitoring. The locations of adjusted dust monitoring locations are shown in **Figure 2**.
- 3.1.2.3 The detailed monitoring schedule is shown in **Appendix D**. The locations of dust monitoring stations are shown in **Table 3-1**. The monitoring parameters, frequency and duration are shown in **Table 3-2**.

Table 3-1 Locations of Dust Monitoring Stations

Monitoring Station	Representative For	Monitoring Parameters
AM1	Tung Lo Hang	1-hr and 24-hr TSP
AM2	Heung Yuen Wai	1-hr and 24-hr TSP
AM3	Wo Keng Shan Tsuen	1-hr and 24-hr TSP

Remarks:

The contractor passed correspondence including original monitoring locations specified on the Approved EM&A Manual to the village representatives on 26 April 2022. After a meeting with Ta Kwu Ling District Rural Committee (RC) Chairman, representative from the RC and a few villagers on 1 May 2022, all the Village Heads of Wo Keng Shan Tsuen, Heung Yuen Wai and Lin Ma Hang verbally refused to accept our proposal for installation of dust and / or noise monitoring equipment within or next to their villages, for the baseline & impact monitoring.

AM(D)1 Tung Lo Hang, AM(D)2 Heung Yuen Wai, AM(D)3 Wo Keng Shan Tsuen are the air monitoring stations for the construction phase EM&A programme as identified in the approved EM&A Manual for the Project. The access to Tung Lo Hang, Heung Yuen Wai and Wo Keng Shan Tsuen were denied. A search for alternative air monitoring locations (AM1, AM2 & AM3) was carried out during the site visit.

The Baseline Monitoring Plan has been submitted to IEC and EPD including the proposal of change of monitoring locations on 31 May 2022. This arrangement was conducted between baseline and impact monitoring and has been agreed by the Independent Environmental Checker (IEC) and no comment received from EPD.

Due to the adjustment of the location of AM(D)1, AM(D)2 & AM(D)3 to AM1, AM2 & AM3, the measured air quality levels at AM1, AM2 & AM3 would represent the air quality levels at AM(D)1, AM(D)2 & AM(D)3.

Table 3-2 Dust Impact Monitoring Parameters, Frequency and Duration

Monitoring Station	Parameter	Frequency and Duration
AM1, AM2, AM3	1-hr TSP	At least 3 times per 6 days
	24-hr TSP	1 time per 6 days

3.1.3 Monitoring Equipment

3.1.3.1 High volume samplers (HVSs) were used for carrying out 24-hr TSP monitoring. For 1-hr TSP monitoring, direct reading dust meters were used to measure 1-hr TSP levels.

3.1.3.2 **Table 3-3** summarises the equipment that were used in the dust monitoring programme. The calibration certificates are shown in **Appendix E**.

Table 3-3 Dust Monitoring Equipment

Equipment	Model	Expiry Date	Monitoring Station
High Volume Sampler (HVS)	TE-5170X (S/N: 1105)	6 Jun 2025	AM1
	TE-5170X (S/N: 1106)		AM2
	TE-5170X (S/N: 1856)		AM3
Direct Reading Dust Meter	Sibata LD-5R (S/N: 0Z4545)	12 Sep 2025	AM1 to AM3
	Sibata LD-5R (S/N: 882106)		
	Sibata LD-5R (S/N: 942532)		
Calibration Kit (for HVS)	TE-5025A (S/N: 3465)	2 Dec 2025	AM1 to AM3

Remarks:

The Expiry Date of Calibration Kit (for HVS) reflected that the calibration certificate fulfils the bi-monthly calibration interval requirement for the HVS.

3.1.4 Monitoring Methodology

1-hr TSP Monitoring

- 3.1.4.1 The 1-hr TSP impact monitoring was conducted using a portable direct reading dust meter.

Measuring Procedures

- 3.1.4.2 The measuring procedures of the 1-hr dust meter has been undertaken in accordance with the Manufacturer's Instruction Manual as follows:

Procedure of starting monitoring

- Place the 1-hr dust meter at least 1.3m above ground;
- Turn on the "On/Off" button at the side of instrument. Program will be changed to "BG" mode and leave it for 1 minute.
- Pull out the Suction adaptor and turn the button at the side. Cover with hand at the suction adaptor measure the background for 10 seconds.
- Press "UP" and "DOWN" for choosing "SPAM Mode" for SPAM Measurement.
- Press "Up" and "Down" to select "Measurement Mode" with 60 minutes interval and unit in ug/m3.
- Press "Start/Stop" to start monitoring.

Procedure of setting measurement timer

- Press "Up" or "Down" to find "Setting LOG".
- Select "Record Cycle" and change the record time subject to different project requirement. For example, setting the record cycle as 60 minutes for normal operation.
- Press "ESCAPE" back to the main page.
- Press "Up" or "Down" to access "Measurement Timer" and select "Measurement time" to change the time to 3 hours.
- Information such as sampling date, time, count value and site condition will be recorded during the monitoring period.

Calibration & Maintenance

- 3.1.4.3 The direct reading dust meters will be verified against calibrated high volume samples (HVSs) annually. A 2-day, three 3-hour measurement results per day from direct reading dust meter will be taken to compare with the sampling results from the HVS. The correlation between the direct reading dust meter and the HVS will then be concluded. By accounting for the correlation factor, the direct reading dust meter will be considered to achieve comparable results as that of the HVS.
- 3.1.4.4 All digital dust indicator will be calibrated with on-site HVS annually. Calibration certificate will be provided after calibration. The Calibration process shall eyewitness with the representative of ET & IEC.

Quality Audit

- 3.1.4.5 Checklist of regular checking for digital dust meter will be conducted bi-weekly by environmental technician to ensure the all-digital dust meter are in good condition and submitted to supervisors. All checklists will be kept by supervisors.
- 3.1.4.6 Logbook is provided to environmental technician record the transferal of equipment to other colleagues, reporting to supervisors is required.

24-hr TSP Monitoring

- 3.1.4.7 The 24-hr TSP monitoring has been conducted using a High-Volume Sampler (HVS).

Measuring Procedures

- 3.1.4.8 The HVS has been set-up at the monitoring location with a fixed power supply for operation. The measuring procedures of the 24-hr TSP measurements has been undertaken in accordance with the specifications listed in the EM&A Manual. Each HVS includes a motor, a filter holder, a flow controller and a sampling inlet in accordance with the performance specification of the USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50), Appendix B. The measuring procedures of the 24-hr dust meter was undertaken in accordance with the Manufacturer's Instruction Manual as follows:
- The power supply will be checked to ensure the HVS works properly;
 - The filter holder and the area surrounding the filter will be cleaned;
 - The filter holder will be removed by loosening the four bolts and a new filter on a supporting screen will be aligned carefully;
 - The filter will be properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;
 - The swing bolts will be fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
 - The shelter lid will be closed and secured with the aluminium strip;
 - The HVS will be warmed-up to establish run-temperature conditions;
 - A new flowrate record sheet will be set into the flow recorder;
 - The programmable timer will be set for a sampling period of 24 hour, and the starting time, weather condition and the filter number will be recorded;
 - The initial elapsed time will be recorded;
 - At the end of sampling, the sampled filter will be removed carefully and folded in half-length so that only surfaces with collected particulate matter will be in contact;
 - The sample will be placed in a clean plastic envelope and sealed;
 - All monitoring information will be recorded on a standard data sheet; and
 - The filters will be taken back to HOKLAS accredited laboratory for analysis.
- 3.1.4.9 In addition, site conditions and dust sources were recorded in a standard form for direct input into a database.

Calibration & Maintenance

- 3.1.4.10 The high volume motors and their accessories should be properly maintained, including routine motor brushes replacement and electrical wiring checking, to ensure that the equipment and a continuous power supply were in good working condition.
- 3.1.4.11 Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually.

The detail procedure of calibration of HVS is listed below:

1. Make sure the electrical circuit is connected properly. The motor should be directly connected to the power source.
 2. Open the top cover and unlock the screws at the four corners.
 3. Install the orifice and adapter plate to high volume air sample. Tighten the nut securely. Turn the knob of orifice clock-wise to close the four holes on the bottom open.
 4. Hold the water manometer on the cover of mass flow controller vertically. Connect one side of a water manometer to the pressure tap on the side of the orifice with a rubber vacuum tube. Leave opposite side of the manometer open to the atmosphere.
 5. Turn on the sampler
 6. Five flow rates are achieved by changing the different plates to change the resistance. Record the manometer reading and the reading from continuous flow recorder. At least 5 sets of data should be recorded.
- 3.1.4.12 The Calibration process shall eyewitness with the representative of ET & IEC.

3.1.5 Monitoring Results

- 3.1.5.1 The impact dust monitoring results are summarized in **Table 3-4** and **Table 3-5**. The monitoring data together with graphical presentations are presented in **Appendix F** and **Appendix G**.

Table 3-4 Summary of Impact 1-hr TSP Monitoring Results

Month	Average 1-hr TSP Concentration, $\mu\text{g}/\text{m}^3$ (Range)		
	Dust Monitoring Station		
	AM1	AM2	AM3
May 2025	26 (20 – 34)	39 (33 – 50)	50 (41 – 56)
Action Level	>285	>279	>285
Limit Level	>500		

Table 3-5 Summary of Impact 24-hr TSP Monitoring Results

Month	Average 24-hr TSP Concentration, $\mu\text{g}/\text{m}^3$ (Range)		
	Dust Monitoring Station		
	AM1	AM2	AM3
May 2025	80 (76 – 84)	88 (80 – 96)	95 (88 – 102)
Action Level	>164	>152	>163
Limit Level	>260		

3.1.5.2 The Summary of Impact 1-hr & 24-hr TSP Exceedance during the reporting period are shown in **Table 3-6**. The Notification of Environmental Quality Limits Exceedances are presented in **Appendix H**.

Table 3-6 Summary of Impact 1-hr & 24-hr TSP Exceedance during the Reporting Period

Dust Monitoring Station		AM1		AM2		AM3	
Parameters	Level Exceedance	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
1-hr TSP	Exceedance Date	-	-	-	-	-	-
	Exceedance Count	0	0	0	0	0	0
24-hr TSP	Exceedance Date	-	-	-	-	-	-
	Exceedance Count	0	0	0	0	0	0

Remarks: * equal to non-project related

3.1.5.3 No Action / Limit Level exceedance for 1-hr & 24-hr TSP impact monitoring at AM1, AM2 & AM3 was recorded during the period.

3.1.6 Wind Data Monitoring

3.1.6.1 During the monitoring period, wind data from existing weather station in the vicinity of the designated monitoring location, i.e Ta Kwu Ling station operated by Hong Kong Observatory was adopted. It is considered that the wind data obtained from Ta Kwu Ling station are representative of the Project area and could be used for the construction dust monitoring programme for the Project. The results for wind data monitoring are presented in **Appendix I**.

3.1.7 Recommended Mitigation Measures

3.1.7.1 The recommended dust mitigation measures from EIA report are listed as followed:

- The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.
- Dust emission from construction vehicle movement is confined within the worksites area.
- Watering facilities will be provided at every designated vehicular exit point.
- Good site practice is recommended during construction phase.

3.1.8 Event and Action Plan

3.1.7.2 Should non-compliance of the criteria occur, action in accordance with the action plan in **Table 3-7** shall be carried out.

Table 3-7 Event and Action Plan for Dust Impact

Event	ET	IEC	Contractor
Exceedance of Action Level			
Exceedance for one sample	- Identify source - Prepare Notification of Exceedance - Inform IEC and Contractor - Repeat measurement to confirm findings - Increase monitoring frequency to daily if exceedance is due to the Project and continue until the monitoring results reduce to below action level	- Verify the Notification of Exceedance - Check monitoring data submitted by ET and Contractor's working methods - Discuss with ET and Contractor on proposed remedial measures	- Rectify any unacceptable practice - Amend working methods if appropriate
Exceedance for two or more consecutive samples	- Identify source - Prepare Notification of Exceedance - Inform Contractor and IEC - Repeat measurements to confirm findings - Increase monitoring frequency to daily if exceedance is due to the Project and continue until the monitoring results reduce to below action level - Discuss with IEC for remedial action required - Ensure remedial measures are properly implemented - Continue monitoring at daily intervals if exceedance is due to the Project - If no exceedance for 3 consecutive days, cease additional monitoring	- Verify the Notification of Exceedance - Check monitoring data submitted by ET and Contractor's working methods - Discuss with ET and Contractor on proposed remedial measures - Review with analysed results submitted by ET - Review the proposed remedial measures by Contractor - Supervise the implementation of remedial measures	- Submit proposals for remedial actions to IEC within 3 working days of notification - Implement the agreed proposals - Amend proposal if appropriate

Event	ET	IEC	Contractor
Exceedance of Limit Level			
Exceedance for one sample	- Identify source - Prepare Notification of Exceedance - Inform IEC and Contractor - Repeat measurement to confirm findings - Increase monitoring frequency to daily if exceedance is due to the Project and continue until the monitoring results reduce to below limit level - Assess effectiveness of Contractor's remedial actions and keep EPD and IEC informed of the results	- Verify the Notification of Exceedance - Check monitoring data submitted by ET and Contractor's working methods - Discuss with ET and Contractor potential remedial actions - Supervise the implementation of remedial measures	- Take immediate action to avoid further exceedance - Submit proposals for remedial actions to IEC within 3 working days of notification - Implement the agreed proposals - Amend proposal if appropriate
Exceedance for two or more consecutive samples	- Identify source - Prepare Notification of Exceedance - Inform IEC and EPD the causes and actions taken for the exceedances - Discuss with IEC for remedial action required - Ensure remedial measures are properly implemented - Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and informed of the results - Increase monitoring frequency to confirm findings - If exceedance stops, cease additional monitoring	- Verify the Notification of Exceedance - Check monitoring data submitted by ET and Contractor's working methods - Discuss amongst ET and Contractor on the potential remedial actions. - Review Contractor's remedial actions whenever necessary to assure their effectiveness - Supervise the implementation of remedial measures	- Take immediate action to avoid further exceedance - Submit proposals for remedial actions to IEC of notification - Implement the agreed proposals - Resubmit proposals if problem still not under control - Stop the relevant activity of works until the exceedance is abated

4 Noise Monitoring

4.1 Monitoring Requirement

- 4.1.1 In accordance with the Updated EM&A manual, noise impact monitoring shall be carried out at 2 monitoring stations NM1a and NM2a once a week during normal construction working hour (0700-1900 Monday to Saturday). The minimum logging interval shall be 30 minutes with average of 6 consecutive L_{eq} (5 mins), L_{10} and L_{90} shall also be measured at 5 mins intervals.

4.2 Monitoring Locations, Parameters and Frequency

- 4.2.1 According to the Updated EM&A Manual, two monitoring stations namely NM1 and NM2 are selected for the impact monitoring.
- 4.2.2 A baseline monitoring plan has been submitted to IEC and EPD on 31 May 2022 including the proposal with justification of change of monitoring locations. Due to limited access to the original monitoring locations at NM1 and NM2, the adjusted stations at NM1a and NM2a were agreed with IEC prior to the baseline and impact monitoring. The noise monitoring locations are summarized in **Table 4-1** and shown in **Figure 2**.
- 4.2.3 The detailed monitoring schedule is shown in **Appendix D**. The frequency and duration are shown in **Table 4-2**.

Table 4-1 Noise Monitoring Locations

Monitoring Station	Representative for	Type of Measurement
NM1a	Wo Keng Shan Tsuen	Free field
NM2a	Lin Ma Hang	Free field

Remarks:

The contractor passed correspondence including original monitoring locations specified on the Approved EM&A Manual to the village representatives on 26 April 2022. After a meeting with Ta Kwu Ling District Rural Committee (RC) Chairman, representative from the RC and a few villagers on 1 May 2022, all the Village Heads of Wo Keng Shan Tsuen, Heung Yuen Wai and Lin Ma Hang verbally refused to accept our proposal for installation of dust and / or noise monitoring equipment within or next to their villages, for the baseline & impact monitoring.

NM1 Wo Keng Shan Tsuen & NM2 Lin Ma Hang are the noise monitoring stations for the construction phase EM&A programme as identified in the approved EM&A Manual for the Project. The access to Tung Lo Hang, Heung Yuen Wai and Wo Keng Shan Tsuen were denied. A search for alternative noise monitoring locations (NM1a & NM2a) was carried out during the site visit.

The Baseline Monitoring Plan has been submitted to IEC and EPD including the proposal of change of monitoring locations on 31 May 2022. This arrangement was conducted between baseline and impact monitoring and has been agreed by the Independent Environmental Checker (IEC) and no comments received from EPD. Noise measurement at NM1a & NM2a will be considered as free-field and a correction of +3dB(A) would be made to the noise monitoring results.

Due to the adjustment of the location of NM1 & NM2 to NM1a & NM2a, the measured noise levels at NM1 & NM2 would represent the noise levels at NM1 & NM2.

Table 4-2 Noise Monitoring Parameters, Frequency and Duration

Monitoring Station	Parameter	Frequency and Duration
NM1a and NM2a	L_{Aeq} (30mins) average of 6 consecutive L_{Aeq} (5min); $L_{A10}(5min)$ & $L_{A90}(5min)$	Once a week during normal construction working hour (0700-1900 Monday to Saturday)

4.3 Monitoring Equipment

- 4.3.1 Integrating Sound Level Meter (SLM) was used for noise impact monitoring. The SLM complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications shall be used for carrying out noise monitoring. The accuracy of the SLM was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements shall be accepted as valid only if the calibration level from prior to and after the noise measurement agrees to within 1.0dB.
- 4.3.2 A portable wind speed meter was used for measuring wind speeds in m/s.
- 4.3.3 **Table 4-3** summarises the equipment that have been used in the impact noise monitoring programme. The calibration certificates are shown in **Appendix E**.

Table 4-3 Noise Monitoring Equipment

Equipment	Model	Expiry Date
Sound Level Meter	NTi XL2 (S/N: A2A-13661-E0)	12 Aug 2025
Acoustic Calibrator	Rion NC-75 (S/N: 34724245)	23 Jul 2025
Anemometer	UNI-T UT363 (S/N: C222415356)	17 Feb 2027

4.4 Monitoring Methodology

- 4.4.1 The details of noise measurement procedures are described as follows:
- Free-field measurements were made at the monitoring locations.
 - For free field, the Sound Level Meter was set at a height of 1.2 m above the ground. The battery condition was checked to ensure the proper 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
 - Measurement time: 5 minutes (Leq (30-min) would be determined for daytime noise by calculating the logarithmic average of six Leq (5min) data.)
 - Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after recalibration or repair of the equipment.
 - Noise measurement should be paused during periods of high intrusive noise if possible and observation shall be recorded when intrusive noise is not avoided.
 - At the end of the monitoring period, the Leq, L10 and L90 shall be recorded. In addition, site conditions and noise sources should be recorded on a standard record sheet.
 - All noise monitoring will be conducted with the wind speed not exceeding 5m/s and no gusts exceeding 10m/s.

Calibration & Maintenance

- 4.4.2 The sound level meter, sound calibrator, and anemometer should be properly maintained to ensure that the equipment and a continuous power supply were in good working condition. The sound level meter and sound calibrator will be calibrated annually. The anemometer will be calibrated two years interval in accordance with the HOKLAS Supplementary Criteria No.2. Calibration certificate will be provided after calibration.
- 4.4.3 The microphone head of the sound level meter and calibrator should be cleaned with a soft cloth at quarterly intervals.

4.5 Monitoring Results

- 4.5.1 The impact noise monitoring results are summarized in **Table 4-4**. The monitoring data together with graphical presentations are presented in **Appendix F** and **Appendix G**.

Table 4-4 Summary of Noise Monitoring Results during Normal Working Hours (07:00-19:00, Monday to Saturday)

Month	Average Leq, 30min, dB(A) (Range)	
	Noise Monitoring Station	
	NM1a	NM2a
May 2025	57.3 (55.3 – 59.1)	48.6 (45.6 – 49.8)
Action Level	When one documented complaint is received	
Limit Level	>75dB(A)	

Remark:

- (1) * A correction of +3 dB(A) was made to the free field measurements
- (2) If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

- 4.5.2 No exceedance of Action and Limit Levels of construction noise was recorded during the reporting period. Therefore, there was no record of Notification of Environmental Quality Limits Exceedance in the **Appendix H**.
- 4.5.3 No particular observations are identified near the monitoring stations during the monitoring period.
- 4.5.4 The Summary of Impact Noise Exceedance are shown in **Table 4-5**.

Table 4-5 Summary of Impact Noise Exceedance during the Reporting Period

Noise Monitoring Station		NM1(a)		NM2(a)	
Parameters	Level Exceedance	Action Level	Limit Level	Action Level	Limit Level
	Exceedance Date	-	-	-	-
LA _{eq} (30mins)	Exceedance Count	0	0	0	0

Remarks: * equal to non-project related

- 4.5.5 No exceedance of Action and Limit Levels of construction noise was recorded during the reporting period. Therefore, there was no record of Notification of Environmental Quality Limits Exceedance in the **Appendix H**.

4.6 Recommended Mitigation Measures

- 4.6.1 The recommended noise mitigation measures from EIA report are listed as followed:

1. Use of good site practices to limit noise emissions by considering the following:
 - Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;
 - Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;
 - Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;
 - Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;
 - Mobile plant should be sited as far away from NSRs as possible and practicable;
 - Material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.
2. Select “Quiet plants” which comply with the BS 5228 Part 1 or TM standards.

4.7 Event and Action Plan

- 4.7.1 Should non-compliance of the criteria occurs, action in accordance with the action plan in **Table 4-6** shall be carried out.

Table 4-6 Event and Action Plan for Construction Noise Monitoring

Event	ET	IEC	Contractor
Exceedance of Action Level	- Identify source, investigate the causes of exceedance - Prepare Notification of Exceedance - Inform IEC and Contractor - Report the results of investigation to IEC, and Contractor - Discuss with Contractor and IEC for formulate remedial measures - Ensure remedial measures are properly implemented - Have additional monitoring if exceedance is due to the Project. If exceedance stops, cease additional monitoring	- Verify the Notification of Exceedance - Review the analysed results submitted by ET - Discuss with ET, and Contractor on the potential remedial actions - Review the proposed remedial measures - Supervise the implementation of remedial measures	- Submit noise mitigation proposals to IEC - Implement the agreed noise mitigation proposals
Exceedance of Limit Level	- Identify source, investigate the causes of exceedance - Prepare Notification of Exceedance - Inform IEC and Contractor - Repeat measurements to confirm findings - Discuss with Contractor and IEC for remedial measures - Ensure remedial measures are properly implemented - Assess effectiveness of Contractor's remedial actions and keep IEC and EPD informed of the results - Have additional monitoring if exceedance is due to the Project. If exceedance stops, cease additional monitoring	- Verify the Notification of Exceedance - Review the analysed results submitted by ET - Discuss with ET, and Contractor on the potential remedial actions - Review the proposed remedial measures - Supervise the implementation of remedial measures	- Take immediate action to avoid further exceedance - Submit proposals for remedial actions to IEC of notification - Implement the agreed proposals - Resubmit proposals if problem still not under control - Stop the relevant portion of works as determined by project proponent until the exceedance is abated.

5 Water Quality Monitoring

5.1 Groundwater Monitoring

5.1.1 Monitoring Requirement

5.1.1.1 According to the Updated EM&A Manual, baseline water quality (groundwater) monitoring shall be carried out at the 35 monitoring locations (ED-1 to ED-35), which are subject to changes on the design and modification of the Project. Considering the requirements, objectives and feasibility of conducting the baseline water quality (groundwater) monitoring, a total of 35 monitoring locations (CW-1 to CW-35) are proposed along the waste boundary and access road of the project site. Due to the proposed monitoring locations CW-1 to CW-35 locates along the waste filling boundary of the project site, it can maintain to determine the natural seasonal variation in groundwater levels, effects of any ground water abstraction, identification of hydraulic gradients and variation caused by the construction, operation or aftercare of the project site by Section 5.4.1 of the Updated EM&A Manual. The proposed monitoring locations (CW-1 to CW-35) were approved by IEC on 16 January 2025.

5.1.1.2 The baseline groundwater monitoring was commenced on 28 March 2025. The details of baseline groundwater monitoring will be presented in the Baseline Monitoring Report.

5.2 Surface Water Monitoring

5.2.1 Monitoring Requirement

5.2.1.1 In accordance with the Updated EM&A manual, impact surface water quality monitoring was carried out at the two designated surface water discharge points (i.e. WM1 and WM2) for once per month from commencement of construction works of the Project.

5.2.2 Monitoring Locations, Parameters and Frequency

5.2.2.1 Impact surface water monitoring was carried out at WM1 and WM2 during the reporting period. The monitoring locations are indicated in **Table 5-1** and **Figure 2**.

5.2.2.2 The monitoring parameters, frequency and duration of surface water quality monitoring are summarized in **Table 5-2**. Detailed monitoring schedule is presented in **Appendix D**.

Table 5-1 Surface Water Quality Monitoring Locations

Monitoring Station	Location	Coordinates (HK Grid)	
		Easting	Northing
WM1	Upstream of Lin Ma Hang River	836665	845020
WM2	Ping Yuen River	835592	844186

Table 5-2 Surface Water Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency
pH, Electrical conductivity, DO, Turbidity, SS, Alkalinity, COD, BOD ₅ , TOC, Ammonia-nitrogen, TKN, Nitrate, Sulphate, Sulphite, Phosphate, Chloride, Sodium, Mg, Ca, K, Fe, Ni, Zn, Mn, Cu, Pb, Cd, Coliform Count, Oil and Grease	Once per month

5.2.3 Monitoring Equipment

- 5.2.3.1 The measurements of pH, electrical conductivity (EC), DO, turbidity, water temperature and air temperature were undertaken in situ. In situ monitoring instruments in compliance with the specifications listed under Section 5.5 of the Updated EM&A Manual were used to undertake the surface water quality monitoring for the Project. **Table 5-3** summarises the equipment used in the impact surface water quality monitoring works. Copies of the calibration certificates are attached in **Appendix E**.

Table 5-3 Surface Water Quality Monitoring Equipment

Equipment	Model	Expiry Date
Water Quality Meter	YSI ProDSS (S/N: 22D100436)	30 Jun 2025
Water Flow Meter	Global Water FP111 (S/N: 22K100859)	10 Feb 2026

5.2.4 Summary of Surface Water Quality Monitoring Procedure

Operational/ Analytical Procedures

- 5.2.4.1 In general, water samples were collected from within 500 mm of the water surface. Water was collected by a small clean open-mouthed bucket with the lip pointing upstream. Usually, water was then transferred to the sample bottles until they were filled to the top with no remaining air space before the lid was securely screwed on. For samples that were preserved with acid or alkalis prior to transport to the laboratory, the samples bottles were filled to the level specified by the analytical laboratory.
- 5.2.4.2 Analyses shall be carried out in accordance with methods described in ASTM or APHA - AWWA-WEF Standard.

Laboratory Analytical Methods

- 5.2.4.3 The testing of parameters presented in **Table 5-4** for all stations was conducted by ALS Technichem (HK) Pty Ltd. (HOKLAS Registration No. 066). Comprehensive quality assurance and control procedures were in place in order to ensure quality and consistency in results. The detection limits are provided in **Table 5-4**.

Table 5-4 Surface Water Monitoring Detection Limits and Limit of Reporting

Parameters	Detection Limit (in Updated EM&A Manual)	Limit of Reporting	Method Reference
pH	0.1	0.1	APHA 4500 H+ B
Electrical conductivity	1 mS/cm	1 mS/cm	APHA 2510 B
Alkalinity	1 mg/L	1 mg/L	APHA 2320 B
COD	10 mg/L	5 mg/L	APHA 5220 C
BOD ₅	3 mg/L	2 mg/L	APHA 5210 B
TOC	1 mg/L	1 mg/L	APHA 5310 B
SS	0.1 mg/L	0.1 mg/L	APHA 2540 D
Ammonia-nitrogen	0.2 mg/L	0.01 mg/L	APHA 4500 NH ₃ G
TKN	0.4 mg/L	0.1 mg/L	APHA 4500Norg: D
Nitrate	0.5 mg/L	0.01 mg/L	APHA 4500 NO ₃ I
Sulphate	5 mg/L	1 mg/L	USEPA 375.4
Sulphite	2 mg/L	2 mg/L	APHA 4500 SO ₃ B
Phosphate	0.01 mg/L	0.01 mg/L	APHA 4500-P B & F
Chloride	0.5 mg/L	0.5 mg/L	USEPA 325.1
Sodium	50 mg/L	50 mg/L	USEPA 6010C
Mg	50 mg/L	50 mg/L	USEPA 6010C
Ca	50 mg/L	50 mg/L	USEPA 6010C
K	50 mg/L	50 mg/L	USEPA 6010C
Fe	50 mg/L	10 mg/L	USEPA 6010C
Ni	1 mg/L	1 mg/L	USEPA 6020A
Zn	10 mg/L	10 mg/L	USEPA 6020A
Mn	1 mg/L	1 mg/L	USEPA 6020A
Cu	1 mg/L	1 mg/L	USEPA 6020A
Pb	1 mg/L	1 mg/L	USEPA 6020A
Cd	0.2 mg/L	0.2 mg/L	USEPA 6020A
Coliform Count	1 cfu/ 100mL	1 cfu/ 100mL	DoE section 7.8, 7.9.4.1 & 3
Oil and Grease	5 mg/L	5 mg/L	APHA 5520 B

QA/ QC Requirements

- 5.2.4.4 All in situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or other international accreditation scheme before use, and subsequently re-calibrated at the intervals according to manufacturer's requirement throughout all stages of the surface water quality monitoring programme. Calibration of temperature, DO, salinity, pH and turbidity is conducted in three-month interval. Calibration of water flow is conducted annually. Responses of sensors and electrodes were checked with certified standard solutions before each use. Calibration for a DO meter was carried out before measurement according to the instruction manual of the equipment model. For the on-site calibration of field equipment, the requirements of the BS 1427:2018, "Guide to on-site test methods for the analysis of waters" was observed.

Decontamination Procedures

- 5.2.4.5 Water sampling equipment used during the course of the monitoring programme was decontaminated by manual washing and rinsed with clean distilled water after each sampling location.

Sampling Management and Supervision

- 5.2.4.6 All sampling bottles were labelled with the sample ID (including the indication of sampling station), laboratory number and sampling date. Water samples were dispatched to the testing laboratory for analysis as soon as possible after the sampling. All samples were stored in a cool box and kept at less than 4°C but without frozen. All water samples were handled under chain of custody protocols and relinquished to the laboratory representatives at locations specified by the laboratory. The laboratory determination works started within 24 hours after collection of water samples.

Quality Control Measures for Sample Testing

- 5.2.4.7 The samples testing was performed by ALS Technichem (HK) Pty Ltd. The following quality control programme was performed by the laboratory:
- One method blank; and
 - One sample duplicate.

5.2.5 Monitoring Results

- 5.2.5.1 Impact surface water quality monitoring was conducted at WM1 & WM2 on 13 May 2025. No adverse weather was observed during reporting period. The detailed monitoring schedule is shown in **Appendix D**.
- 5.2.5.2 The summary of monitoring results is presented in **Table 5-5**. Detailed monitoring results at each monitoring station and graphical presentations of surface water quality (DO, SS and Turbidity) at the monitoring stations are given in **Appendix F** and **Appendix G**.
- 5.2.5.3 No particular observations are identified near the monitoring stations during the monitoring period.

Table 5-5 Summary of Impact Surface Water Monitoring Results

Monitoring Parameter(s)	Monitoring Station					
	WM1			WM2		
	Monitoring Results	Action Level	Limit Level	Monitoring Results	Action Level	Limit Level
pH	6.2	>7.7	>7.8	6.8	>7.6	>7.7
DO in mg/L	7.6	<7.4	<4	6.1	<5	<4
Turbidity in NTU	2.4	>9.2	>9.5	27.0	>108.3	>108.9
Electrical Conductivity in $\mu\text{S}/\text{cm}$	81	---	---	268	---	---
SS in mg/L	5.5	>9.7	>11.4	32.8	>94.5	>94.7
Alkalinity in mg/L	9	---	---	65	---	---
COD in mg/L	12			13		
BOD ₅ in mg/L	2.0			<2		
TOC in mg/L	4			3		
Ammonia-nitrogen in mg/L	0.10			0.18		
TKN in mg/L	0.5			0.7		
Nitrate in mg/L	0.03			0.36		
Sulphate in mg/L	10			42		
Sulphite in mg/L	<2			<2		
Phosphorus in mg/L	<0.01			<0.01		
Chloride in mg/L	7			13		
Sodium in $\mu\text{g}/\text{L}$	8870			9570		
Magnesium in $\mu\text{g}/\text{L}$	480			1670		
Calcium in $\mu\text{g}/\text{L}$	3220			33200		
Potassium in $\mu\text{g}/\text{L}$	600			4260		
Iron in $\mu\text{g}/\text{L}$	1120			4100		
Nickel in $\mu\text{g}/\text{L}$	<1			<1		
Zinc in $\mu\text{g}/\text{L}$	17			28		
Manganese in $\mu\text{g}/\text{L}$	117			1390		
Copper in $\mu\text{g}/\text{L}$	3.0			3		
Lead in $\mu\text{g}/\text{L}$	<1			2		
Cadmium in $\mu\text{g}/\text{L}$	<0.2			<0.2		
Coliform Count in cfu/100mL	16			5400		
Oil and Grease in mg/L	<5			<5		

5.2.5.4 The Summary of Impact Surface Water Quality Exceedance are shown in **Table 5-6**.

Table 5-6 Summary of Impact Surface Water Quality Exceedance during the Reporting Period

Surface Water Quality Monitoring Station		WM1		WM2	
Level Exceedance		Action Level	Limit Level	Action Level	Limit Level
Parameters					
pH	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
DO	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
Turbidity	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
SS	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0

Remarks: * equal to non-project related

5.2.5.5 No exceedance of Action and Limit Level of surface water quality at designated locations was recorded during the reporting period. The Notification of Environmental Quality Limits Exceedance is presented in **Appendix H**.

5.2.6 Recommended Mitigation Measure

- 5.2.6.1 The recommended surface water mitigation measures from EIA report are listed as followed:
- Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities.
 - The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows.
 - The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silts and sediment traps should be 5 minutes under maximum flow conditions.
 - All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads.
 - Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts.
 - Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.

5.2.7 Implementation of the Temporary Surface Water Drainage System (TSWDS)

- 5.2.7.1 The site inspection and audits were carried out by ER, IC, ET & Contractor on weekly basis (IEC on monthly basis) to monitor the construction progress, maintenance performance and effectiveness of temporary surface water drainage system in the Project Site to fulfil the FEP Condition 2.13, EP Condition 2.15 and the Section 5.2.1.1 of the Updated EM&A Manual. The joint environmental site inspection records are shown in **Appendix K**.
- 5.2.7.2 All construction site runoff would be treated by silt removal facilities to fulfil the requirement of WPCO licenses from the project. Construction site runoff from the project after treatment was discharged to Ping Yuen River. The surface water monitoring results at WM2 (after the discharge point of silt removal facilities) can reflect the water quality at Ping Yuen River during the reporting period.

5.2.8 Event and Action Plan

- 5.2.8.1 Should non-compliance of the criteria occurs, action in accordance with the action plan in **Table 5-7** shall be carried out.

Table 5-7 Event and Action Plan for Water Quality

Event	ET	IEC	Contractor
Action level being exceeded by one sampling day	- Repeat in situ measurement to confirm findings - Identify source(s) of impact - Prepare Notification of Exceedance - Inform IEC and Contractor - Check monitoring data, all plant, equipment and Contractor's working methods - Repeat measurement on next day of exceedance	- Verify Notification of Exceedance - Check monitoring data and Contractor's working methods	- Rectify unacceptable practice - Amend working methods if appropriate
Action level being exceeded by two or more consecutive sampling days	- Repeat in situ measurement to confirm findings - Identify source(s) of impact - Prepare Notification of Exceedance - Inform IEC and Contractor - Check monitoring data, all plant, equipment and Contractor's working methods - Discuss with Contractor and IEC for remedial measures - Ensure mitigation measures are implemented - Increase the monitoring frequency to daily until no exceedance of Action level - Repeat measurement on next day of exceedance	- Verify Notification of Exceedance - Check monitoring data and Contractor's working method - Discuss with ET and Contractor on possible remedial actions - Review the proposed mitigation measures - Supervise the implementation of mitigation measures	- Submit proposal of additional mitigation measures to IEC of notification - Implement the agreed mitigation measures - Amend proposal if appropriate

Event	ET	IEC	Contractor
Limit Level being exceeded by one sampling day	- Repeat in situ measurement to confirm findings - Identify source(s) of impact - Prepare Notification of Exceedance - Inform IEC and Contractor; - Check monitoring data, all plant, equipment and Contractor's working methods - Discuss mitigation measures with IEC and Contractor - Ensure mitigation measure are implemented	- Verify Notification of Exceedance - Check monitoring data submitted By ET and Contractor's working method - Discuss with ET and Contractor on possible remedial actions - Review the proposed mitigation measures - Supervise the implementation of mitigation measures	- Critically review the working method - Rectify unacceptable practice - Take immediate corrective actions to avoid further exceedance - Submit proposal of mitigation measures to IEC - Implement the agreed mitigation measures
Limit level being exceeded by two or more consecutive sampling days	- Repeat in situ measurement to confirm findings - Identify source(s) of impact - Prepare Notification of Exceedance - Inform IEC, contractor and EPD - Check monitoring data, all plant, equipment and Contractor's working methods - Discuss mitigation measures with IEC and Contractor - Ensure mitigation measure are implemented	- Verify Notification of Exceedance - Check monitoring data submitted by ET and Contractor's working method - Discuss with ET and Contractor on possible remedial actions - Review the proposed mitigation measures - Supervise the implementation of mitigation measures	- Critically review the working method - Rectify unacceptable practice - Take immediate corrective actions to avoid further exceedance - Submit proposal of mitigation measures to IEC - Implement the agreed mitigation measures - Resubmit proposals if problem still not under control - Slow down or to stop relevant activity until exceedance is abated

6 Waste Management

- 6.1.1 Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. Non-inert C&D materials were made up of general refuse, steels and paper/cardboard packaging materials. Steel materials generated from the Project were also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in **Appendix J**.
- 6.1.2 A total of 79,056.7 tonnes of C&D materials was reused in the project site. A total of 134,473 tonnes of C&D materials was reused at alternative disposal ground (NENT Landfill) during the reporting period. A total of 648.15 tonnes of C&D materials was imported fill during the reporting period. No Yard waste (collected to Y-Park) was generated during the reporting period. A total of 222.34 tonnes of general refuse and a total of No non-recyclable yard waste was generated during the reporting period. The general refuse generated from the Project were disposed of at the NENT Landfill.
- 6.1.3 The recommended waste management mitigation measures from EIA report are listed as followed:
- Implement a trip-ticket system to ensure that the movement of C&D materials are properly documented and verified in accordance with DEVB TC(W) No. 6/2010.
 - Concrete and masonry should be used as general fill and steel reinforcement bars can be used by scrap steel mills.
 - Proper areas should be designated for waste segregation and storage wherever site conditions permit.
 - Maximise the use of reusable steel formwork to reduce the amount of C&D material.
 - Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement.
 - On-site sorting and segregation facility of all type of wastes is considered as one of the best practice in waste management and hence, should be implemented in all projects generating construction waste.
 - The sorted public fill and C&D waste should be properly reused.
 - Excavated slope, stockpiled material and bund walls should be covered by tarpaulin until used in order to prevent wind-blown dust during dry weather, and to reduce muddy runoff during wet weather.

7 Landfill Gas Monitoring

7.1 Monitoring Requirement during Construction

Monitoring for Construction Works

7.1.1 Intrinsically safe portable gas detectors should be used during or when working in any confined spaces, which have the potential for presence of LFG and risk of explosion or asphyxiation. The monitoring equipment should alarm, both audibly and visually, when the concentrations of the following gases were exceeded:

- CH₄: >10% Lower Explosion Limit (LEL);
- CO₂: >0.5%; and
- O₂: <18% by volume.

7.2 Monitoring Locations

7.2.1 During the construction works within the NENT Landfill Extension site with excavation of 1m deep or more, LFG concentrations should be monitored before entry and periodically during the progress of works. If drilling is required, the procedures for safety management and working procedures as stipulated in EPD's Landfill Gas Hazard Assessment – Guidance Note should be strictly adopted.

7.2.2 The monitoring frequency and areas to be monitored should be set down prior to commencement of groundworks by the Safety Officer. All measurements in excavations should be made with the monitoring tube located not more than 10mm from the exposed ground surface. Monitoring of excavations should be undertaken as follows:

7.2.3 For excavation works deeper than 1m, measurements should be made:

- at ground surface prior to excavation;
- immediately before any worker enters the excavation;
- at the beginning of each working day for the entire period the excavation remains open; and
- periodically through the working day whilst workers are in the excavation.

7.2.4 For excavation between 300mm and 1m deep, measurements should be made:

- directly after the excavation has been completed; and
- periodically whilst the excavation remains open.

7.2.5 For excavations less than 300mm deep, monitoring may be omitted, at the discretion of the Safety Officer.

7.2.6 The locations of LFG monitoring locations during reporting period are shown in **Table 7-1**. The Site formation layout plan is shown in **Figure 2** and the Layout of LFG monitoring locations is presented in **Figure 3**.

Table 7-1 Locations of LFG Monitoring during Reporting Period

Monitoring Location	Type of works
Portion A +50 mpD to 70 mpD Platform	Excavation Works
Portion B2/E1	

7.3 Monitoring Equipment

7.3.1.1 Gas Detector was used for carrying out LFG monitoring for Construction Works. **Table 7-2** summarises the equipment that were used in the LFG monitoring programme. The calibration certificates are shown in **Appendix E**. The detection limits are provided in **Table 7-3**.

Table 7-2 LFG Monitoring Equipment

Monitoring Parameters	Equipment	Model
CH ₄ , CO ₂ & O ₂	Gas Analyser	Blackline Safety G7C-EU2 (S/N: 3571220922)

Table 7-3 Landfill Gas Monitoring Detection Limits

Parameters	Detection Limit
CH ₄	1% LEL
O ₂	0.1%
CO ₂	0.1%

7.4 Event and Action Plan (EAP)

7.4.1 Should non-compliance of the criteria occur, action in accordance with the action plan in **Table 7-4** shall be carried out.

Table 7-4 Event and Action Plan for the Landfill Gas Monitoring during Construction Phase

Parameter	Monitoring Result	Action
Oxygen (O ₂)	Action Level <19% O ₂	Ventilate trench/void to restore O ₂ to >19%
	Limit Level <18% O ₂	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore O ₂ to >19%
Methane (CH ₄)	Action Level >10% LEL *	Prohibit hot works Increase ventilation to restore CH ₄ to <10% LEL
	Limit Level >20% LEL *	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore CH ₄ to <10% LEL
Carbon dioxide (CO ₂)	Action Level** >0.5% ** CO ₂	Ventilate to restore CO ₂ to <0.5%
	Limit Level >1.5% CO ₂	Stop works Evacuate personnel / prohibit entry Increase ventilation to restore CO ₂ to <0.5%

* LEL: Lower Explosive Limit - concentrations in air below which there is not enough fuel to continue an explosion.

** This Action Level of CO₂ at 0.5% is set for reference only, assuming no CO₂ emission from a particular location.

Depending on the baseline CO₂ levels, the Action Level at a particular location will be changed.

7.5 Monitoring Results

- 7.5.1 The LFG monitoring was carried out two rounds (at the beginning of works in the morning and after lunch) at the working days. The monitoring period of each round of LFG monitoring is around 5 minutes.
- 7.5.2 The LFG monitoring was conducted at Portion A +50 mpD to 70 mpD Platform and Portion B2/E1 during the reporting period (Conducted on working days). The LFG monitoring results are summarized in **Table 7-5 & Table 7-6**.

Table 7-5 Summary of LFG Monitoring Results

LFG Monitoring Station	Monitoring Date	Monitoring Parameter(s)			
		CH ₄ in %	LEL in %/v	CO ₂ in %	O ₂ in %
		Average Monitoring Results			
Portion A +50 mpD to 70 mpD Platform	2 May 2025	0	0	0	20.1
	3 May 2025	0	0	0	20.0
	6 May 2025	0	0	0	20.1
	7 May 2025	0	0	0	20.1
	8 May 2025	0	0	0	20.0
	9 May 2025	0	0	0	20.1
	10 May 2025	0	0	0	20.1
	12 May 2025	0	0	0	20.0
	13 May 2025	0	0	0	20.1
	14 May 2025	0	0	0	20.1
	15 May 2025	0	0	0	20.0
	16 May 2025	0	0	0	20.1
	17 May 2025	0	0	0	20.1
	19 May 2025	0	0	0	20.1
	20 May 2025	0	0	0	20.0
	21 May 2025	0	0	0	20.1
	22 May 2025	0	0	0	20.0
	23 May 2025	0	0	0	20.1
	24 May 2025	0	0	0	20.1
	26 May 2025	0	0	0	20.1
	27 May 2025	0	0	0	20.1
	28 May 2025	0	0	0	20.1
	29 May 2025	0	0	0	20.0
	30 May 2025	0	0	0	20.0
Action Level		>10% LEL	---	>0.5%** CO ₂	<19%
Limit Level		>20% LEL	---	>1.5% CO ₂	<18%

* LEL: Lower Explosive Limit - concentrations in air below which there is not enough fuel to continue an explosion.

** This Limit Level of CO₂ at 0.5% is set for reference only, assuming no CO₂ emission from a particular location.

Table 7-6 Summary of LFG Monitoring Results

LFG Monitoring Station	Monitoring Date	Monitoring Parameter(s)			
		CH ₄ in %	LEL in %/v	CO ₂ in %	O ₂ in %
		Average Monitoring Results			
Portion B2/E1	2 May 2025	0	0	0	20.1
	3 May 2025	0	0	0	20.0
	6 May 2025	0	0	0	20.1
	7 May 2025	0	0	0	20.1
	8 May 2025	0	0	0	20.0
	9 May 2025	0	0	0	20.1
	10 May 2025	0	0	0	20.1
	12 May 2025	0	0	0	20.0
	13 May 2025	0	0	0	20.1
	14 May 2025	0	0	0	20.0
	15 May 2025	0	0	0	20.0
	16 May 2025	0	0	0	20.1
	17 May 2025	0	0	0	20.1
	19 May 2025	0	0	0	20.0
	20 May 2025	0	0	0	20.0
	21 May 2025	0	0	0	20.1
	22 May 2025	0	0	0	20.0
	23 May 2025	0	0	0	20.1
	24 May 2025	0	0	0	20.1
	26 May 2025	0	0	0	20.1
	27 May 2025	0	0	0	20.1
	28 May 2025	0	0	0	20.1
	29 May 2025	0	0	0	20.0
	30 May 2025	0	0	0	20.0
Action Level		>10% LEL	---	>0.5%** CO ₂	<19%
Limit Level		>20% LEL	---	>1.5% CO ₂	<18%

* LEL: Lower Explosive Limit - concentrations in air below which there is not enough fuel to continue an explosion.

** This Limit Level of CO₂ at 0.5% is set for reference only, assuming no CO₂ emission from a particular location.

7.5.3 The Summary of Landfill Gas Exceedance are shown in **Table 7-7**.

Table 7-7 Summary of Landfill Gas Exceedance during the Reporting Period

Landfill Gas Monitoring Station		Portion A +50 mpD to 70 mpD Platform		Portion B2/E1	
Level Exceedance		Action Level	Limit Level	Action Level	Limit Level
Parameters					
CH ₄	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
CO ₂	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
O ₂	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0

Remarks: * equal to non-project related

7.5.4 No exceedance of Action and Limit Levels of LFG was recorded during the reporting period. Therefore, there was no record of Notification of Environmental Quality Limits Exceedance in the **Appendix H**.

7.5.5 No effect that arose from the other special phenomena and work progress of the concerned site was noted during the current monitoring month.

7.6 Recommended Mitigation Measures

7.6.1 The recommended landfill gas mitigation measures from EIA report are listed as followed:

- Special LFG precautions should be taken due to close proximity of NENT landfill extension site to existing landfill to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity).
- Prominent safety warning signs should be erected on-site to alert all personnel and visitors of LFG hazards during excavation works.
- No smoking or burning should be permitted on-site.
- Prominent 'No smoking' and 'No Naked Flames' signs should be erected on-site.
- No worker should be allowed to work alone at any time in excavated trenches or confined areas on-site.
- Adequate fire fighting equipment should be provided on-site.
- Construction equipment should be equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors.
- Electrical motors and extension cords should be explosion-proof and intrinsically safe for use on-site.
- 'Permit to Work' system should be implemented.
- Welding, flame-cutting or other hot works should be conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works.

8 Landscape and Visual

8.1 Monitoring Requirement

- 8.1.1 In order to monitor the landscape and visual impact after providing mitigation measures effectively, all the specified and affected LCAs, LRs and VSRs should be monitored. Implementation of the mitigation measures during construction phase of the Project has been monitored through the regular site inspection/audit.
- 8.1.2 All relevant environmental mitigation measures listed in the approved EIA Report and the Updated EM&A Manual and their implementation status are summarised in **Appendix L**.

8.2 Result and Observation

- 8.2.1 Measures to mitigate the landscape and visual impacts during the construction phase has been checked to ensure compliance with the intended aims of the measures within the reporting period. The progress of the engineering works are regularly reviewed on site to identify the earliest practical opportunities for the landscape works to be undertaken.
- 8.2.2 In order to monitor the landscape and visual impact after providing mitigation measures effectively, all the specified and affected LCAs, LRs and VSRs should be monitored. Implementation of the mitigation measures during construction phase of the Project has been monitored through the regular site inspection/audit.

9 Cultural Heritage

- 9.1.1 The Mitigation measures for preservation of the cultural landscape feature located within the project area was conducted before commencement of construction of the project based on the requirement of Survey Report and Mapping Records for Boulder Paths BP1 & 2 & Conditions of G2, G4, G5 G6, G7, G8, G14, G15, G25, G26 and G27 within NENTX.
- 9.1.2 The survey and mapping works carried out on 23 August 2022 and the verification works carried out on 23 August 2022 confirmed that both 2 boulder paths BP1 and BP2 are fall outside the site boundary and the Project area.
- 9.1.3 All the affected graves within the waste boundary have been removed in accordance with section 119(1) of the Public Health and Municipal Services Ordinance (Cap 132). Removal of the graves as shown on Figure 2 attached to the FEP was proven by the visit of graves on 8 July 2022. All the graves as shown on Figure 2 attached to the FEP were abandoned and removed and no mitigation or preservation measures is necessary.
- 9.1.4 The Survey Report and Mapping Records for Boulder Paths BP1 & 2 was certified by ET on 10 Oct 2022, was verified by IEC and submitted to EPD on 12 Oct 2022. The Conditions of G2, G4, G5 G6, G7, G8, G14, G15, G25, G26 and G27 within NENTX was certified by ET, was verified by IEC and submitted to EPD on 15 Oct 2022. No later than four weeks before commencement of construction of the project in accordance with Condition 2.4 of the FEP-02/292/2007.
- 9.1.5 Implementation of the mitigation measures such as permanent fencing to protect the boulder path and setting up warning notices during construction phase of the Project has been monitored through the regular site inspection/audit. The permanent fencing locations are shown in **Appendix M**. In case of any presence of undiscovered grave during construction phase, AMO will be informed as soon as possible.

10 Ecological Monitoring

- 10.1.1 The post-transplantation monitoring had been completed in October 2023. No further post-transplantation monitoring will be conducted in accordance with the requirement of the approved Transplantation Proposal for Plant Species of Conservation Importance (Rev.1).
- 10.1.2 The post-translocation monitoring had been completed in July 2023. No further post-translocation monitoring will be conducted in accordance with the requirements of the Revised Translocation Proposal for the Endemic Freshwater Crab *Somanniathelphusa zanklon*.
- 10.1.3 The details of requirements, monitoring results and site inspection with photos for the post-translocation monitoring and post-transplantation monitoring would be reported separately.
- 10.1.4 The milestone of the ecological monitoring is presented in **Table 10-1**. The softcopies of the submissions are provided in <https://www.nentx-ema.com/ep-submissions/>.

Table 10-1 Milestone of the Ecological Monitoring

Type of Monitoring	Monitoring Event No.	Monitoring Date
Post-transplantation Monitoring	1 st	24 Nov 2022
	2 nd	9 Dec 2022
	3 rd	21 Dec 2022
	4 th	13 Jan 2023
	5 th	26 Jan 2023
	6 th	8 Feb 2023
	7 th	24 Feb 2023
	8 th	20 Mar 2023
	9 th	21 Apr 2023
	10 th	12 May 2023
	11 th	16 Jun 2023
	12 th	18 Jul 2023
	13 th	11 Aug 2023
	14 th	15 Sep 2023
	15 th	13 Oct 2023
Post-translocation Monitoring	1 st (Aug 2022)	29 Aug 2022
	2 nd (Sep 2022)	28 Sep 2022
	3 rd (Oct 2022)	28 Oct 2022
	4 th (Nov 2022)	22 Nov 2022
	5 th (Dec 2022)	29 Dec 2022
	6 th (Jan 2023)	30 Jan 2023
	7 th (Feb 2023)	24 Feb 2023
	8 th (Mar 2023)	20 Mar 2023
	9 th (Apr 2023)	19 Apr 2023
	10 th (May 2023)	17 May 2023
	11 th (Jun 2023)	7 Jun 2023
	12 th (Jul 2023)	12 Jul 2023

11 Site Inspection and Audit

11.1.1 Site Inspection and audits were carried out by ET on weekly basis to monitor the implementation of proper environmental management practices and mitigation measures in the Project Site.

11.1.2 Weekly ET environmental site inspections were conducted in the reporting period on 06, 12, 19 & 26 May 2025. A joint environmental site inspection was carried out by the representatives of the ER, the Contractor, IEC and the ET on 19 May 2025. The joint environmental site inspection records are shown in **Appendix K**. There was no noncompliance recorded during the site inspections.

11.1.3 Major findings and recommendations are summarized as follows:

06 May 2025

Observation(s):

1. The overloading of enclosed rubbish bins at Portion A was found. The Contractor was recommended that the accumulation of general refuse should be removed and the number of enclosed rubbish bins should be considered to increase.

12 May 2025

Observation(s):

1. Accumulated silt was found at the sedimentation basin of Portion E3-1. The Contractor was recommended to clean up the accumulated silt at the sedimentation basin regularly.
2. Waste and standing water were found at the U-channel of Portion A. The Contractor was advised to remove the waste and direct the standing water into silt removal facilities for treatment.

19 May 2025

Observation(s):

1. Accumulated waste at Portion D was found. The Contractor was recommended that accumulated waste at Portion D should be removed regularly.
2. The breaking work without water spraying was found. The Contractor was advised that water spraying should be conducted when the breaking works are conducting.
3. The access roads at Portion A and B2 were dry and the dust dispersion was found when vehicles went through the access road. The Contractor was recommended that the frequency of watering should be increased, especially at dry weather.
4. Standing water at the U-channel of Portion A was found. The Contractor was advised that standing water at U-channel of Portion A should be directed into the silt removal facilities for treatment.

26 May 2025

Observation(s):

1. Standing water was found at Portion A. The Contractor was recommended to clean up the standing water into silt removal facility for treatment, especially after rainstorm.
2. Accumulated waste was found at Portion A. The Contractor was advised that accumulated waste should be collected by approved waste collector regularly.

Reminder(s):

1. The Contractor was reminded that the control of silty surface runoff should be implemented in accordance with the Appendix A2 of ProPECC PN 1/94.

11.1.4 One (1) general site inspection was conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG) during the reporting period.

12 Environmental Non-Conformance

12.1 Summary of Monitoring Exceedance

Air Quality, Noise, Surface Water Quality Monitoring & Landfill Gas Monitoring

12.1.1 No exceedance of the Action and Limit Levels were recorded at designated monitoring stations during the reporting period. The Notification of Environmental Quality Limits Exceedance is presented in **Appendix H**.

12.1.2 The Summary of Impact 1-hr & 24-hr TSP Exceedance are shown in **Table 12-1**.

Table 12-1 Summary of Impact 1-hr & 24-hr TSP Exceedance during the Reporting Period

Dust Monitoring Station		AM1		AM2		AM3	
Parameters	Level Exceedance	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
1-hr TSP	Exceedance Date	-	-	-	-	-	-
	Exceedance Count	0	0	0	0	0	0
24-hr TSP	Exceedance Date	-	-	-	-	-	-
	Exceedance Count	0	0	0	0	0	0

Remarks: * equal to non-project related

12.1.3 The Summary of Impact Noise Exceedance are shown in **Table 12-2**.

Table 12-2 Summary of Impact Noise Exceedance during the Reporting Period

Noise Monitoring Station		NM1(a)		NM2(a)	
Parameters	Level Exceedance	Action Level	Limit Level	Action Level	Limit Level
LA _{eq} (30mins)	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0

Remarks: * equal to non-project related

12.1.4 The Summary of Impact Surface Water Quality Exceedance are shown in **Table 12-3**.

Table 12-3 Summary of Impact Surface Water Quality Exceedance during the Reporting Period

Surface Water Quality Monitoring Station		WM1		WM2	
Level Exceedance		Action Level	Limit Level	Action Level	Limit Level
Parameters					
pH	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
DO	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
Turbidity	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
SS	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0

Remarks: * equal to non-project related

12.1.5 The Summary of Landfill Gas Exceedance are shown in **Table 12-4**.

Table 12-4 Summary of Landfill Gas Exceedance during the reporting period

Landfill Gas Monitoring Station		Portion A +50 mpD to 70 mpD Platform		Portion B2 / E1	
Level Exceedance		Action Level	Limit Level	Action Level	Limit Level
Parameters					
CH ₄	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
CO ₂	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
O ₂	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0

Remarks: * equal to non-project related

12.2 Summary of Environmental Non-Compliance

12.2.1 No non-compliance event was recorded during the reporting period.

12.3 Summary of Environmental Complaint

12.3.1 No environmental complaint was recorded during the reporting period. The cumulative statistics on environmental complaints are presented in **Table 12-5**.

Table 12-5 Cumulative Statistics on Environmental Complaints

Reporting Period		Environmental Aspects				
		Air Quality	Noise	Water Quality	Waste	Ecology
May 2025	Complaint Date	-	-	-	-	-
	No. of Complaint	0	0	0	0	0
Reporting Period Total		0	0	0	0	0
Accumulate of project		1*	0	7(1*)	0	0

Remarks:

- * equal to non-project related after the investigation.
- # equal to the complaint under the investigation.

12.3.2 Cumulative complaint / enquiry log, Summaries of complaints and enquiries are presented in **Appendix N**.

12.4 Summary of Environmental Summons and Successful Prosecution

12.4.1 No summons and successful prosecution were received during the reporting period.

13 Implementation Status on Environmental Mitigation Measures

13.1 General

- 13.1.1 The Contractor has generally implemented part of environmental mitigation measures and requirements as stated in the EIA Report, the EP and Updated EM&A Manual and the contract documents. The implementation status during the reporting period is summarized in **Appendix L**.

14 Future Key Issues

14.1 Key Issues for the Coming Month

14.1.1 Works to be undertaken for the coming monitoring periods are summarized below. Detailed construction activities and locations are summarized in **Appendix A**.

- | | |
|---|---|
| - | Material loading and unloading, backfilling of material and site traffic at Portion A, SBA to alternative disposal ground |
| - | Construction of site buildings at Portion D |
| - | Site clearance at Portion A, B2/E1, E3-1 & E4 |
| - | Installation of permanent fencing at Portion A, B1 & E4 |
| - | Site formation at Portion A, B2/E1, E3-1 & E4 |
| - | Tree felling at whole site |
| - | Shotcreting (Permanent and Temporary) at whole site |
| - | Soil nail installation at Portion A, B2/E1 & E4 |
| - | Installation of minipile at Portion A |
| - | Construction of RE wall at Portion E3-1 |

14.1.2 Potential environmental impacts arising from the above construction activities are mainly associated with air quality, construction noise, water quality, waste management, landfill gas monitoring, landscape and visual, cultural heritage and ecology.

14.2 Monitoring Schedule for the Next Month

14.2.1 The tentative schedule of environmental monitoring for the next reporting period is presented in **Appendix D**.

14.3 Construction Programme for the Next Month

14.3.1 The most updated construction programme for the Project is presented in **Appendix A**.

15 Conclusion

- 15.1.1 1-hr & 24-hr TSP impact monitoring was carried out in the reporting month. No Action / Limit Level exceedance for 1-hr & 24-hr TSP impact monitoring was recorded during the period.
- 15.1.2 Construction noise monitoring was carried out in the reporting month. No Action / Limit Level exceedance at NM1a & NM2a was recorded during the period.
- 15.1.3 The baseline groundwater monitoring was commenced on 28 March 2025. The details of baseline groundwater monitoring will be presented in the Baseline Monitoring Report.
- 15.1.4 Surface Water Quality Monitoring was carried out in the reporting month. No Action / Limit Level exceedance of surface water quality was recorded during the reporting period.
- 15.1.5 Landfill Gas Monitoring was carried out in the reporting month. No exceedance of Action / Limit Levels of LFG was recorded during the reporting period.
- 15.1.6 In terms of cultural heritage, implementation of the mitigation measures such as permanent fencing to protect the boulder path and setting up warning notices during construction phase of the Project has been monitored through the regular site inspection/audit in the reporting period. All the mitigation measures are in order.
- 15.1.7 Weekly environmental site inspections were carried out in the reporting month. Recommendations on mitigation measures for Permit/ Licenses were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 15.1.8 No environmental complaint was recorded during the reporting period.
- 15.1.9 No non-compliance event was recorded during the reporting period.
- 15.1.10 No notification of summons and prosecution was received during the reporting period.
- 15.1.11 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Figure 1 Location of the Project Site

Figure 2 Impact Air Quality, Noise & Surface Water Quality Monitoring Locations

Figure 3 Landfill Gas Monitoring Locations

Gas Monitoring Point ●
Monitoring Frequency: 2 times per day

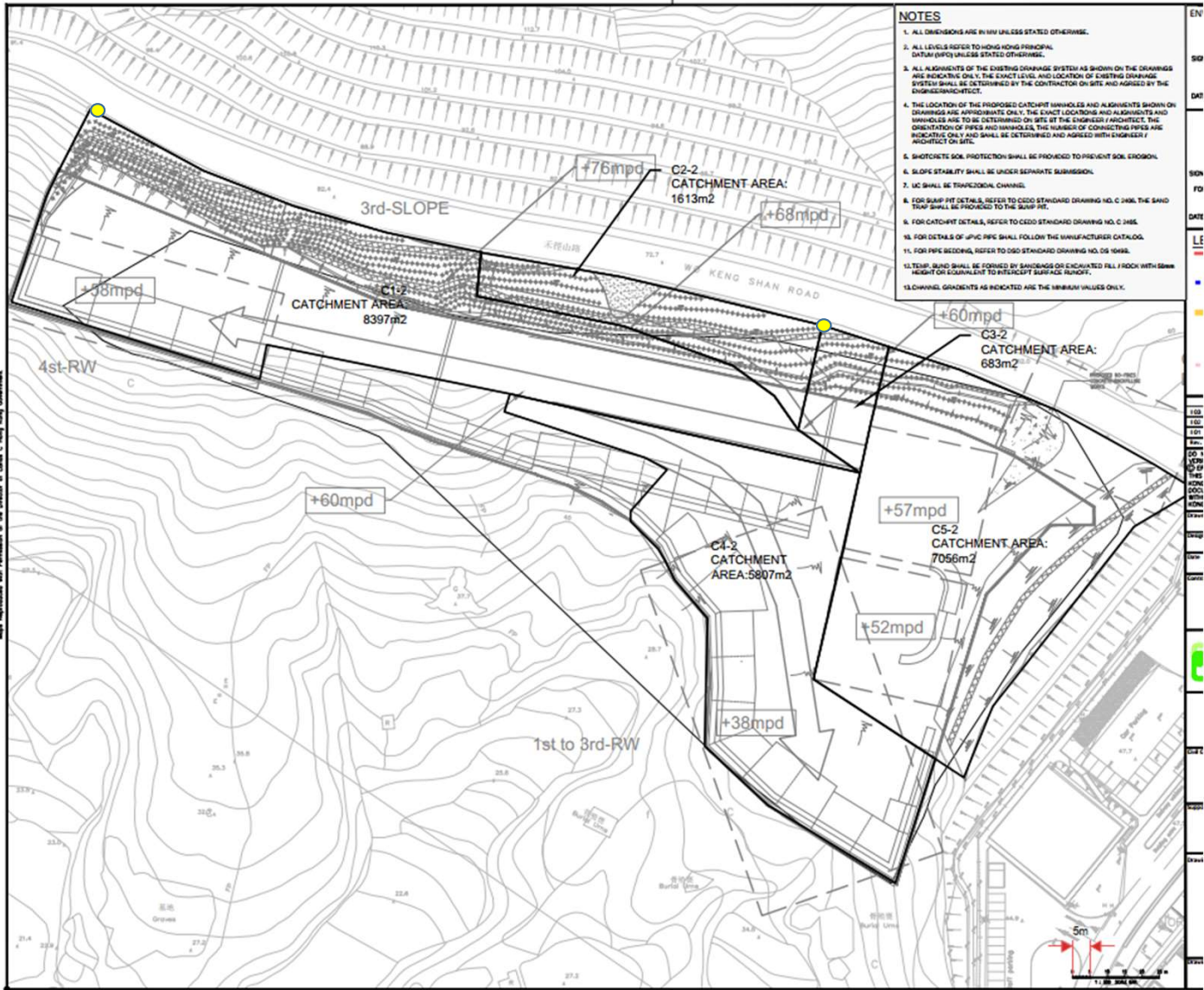
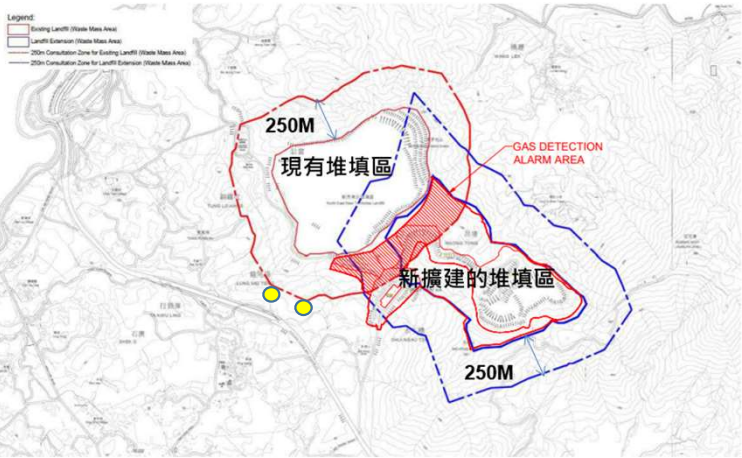
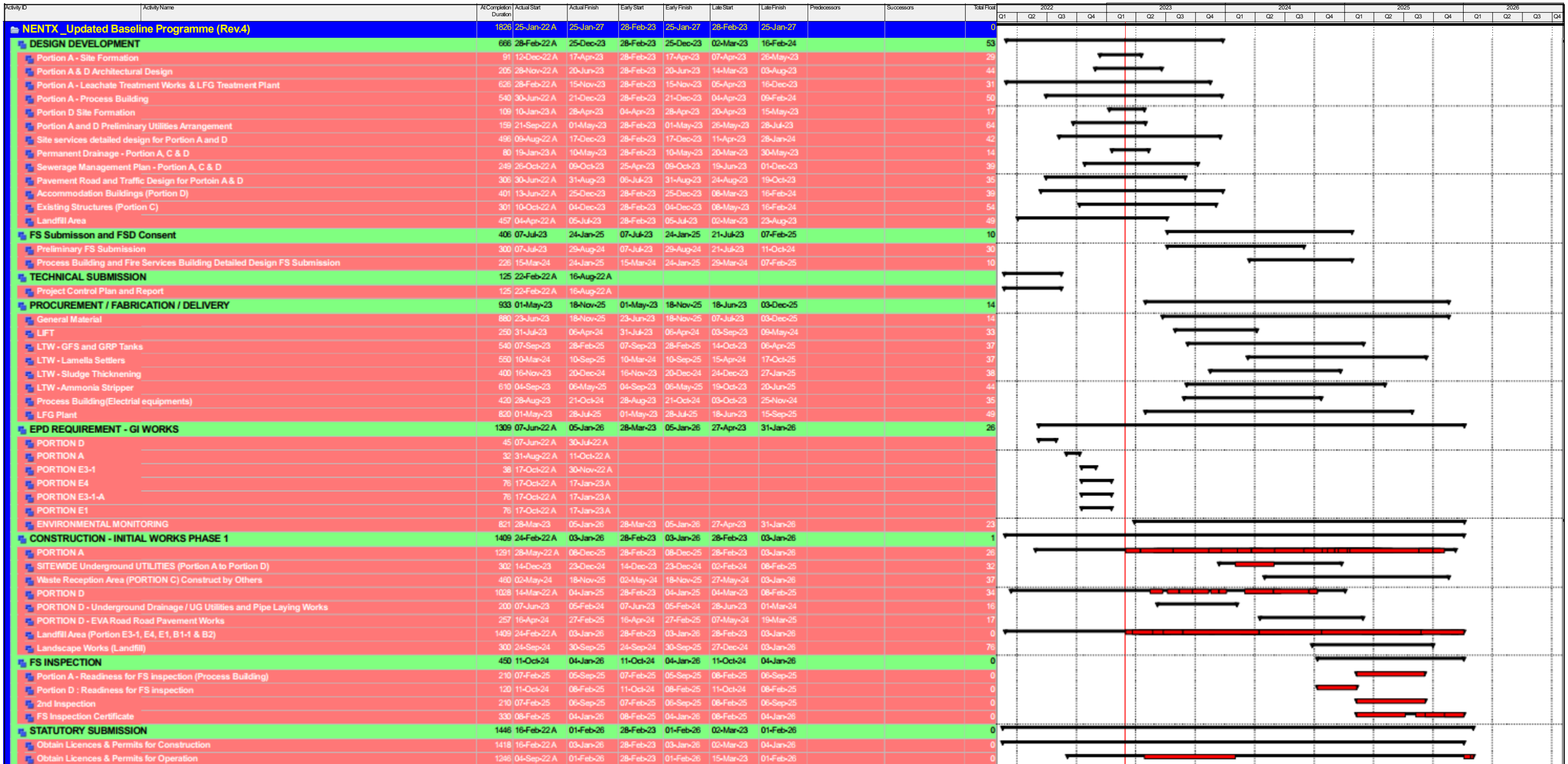


Figure 3 Landfill Gas Monitoring Locations



•

Appendix A Construction Programme & Construction Activities

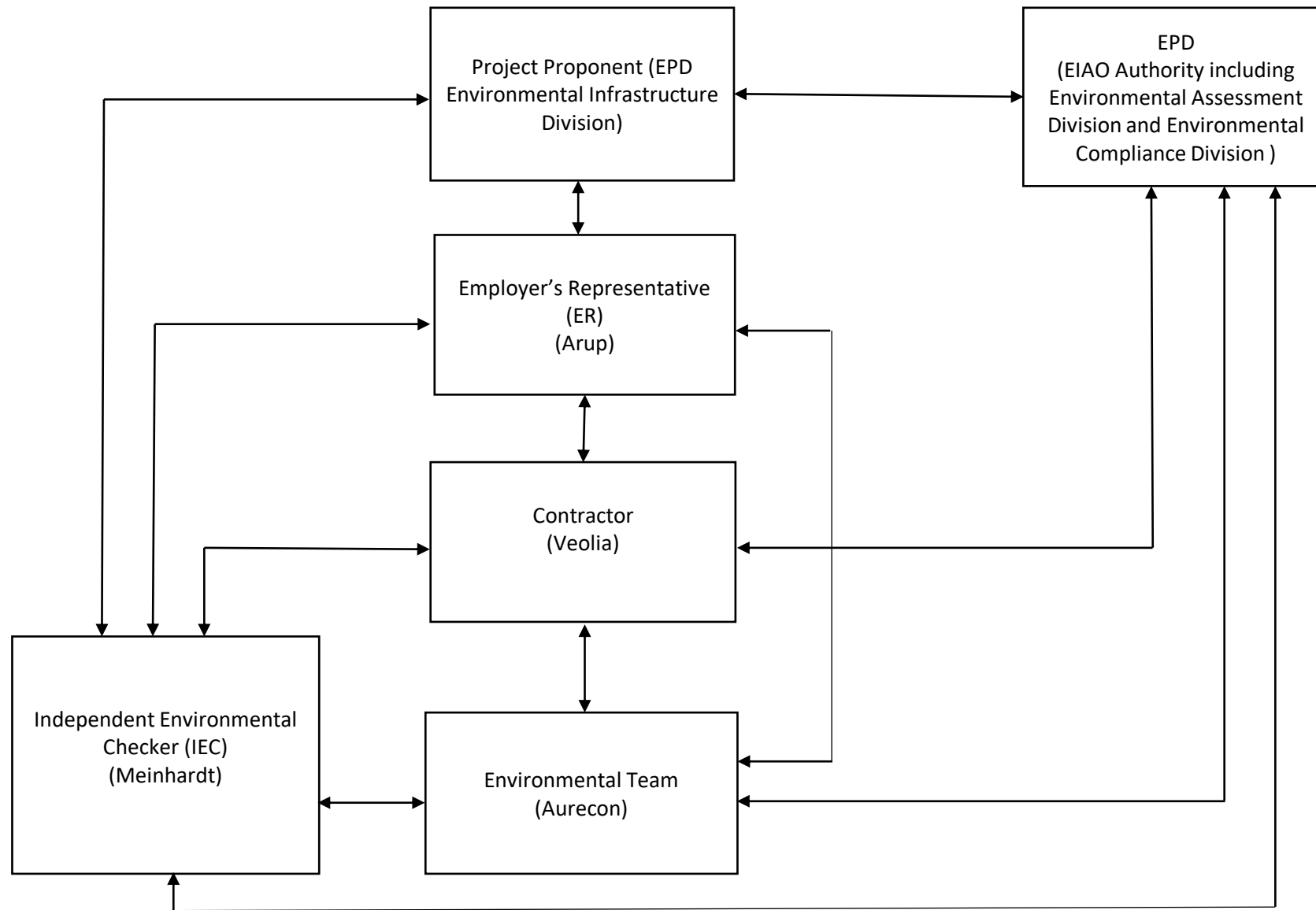


Construction Activities	Where	Who	What - ENV Impacts	Mitigation Measures
Material loading and unloading, backfilling of material, site traffic	Portion A, SBA to Alternative Disposal Ground	PCL	Dust, bringing mud to the common haul road	Speed limit, covering of materials and water spraying, lorry washing at the exit of the site
Construction of Site buildings	Portion D	PCL	Washout flowing to site water discharge point, dust emissions	Avoid the spillage of concrete, lorry washing at designated area, operation and maintenance of water treatment facility at discharge point
Site clearance	Portion A, Portion E3-1, Portion E4, Portion E1/B2	PCL	Wash out going to surface water channel and site water discharge point, generation of yard waste	Cover exposed slope by tarpaulin, diversion of surface water, operation and maintenance of water treatment facility at discharge point, implementation of trip ticket system
Installation of permanent fencing	Portion A, Portion B1, Portion E4	PCL	Dust	Covering of cement storage area, enclosure of mixing area
Site formation	Portion A, Portion E3-1, Portion E4, Portion E1/B2	PCL	Generation of C&D waste	Implementation of trip ticket system, waste recycling, internal waste transfer
Tree Felling	Whole site	PCL	Generation of yard waste	Implementation of trip ticket system, waste recycling, internal waste transfer
Shotcreting (permanent and temporary)	Whole site	PCL	Dust	Covering of cement storage area, enclosure of mixing area
Soil Nail Installation	Portion A, E1/B2, E4	PCL	Dust	Covering of cement storage area, enclosure of mixing area, watering during works, install dust screen at work area
Installation of minipile	Portion A	PCL	Dust, generation of muddy water	Use of dust shield, regular watering, construct proper drainage to divert muddy water to treatment facility
Construction of RE Wall	Portion E3-1	PCL	Dust	Regular watering

Remark:

PCL is the Sub-contractor for this project

Appendix B Project Organization Chart & Management Structure



Notes:

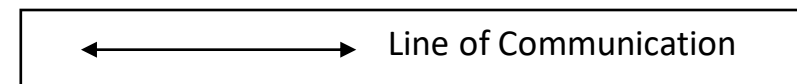
EPD - Environmental Protection Department

Arup – Ove Arup & Partners Limited

Veolia - Veolia Environmental Services Hong Kong Limited

Meinhardt - Meinhardt Infrastructure And Environment Limited

Aurecon - Aurecon Hong Kong Limited



Appendix C Detail Status of FEP & EP Submission

Detail Status of Submissions required under the FEP & EP

FEP Condition	EP Condition	Submission / Measures	Status
2.1	2.3	Management Organization of Main Construction Companies	Submission Date (12 Oct 2022)
2.2	2.4	Setting up of Community Liaison Group (CLG)	Submission Date (12 Oct 2022) 1 st CLG meeting (12 Jan 2023)
2.3	2.5	Submission of EM&A Manual	Submission Date (12 Oct 2022)
2.4	2.6	Submission of Preservation of Cultural Landscape Features	Survey and Preservation of Grave Records: Submission Date (15 Oct 2022) Survey and Preservation of Boulder Paths: Submission Date (12 Oct 2022)
2.5	2.7	Submission of Vegetation Survey (Transplantation Proposal)	Submission Date (2 Sep2022)
2.6	2.8	Submission of translocation proposal	Submission Date (8 Jul 2022)
2.7	2.9	Submission of Transplantation Report and Post-Transplantation Monitoring	Submission Date (19 Jan 2023) 1 st monitoring (24 Nov 2022) 2 nd monitoring (9 Dec 2022) 3 rd monitoring (21 Dec 2022) 4 th monitoring (13 Jan 2023) 5 th monitoring (26 Jan 2023) 6 th monitoring (8 Feb 2023) 7 th monitoring (24 Feb 2023) 8 th monitoring (20 Mar 2023) 9 th monitoring (21 Apr 2023) 10 th monitoring (12 May 2023) 11 th monitoring (16 Jun 2023) 12 th monitoring (18 Jul 2023) 13 th monitoring (11 Aug 2023) 14 th monitoring (15 Sep 2023) 15 th monitoring (13 Oct 2023)

FEP Condition	EP Condition	Submission / Measures	Status
2.8	2.10	Submission of Translocation Report and Post-Translocation Monitoring	Translocation was carried out in July 2022 Submission Date (27 Dec 2022) 1st monitoring (29 Aug 2022) 2nd monitoring (28 Sep 2022) 3rd monitoring (28 Oct 2022) 4th monitoring (22 Nov 2022) 5th monitoring (29 Dec 2022) 6th monitoring (30 Jan 2023) 7th monitoring (24 Feb 2023) 8th monitoring (20 Mar 2023) 9th monitoring (19 Apr 2023) 10th monitoring (17 May 2023) 11th monitoring (7 Jun 2023) 12th monitoring (12 Jul 2023)
2.9	2.11	Submission of Detailed Landfill Gas Hazard Assessment Report	Submission Date (6 Oct 2022)
2.10	2.12	Submission of Waste Management Plan	Submission Date (30 Dec 2022)
3.2	3.2	Submission of Baseline Monitoring Report	Submission Date (30 Nov 2022)

FEP Condition	EP Condition	Submission / Measures	Status
3.3	3.3	Submission of Monthly EM&A Report	1 st report (Dec 2022) 2 nd report (Jan 2023) 3 rd report (Feb 2023) 4 th report (Mar 2023) 5 th report (Apr 2023) 6 th report (May 2023) 7 th report (Jun 2023) 8 th report (Jul 2023) 9 th report (Aug 2023) 10 th report (Sep 2023) 11 th report (Oct 2023) 12 th report (Nov 2023) 13 th report (Dec 2023) 14 th report (Jan 2024) 15 th report (Feb 2024) 16 th report (Mar 2024) 17 th report (Apr 2024) 18 th report (May 2024) 19 th report (Jun 2024) 20 th report (Jul 2024) 21 st report (Aug 2024) 22 nd report (Sep 2024) 23 rd report (Oct 2024) 24 th report (Nov 2024) 25 th report (Dec 2024) 26 th report (Jan 2025) 27 th report (Feb 2025) 28 th report (Mar 2025) 29 th report (Apr 2025) 30 th report (May 2025)

Appendix D Monitoring Schedule for Reporting Month & Next Month

Impact Monitoring Schedule for NENT Landfill Extension (May 2025) (version 2.0)

5-2025						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
27	28 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	29	30	1	2	3 Air quality monitoring at AM1, AM2 and AM3
4	5	6	7	8 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	9	10
11	12	13 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a Surface water quality monitoring at WM1 & WM2	14	15	16	17
18	19 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	20	21	22	23	24 Air quality monitoring at AM1, AM2 and AM3
25	26	27	28	29	30 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	31

Remark:

1. The schedule is tentative only and would be subject to changes due to unforeseen circumstances.
2. Air quality monitoring includes 1-hour TSP and 24-hour TSP monitoring at AM1, AM2 and AM3 (Ref.: Table 3.1 of the approved EM&A Manual).
3. Noise monitoring includes 30-minute construction noise monitoring at NM1a and NM2a (Ref.: Table 4.1 of the approved EM&A Manual).
4. Surface water quality monitoring includes in-situ measurement and water sampling for laboratory analysis at WM1 and WM2 (Ref.: Table 5.5 and Section 5.5.6 of the approved EM&A Manual).
5. Please arrange a Veolia staff to accompany our staff(s) to each locations for every monitoring.

6-2025						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
1	2	3	4	5 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	6	7
8	9	10	11 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a Surface water quality monitoring at WM1 & WM2	12	13	14
15	16	17 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	18	19	20	21
22	23 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	24	25	26	27	28 Air quality monitoring at AM1, AM2 and AM3
29	30	1	2	3	4	5

Remark:

1. The schedule is tentative only and would be subject to changes due to unforeseen circumstances.

2. Air quality monitoring includes 1-hour TSP and 24-hour TSP monitoring at AM1, AM2 and AM3 (Ref.: Table 3.1 of the approved EM&A Manual).

3. Noise monitoring includes 30-minute construction noise monitoring at NM1a and NM2a (Ref.: Table 4.1 of the approved EM&A Manual).

4. Surface water quality monitoring includes in-situ measurement and water sampling for laboratory analysis at WM1 and WM2 (Ref.: Table 5.5 and Section 5.5.6 of the approved EM&A Manual).

5. Please arrange a Veolia staff to accompany our staff(s) to each locations for every monitoring.

Appendix E Calibration Certificates

Air Quality

Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipment

Verification Test Date:	13-Sep-24	to	14-Sep-24	Next Verification Test Date:	12-Sep-25
Unit-under-Test- Model No.:	Sibata LD-5R				
Unit-under-Test Serial No.:	0Z4545				
Our Report Reference No.:	RPT-23-HVS-0065				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	13-Sep-24	16-Jan-24
Next Calibration Date:	12-Sep-25	15-Jan-25

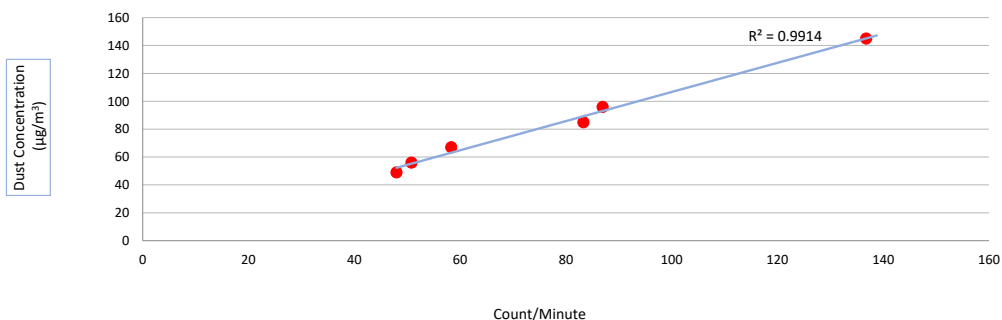
Equipment Verification Result

Verification Test No.	Date	Duration			Results from Calibrated Equipment		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration ($\mu\text{g}/\text{m}^3$) y-axis
1	28/11/23	8789.68	8792.68	180.00	15648	87	96
2	28/11/23	8792.68	8795.68	180.00	14993	83	85
3	28/11/23	8795.68	8798.68	180.00	8635	48	49
4	30/11/23	8798.68	8801.68	180.00	10501	58	67
5	30/11/23	8801.68	8804.68	180.00	24622	137	145
6	30/11/23	8804.68	8807.68	180.00	9145	51	56

Linear Regression of y on x

Slope, K factor:	<u>1.0451</u>	Intercept:	<u>2.1545</u>	*Correlation Coefficient, R:	<u>0.9957</u>
Verification Test Result:	<u>Strong Correlation, Results were accepted.</u>				* If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.

Verification Curve



Operated By:

Andy Li

Project Technician, Environmental

Date: 14-09-2024

Checked By:

Tandy Tse

Senior Consultant, Environmental

Date: 14-09-2024

Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipment

Verification Test Date:	13-Sep-24	to	14-Sep-24	Next Verification Test Date:	12-Sep-25
Unit-under-Test- Model No.:	Sibata LD-5R				
Unit-under-Test Serial No.:	882106				
Our Report Reference No.:	RPT-23-HVS-0068				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

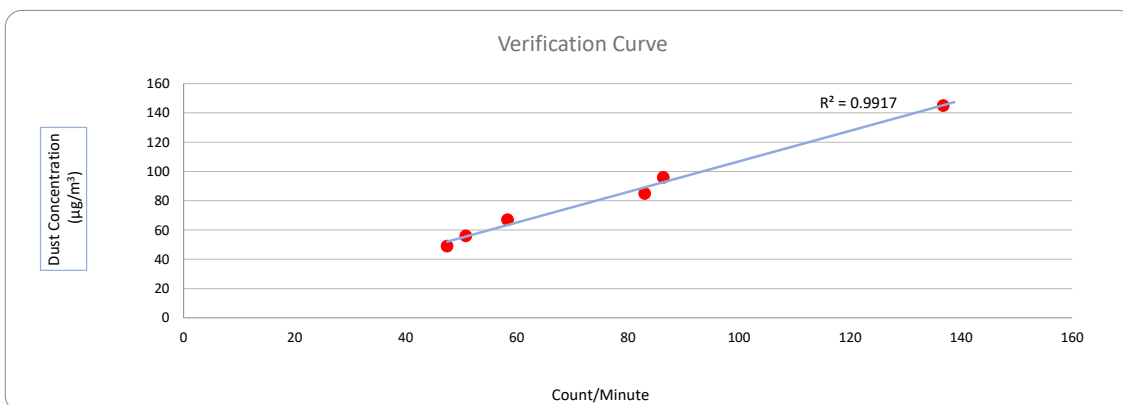
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	13-Sep-24	16-Jan-24
Next Calibration Date:	12-Sep-25	15-Jan-25

Equipment Verification Result

Verification Test No.	Date	Duration			Results from Calibrated Equipment		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration ($\mu\text{g}/\text{m}^3$) y-axis
1	28/11/23	8789.68	8792.68	180.00	15546	86	96
2	28/11/23	8792.68	8795.68	180.00	14944	83	85
3	28/11/23	8795.68	8798.68	180.00	8543	47	49
4	30/11/23	8798.68	8801.68	180.00	10499	58	67
5	30/11/23	8801.68	8804.68	180.00	24622	137	145
6	30/11/23	8804.68	8807.68	180.00	9145	51	56

Linear Regression of y on x

Slope, K factor:	<u>1.0437</u>	Intercept:	<u>2.4993</u>	*Correlation Coefficient,R:	<u>0.9958</u>
Verification Test Result:	<u>Strong Correlation, Results were accepted.</u>			* If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.	



Operated By:

Andy Li

Project Technician, Environmental

Date: 14-09-2024

Checked By:

Tandy Tse

Senior Consultant, Environmental

Date: 14-09-2024

Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipment

Verification Test Date:	13-Sep-24	to	14-Sep-24	Next Verification Test Date:	12-Sep-25
Unit-under-Test- Model No.:	Sibata LD-5R				
Unit-under-Test Serial No.:	942532				
Our Report Reference No.:	RPT-23-HVS-0071				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

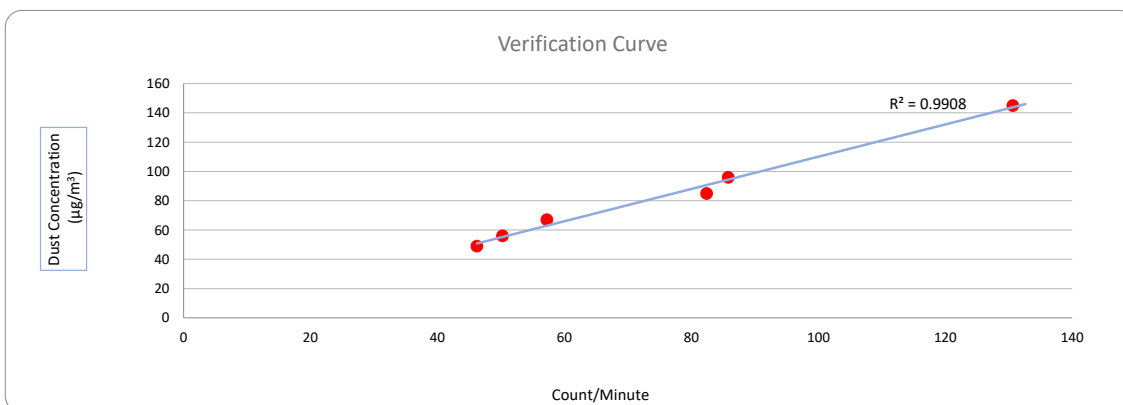
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	13-Sep-24	16-Jan-24
Next Calibration Date:	12-Sep-25	15-Jan-25

Equipment Verification Result

Verification Test No.	Date	Duration			Results from Calibrated Equipment		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration ($\mu\text{g}/\text{m}^3$) y-axis
1	28/11/23	8789.68	8792.68	180.00	15446	86	96
2	28/11/23	8792.68	8795.68	180.00	14835	82	85
3	28/11/23	8795.68	8798.68	180.00	8320	46	49
4	30/11/23	8798.68	8801.68	180.00	10303	57	67
5	30/11/23	8801.68	8804.68	180.00	23517	131	145
6	30/11/23	8804.68	8807.68	180.00	9043	50	56

Linear Regression of y on x

Slope, K factor:	1.1020	Intercept:	-0.1223	*Correlation Coefficient,R:	0.9954
Verification Test Result:	<u>Strong Correlation, Results were accepted.</u>				* If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.



Operated By:

Andy Li

Project Technician, Environmental

Date: 14-09-2024

Checked By:

Tandy Tse

Senior Consultant, Environmental

Date: 14-09-2024

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Representative For Tung Lo Hang	Site ID:	AM1	Cal Date:	7/4/2025
				Exp Date:	6/6/2025
Serial No:	1105	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	763.0	Actual Temperature during Calibration (T_a) (deg K):	295.0
---	-------	--	-------

Calibration Orifice

Model:	TE-5025A	Slope (m_c):	2.06920
Serial No.:	3465	Intercept (b_c):	-0.02547
Calibration Due Date:	15-Jan-25	Corr. Coeff:	0.99999

Calibration Data

Plate or Test #	ΔH_2O (in)	Q_a , X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	8.20	1.406	61.0	61.43
13	7.40	1.336	59.0	59.42
10	6.50	1.253	54.0	54.38
7	4.60	1.056	44.0	44.31
5	3.40	0.910	39.0	39.28

Sampler Calibration Relationship (Q_a on x-axis, IC on y-axis)

$m =$ 46.7159

$b =$ -3.9338

Corr. Coeff= 0.9963

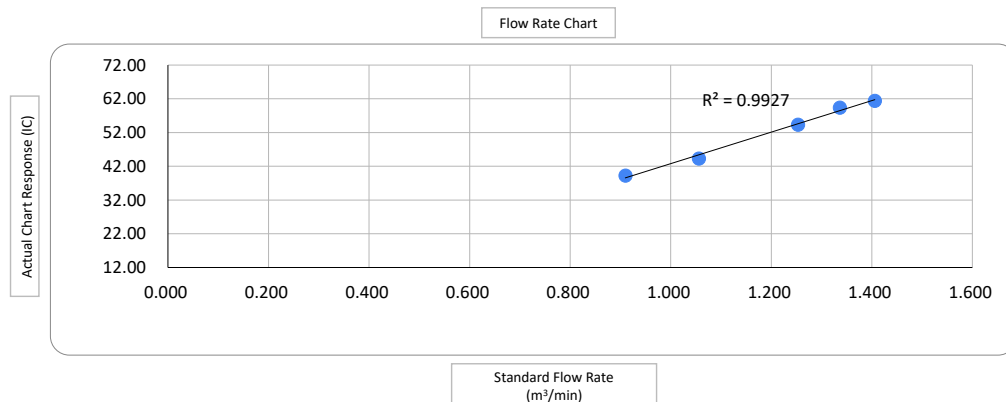
Calculations

$$Q_a = 1/m_c [\text{Sqrt}(\Delta H_2O * (P_a/P_{std}) * (T_{std}/T_a)) - b_c]$$

$$IC = I * (\text{Sqrt}(P_a/P_{std}) * (T_{std}/T_a))$$

Q_a = actual flow rate
 IC = corrected chart response
 I = actual chart response
 m_c = calibrator slope
 b_c = calibrator intercept

m = sampler slope
 b = sampler intercept
 T_{std} = 298 deg K
 P_{std} = 760 mm Hg
 T_a = actual temperature during calibration (deg K)
 P_a = actual pressure during calibration (mm Hg)



Checked by: F.C Tsang
 Monitoring Team Leader

Date: 08-Apr-2025

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Representative For Heung YuenWai	Site ID:	AM2	Cal Date:	7/4/2025
				Exp Date:	6/6/2025
Serial No:	1106	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	763.0	Actual Temperature during Calibration (T_a) (deg K):	295.0
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Calibration Orifice

Model:	TE-5025A	Slope (m_c):	2.06920
Serial No.:	3465	Intercept (b_c):	-0.02547
Calibration Due Date:	15-Jan-25	Corr. Coeff:	0.99999

Calibration Data

Plate or Test #	ΔH_2O (in)	Q_a , X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	8.30	1.414	61.0	61.43
13	7.30	1.327	58.0	58.41
10	6.80	1.281	56.0	56.40
7	4.40	1.033	44.0	44.31
5	3.00	0.855	40.0	40.28

Sampler Calibration Relationship (Q_a on x-axis, IC on y-axis)

$m =$ 39.8884

$b =$ 5.0044

Corr. Coeff= 0.9923

Calculations

$$Q_a = 1/m_c * [\text{Sqrt}(\Delta H_2O * (P_a/P_{std}) * (T_{std}/T_a)) - b_c]$$

$$IC = I * (\text{Sqrt}(P_a/P_{std}) * (T_{std}/T_a))$$

Q_a = actual flow rate

IC = corrected chart response

I = actual chart response

m_c = calibrator slope

b_c = calibrator intercept

m = sampler slope

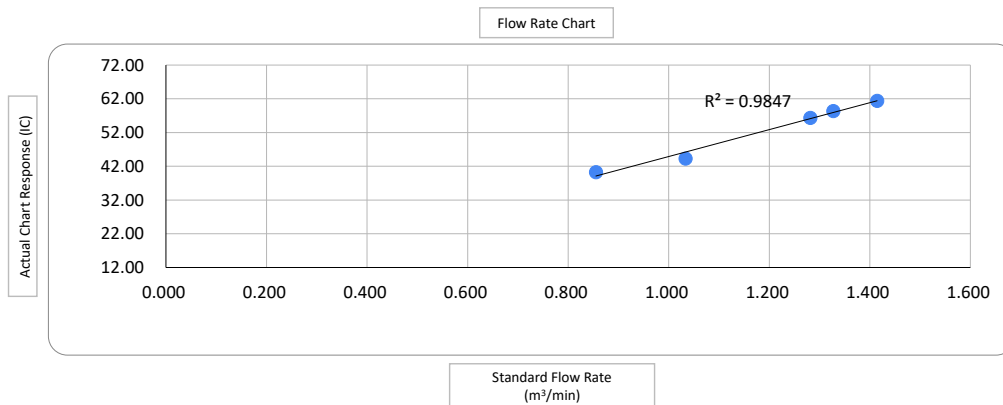
b = sampler intercept

T_{std} = 298 deg K

P_{std} = 760 mm Hg

T_a = actual temperature during calibration (deg K)

P_a = actual pressure during calibration (mm Hg)



Checked by: F.C Tsang
Monitoring Team Leader

Date: 08-Apr-2025

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Representative For Wo Keng Shan Tsuen	Site ID:	AM3	Cal Date:	7/4/2025
				Exp Date:	6/6/2025
Serial No:	1856	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	763.0	Actual Temperature during Calibration (T_a) (deg K):	295.0
---	-------	--	-------

Calibration Orifice

Model:	TE-5025A	Slope (m_c):	2.08107
Serial No.:	3465	Intercept (b_c):	-0.04295
Calibration Due Date:	2-Dec-25	Corr. Coeff:	0.99999

Calibration Data

Plate or Test #	ΔH_2O (in)	Q_a , X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	8.80	1.456	59.0	59.42
13	7.10	1.310	56.0	56.40
10	7.00	1.301	54.0	54.38
7	4.80	1.081	46.0	46.32
5	3.20	0.886	40.0	40.28

Sampler Calibration Relationship (Q_a on x-axis, IC on y-axis)

$m = 34.9380$

$b = 9.1946$

Corr. Coeff = 0.9940

Calculations

$$Q_a = 1/m_c \cdot [\text{Sqrt}(\Delta H_2O \cdot (P_a/P_{\text{Std}}) \cdot (T_{\text{Std}}/T_a)) - b_c]$$

$$IC = I \cdot (\text{Sqrt}(P_a/P_{\text{Std}}) \cdot (T_{\text{Std}}/T_a))$$

Q_a = actual flow rate

IC = corrected chart response

I = actual chart response

m_c = calibrator slope

b_c = calibrator intercept

m = sampler slope

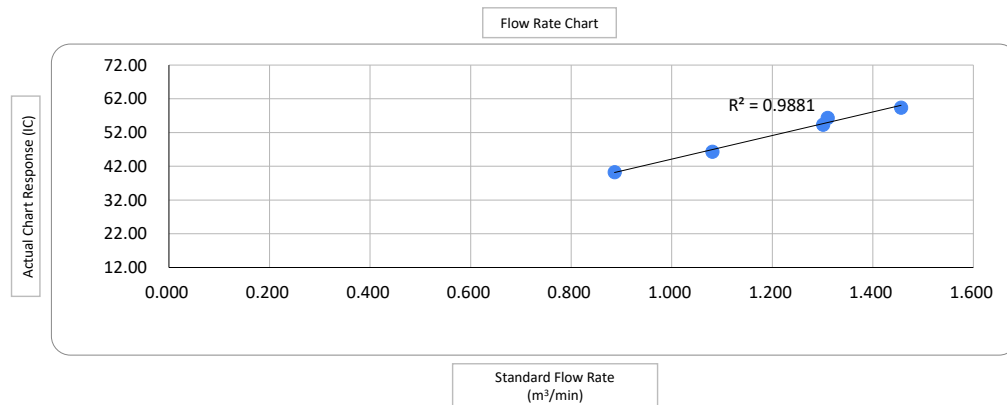
b = sampler intercept

T_{Std} = 298 deg K

P_{Std} = 760 mm Hg

T_a = actual temperature during calibration (deg K)

P_a = actual pressure during calibration (mm Hg)



Checked by: F.C Tsang
Monitoring Team Leader

Date: 08-Apr-2025



Certificate of Calibration

Calibration Certification Information

Cal. Date: December 2, 2024 Rootsmeter S/N: 438320 Ta: 293 °K
Operator: Jim Tisch Pa: 757.4 mm Hg
Calibration Model #: TE-5025A Calibrator S/N: **3465**

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4300	3.2	2.00
2	3	4	1	1.0190	6.4	4.00
3	5	6	1	0.9090	7.9	5.00
4	7	8	1	0.8680	8.8	5.50
5	9	10	1	0.7170	12.8	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis)
1.0093	0.7058	1.4238	0.9958	0.6963	0.8796
1.0051	0.9863	2.0136	0.9916	0.9731	1.2439
1.0031	1.1035	2.2512	0.9896	1.0886	1.3907
1.0018	1.1542	2.3611	0.9884	1.1387	1.4586
0.9965	1.3898	2.8476	0.9831	1.3711	1.7592
QSTD	m=	2.08107	QA	m=	1.30313
	b=	-0.04295		b=	-0.02653
	r=	0.99999		r=	0.99999

Calculations

Vstd =	$\Delta Vol((Pa-\Delta P)/Pstd)(Tstd/Ta)$	Va =	$\Delta Vol((Pa-\Delta P)/Pa)$
Qstd =	$Vstd/\Delta Time$	Qa =	$Va/\Delta Time$
For subsequent flow rate calculations:			
Qstd =	$1/m \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b \right)$	Qa =	$1/m \left(\left(\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)} \right) - b \right)$

Standard Conditions

Tstd:	298.15 °K
Pstd:	760 mm Hg
Key	
ΔH: calibrator manometer reading (in H2O)	
ΔP: rootsmeter manometer reading (mm Hg)	
Ta: actual absolute temperature (°K)	
Pa: actual barometric pressure (mm Hg)	
b: intercept	
m: slope	

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

Noise

Certificate of Calibration

for

Description: *Sound Level Meter*
Manufacturer: *NTi Audio*
Type No.: *XL2 (Serial No.: A2A-13661-E0)*
Microphone: *ACO 7052 (Serial No.:84464)*
Preamplifier: *NTi Audio MA220 (M2211) (Serial No.:5287)*

Submitted by:

Customer: *Aurecon Hong Kong Limited*
Address: *Unit 1608, 16/F, Tower B, Manulife Financial Centre,*
223-231 Wai Yip Street, Kwun Tong,
Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

- ☒ **Within (31.5Hz – 8kHz)**
☐ **Outside**

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 12 August 2024

Date of calibration: 13 August 2024

Date of NEXT calibration: 12 August 2025

Calibrated by: 
Calibration Technician

Certified by: 
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 13 August 2024

Certificate No.: APJ24-049-CC001



Page 1 of 4

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature: 23.3 °C
 Air Pressure: 1006 hPa
 Relative Humidity: 62.3 %

3. Calibration Equipment:

	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting		Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA SPL	Fast		94	1000	94.1	±0.4

Linearity

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting		Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA SPL	Fast		94	1000	94.0	Ref
				104		104.1	±0.3
				114		114.1	±0.3

Time Weighting

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting		Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA SPL	Fast		94	1000	94.0	Ref
		Slow				94.1	±0.3

Certificate No.: APJ24-049-CC001

Page 2 of 4

Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dB	SPL	94	31.5	94.1	±2.0
				63	94.1	±1.5
				125	94.1	±1.5
				250	94.0	±1.4
				500	94.1	±1.4
				1000	94.1	Ref
				2000	94.4	±1.6
				4000	95.0	±1.6
				8000	94.5	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA	SPL	94	31.5	54.7	-39.4±2.0
				63	67.9	-26.2±1.5
				125	77.9	-16.1±1.5
				250	85.4	-8.6±1.4
				500	90.9	-3.2±1.4
				1000	94.1	Ref
				2000	95.6	+1.2±1.6
				4000	96.0	+1.0±1.6
				8000	93.4	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBC	SPL	94	31.5	91.1	-3.0±2.0
				63	93.3	-0.8±1.5
				125	93.9	-0.2±1.5
				250	94.0	-0.0±1.4
				500	94.1	-0.0±1.4
				1000	94.1	Ref
				2000	94.2	-0.2±1.6
				4000	94.2	-0.8±1.6
				8000	91.5	-3.0+2.1; -3.1

Certificate No.: APJ24-049-CC001



Page 3 of 4

5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.10
	125 Hz	± 0.10
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate No.: APJ24-049-CC001



Page 4 of 4

Certificate of Calibration

for

Description: **Sound Level Calibrator**

Manufacturer: **RION**

Type No.: **NC-75**

Serial No.: **34724245**

Submitted by:

Customer: **Aurecon Hong Kong Limited**

Address: **Unit 1608, 16/F, Tower B, Manulife Financial Centre,
223-231 Wai Yip Street, Kwun Tong,
Kowloon, Hong Kong**

Upon receipt for calibration, the instrument was found to be:

☒ **Within**

☐ **Outside**

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 22 July 2024

Date of calibration: 24 July 2024

Date of NEXT calibration: 23 July 2025

Calibrated by:


Calibration Technician

Certified by:


Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 24 July 2024



Certificate No.: APJ23-154-CC003

Page 1 of 2

1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature: 23.4 °C
Air Pressure: 1005 hPa
Relative Humidity: 56.7 %

4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV230128	HOKLAS

5. Calibration Results**5.1 Sound Pressure Level**

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	94.0

Note:

The values given in this certification only related to the values measured at the time of the calibration.





Cal Lab Limited 校正實驗室有限公司

Room 2103, Technology Plaza, 29-35 Sha Tsui Road,
Tsuen Wan, NT, Hong Kong

Tel: +852 25680106 Email: info@callab.com.hk

Fax: +852 30116194 Website: www.callab.com.hk



Calibration Certificate No.: CC0182502

Information provided by customer

Customer: Aurecon Hong Kong Limited

Address: Unit 1608, 16/F, Tower B, Manulife Financial Centre, 222-231 Wai Yip Street, Kwun Tong, Hong Kong

Equipment identification provided by customer

Equipment Description	Manufacturer	Model No.	Serial No.	Assigned equipment No.
Air Velocity Meter	UNI-T	UT363	C222415356	A-02

Certificate Information

Date of Receipt:	12 February 2025	Calibration Condition:	22.4°C, 54%RH, 1011hPa
Date of Calibration:	18 February 2025	Adjustment:	N/A
Recommended Next Cal. Date:	N/A	Appearance:	Good
Calibration Procedure:	SOP-112	Remark:	N/A

Reference Equipment Identification

Equipment Description	Model	Serial No.	Expiration Date
Hot Wire Anemometer	405-V1	41576231	17 July 2026

Result of Calibration

Air Velocity

Reference Reading (m/s)	Measured Reading (m/s)	Error (m/s)	Uncertainty (%)	Technical Requirement	Technical Reference Doc.
1.04	1.0	0.0	3.6	± 5 %	Mfr's Spec.
2.02	2.1	0.1	3.6	± 5 %	Mfr's Spec.
4.98	5.1	0.1	3.6	± 5 %	Mfr's Spec.
8.01	8.2	0.2	3.6	± 5 %	Mfr's Spec.

CT-AFR-01

- Note1: The estimated expanded uncertainties have been calculated in "Evaluation and expression of uncertainty in measurement" and give an internal estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.
- Note2: The standard (s) and instrument used in the calibration are traceable to national or international recognized standard and are calibrated on a schedule to maintain the accuracy and good condition.
- Note3: The result 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.
- Note4: The result shows in this calibration certificate relate only to the item calibrated, and the result only applies to the calibration item as received.

Calibrated By:

Wing Cheng

Checked and Approved By:

Warren Yeung

Company Chop:



Certificate Issue Date: 20 February 2025

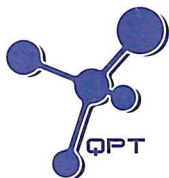
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- The certificate is issued subject to the latest Terms and Conditions, available at our web site

CC0182502
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Water Quality



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BE030347

Date of Issue : 03 April 2025

Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit 1608, 16/F, Tower B, Manulife Fin. Centre 223 - 231 Wai Yip Street, Kwun Tong,

Kowloon (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi Parameters)

Manufacturer : YSI

Serial Number : 22D100436

Date of Received : 31 March 2025

Date of Calibration : 01 April 2025

Date of Next Calibration : 30 June 2025

Request No. : D-BE030347

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method

pH value APHA 21e 4500-H⁺ B

Temperature Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure

Dissolved oxygen APHA 23e 4500-O G (Membrane Electrode Method)

Salinity APHA 21e 2520 B

Turbidity APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance (pH unit)	Result
4.00	4.16	0.16	Satisfactory
7.42	7.50	0.08	Satisfactory
10.01	10.07	0.06	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading	Tolerance	Result
9.7	9.9	0.2	Satisfactory
19.5	19.4	-0.1	Satisfactory
32.3	31.7	-0.6	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

(3) Dissolved oxygen

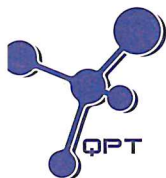
Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance (mg/L)	Result
9.28	9.36	0.08	Satisfactory
6.21	6.08	-0.13	Satisfactory
3.32	3.16	-0.16	Satisfactory
0.01	0.12	0.11	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED
SIGNATORY:

FUNG Yuen-ching
Laboratory Manager



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BE030347

Date of Issue : 03 April 2025

Page No. : 2 of 2

PART D - CALIBRATION RESULT

(4) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.77	-2.3	Satisfactory
20	19.59	-2.05	Satisfactory
30	29.31	-2.3	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance ^(a) (%)	Result
0	0.17	-	Satisfactory
10	10.76	7.6	Satisfactory
20	19.14	-4.3	Satisfactory
100	94.58	-5.42	Satisfactory
800	732.96	-8.38	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

^(a) For O NTU, Display Reading should be less than 1 NTU

Remark(s): -

- The "Date of Next Calibration" is recommended according to best practice principles followed by QPT or relevant international standards.
- The results relate only to the calibrated equipment as received.
- The performance of the equipment stated in this report is checked using independent reference material, with results compared against a calibrated secondary source. "Displayed Reading" denotes the figure shown on the item under calibration/checking, regardless of equipment precision or significant figures.
- The "Tolerance Limit" mentioned is the acceptance criteria applicable to similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.

--- END OF REPORT ---



Cal Lab Limited 校正實驗室有限公司

Room 2103, Technology Plaza, 29-35 Sha Tsui Road,

Tsuen Wan, NT, Hong Kong

Tel: +852 25680106 Email: info@callab.com.hk

Fax: +852 30116194 Website: www.callab.com.hk

Calibration Certificate No.: CC0172502

Information provided by customer

Customer: Acumen Laboratory and Testing Limited

Address: Workshop 04, 7/F, The Whitney, No. 183 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Equipment Identification provided by customer

Equipment Description	Manufacturer	Model No.	Serial No.	Assigned equipment No.
Flow Probe	Global Water	FP111	22K100859	N/A

Certificate Information

Date of Receipt: 10 February 2025

Date of Calibration: 11 February 2025

Due Date of Calibration: N/A

Calibration Procedure: JJG 1030-2007

Calibration Condition: 21.7°C, 52%RH, 1008hPa

Adjustment: N/A

Appearance: Good

Remark: N/A

Reference Equipment Identification

Equipment Description	Model	Serial No.	Expiration Date
Water Flow Meter	GW8100	20240628GW8100-P165	13 November 2025

Result of Calibration

Water Flow Rate

Reference Reading (m/s)	Measured Reading (m/s)	Error (m/s)	Uncertainty (%)
0.00	0.0	N/A	N/A
1.03	1.1	-0.07	5.8
2.92	3.0	-0.08	5.8
5.06	5.0	0.06	5.8

Note1: The estimated expanded uncertainties have been calculated in "Evaluation and expression of uncertainty in measurement" and give an internal estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Note2: The standard (s) and instrument used in the calibration are traceable to national or international recognized standard and are calibrated on a schedule to maintain the accuracy and good condition.

Note3: The result 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.

Note4: The result shows in this calibration certificate relate only to the item calibrated, and the result only applies to the calibration item as received.

Note5: Calibration item/ parameter marked with * is out of scope of Cal Lab Limited (A2LA 3815.01).

Calibrated By:

Wing Cheng

Checked and Approved By:

Warren Yeung

Company Chop:



Certificate Issue Date: 12 February 2025

CT-BEG-04

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2. The certificate is issued subject to the latest Terms and Conditions, available at our web site

CC0172502

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Landfill Gas

Asia Pacific Industrial Safety Equipment

Tel: 2592 2100

Fax: 3165 8960

Calibration Certificate

Cert. Ref. No.: BLS/G7C/01/1283

Date: 27/1/2025

Customer: New Concepts Eng Dev Ltd

Attn: Victor

Tel: 9840 3136

Fax:

User Details:

Gas Detector Model: Blackline Safety G7C-EU2

Serial No:

3571220922

CART ID: 334341

Calibration Record:

Act. Code:

L6R 7HB

Inspection before calibration	Visual inspection	Functional Test
Basic Unit - Case, Clip & Display etc.	OK	OK
Battery and charge etc.	OK	OK
Motorized Pump	OK	OK
Other items	-	-

Type of Sensor	Expiry Date
Oxygen Sensor	
CO Sensor	
H2S Sensor	
Combustible (LEL) Sensor	
Carbon Dioxide (CO2) Sensor	

Type of calibration	Date of calibration	H2S (ppm)	CO (ppm)	O2 (%)	LEL (%)	CO2 (ppm)
SENSOR Calibration	17/2/2025	25	100	18	50	5000
		OK	OK	OK	OK	OK

Calibration remarks:

Battery full recharge needed. Warning: Battery health and accuracy of LEL-MPS & Oxygen sensor's reading could adversely affected in prolonged low battery state.

Blackline Safety Recommended Next Calibration Date*:

26/7/2025

*The calibration Schedule can be configured to match your company's safety policy

and Blackline Safety recommends not exceeding 180 days without a calibration

IMPORTANT NOTES TO Blackline Safety GAS DETECTOR USERS

USERS MUST READ THE OPERATOR'S MANUAL THOROUGHLY BEFORE OPERATING THIS EQUIPMENT AND FOLLOW THEIR OWN SAFETY SUPERVISOR'S INSTRUCTION TO WORK.

All gas detection instrumentation on the market requires periodic calibration to accurately measure gas. Calibration is only as accurate as the test gas used. Blackline Safety quality test gases are made to the highest accuracy and trace-ability to N.I.S.T. Standard.

Calibration By: -

Mind Lau

Services Hotline : 2592 2100



Appendix F Monitoring Results

Air Quality

1-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM1

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
03/05/2025	Sibata LD-5R	882106	1.0437	Fine	8:10	9:10	10:10	21	23	20	21	285	500
08/05/2025	Sibata LD-5R	0Z4545	1.0451	Fine	8:20	9:20	10:20	26	29	23	26		
13/05/2025	Sibata LD-5R	882106	1.0437	Fine	8:57	9:57	10:57	30	31	34	32		
19/05/2025	Sibata LD-5R	882106	1.0437	Fine	8:30	9:30	10:30	26	27	20	24		
24/05/2025	Sibata LD-5R	0Z4545	1.0451	Fine	8:11	9:11	10:11	29	28	26	28		
30/05/2025	Sibata LD-5R	882106	1.0437	Fine	8:35	9:35	10:35	23	30	25	26		
							Average	26					
							Max.	34					
							Min.	20					

1-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM2

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
03/05/2025	Sibata LD-5R	0Z4545	1.0451	Fine	8:21	9:21	10:21	40	42	42	41	279	500
08/05/2025	Sibata LD-5R	942532	1.1020	Fine	8:31	9:31	10:31	40	50	41	44		
13/05/2025	Sibata LD-5R	0Z4545	1.0451	Fine	8:30	9:30	10:30	36	41	44	40		
19/05/2025	Sibata LD-5R	0Z4545	1.0451	Fine	8:10	9:10	10:10	33	36	34	34		
24/05/2025	Sibata LD-5R	942532	1.1020	Fine	8:19	9:19	10:19	39	34	38	37		
30/05/2025	Sibata LD-5R	942532	1.1020	Fine	8:20	9:20	10:20	36	39	34	36		
Average								39					
Max.								50					
Min.								33					

1-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM3

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
03/05/2025	Sibata LD-5R	942532	1.1020	Fine	8:40	9:40	10:40	50	51	50	50	285	500
08/05/2025	Sibata LD-5R	882106	1.0437	Fine	8:45	9:45	10:45	50	53	51	51		
13/05/2025	Sibata LD-5R	942532	1.1020	Fine	8:44	9:44	10:44	55	56	53	55		
19/05/2025	Sibata LD-5R	942532	1.1020	Fine	8:00	9:00	10:00	41	45	49	45		
24/05/2025	Sibata LD-5R	882106	1.0437	Fine	8:36	9:36	10:36	49	48	49	49		
30/05/2025	Sibata LD-5R	0Z4545	1.0451	Fine	8:10	9:10	10:10	45	50	49	48		
							Average	50					
							Max.	56					
							Min.	41					

The Summary of TSP 24-hour Concentration (µg/m³) at Location AM1

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Averaged Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level	
		(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m³/min)	(m³)	Initial	Final	(g)	(µg/m³)	(µg/m³)	(µg/m3)	
03/05/2025	Fine	27.2	1009.5	5407.01	5431.01	1440	40	0.9	1345	2.7671	2.8774	0.1103	82	164	260	
08/05/2025	Fine	26.8	1007.9	5453.95	5477.95	1440	41	0.9	1359	2.7210	2.8276	0.1066	78			
13/05/2025	Fine	26.5	1012.6	5498.74	5522.74	1440	40	0.9	1350	2.7256	2.8393	0.1137	84			
19/05/2025	Fine	29.3	1009.2	5543.52	5567.52	1440	40	0.9	1341	2.7396	2.8496	0.1100	82			
24/05/2025	Fine	26.9	1011.7	5590.98	5614.98	1440	41	0.9	1364	2.7469	2.8552	0.1083	79			
30/05/2025	Fine	24.7	1008.3	5636.45	5660.45	1440	40	0.9	1349	2.7429	2.8454	0.1025	76			
													Average	80		
													Min	76		
													Max	84		

The Summary of 24-hour TSP Concentration (µg/m³) at Location AM2

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level	
		(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m³/min)	(m³)	Initial	Final	(g)	(µg/m³)	(µg/m³)	(µg/m3)	
03/05/2025	Fine	27.2	1009.5	5210.08	5234.08	1440	41	0.9	1271	2.7194	2.8320	0.1126	89	152	260	
08/05/2025	Fine	26.8	1007.9	5254.55	5278.55	1440	41	0.9	1287	2.7412	2.8440	0.1028	80			
13/05/2025	Fine	26.5	1012.6	5300.31	5324.31	1440	41	0.9	1295	2.7123	2.8367	0.1244	96			
19/05/2025	Fine	29.3	1009.2	5348.05	5372.05	1440	41	0.9	1283	2.7560	2.8739	0.1179	92			
24/05/2025	Fine	26.9	1011.7	5395.93	5419.93	1440	41	0.9	1275	2.7438	2.8505	0.1067	84			
30/05/2025	Fine	24.7	1008.3	5443.41	5467.41	1440	41	0.9	1275	2.7152	2.8241	0.1089	85			
													Average	88		
													Min	80		
													Max	96		

The Summary of 24-hour TSP Concentration (µg/m³) at Location AM3

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level	
		(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m³/min)	(m³)	Initial	Final	(g)	(µg/m³)	(µg/m³)	(µg/m3)	
03/05/2025	Fine	27.2	1009.5	6028.17	6052.17	1440	42	0.9	1319	2.7276	2.8530	0.1254	95	163	260	
08/05/2025	Fine	26.8	1007.9	6072.87	6096.87	1440	41	0.9	1297	2.7506	2.8651	0.1145	88			
13/05/2025	Fine	26.5	1012.6	6118.28	6142.28	1440	41	0.9	1306	2.7259	2.8591	0.1332	102			
19/05/2025	Fine	29.3	1009.2	6164.44	6188.44	1440	42	0.9	1313	2.7157	2.8464	0.1307	100			
24/05/2025	Fine	26.9	1011.7	6210.31	6234.31	1440	41	0.9	1303	2.7331	2.8562	0.1231	94			
30/05/2025	Fine	24.7	1008.3	6258.10	6282.10	1440	42	0.9	1324	2.6869	2.8075	0.1206	91			
													Average	95		
													Min	88		
													Max	102		

Remarks:
1. Orange Text equal to exceed Action Level
2. Red Text equal to exceed Limit Level

Noise

Impact Phase Construction Noise Monitoring Data at Location NM1a

Date	Weather	Wind speed	Start Time	End Time	L_{eq} (dB(A))							L_{10} (dB(A))						L_{90} (dB(A))								
		m/s			1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th			
08/05/2025	Fine	1.0	8:00	8:30	56.2	55.4	58.2	56.2	57.1	57.9	56.9	58.2	57.6	59.1	57.9	59.1	58.6	54.3	53.6	57.6	55.4	56.3	55.4			
13/05/2025	Fine	0.9	8:00	8:30	59.1	58.2	57.6	55.2	55.9	55.1	57.1	60.2	60.3	59.1	56.3	56.9	56.1	57.1	56.6	55.4	54.1	53.8	54.2			
19/05/2025	Fine	1.9	8:09	8:39	56.2	55.6	54.9	54.2	54.9	55.9	55.3	58.2	57.9	56.9	56.4	55.9	56.9	54.2	53.6	53.2	52.5	53.2	53.4			
30/05/2025	Fine	1.7	8:00	8:30	59.3	58.4	57.5	58.8	60.6	59.5	59.1	61.3	60.2	59.4	60.9	61.8	61.3	58.2	57.5	56.3	56.4	59.1	57.2			
								Average			57.3															
								Baseline Level			55.4															
								Action Level			When one valid documented complaint is received															
								Limit Level			75															

Impact Phase Construction Noise Monitoring Data at Location NM2a

Date	Weather	Wind speed	Start Time	End Time	L_{eq} (dB(A))							L_{10} (dB(A))						L_{90} (dB(A))					
		m/s			1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th
08/05/2025	Fine	0.5	11:20	11:50	51.2	50.6	48.1	49.2	49.3	49.5	49.8	52.6	51.5	49.6	51.2	51.9	52.2	49.4	48.1	47.2	47.6	47.9	48.1
13/05/2025	Fine	1.4	10:40	11:10	49.1	50.4	48.2	48.9	49.1	49.9	49.3	51.2	52.4	50.3	51.3	50.2	51.9	48.1	49.2	46.3	47.2	48.6	47.4
19/05/2025	Fine	1.4	10:10	10:40	49.2	48.6	48.7	50.1	47.3	47.9	48.7	50.2	49.4	50.4	51.6	49.4	49.2	48.2	47.6	47.6	49.9	46.3	46.2
30/05/2025	Fine	1.2	10:36	11:06	45.5	44.6	46.1	45.7	45.2	46.2	45.6	47.2	45.8	47.5	46.5	46.8	47.3	42.5	43.3	45.4	44.7	43.2	44.6
								Average		48.6													
								Baseline Level		54.5													
								Action Level		When one valid documented complaint is received													
								Limit Level		75													

Water Quality

Monitoring Location: WM1

Date	Time	Weather	Water Depth (m)	Water Flow (L/s)	Water Temperature (°C)	DO (mg/L)			pH			Turbidity (NTU)			SS (mg/L)		
						Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level
13-May-25	9:41	Fine	0.1	0.1	21.9	7.6	<7.4	<4	6.2	>7.7	>7.8	2.4	>9.2	>9.5	5.5	>9.7	>11.4

Monitoring Location: WM2

Date	Time	Weather	Water Depth (m)	Water Flow (L/s)	Water Temperature (°C)	DO (mg/L)			pH			Turbidity (NTU)			SS (mg/L)		
						Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level
13-May-25	8:32	Fine	0.30	0.1	23.2	6.1	<5	<4	6.8	>7.6	>7.7	27.0	>108.3	>108.9	32.8	>94.5	>94.7

- Remarks
- 1. Sample will be grabbed on surface when the water depth is less than 1m.
 - 2. "TBC" equal to "To be confirm"
 - 3. Orange Text equal to exceed Action Level
 - 4. Red Text equal to exceed Limit Level



CERTIFICATE OF ANALYSIS

Client	: ACUMEN LABORATORY AND TESTING LIMITED	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 9
Contact	: MR. HUNTINGTON HUI	Contact	: Richard Fung	Work Order	: HK2518822
Address	: WORKSHOP 04, 7/F, THE WHITNEY NO.183 WAI YIP STREET, KWUN TONG, KOWLOON	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Huntington.Hui@aurecongroup.com	E-mail	: richard.fung@alsglobal.com		
Telephone	: ---	Telephone	: +852 2610 1044		
Facsimile	: ---	Facsimile	: +852 2610 2021		
Project	: NENTX			Date Samples Received	: 13-May-2025
Order number	: ---	Quote number	: HKE/2751/2022_V5	Issue Date	: 26-May-2025
C-O-C number	: ---			No. of samples received	: 2
Site	:			No. of samples analysed	: 2

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This document has been signed by those names that appear on this report and are the authorised signatories.

<i>Signatories</i>	<i>Position</i>	<i>Authorised results for</i>
		
Fung Lim Chee, Richard	Managing Director	Inorganics
		
Fung Lim Chee, Richard	Managing Director	Metals_ENV
		
Ng Sin Kou, May	Laboratory Manager	Microbiology_ENV



General Comments

This report supersedes any previous report(s) with the same work order number. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 13-May-2025 to 26-May-2025.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2518822

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Microbiological sample(s) was/ were collected in 250mL sterile plastic bottles containing sodium thiosulfate. Sample(s) arrived at the laboratory at 11:15.

NOT DETECTED denotes result(s) is (are) less than the Limit of Report (LOR).

ED037 - Titration end point for Total Alkalinity is pH 4.5 while end point for Total Alkalinity <20mg/L is pH 4.2.

Water sample(s) digested by in-house method E-3005 prior to the determination of total metals. The in-house method is developed based on USEPA method 3005.

EK058A - Nitrate is the difference of Nitrite + Nitrate and Nitrite.



Analytical Results

Sub-Matrix: WATER

Sample ID

Sampling date / time

				WM 1	WM2	---	---	---
				13-May-2025	13-May-2025	---	---	---
Compound	CAS Number	LOR	Unit	HK2518822-001	HK2518822-002	-----	-----	-----
EA/ED: Physical and Aggregate Properties								
EA025: Suspended Solids (SS)	----	0.1	mg/L	5.5	32.8	---	---	---
ED037: Total Alkalinity as CaCO3	----	1	mg/L	9	65	---	---	---
ED/EK: Inorganic Nonmetallic Parameters								
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	10	42	---	---	---
ED045K: Chloride	16887-00-6	0.5	mg/L	7	13	---	---	---
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	0.10	0.18	---	---	---
EK058A: Nitrate as N	14797-55-8	0.01	mg/L	0.03	0.36	---	---	---
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.5	0.7	---	---	---
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	---	---	---
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	---	---	---
EP: Aggregate Organics								
EP005: Total Organic Carbon	----	1	mg/L	4	3	---	---	---
EP020: Oil & Grease	----	5	mg/L	<5	<5	---	---	---
EP026C: Chemical Oxygen Demand	----	5	mg/L	12	13	---	---	---
EP030: Biochemical Oxygen Demand	----	2	mg/L	2	<2	---	---	---
EG: Metals and Major Cations - Total								
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	---	---	---
EG020: Copper	7440-50-8	1	µg/L	3	3	---	---	---
EG020: Lead	7439-92-1	1	µg/L	<1	2	---	---	---
EG020: Manganese	7439-96-5	1	µg/L	117	1390	---	---	---
EG020: Nickel	7440-02-0	1	µg/L	<1	<1	---	---	---
EG020: Zinc	7440-66-6	10	µg/L	17	28	---	---	---
EG032: Calcium	7440-70-2	50	µg/L	3220	33200	---	---	---
EG032: Iron	7439-89-6	10	µg/L	1120	4100	---	---	---
EG032: Magnesium	7439-95-4	50	µg/L	480	1670	---	---	---
EG032: Potassium	7440-09-7	50	µg/L	600	4260	---	---	---
EG032: Sodium	7440-23-5	50	µg/L	8870	9570	---	---	---
EM: Microbiological Testing								
EM002: E. coli	----	1	CFU/100mL	13	3200	---	---	---



Sub-Matrix: WATER				Sample ID	WM 1	WM2	---	---	---
				Sampling date / time	13-May-2025	13-May-2025	---	---	---
Compound	CAS Number	LOR	Unit		HK2518822-001	HK2518822-002	-----	-----	-----
EM: Microbiological Testing - Continued									
EM003: Total Coliforms	----	1	CFU/100mL		16	5400	---	---	---

----- END OF REPORT -----



Laboratory Duplicate (DUP) Report

In the Laboratory Duplicate (DUP) report, RPD (%) of sample duplicate reporting "0.0" denotes that the difference between unrounded results of the sample and its duplicate analyses is less than the value of the limit of reporting of the specific testing. The RPD (%) meets the quality control requirement of the corresponding testing procedure.

Matrix: WATER

Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 6571863)								
HK2518635-020	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.2	3.1	0.0
HK2518822-002	WM2	EA025: Suspended Solids (SS)	----	0.5	mg/L	32.8	34.0	3.8
EA/ED: Physical and Aggregate Properties (QC Lot: 6586095)								
HK2519855-001	Anonymous	ED037: Total Alkalinity as CaCO3	----	1	mg/L	1	1	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6573530)								
HK2518588-001	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	2.56	2.51	2.1
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6576872)								
HK2519027-001	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<1	<1	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6576873)								
HK2519027-001	Anonymous	ED045K: Chloride	16887-00-6	1	mg/L	<1	<1	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6577696)								
HK2515933-001	Anonymous	EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6581706)								
HK2518822-001	WM 1	EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.5	0.6	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6596242)								
HK2520545-001	Anonymous	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	23.5	22.2	5.6
EP: Aggregate Organics (QC Lot: 6585273)								
HK2517932-001	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	14	14	0.0
EP: Aggregate Organics (QC Lot: 6587504)								
HK2519004-001	Anonymous	EP026C: Chemical Oxygen Demand	----	5	mg/L	5	5	0.0
EG: Metals and Major Cations - Total (QC Lot: 6573307)								
HK2518822-001	WM 1	EG032: Iron	7439-89-6	10	µg/L	1120	1050	5.6
		EG032: Calcium	7440-70-2	50	µg/L	3220	3080	4.6
		EG032: Magnesium	7439-95-4	50	µg/L	480	460	3.5
		EG032: Potassium	7440-09-7	50	µg/L	600	590	2.1
		EG032: Sodium	7440-23-5	50	µg/L	8870	8620	2.9
EG: Metals and Major Cations - Total (QC Lot: 6573308)								
HK2518822-001	WM 1	EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0



Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Total (QC Lot: 6573308) - Continued								
HK2518822-001	WM 1	EG020: Copper	7440-50-8	1	µg/L	3	3	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Manganese	7439-96-5	1	µg/L	117	111	4.8
		EG020: Nickel	7440-02-0	1	µg/L	<1	<1	0.0
		EG020: Zinc	7440-66-6	10	µg/L	17	16	7.6

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)		
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QC Lot: 6571863)												
EA025: Suspended Solids (SS)		----	0.5	mg/L	<0.5	10 mg/L	97.5	----	85.0	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 6586095)												
ED037: Total Alkalinity as CaCO3		----	1	mg/L	<1	50 mg/L	103	----	95.0	105	----	----
					<1	2000 mg/L	100	----	95.0	105	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6573530)												
EK071K: Reactive Phosphorus as P		14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	93.0	----	92.5	105	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6576872)												
ED041K: Sulphate as SO4 - Turbidimetric		----	1	mg/L	<1	5 mg/L	107	----	89.2	112	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6576873)												
ED045K: Chloride		16887-00-6	1	mg/L	<1	10 mg/L	95.7	----	90.8	106	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6577696)												
EK086: Sulphite as SO3 2-		14265-45-3	2	mg/L	<2	----	----	----	----	----	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6581706)												
EK061A: Total Kjeldahl Nitrogen as N		----	0.1	mg/L	<0.1	0.5 mg/L	111	----	85.0	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6596242)												
EK055K: Ammonia as N		7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	102	----	87.3	110	----	----
EP: Aggregate Organics (QC Lot: 6573924)												
EP030: Biochemical Oxygen Demand		----	----	mg/L	----	198 mg/L	89.4	----	80.9	119	----	----



Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EP: Aggregate Organics (QC Lot: 6585273)											
EP005: Total Organic Carbon	----	1	mg/L	<1	5 mg/L	110	----	81.4	116	----	----
				<1	100 mg/L	94.0	----	85.7	117	----	----
EP: Aggregate Organics (QC Lot: 6587504)											
EP026C: Chemical Oxygen Demand	----	----	mg/L	----	25 mg/L	106	----	92.3	108	----	----
				----	250 mg/L	97.7	----	93.7	105	----	----
EP: Aggregate Organics (QC Lot: 6587636)											
EP020: Oil & Grease	----	2	mg/L	<2	20 mg/L	90.2	----	80.4	107	----	----
EG: Metals and Major Cations - Total (QC Lot: 6573307)											
EG032: Calcium	7440-70-2	50	µg/L	<50	2000 µg/L	102	----	85.0	115	----	----
EG032: Iron	7439-89-6	10	µg/L	<10	2000 µg/L	105	----	85.0	115	----	----
EG032: Magnesium	7439-95-4	50	µg/L	<50	2000 µg/L	104	----	85.0	115	----	----
EG032: Potassium	7440-09-7	50	µg/L	<50	2000 µg/L	101	----	85.0	115	----	----
EG032: Sodium	7440-23-5	50	µg/L	<50	2000 µg/L	106	----	85.0	115	----	----
EG: Metals and Major Cations - Total (QC Lot: 6573308)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	5 µg/L	99.6	----	85.0	109	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	50 µg/L	106	----	90.0	111	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	50 µg/L	106	----	89.0	111	----	----
EG020: Manganese	7439-96-5	1	µg/L	<1	50 µg/L	100	----	85.0	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	50 µg/L	103	----	87.0	110	----	----
EG020: Zinc	7440-66-6	10	µg/L	<10	50 µg/L	104	----	86.0	114	----	----



Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6573530)										
HK2518588-001	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	5 mg/L	124	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6576872)										
HK2519027-001	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric	----	5 mg/L	95.3	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6576873)										
HK2519027-001	Anonymous	ED045K: Chloride	16887-00-6	5 mg/L	108	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6581706)										
HK2518822-001	WM 1	EK061A: Total Kjeldahl Nitrogen as N	----	0.5 mg/L	112	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6596242)										
HK2520545-001	Anonymous	EK055K: Ammonia as N	7664-41-7	50 mg/L	97.5	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 6585273)										
HK2517937-001	Anonymous	EP005: Total Organic Carbon	----	25 mg/L	97.8	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 6587504)										
HK2519004-001	Anonymous	EP026C: Chemical Oxygen Demand	----	10 mg/L	100	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 6573307)										
HK2518822-002	WM2	EG032: Calcium	7440-70-2	2000 µg/L	# Not Determined	----	75.0	125	----	----
		EG032: Iron	7439-89-6	2000 µg/L	107	----	75.0	125	----	----
		EG032: Magnesium	7439-95-4	2000 µg/L	114	----	75.0	125	----	----
		EG032: Potassium	7440-09-7	2000 µg/L	112	----	75.0	125	----	----
		EG032: Sodium	7440-23-5	2000 µg/L	# Not Determined	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 6573308)										
HK2518822-002	WM2	EG020: Cadmium	7440-43-9	5 µg/L	105	----	75.0	125	----	----
		EG020: Copper	7440-50-8	50 µg/L	116	----	75.0	125	----	----
		EG020: Lead	7439-92-1	50 µg/L	110	----	75.0	125	----	----

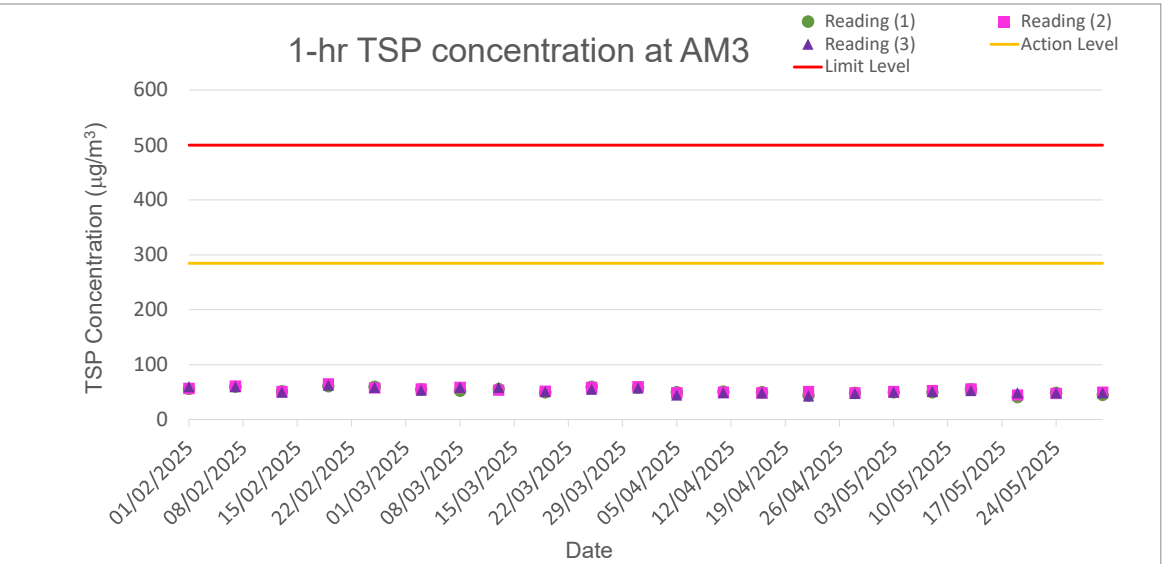
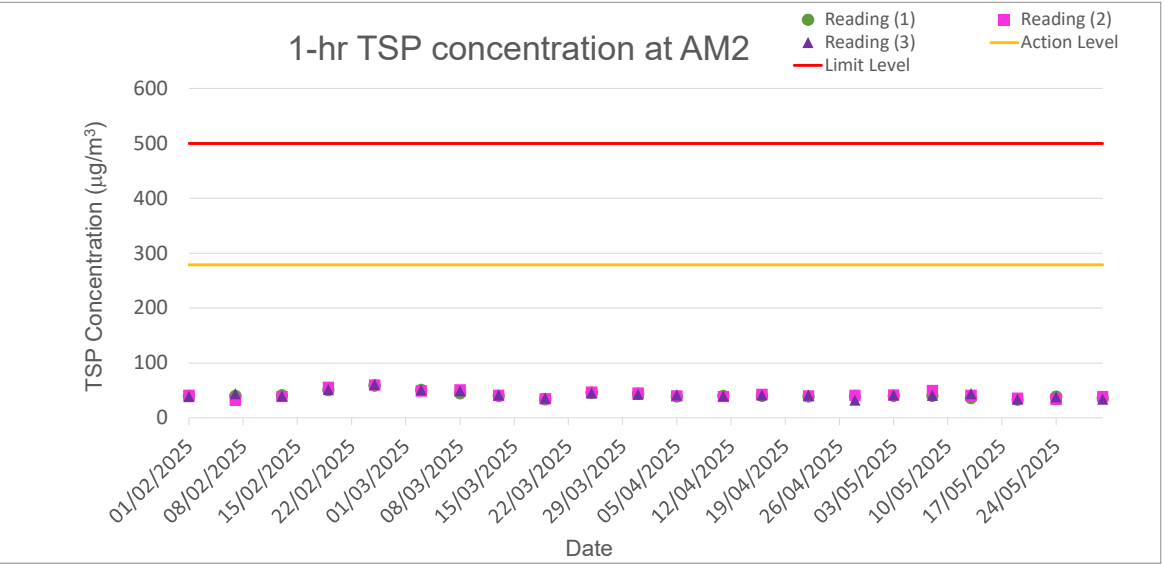
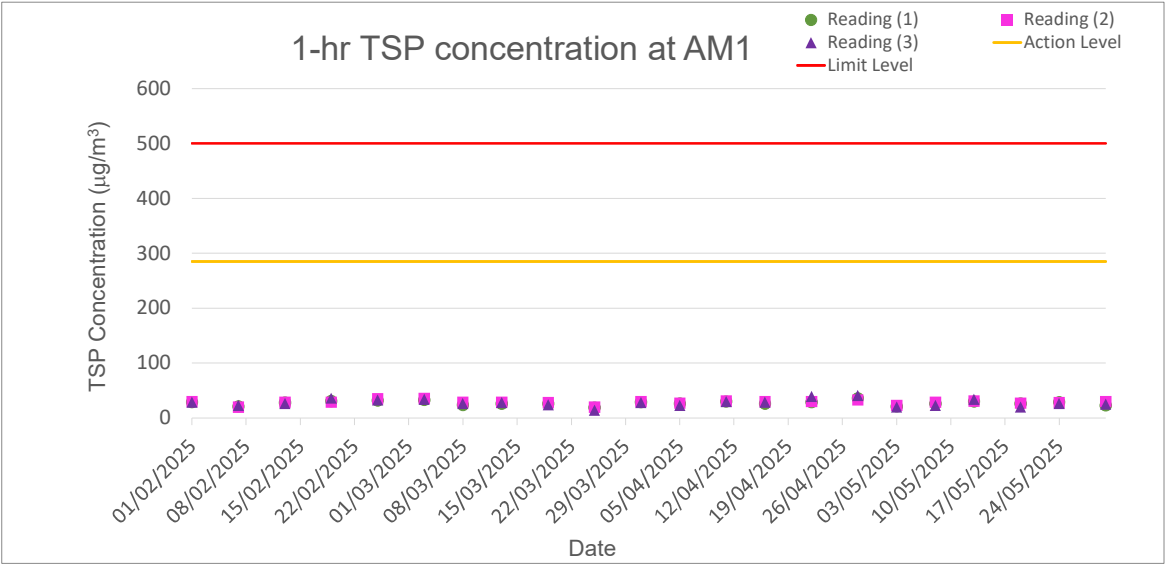


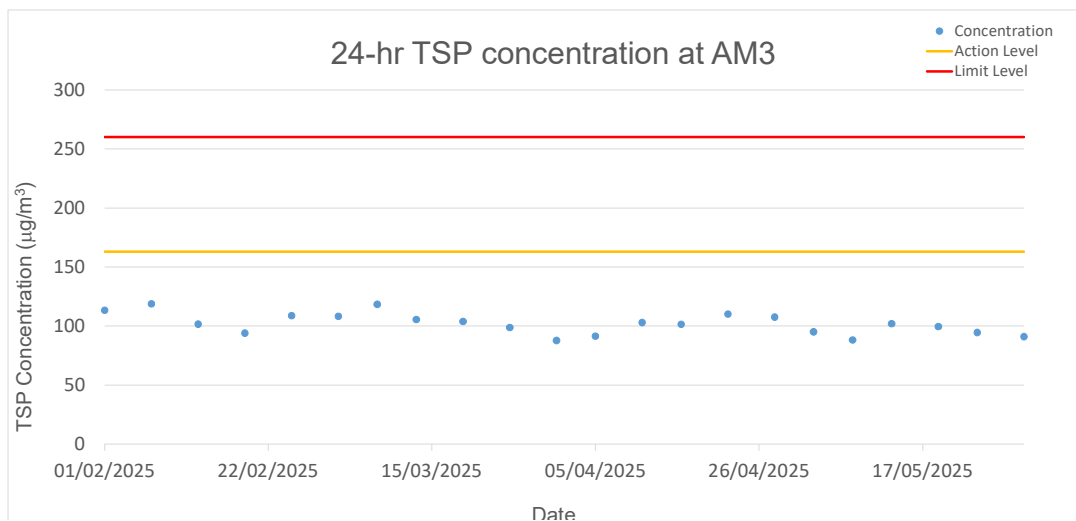
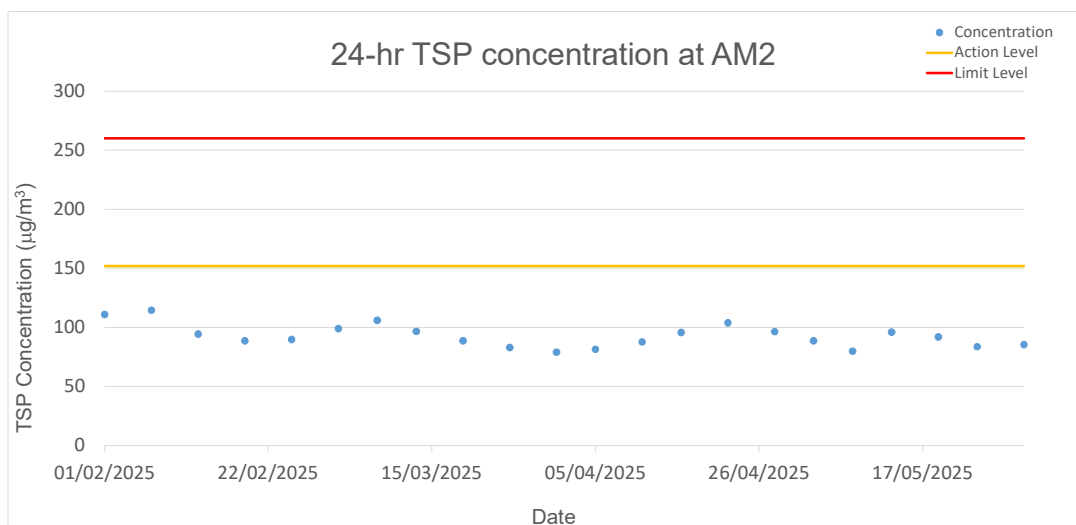
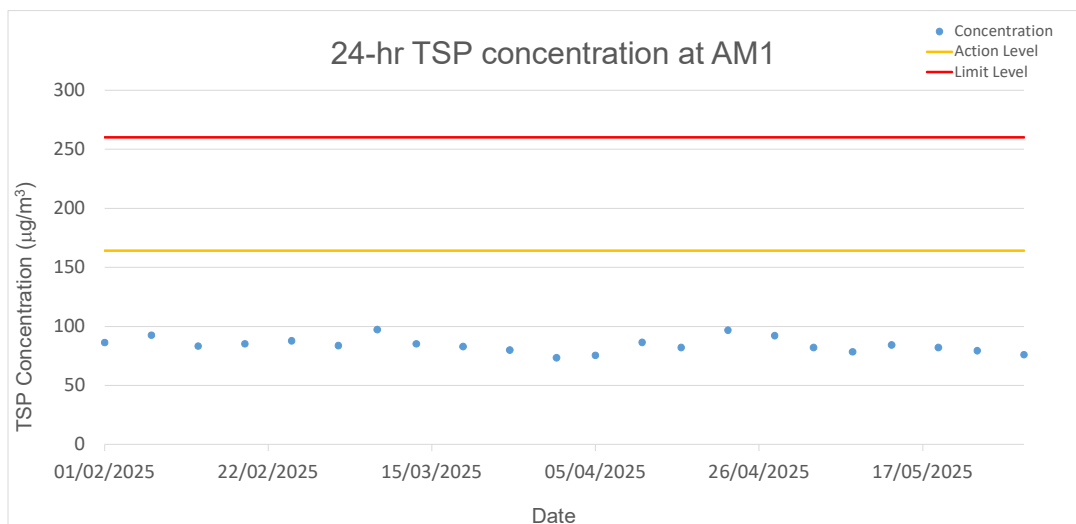
Matrix: WATER

Matrix: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number		MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations - Total (QC Lot: 6573308) - Continued										
HK2518822-002	WM2	EG020: Manganese	7439-96-5	50 µg/L	# Not Determined	----	75.0	125	----	----
		EG020: Nickel	7440-02-0	50 µg/L	114	----	75.0	125	----	----
		EG020: Zinc	7440-66-6	50 µg/L	109	----	75.0	125	----	----

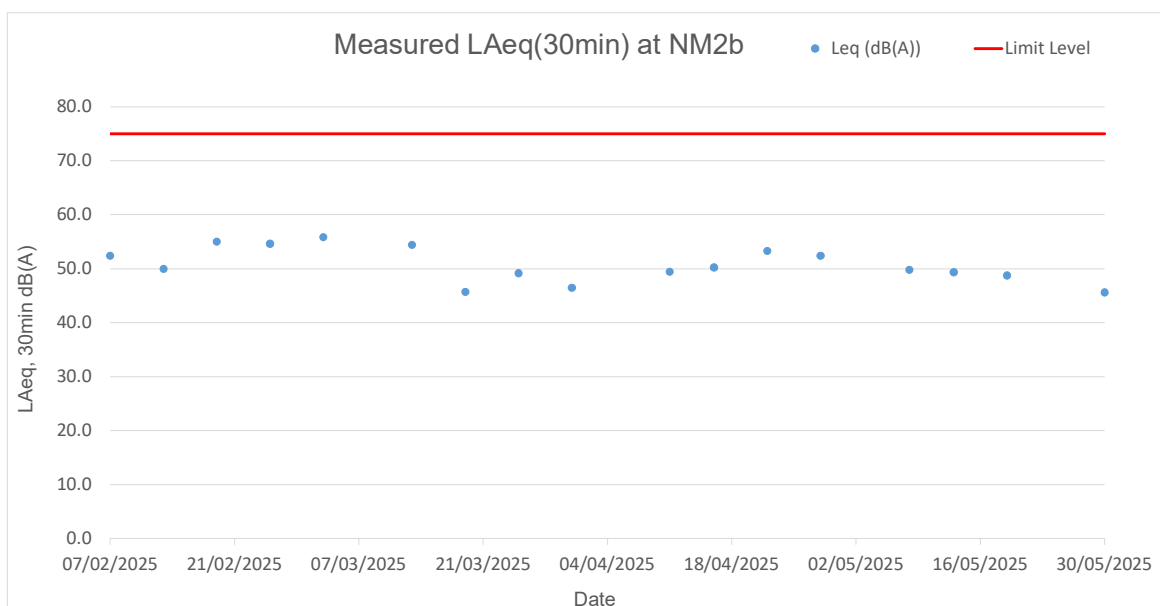
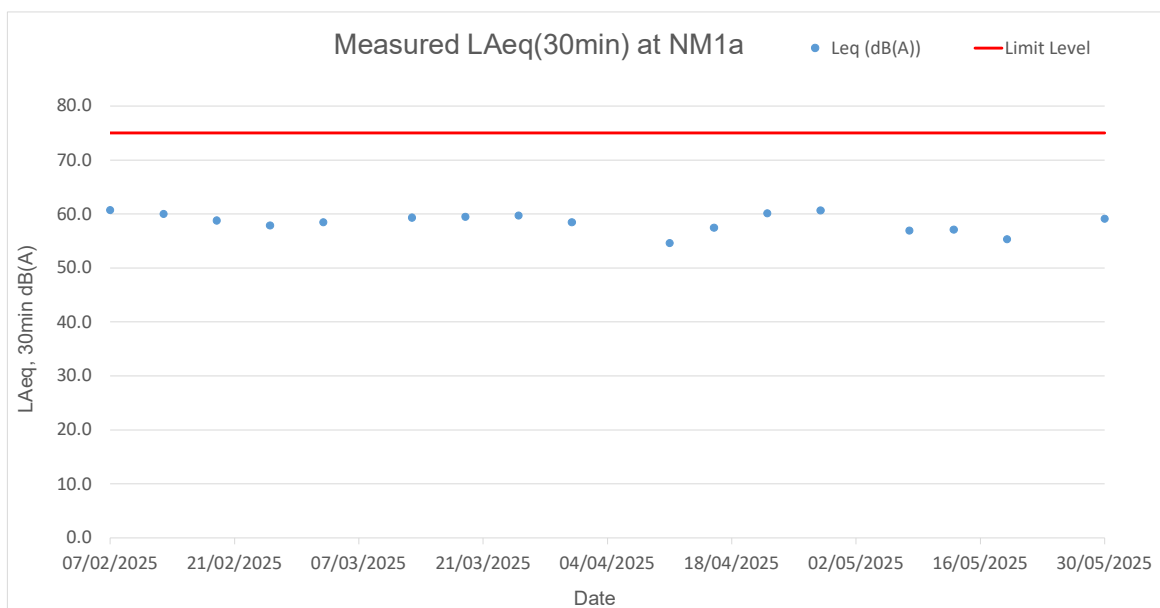
Appendix G Graphical Presentations

Air Quality



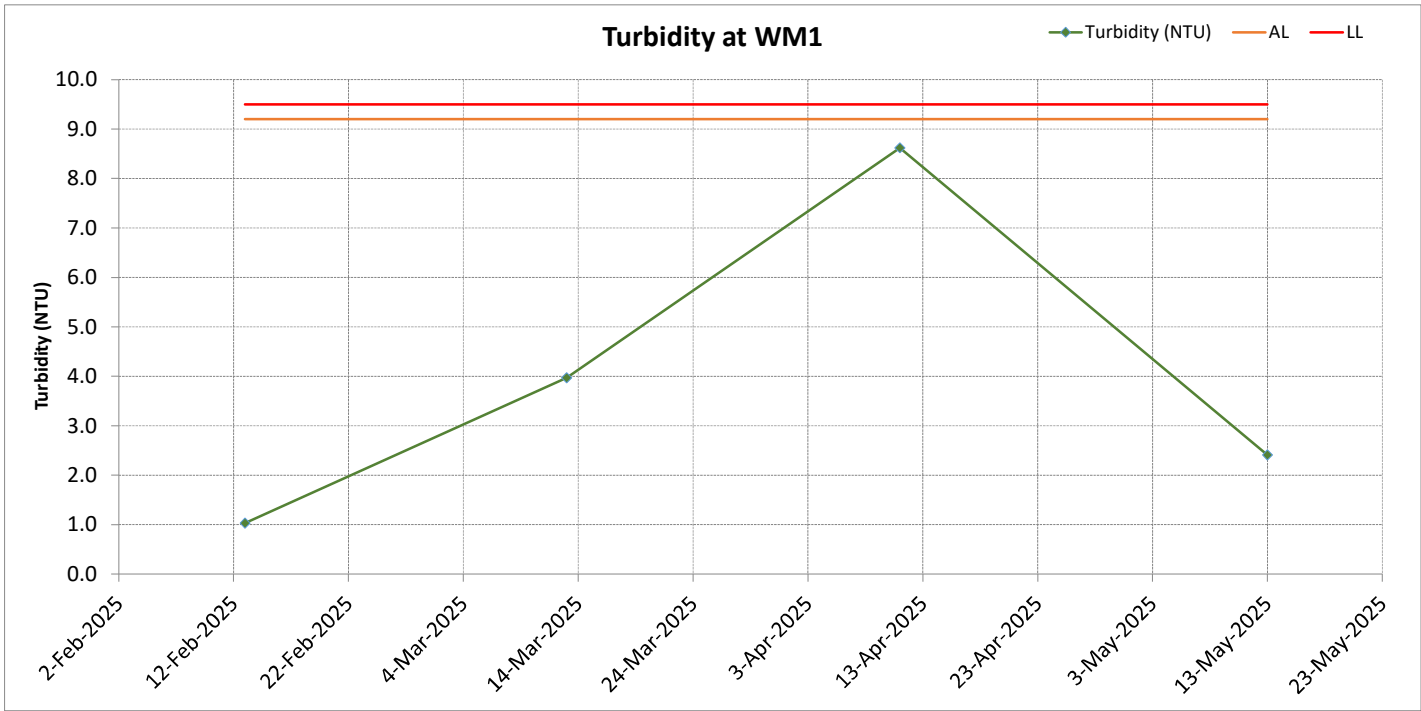
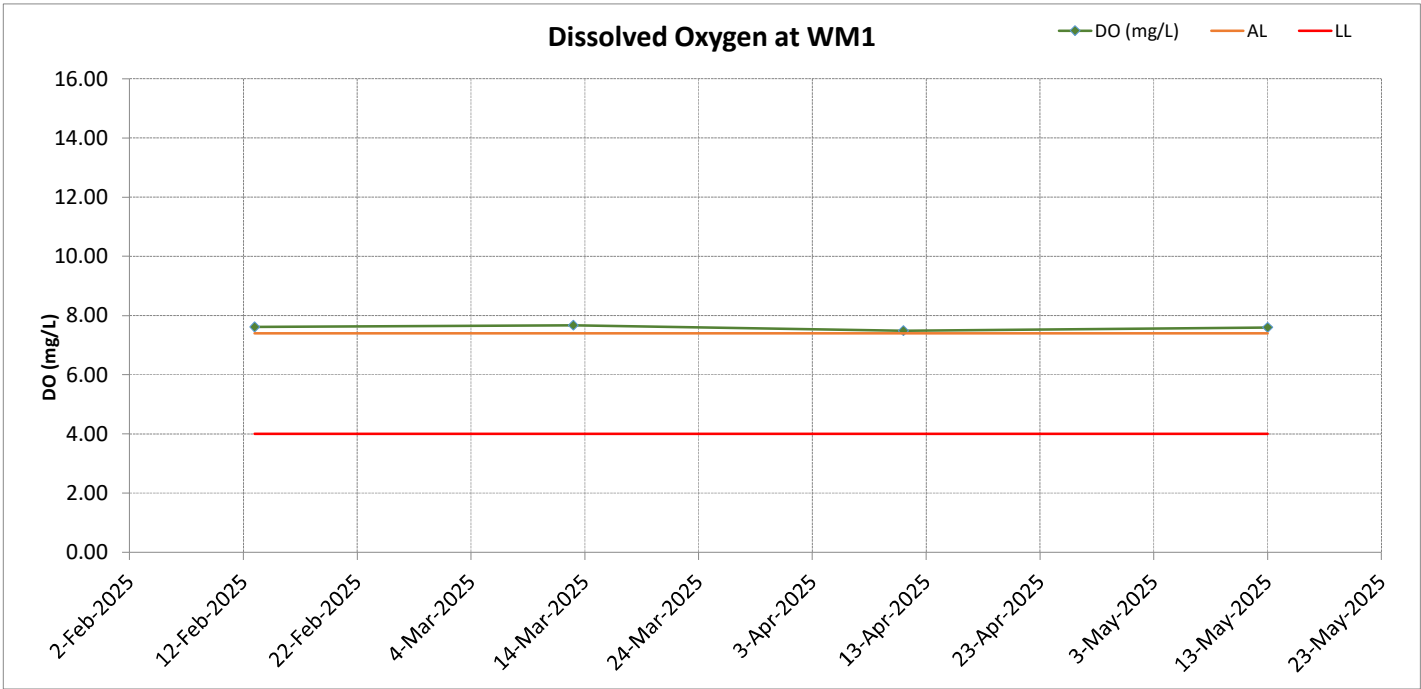


Noise

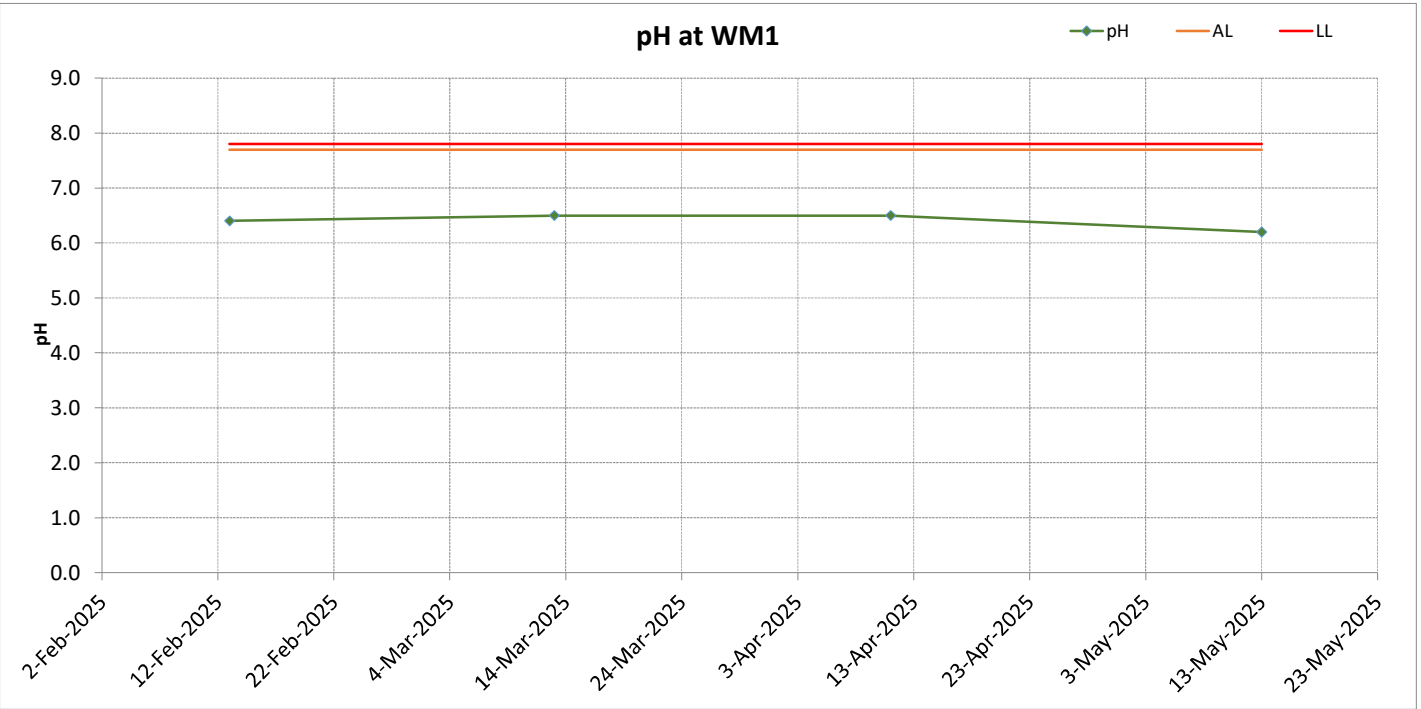
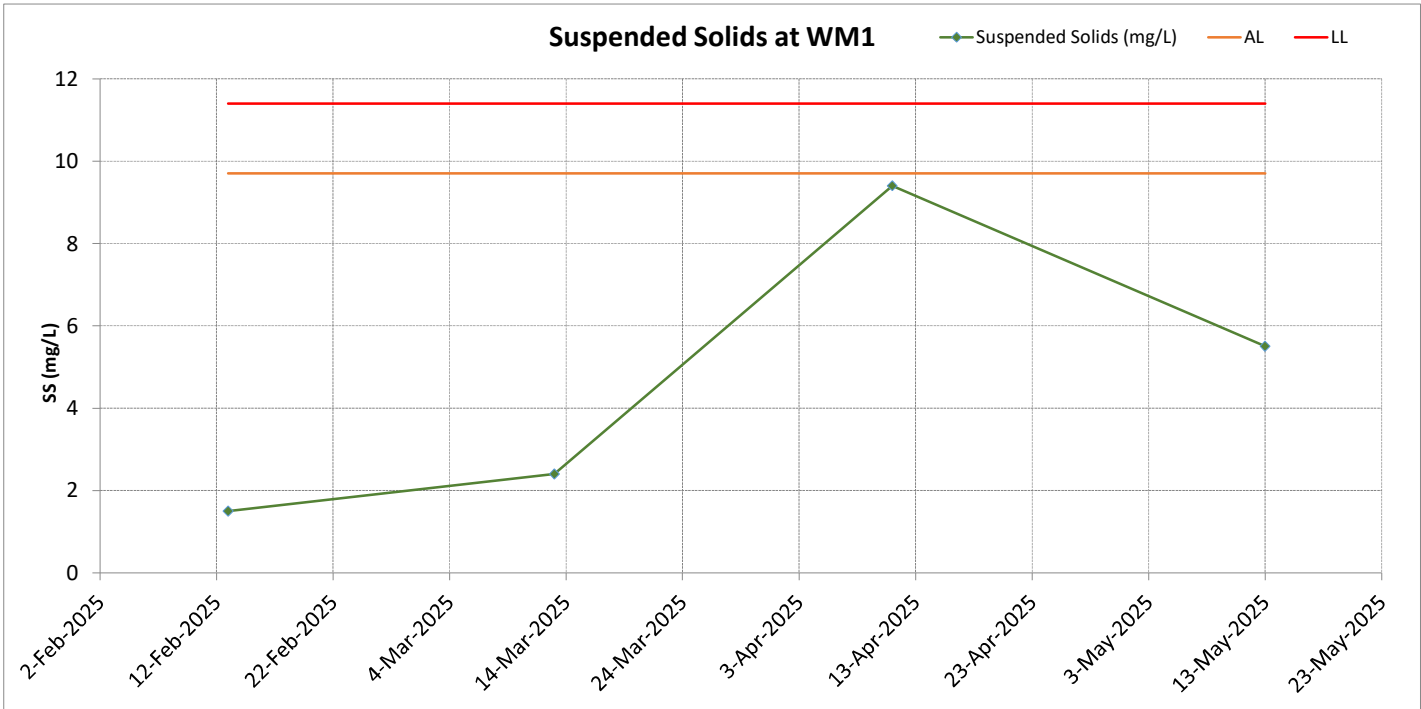


Water Quality

Surface Water Monitoring Results at WM1

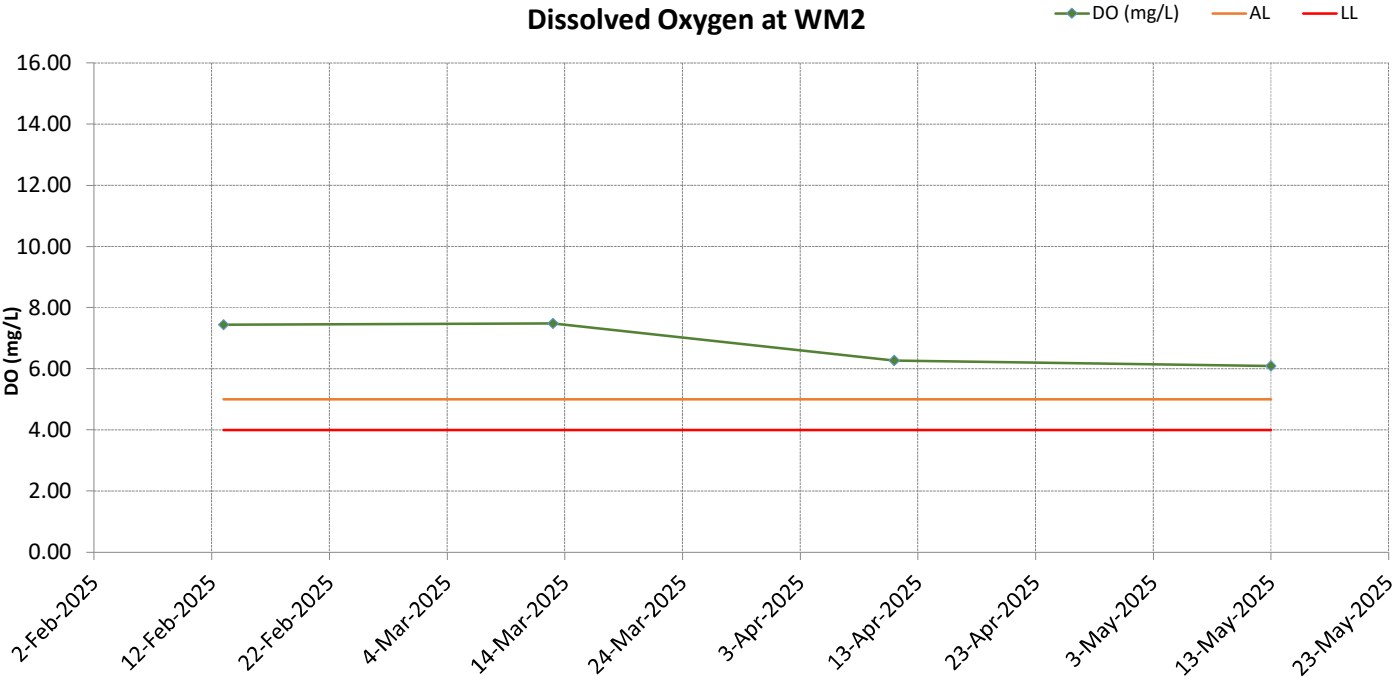


Surface Water Monitoring Results at WM1

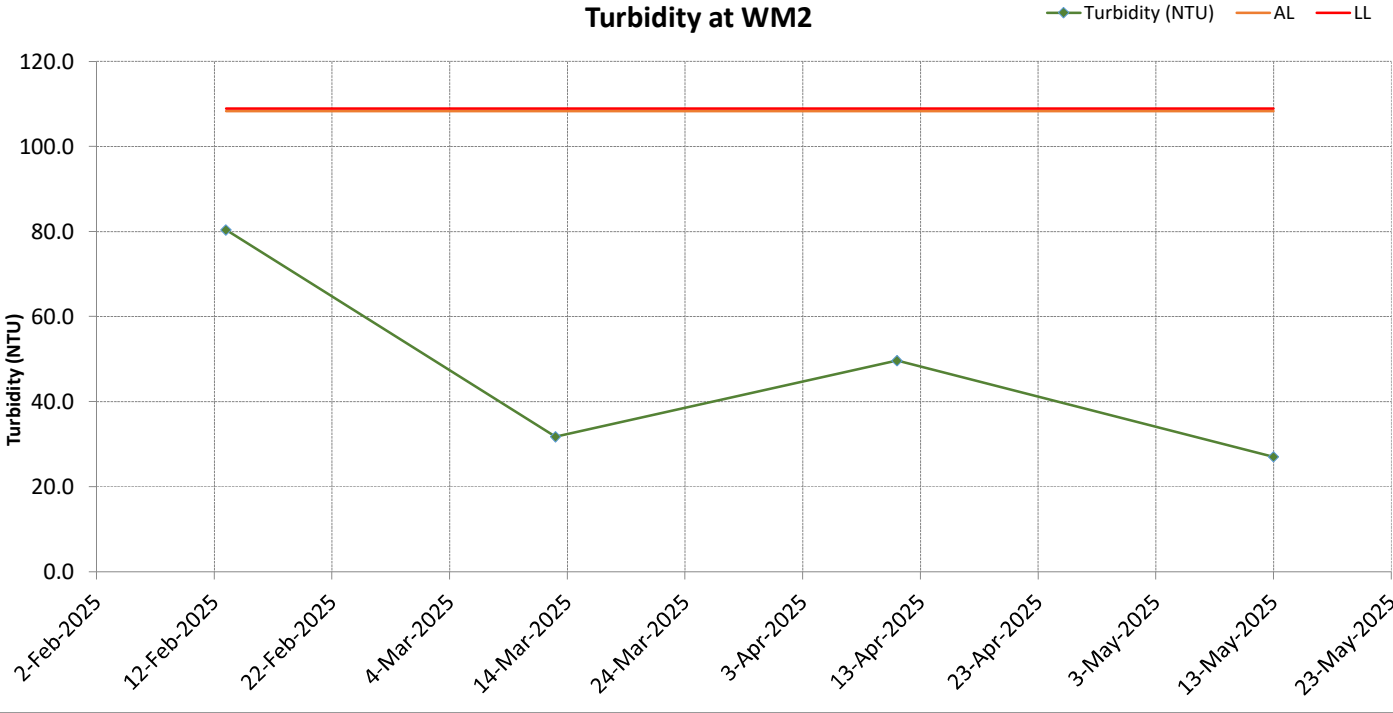


Surface Water Monitoring Results at WM2

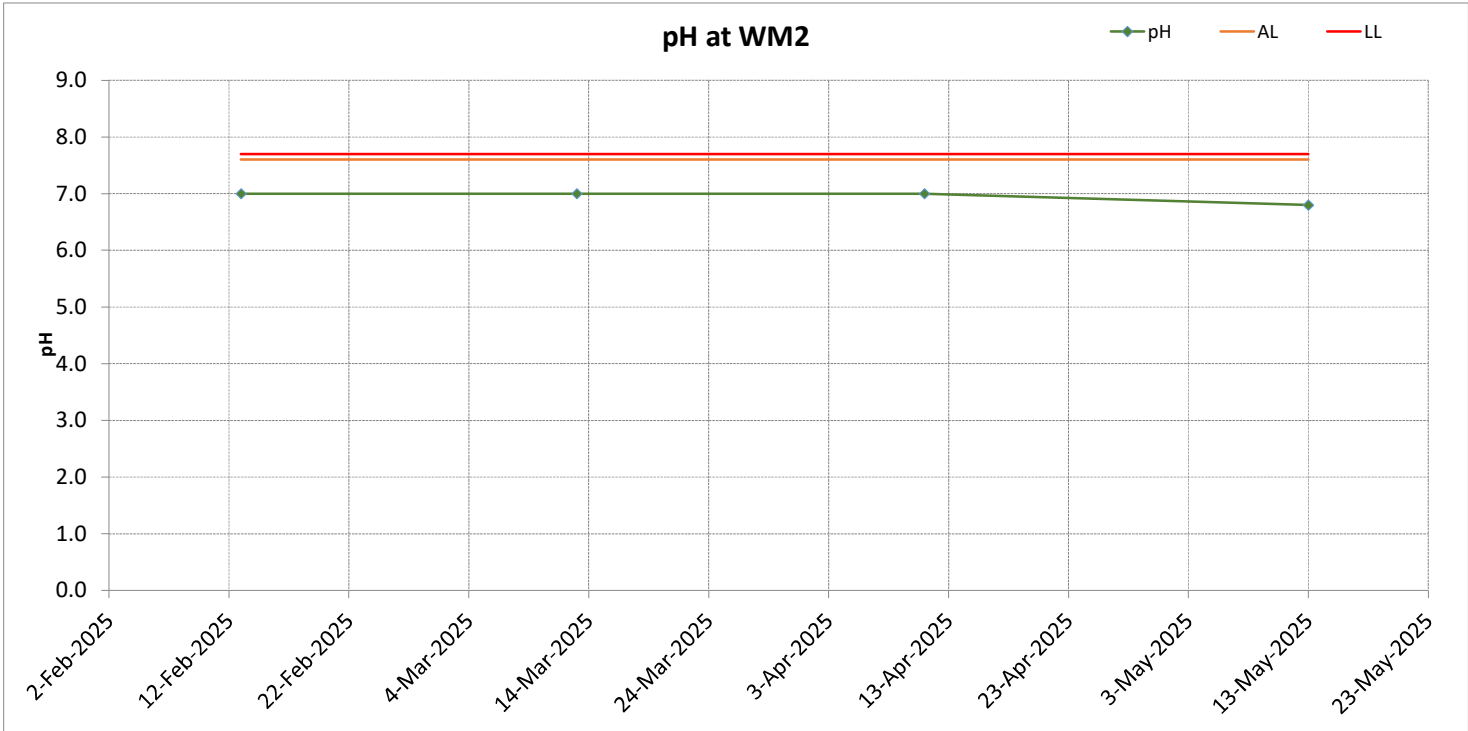
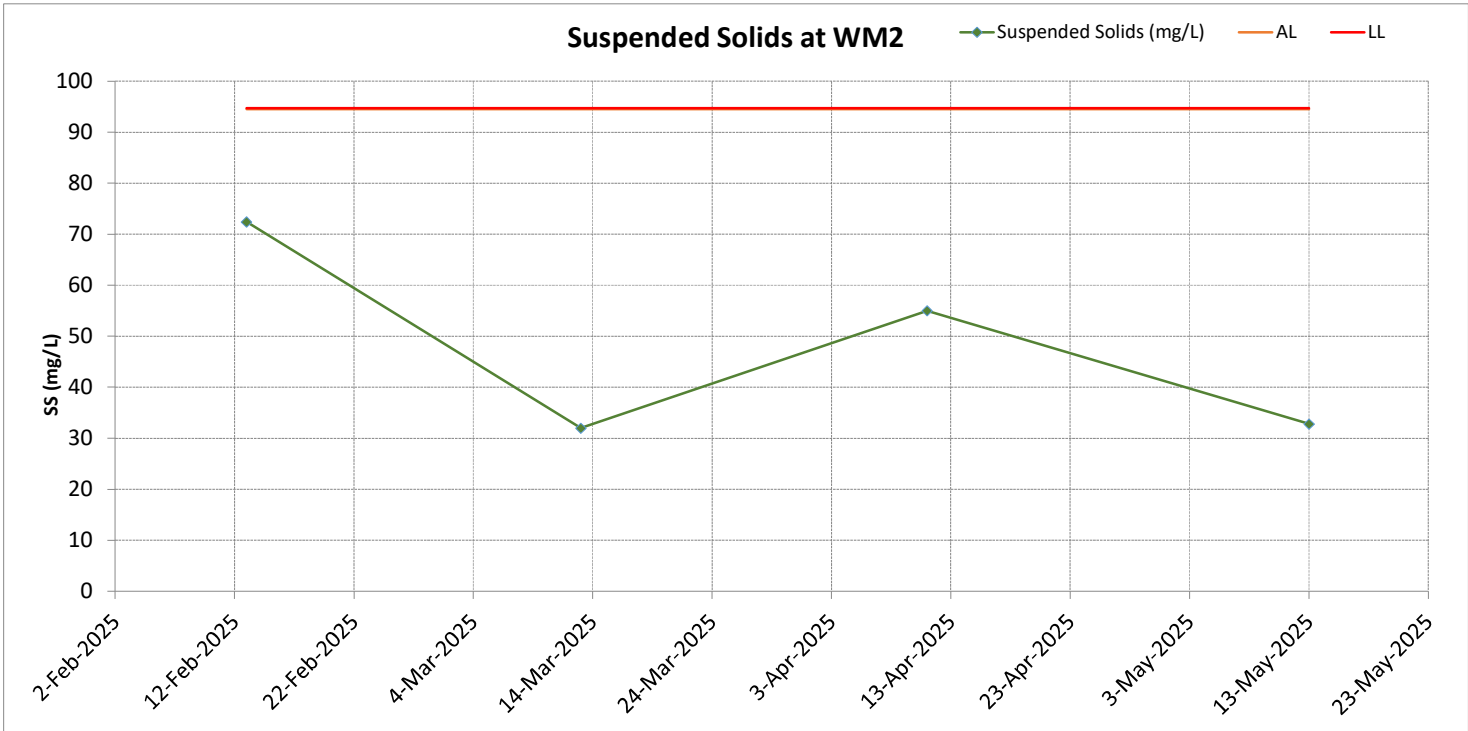
Dissolved Oxygen at WM2



Turbidity at WM2



Surface Water Monitoring Results at WM2



Appendix H Notification of Environmental Quality Limits Exceedance

Notification of Environmental Quality Limits Exceedance

Air Quality Monitoring - Construction Dust

Dust Monitoring Station	Level Exceedance	1-hr TSP Exceedance Count				24-hr TSP Exceedance Count			
		Reporting period		Accumulate project to date		Reporting period		Accumulate project to date	
		Project related	Non-project related	Project related	Non-project related	Project related	Non-project related	Project related	Non-project replated
AM1	Action	0	0	0	0	0	0	0	2
	Limit	0	0	0	0	0	0	0	3
AM2	Action	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0
AM3	Action	0	0	0	0	0	0	0	4
	Limit	0	0	0	0	0	0	0	3

Noise Monitoring

Noise Monitoring Station	Level Exceedance	LAeq (30mins) Exceedance Count			
		Reporting period		Accumulate project to date	
		Project related	Non-project related	Project related	Non-project related
NM1a	Action	0	0	0	0
	Limit	0	0	0	0
NM2a	Action	0	0	0	0
	Limit	0	0	0	0

Notification of Environmental Quality Limits Exceedance

Surface Water Monitoring

Surface Water Quality Monitoring Station	Level Exceedance	Exceedance Count															
		Reporting period								Accumulate project to date							
		Project related				Non-project replated				Project related				Non-project replated			
		DO	pH	Turb	SS	DO	pH	Turb	SS	DO	pH	Turb	SS	DO	pH	Turb	SS
WM1	Action	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WM2	Action	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Remarks:

1. "DO" equal to Dissolved Oxygen
2. "Turb" equal to Turbidity
3. "SS" equal to Suspended Solids

Landfill Gas (LFG) Monitoring

[illegible]

Appendix I Wind Data

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250501_0003	0.4	56
20250501_0013	0.3	324
20250501_0023	0.1	178
20250501_0033	0.5	169
20250501_0043	0.2	193
20250501_0053	0.4	154
20250501_0103	0.1	115
20250501_0113	0.1	111
20250501_0123	0.5	126
20250501_0133	0.1	59
20250501_0143	0.2	53
20250501_0153	0.1	170
20250501_0203	0.1	52
20250501_0213	0.1	56
20250501_0223	0.1	125
20250501_0233	0.1	29
20250501_0243	0.1	307
20250501_0253	0.1	140
20250501_0303	0.1	139
20250501_0313	0.1	140
20250501_0323	0.1	151
20250501_0333	0.1	151
20250501_0343	0.1	23
20250501_0353	0.1	98
20250501_0403	0.1	67
20250501_0413	0.1	143
20250501_0423	0.1	122
20250501_0433	0.1	121
20250501_0443	0.1	332
20250501_0453	0.1	332
20250501_0503	0.1	22
20250501_0513	0.1	247
20250501_0523	0.3	294
20250501_0533	0.1	71
20250501_0543	0.1	311
20250501_0553	0.1	148
20250501_0603	0.1	148
20250501_0613	0.1	148
20250501_0623	0.1	120
20250501_0633	0.1	146
20250501_0643	0.1	92
20250501_0653	0.1	8
20250501_0703	0.1	160
20250501_0713	0.1	158
20250501_0723	0.1	140
20250501_0733	0.1	142
20250501_0743	0.1	122
20250501_0753	0.1	140
20250501_0803	0.1	141
20250501_0813	0.1	96
20250501_0823	0.1	121
20250501_0833	0.1	116
20250501_0843	0.1	264
20250501_0853	0.1	99
20250501_0903	0.1	138
20250501_0913	0.1	96
20250501_0923	0.6	133
20250501_0933	0.4	112
20250501_0943	0.2	141
20250501_0953	0.1	251
20250501_1003	0.9	114
20250501_1013	0.1	122
20250501_1023	0.1	94
20250501_1033	0.1	143
20250501_1043	0.1	136
20250501_1053	0.1	119
20250501_1103	0.1	119
20250501_1113	0.4	192
20250501_1123	0.1	128
20250501_1133	0.1	28
20250501_1143	0.5	139
20250501_1153	0.1	137

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250501_1203	0.5	57
20250501_1213	0.1	178
20250501_1223	0.1	125
20250501_1233	0.7	136
20250501_1243	0.1	51
20250501_1253	0.1	141
20250501_1303	0.1	149
20250501_1313	0.1	145
20250501_1323	0.1	199
20250501_1333	7.7	352
20250501_1343	1	352
20250501_1353	0.1	49
20250501_1403	0.2	34
20250501_1413	0.9	19
20250501_1423	0.4	8
20250501_1433	0.3	344
20250501_1443	0.1	28
20250501_1453	0.1	24
20250501_1503	0.1	54
20250501_1513	0.1	141
20250501_1523	0.1	145
20250501_1533	0.1	217
20250501_1543	0.1	244
20250501_1553	0.2	98
20250501_1603	0.1	262
20250501_1613	0.1	142
20250501_1623	0.1	121
20250501_1633	0.1	130
20250501_1643	0.1	40
20250501_1653	0.1	108
20250501_1703	0.1	102
20250501_1713	0.1	122
20250501_1723	0.1	134
20250501_1733	0.1	125
20250501_1743	0.1	110
20250501_1753	0.1	65
20250501_1803	0.1	149
20250501_1813	0.1	123
20250501_1823	0.1	174
20250501_1833	0.1	126
20250501_1843	0.1	96
20250501_1853	0.1	103
20250501_1903	0.1	106
20250501_1913	0.1	88
20250501_1923	0.1	60
20250501_1933	0.1	41
20250501_1943	0.1	34
20250501_1953	0.1	68
20250501_2003	0.1	88
20250501_2013	0.1	53
20250501_2023	0.1	53
20250501_2033	0.1	53
20250501_2043	0.1	165
20250501_2053	0.1	165
20250501_2103	0.1	63
20250501_2113	0.1	92
20250501_2123	0.1	61
20250501_2133	0.1	59
20250501_2143	0.1	85
20250501_2153	0.1	82
20250501_2203	0.1	82
20250501_2213	0.1	274
20250501_2223	0.1	83
20250501_2233	0.1	83
20250501_2243	0.1	83
20250501_2253	0.1	83
20250501_2303	0.1	83
20250501_2313	0.1	83
20250501_2323	0.1	83
20250501_2333	0.1	12
20250501_2343	0.1	349
20250501_2353	0.1	348

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250502_0003	0.1	95
20250502_0013	0.1	91
20250502_0023	0.1	91
20250502_0033	0.1	91
20250502_0043	0.1	91
20250502_0053	0.1	91
20250502_0103	0.1	91
20250502_0113	0.1	91
20250502_0123	0.1	84
20250502_0133	0.1	84
20250502_0143	0.1	84
20250502_0153	0.1	84
20250502_0203	0.1	84
20250502_0213	0.1	84
20250502_0223	0.1	84
20250502_0233	0.1	78
20250502_0243	0.1	119
20250502_0253	0.1	73
20250502_0303	0.1	73
20250502_0313	0.1	73
20250502_0323	0.1	73
20250502_0333	0.1	73
20250502_0343	0.1	77
20250502_0353	0.1	77
20250502_0403	0.1	77
20250502_0413	0.1	77
20250502_0423	0.1	77
20250502_0433	0.1	77
20250502_0443	0.1	77
20250502_0453	0.1	77
20250502_0503	0.1	77
20250502_0513	0.1	77
20250502_0523	0.1	77
20250502_0533	0.1	74
20250502_0543	0.1	74
20250502_0553	0.1	74
20250502_0603	0.1	340
20250502_0613	0.1	340
20250502_0623	0.1	14
20250502_0633	0.1	32
20250502_0643	0.1	141
20250502_0653	0.1	141
20250502_0703	0.1	141
20250502_0713	0.1	141
20250502_0723	0.1	92
20250502_0733	0.1	146
20250502_0743	0.1	113
20250502_0753	0.2	108
20250502_0803	0.1	138
20250502_0813	0.1	136
20250502_0823	0.1	54
20250502_0833	0.1	118
20250502_0843	0.1	119
20250502_0853	0.5	111
20250502_0903	0.1	136
20250502_0913	0.1	347
20250502_0923	0.2	156
20250502_0933	0.5	341
20250502_0943	0.8	143
20250502_0953	1.8	109
20250502_1003	1	310
20250502_1013	0.1	182
20250502_1023	0.1	129
20250502_1033	0.1	333
20250502_1043	0.7	311
20250502_1053	0.1	16
20250502_1103	0.2	217
20250502_1113	0.6	342
20250502_1123	0.7	327
20250502_1133	0.3	181
20250502_1143	4.2	48
20250502_1153	0.5	350

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250502_1203	0.5	57
20250502_1213	1.1	167
20250502_1223	1.4	216
20250502_1233	0.1	230
20250502_1243	0.8	133
20250502_1253	1.2	347
20250502_1303	0.3	30
20250502_1313	0.6	109
20250502_1323	0.5	54
20250502_1333	0.2	11
20250502_1343	0.1	339
20250502_1353	6.5	1
20250502_1403	0.8	74
20250502_1413	3	8
20250502_1423	1.9	18
20250502_1433	0.1	45
20250502_1443	0.4	352
20250502_1453	3	18
20250502_1503	5.3	346
20250502_1513	0.1	302
20250502_1523	1.4	119
20250502_1533	1.5	26
20250502_1543	8.4	151
20250502_1553	0.2	3
20250502_1603	0.2	247
20250502_1613	1.8	19
20250502_1623	2.7	114
20250502_1633	0.8	38
20250502_1643	0.1	50
20250502_1653	0.4	66
20250502_1703	1.8	65
20250502_1713	0.8	42
20250502_1723	0.2	47
20250502_1733	1.6	353
20250502_1743	0.1	85
20250502_1753	0.1	56
20250502_1803	1	26
20250502_1813	0.9	68
20250502_1823	1	118
20250502_1833	0.1	139
20250502_1843	0.3	284
20250502_1853	0.3	127
20250502_1903	0.2	346
20250502_1913	0.3	19
20250502_1923	0.2	328
20250502_1933	1.6	142
20250502_1943	0.4	58
20250502_1953	0.1	350
20250502_2003	2.1	1
20250502_2013	0.2	343
20250502_2023	0.1	9
20250502_2033	0.1	89
20250502_2043	1.1	315
20250502_2053	0.6	66
20250502_2103	0.2	53
20250502_2113	0.2	57
20250502_2123	0.3	342
20250502_2133	0.1	2
20250502_2143	0.1	26
20250502_2153	1.7	47
20250502_2203	0.2	46
20250502_2213	0.6	332
20250502_2223	1	16
20250502_2233	0.1	279
20250502_2243	0.1	5
20250502_2253	2.1	299
20250502_2303	1.9	5
20250502_2313	0.2	252
20250502_2323	3.3	163
20250502_2333	0.1	53
20250502_2343	0.1	272
20250502_2353	0.1	21

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250503_0003	0.1	124
20250503_0013	0.1	88
20250503_0023	0.1	349
20250503_0033	0.2	115
20250503_0043	0.1	2
20250503_0053	0.1	115
20250503_0103	0.2	121
20250503_0113	0.1	19
20250503_0123	0.2	347
20250503_0133	1.1	29
20250503_0143	0.1	240
20250503_0153	0.1	160
20250503_0203	0.8	122
20250503_0213	0.1	324
20250503_0223	0.1	104
20250503_0233	0.1	127
20250503_0243	0.2	106
20250503_0253	0.1	96
20250503_0303	0.1	128
20250503_0313	0.1	92
20250503_0323	0.1	82
20250503_0333	0.1	103
20250503_0343	0.1	71
20250503_0353	0.1	105
20250503_0403	0.1	101
20250503_0413	0.1	114
20250503_0423	0.2	84
20250503_0433	0.1	94
20250503_0443	1.9	121
20250503_0453	0.1	106
20250503_0503	0.1	139
20250503_0513	0.1	104
20250503_0523	0.1	117
20250503_0533	0.1	320
20250503_0543	0.1	112
20250503_0553	0.1	55
20250503_0603	0.1	88
20250503_0613	0.1	64
20250503_0623	0.1	115
20250503_0633	0.1	196
20250503_0643	0.1	64
20250503_0653	0.1	26
20250503_0703	0.1	20
20250503_0713	0.1	8
20250503_0723	0.1	77
20250503_0733	0.1	352
20250503_0743	0.1	21
20250503_0753	0.1	192
20250503_0803	0.2	119
20250503_0813	0.1	344
20250503_0823	0.1	10
20250503_0833	0.1	308
20250503_0843	0.6	12
20250503_0853	0.1	340
20250503_0903	0.1	4
20250503_0913	0.1	79
20250503_0923	0.1	177
20250503_0933	0.1	147
20250503_0943	0.1	305
20250503_0953	0.1	134
20250503_1003	0.1	62
20250503_1013	0.1	225
20250503_1023	0.1	327
20250503_1033	0.9	145
20250503_1043	0.9	150
20250503_1053	0.3	43
20250503_1103	0.1	104
20250503_1113	0.1	329
20250503_1123	0.2	330
20250503_1133	0.1	46
20250503_1143	0.1	61
20250503_1153	0.1	327

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250503_1203	0.2	345
20250503_1213	0.1	306
20250503_1223	0.1	337
20250503_1233	0.1	266
20250503_1243	0.1	257
20250503_1253	0.2	19
20250503_1303	0.1	12
20250503_1313	0.1	290
20250503_1323	0.2	146
20250503_1333	0.2	293
20250503_1343	0.1	148
20250503_1353	0.1	75
20250503_1403	0.1	199
20250503_1413	0.3	138
20250503_1423	0.2	85
20250503_1433	0.1	167
20250503_1443	0.1	63
20250503_1453	0.1	242
20250503_1503	0.1	129
20250503_1513	0.1	146
20250503_1523	0.1	160
20250503_1533	0.2	101
20250503_1543	0.4	91
20250503_1553	0.1	290
20250503_1603	0.1	123
20250503_1613	0.1	56
20250503_1623	0.8	130
20250503_1633	0.1	97
20250503_1643	0.5	23
20250503_1653	0.2	71
20250503_1703	0.1	28
20250503_1713	0.2	106
20250503_1723	0.1	59
20250503_1733	0.2	75
20250503_1743	0.2	83
20250503_1753	0.4	109
20250503_1803	0.2	204
20250503_1813	0.2	54
20250503_1823	0.3	69
20250503_1833	0.5	105
20250503_1843	0.5	48
20250503_1853	0.1	46
20250503_1903	0.2	56
20250503_1913	0.1	20
20250503_1923	0.1	154
20250503_1933	0.1	69
20250503_1943	0.1	38
20250503_1953	0.1	36
20250503_2003	0.1	88
20250503_2013	0.1	109
20250503_2023	1.3	103
20250503_2033	0.1	100
20250503_2043	0.4	153
20250503_2053	0.1	161
20250503_2103	0.9	153
20250503_2113	0.1	124
20250503_2123	0.1	99
20250503_2133	0.1	84
20250503_2143	2.9	113
20250503_2153	0.1	98
20250503_2203	0.1	94
20250503_2213	0.1	97
20250503_2223	0.1	91
20250503_2233	0.1	165
20250503_2243	0.1	279
20250503_2253	0.3	128
20250503_2303	0.6	154
20250503_2313	1.7	139
20250503_2323	0.1	147
20250503_2333	0.1	146
20250503_2343	0.2	137
20250503_2353	0.3	131

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250504_0003	0.1	72
20250504_0013	0.1	33
20250504_0023	0.1	143
20250504_0033	0.1	98
20250504_0043	0.2	118
20250504_0053	0.1	89
20250504_0103	0.1	206
20250504_0113	0.2	133
20250504_0123	0.1	121
20250504_0133	0.1	145
20250504_0143	0.1	132
20250504_0153	0.1	132
20250504_0203	0.1	118
20250504_0213	0.1	110
20250504_0223	0.1	127
20250504_0233	0.1	127
20250504_0243	0.1	127
20250504_0253	0.1	141
20250504_0303	0.1	141
20250504_0313	0.1	113
20250504_0323	0.1	100
20250504_0333	0.1	100
20250504_0343	0.1	130
20250504_0353	0.1	135
20250504_0403	0.1	135
20250504_0413	0.1	113
20250504_0423	0.1	68
20250504_0433	0.1	68
20250504_0443	0.1	148
20250504_0453	0.1	95
20250504_0503	0.1	95
20250504_0513	0.1	30
20250504_0523	0.1	5
20250504_0533	0.1	150
20250504_0543	0.1	151
20250504_0553	0.1	304
20250504_0603	0.1	94
20250504_0613	0.1	324
20250504_0623	0.1	284
20250504_0633	0.1	210
20250504_0643	0.1	53
20250504_0653	0.1	124
20250504_0703	0.1	170
20250504_0713	0.1	19
20250504_0723	2.5	159
20250504_0733	0.1	11
20250504_0743	0.1	353
20250504_0753	0.1	325
20250504_0803	0.1	96
20250504_0813	0.1	64
20250504_0823	0.3	43
20250504_0833	0.2	129
20250504_0843	0.4	116
20250504_0853	1.2	116
20250504_0903	0.1	295
20250504_0913	1.1	69
20250504_0923	0.3	130
20250504_0933	0.1	166
20250504_0943	0.5	33
20250504_0953	1	344
20250504_1003	5.8	78
20250504_1013	1.5	51
20250504_1023	0.4	57
20250504_1033	0.2	157
20250504_1043	0.1	120
20250504_1053	0.8	327
20250504_1103	0.6	242
20250504_1113	0.1	305
20250504_1123	0.4	123
20250504_1133	0.4	37
20250504_1143	1.2	42
20250504_1153	3	69

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250504_1203	3.7	48
20250504_1213	4.5	338
20250504_1223	5.6	332
20250504_1233	0.1	147
20250504_1243	0.1	155
20250504_1253	0.5	326
20250504_1303	0.2	279
20250504_1313	0.4	301
20250504_1323	3.5	135
20250504_1333	0.1	46
20250504_1343	0.2	129
20250504_1353	0.2	256
20250504_1403	2.1	56
20250504_1413	4.5	79
20250504_1423	0.5	189
20250504_1433	0.1	313
20250504_1443	0.3	6
20250504_1453	0.1	48
20250504_1503	1	51
20250504_1513	0.1	3
20250504_1523	1.5	20
20250504_1533	0.1	27
20250504_1543	1.6	7
20250504_1553	0.2	99
20250504_1603	0.2	12
20250504_1613	0.1	12
20250504_1623	0.1	311
20250504_1633	0.1	54
20250504_1643	0.1	341
20250504_1653	1	350
20250504_1703	0.1	110
20250504_1713	1	3
20250504_1723	0.1	65
20250504_1733	0.5	79
20250504_1743	0.2	57
20250504_1753	0.1	90
20250504_1803	0.4	84
20250504_1813	1.5	155
20250504_1823	0.1	44
20250504_1833	0.5	29
20250504_1843	1.6	149
20250504_1853	0.4	131
20250504_1903	0.1	327
20250504_1913	0.2	338
20250504_1923	0.1	5
20250504_1933	0.7	66
20250504_1943	1	166
20250504_1953	0.2	120
20250504_2003	2.1	150
20250504_2013	2.2	154
20250504_2023	0.1	60
20250504_2033	1	332
20250504_2043	0.6	32
20250504_2053	0.9	60
20250504_2103	0.3	114
20250504_2113	1.1	19
20250504_2123	0.1	333
20250504_2133	0.3	33
20250504_2143	0.3	78
20250504_2153	0.1	315
20250504_2203	0.1	341
20250504_2213	0.1	24
20250504_2223	0.1	297
20250504_2233	0.1	43
20250504_2243	0.1	19
20250504_2253	0.3	85
20250504_2303	0.4	17
20250504_2313	0.1	0
20250504_2323	1.5	95
20250504_2333	0.4	282
20250504_2343	0.1	57
20250504_2353	0.5	63

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250505_0003	1.2	10
20250505_0013	0.3	73
20250505_0023	0.1	316
20250505_0033	0.2	81
20250505_0043	0.2	350
20250505_0053	0.1	297
20250505_0103	0.1	125
20250505_0113	0.7	114
20250505_0123	0.3	313
20250505_0133	0.4	322
20250505_0143	0.1	343
20250505_0153	0.1	347
20250505_0203	0.1	87
20250505_0213	0.2	340
20250505_0223	0.5	120
20250505_0233	0.1	289
20250505_0243	0.2	348
20250505_0253	0.6	42
20250505_0303	0.1	352
20250505_0313	0.1	56
20250505_0323	0.1	137
20250505_0333	0.4	293
20250505_0343	0.2	263
20250505_0353	0.1	16
20250505_0403	0.1	54
20250505_0413	0.1	319
20250505_0423	0.1	102
20250505_0433	0.1	347
20250505_0443	0.1	129
20250505_0453	0.1	44
20250505_0503	0.1	109
20250505_0513	0.5	126
20250505_0523	0.1	72
20250505_0533	0.1	21
20250505_0543	0.2	294
20250505_0553	0.1	96
20250505_0603	0.1	10
20250505_0613	0.1	135
20250505_0623	0.5	64
20250505_0633	0.1	53
20250505_0643	0.1	59
20250505_0653	0.1	292
20250505_0703	0.1	38
20250505_0713	1.8	342
20250505_0723	0.6	326
20250505_0733	0.5	50
20250505_0743	0.3	344
20250505_0753	0.2	48
20250505_0803	0.2	51
20250505_0813	0.5	80
20250505_0823	0.1	55
20250505_0833	0.1	345
20250505_0843	1.2	5
20250505_0853	0.1	5
20250505_0903	0.1	241
20250505_0913	0.3	18
20250505_0923	1.5	108
20250505_0933	1.3	318
20250505_0943	2.6	4
20250505_0953	0.2	26
20250505_1003	0.3	6
20250505_1013	0.5	335
20250505_1023	0.1	183
20250505_1033	0.3	81
20250505_1043	0.1	183
20250505_1053	0.6	124
20250505_1103	0.1	8
20250505_1113	0.2	294
20250505_1123	0.1	5
20250505_1133	1.2	160
20250505_1143	0.6	236
20250505_1153	0.1	279

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250505_1203	1.4	344
20250505_1213	0.1	354
20250505_1223	0.2	297
20250505_1233	0.1	340
20250505_1243	0.1	71
20250505_1253	0.4	138
20250505_1303	1.7	97
20250505_1313	0.6	11
20250505_1323	2.7	166
20250505_1333	0.1	65
20250505_1343	1.4	96
20250505_1353	0.1	157
20250505_1403	0.3	159
20250505_1413	0.1	129
20250505_1423	0.5	15
20250505_1433	1	29
20250505_1443	0.5	325
20250505_1453	0.5	69
20250505_1503	0.1	93
20250505_1513	0.4	23
20250505_1523	0.6	304
20250505_1533	0.3	349
20250505_1543	0.2	119
20250505_1553	0.1	348
20250505_1603	0.3	115
20250505_1613	1.3	58
20250505_1623	0.2	122
20250505_1633	0.1	118
20250505_1643	0.1	43
20250505_1653	0.1	31
20250505_1703	0.1	153
20250505_1713	0.1	344
20250505_1723	0.6	149
20250505_1733	0.1	294
20250505_1743	0.1	123
20250505_1753	0.5	330
20250505_1803	0.1	6
20250505_1813	0.1	290
20250505_1823	0.1	95
20250505_1833	0.2	344
20250505_1843	0.1	147
20250505_1853	0.1	47
20250505_1903	0.1	65
20250505_1913	0.1	153
20250505_1923	0.1	120
20250505_1933	0.1	60
20250505_1943	0.1	164
20250505_1953	0.1	124
20250505_2003	0.1	353
20250505_2013	0.1	103
20250505_2023	0.1	160
20250505_2033	0.1	59
20250505_2043	0.1	115
20250505_2053	0.1	280
20250505_2103	0.1	257
20250505_2113	0.1	123
20250505_2123	0.1	103
20250505_2133	0.1	63
20250505_2143	0.1	44
20250505_2153	0.1	73
20250505_2203	0.1	68
20250505_2213	0.1	125
20250505_2223	0.1	90
20250505_2233	0.1	45
20250505_2243	0.1	83
20250505_2253	0.1	60
20250505_2303	0.2	52
20250505_2313	0.3	93
20250505_2323	0.1	143
20250505_2333	0.1	93
20250505_2343	0.1	108
20250505_2353	0.1	131

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250506_0003	0.1	131
20250506_0013	0.1	63
20250506_0023	0.1	52
20250506_0033	0.1	24
20250506_0043	0.1	57
20250506_0053	0.1	113
20250506_0103	0.1	341
20250506_0113	0.1	88
20250506_0123	0.1	166
20250506_0133	0.1	165
20250506_0143	0.1	246
20250506_0153	0.1	144
20250506_0203	0.1	133
20250506_0213	0.1	92
20250506_0223	0.1	41
20250506_0233	0.1	42
20250506_0243	0.1	47
20250506_0253	0.1	47
20250506_0303	0.1	53
20250506_0313	0.1	53
20250506_0323	0.1	56
20250506_0333	0.1	56
20250506_0343	0.1	36
20250506_0353	0.1	0
20250506_0403	0.1	82
20250506_0413	0.1	60
20250506_0423	0.1	86
20250506_0433	0.1	96
20250506_0443	0.1	59
20250506_0453	0.1	87
20250506_0503	0.1	87
20250506_0513	0.1	88
20250506_0523	0.1	88
20250506_0533	0.1	87
20250506_0543	0.1	71
20250506_0553	0.1	4
20250506_0603	0.1	51
20250506_0613	0.1	64
20250506_0623	0.1	64
20250506_0633	0.1	350
20250506_0643	0.1	16
20250506_0653	0.1	16
20250506_0703	0.1	16
20250506_0713	0.1	135
20250506_0723	0.1	115
20250506_0733	0.1	61
20250506_0743	0.1	48
20250506_0753	0.1	135
20250506_0803	0.1	144
20250506_0813	0.1	158
20250506_0823	0.1	69
20250506_0833	0.1	141
20250506_0843	0.1	161
20250506_0853	0.1	328
20250506_0903	0.1	253
20250506_0913	0.1	132
20250506_0923	0.1	101
20250506_0933	0.1	84
20250506_0943	0.1	141
20250506_0953	0.9	130
20250506_1003	0.1	16
20250506_1013	0.1	130
20250506_1023	0.1	134
20250506_1033	0.1	66
20250506_1043	0.1	112
20250506_1053	0.1	97
20250506_1103	0.1	55
20250506_1113	0.1	103
20250506_1123	0.1	179
20250506_1133	0.5	139
20250506_1143	0.4	135
20250506_1153	0.2	111

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250506_1203	0.3	127
20250506_1213	0.1	165
20250506_1223	0.1	102
20250506_1233	0.1	142
20250506_1243	0.1	44
20250506_1253	0.1	91
20250506_1303	0.1	139
20250506_1313	0.1	169
20250506_1323	0.4	161
20250506_1333	0.1	110
20250506_1343	0.1	64
20250506_1353	0.1	74
20250506_1403	0.2	343
20250506_1413	0.1	125
20250506_1423	0.2	351
20250506_1433	0.1	203
20250506_1443	0.3	137
20250506_1453	1.1	352
20250506_1503	0.1	13
20250506_1513	0.2	351
20250506_1523	0.1	71
20250506_1533	0.2	64
20250506_1543	0.5	41
20250506_1553	0.1	337
20250506_1603	0.5	17
20250506_1613	0.1	25
20250506_1623	0.1	327
20250506_1633	0.1	27
20250506_1643	0.1	77
20250506_1653	0.1	123
20250506_1703	0.1	123
20250506_1713	0.1	113
20250506_1723	0.1	78
20250506_1733	0.4	23
20250506_1743	0.1	345
20250506_1753	0.1	68
20250506_1803	0.1	59
20250506_1813	0.1	85
20250506_1823	0.1	150
20250506_1833	0.1	132
20250506_1843	0.1	145
20250506_1853	0.1	297
20250506_1903	0.1	162
20250506_1913	0.1	150
20250506_1923	0.1	74
20250506_1933	0.1	320
20250506_1943	0.1	283
20250506_1953	0.1	140
20250506_2003	0.1	113
20250506_2013	0.1	348
20250506_2023	0.1	150
20250506_2033	0.1	303
20250506_2043	0.1	148
20250506_2053	0.1	128
20250506_2103	0.1	128
20250506_2113	0.1	43
20250506_2123	0.1	53
20250506_2133	0.1	53
20250506_2143	0.1	115
20250506_2153	0.1	102
20250506_2203	0.1	75
20250506_2213	0.1	132
20250506_2223	0.1	124
20250506_2233	0.1	124
20250506_2243	0.1	306
20250506_2253	0.1	123
20250506_2303	0.1	127
20250506_2313	0.1	127
20250506_2323	0.1	242
20250506_2333	0.1	151
20250506_2343	0.1	147
20250506_2353	0.1	93

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250507_0003	0.1	93
20250507_0013	0.1	57
20250507_0023	0.1	56
20250507_0033	0.1	145
20250507_0043	0.1	145
20250507_0053	0.1	287
20250507_0103	0.1	39
20250507_0113	0.1	131
20250507_0123	0.1	131
20250507_0133	0.1	133
20250507_0143	0.1	130
20250507_0153	0.1	130
20250507_0203	0.1	130
20250507_0213	0.1	130
20250507_0223	0.1	130
20250507_0233	0.1	103
20250507_0243	0.1	106
20250507_0253	0.1	145
20250507_0303	0.1	284
20250507_0313	0.1	109
20250507_0323	0.1	59
20250507_0333	0.1	3
20250507_0343	0.1	343
20250507_0353	0.1	183
20250507_0403	0.1	116
20250507_0413	0.1	48
20250507_0423	0.1	129
20250507_0433	0.1	146
20250507_0443	0.1	137
20250507_0453	0.1	123
20250507_0503	0.1	106
20250507_0513	0.1	154
20250507_0523	0.1	144
20250507_0533	0.1	102
20250507_0543	0.1	121
20250507_0553	0.1	132
20250507_0603	0.1	153
20250507_0613	0.1	153
20250507_0623	0.1	153
20250507_0633	0.1	153
20250507_0643	0.1	290
20250507_0653	0.1	136
20250507_0703	0.1	136
20250507_0713	0.1	91
20250507_0723	0.1	227
20250507_0733	0.1	147
20250507_0743	0.1	147
20250507_0753	0.1	136
20250507_0803	0.1	136
20250507_0813	0.1	136
20250507_0823	0.1	151
20250507_0833	0.1	142
20250507_0843	0.1	135
20250507_0853	0.1	135
20250507_0903	0.1	137
20250507_0913	0.1	263
20250507_0923	0.1	73
20250507_0933	0.1	49
20250507_0943	0.3	117
20250507_0953	0.1	6
20250507_1003	0.1	101
20250507_1013	0.1	324
20250507_1023	0.1	220
20250507_1033	0.1	306
20250507_1043	0.1	233
20250507_1053	0.1	150
20250507_1103	0.1	158
20250507_1113	0.1	104
20250507_1123	0.1	87
20250507_1133	0.1	276
20250507_1143	0.1	143
20250507_1153	0.1	90

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250507_1203	0.1	145
20250507_1213	0.1	114
20250507_1223	0.1	156
20250507_1233	0.1	261
20250507_1243	0.1	105
20250507_1253	0.1	122
20250507_1303	0.1	138
20250507_1313	0.1	333
20250507_1323	0.1	109
20250507_1333	0.2	72
20250507_1343	0.1	137.7
20250507_1353	0.1	326.9
20250507_1403	0.1	51.5
20250507_1413	0.1	108.5
20250507_1423	0.1	111.6
20250507_1433	0.1	41
20250507_1443	0.4	111
20250507_1453	0.3	125
20250507_1503	0.1	42
20250507_1513	0.1	76
20250507_1523	2.5	106
20250507_1533	0.1	56
20250507_1543	0.1	121
20250507_1553	0.1	337
20250507_1603	0.2	23
20250507_1613	0.1	293
20250507_1623	0.4	12
20250507_1633	0.1	66
20250507_1643	0.2	115
20250507_1653	0.6	4
20250507_1703	0.1	18
20250507_1713	0.1	27
20250507_1723	0.1	240
20250507_1733	0.1	88
20250507_1743	0.1	55
20250507_1753	0.8	33
20250507_1803	0.2	20
20250507_1813	0.1	23
20250507_1823	2.8	33
20250507_1833	0.2	55
20250507_1843	1.4	24
20250507_1853	2.4	25
20250507_1903	2.5	77
20250507_1913	1.4	339
20250507_1923	0.6	61
20250507_1933	0.9	110
20250507_1943	0.1	346
20250507_1953	2.9	60
20250507_2003	0.5	46
20250507_2013	0.3	28
20250507_2023	0.2	40
20250507_2033	0.6	52
20250507_2043	0.1	344
20250507_2053	1.3	349
20250507_2103	0.3	19
20250507_2113	4	5
20250507_2123	2.1	348
20250507_2133	2.1	89
20250507_2143	1.9	309
20250507_2153	0.1	171
20250507_2203	1.9	9
20250507_2213	0.1	125
20250507_2223	0.3	26
20250507_2233	0.9	103
20250507_2243	3.2	20
20250507_2253	0.1	38
20250507_2303	0.1	10
20250507_2313	0.1	19
20250507_2323	0.1	117
20250507_2333	2.2	312
20250507_2343	0.1	345
20250507_2353	1.2	114

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250508_0003	2.5	138
20250508_0013	1.1	44
20250508_0023	0.7	27
20250508_0033	0.1	199
20250508_0043	0.6	54
20250508_0053	0.2	331
20250508_0103	0.1	21
20250508_0113	0.2	72
20250508_0123	0.5	63
20250508_0133	0.4	42
20250508_0143	0.2	29
20250508_0153	0.1	25
20250508_0203	2	346
20250508_0213	0.2	18
20250508_0223	0.1	30
20250508_0233	0.6	149
20250508_0243	0.5	157
20250508_0253	1	76
20250508_0303	0.5	38
20250508_0313	0.6	117
20250508_0323	0.1	305
20250508_0333	0.9	105
20250508_0343	2.5	44
20250508_0353	0.1	28
20250508_0403	0.4	160
20250508_0413	2.6	299
20250508_0423	3.3	101
20250508_0433	0.8	39
20250508_0443	0.6	12
20250508_0453	0.3	136
20250508_0503	0.2	42
20250508_0513	0.3	302
20250508_0523	0.1	142
20250508_0533	3.3	325
20250508_0543	0.3	68
20250508_0553	0.1	188
20250508_0603	0.2	45
20250508_0613	0.5	147
20250508_0623	3.8	316
20250508_0633	0.1	173
20250508_0643	0.2	37
20250508_0653	1.1	354
20250508_0703	0.2	3
20250508_0713	0.2	7
20250508_0723	0.1	50
20250508_0733	0.1	151
20250508_0743	0.1	351
20250508_0753	0.1	0
20250508_0803	1.2	126
20250508_0813	1	50
20250508_0823	0.1	43
20250508_0833	0.9	342
20250508_0843	0.6	41
20250508_0853	0.1	124
20250508_0903	0.1	353
20250508_0913	0.1	57
20250508_0923	0.8	85
20250508_0933	0.1	24
20250508_0943	0.2	18
20250508_0953	3.6	30
20250508_1003	1.2	349
20250508_1013	0.4	313
20250508_1023	2.9	69
20250508_1033	0.9	13
20250508_1043	1	5
20250508_1053	1.1	340
20250508_1103	1.8	7
20250508_1113	1.3	84
20250508_1123	0.1	315
20250508_1133	0.8	42
20250508_1143	0.1	330
20250508_1153	0.1	300

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250508_1203	0.2	259
20250508_1213	4.4	344
20250508_1223	0.7	320
20250508_1233	1.5	265
20250508_1243	0.1	36
20250508_1253	5	129
20250508_1303	2.2	52
20250508_1313	0.1	345
20250508_1323	0.1	340
20250508_1333	0.1	106
20250508_1343	0.1	34
20250508_1353	0.1	339
20250508_1403	0.3	351
20250508_1413	0.1	341
20250508_1423	0.1	142
20250508_1433	0.1	157
20250508_1443	1.4	151
20250508_1453	0.1	55
20250508_1503	0.6	321
20250508_1513	0.1	300
20250508_1523	0.1	7
20250508_1533	0.2	77
20250508_1543	1	8
20250508_1553	0.6	347
20250508_1603	0.1	68
20250508_1613	9.2	101
20250508_1623	0.1	48
20250508_1633	0.2	59
20250508_1643	0.1	58
20250508_1653	0.1	31
20250508_1703	0.1	2
20250508_1713	0.6	81
20250508_1723	1.3	61
20250508_1733	0.1	354
20250508_1743	0.7	331
20250508_1753	0.1	14
20250508_1803	0.2	3
20250508_1813	0.2	10
20250508_1823	0.7	43
20250508_1833	1.8	91
20250508_1843	0.1	340
20250508_1853	0.1	50
20250508_1903	0.1	92
20250508_1913	0.1	55
20250508_1923	4.3	2
20250508_1933	0.1	251
20250508_1943	0.1	92
20250508_1953	0.1	208
20250508_2003	0.1	9
20250508_2013	0.1	1
20250508_2023	1.4	330
20250508_2033	0.1	64
20250508_2043	0.1	272
20250508_2053	0.1	68
20250508_2103	0.1	330
20250508_2113	0.1	29
20250508_2123	0.1	294
20250508_2133	0.3	350
20250508_2143	0.1	8
20250508_2153	0.1	298
20250508_2203	0.1	58
20250508_2213	0.1	89
20250508_2223	0.1	79
20250508_2233	0.1	54
20250508_2243	0.1	2
20250508_2253	0.1	10
20250508_2303	0.7	331
20250508_2313	0.1	44
20250508_2323	0.1	29
20250508_2333	0.1	351
20250508_2343	0.1	277
20250508_2353	0.1	324

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250509_0003	0.1	27
20250509_0013	0.1	110
20250509_0023	0.1	101
20250509_0033	0.1	100
20250509_0043	0.1	257
20250509_0053	0.1	91
20250509_0103	0.1	95
20250509_0113	0.1	131
20250509_0123	0.1	172
20250509_0133	0.1	108
20250509_0143	0.1	131
20250509_0153	0.1	74
20250509_0203	0.1	103
20250509_0213	0.1	61
20250509_0223	0.1	40
20250509_0233	0.1	328
20250509_0243	0.3	69
20250509_0253	0.1	353
20250509_0303	0.1	211
20250509_0313	0.1	57
20250509_0323	0.1	81
20250509_0333	0.3	39
20250509_0343	0.1	325
20250509_0353	0.1	68
20250509_0403	0.1	4
20250509_0413	0.4	172
20250509_0423	0.1	44
20250509_0433	0.2	153
20250509_0443	0.7	316
20250509_0453	0.1	146
20250509_0503	0.1	106
20250509_0513	0.1	272
20250509_0523	0.1	58
20250509_0533	0.1	150
20250509_0543	0.1	112
20250509_0553	0.1	101
20250509_0603	0.1	61
20250509_0613	0.1	297
20250509_0623	0.1	99
20250509_0633	0.1	91
20250509_0643	0.3	128
20250509_0653	0.1	54
20250509_0703	0.3	100
20250509_0713	0.1	165
20250509_0723	0.1	14
20250509_0733	0.1	142
20250509_0743	0.1	137
20250509_0753	0.1	243
20250509_0803	0.1	336
20250509_0813	0.1	342
20250509_0823	0.1	64
20250509_0833	0.1	187
20250509_0843	0.1	170
20250509_0853	0.1	176
20250509_0903	0.1	200
20250509_0913	0.1	127
20250509_0923	0.1	101
20250509_0933	0.1	132
20250509_0943	0.1	148
20250509_0953	0.3	139
20250509_1003	0.1	107
20250509_1013	3.7	114
20250509_1023	1.6	20
20250509_1033	0.6	22
20250509_1043	0.2	166
20250509_1053	0.5	151
20250509_1103	0.1	131
20250509_1113	0.7	137
20250509_1123	0.1	91
20250509_1133	0.3	138
20250509_1143	0.6	149
20250509_1153	0.1	31

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250509_1203	1.6	152
20250509_1213	0.1	254
20250509_1223	0.1	318
20250509_1233	0.1	331
20250509_1243	0.2	140
20250509_1253	0.1	108
20250509_1303	0.7	135
20250509_1313	0.2	123
20250509_1323	0.1	259
20250509_1333	0.3	132
20250509_1343	0.1	155
20250509_1353	0.1	224
20250509_1403	0.1	132
20250509_1413	0.1	102
20250509_1423	0.1	118
20250509_1433	0.2	261
20250509_1443	0.1	158
20250509_1453	0.1	123
20250509_1503	0.1	96
20250509_1513	0.4	283
20250509_1523	0.1	129
20250509_1533	0.1	221
20250509_1543	0.1	162
20250509_1553	0.1	109
20250509_1603	0.1	93
20250509_1613	0.1	160
20250509_1623	0.1	119
20250509_1633	0.5	136
20250509_1643	0.1	46
20250509_1653	0.1	166
20250509_1703	0.1	237
20250509_1713	0.1	270
20250509_1723	0.1	296
20250509_1733	0.1	132
20250509_1743	0.1	142
20250509_1753	0.1	151
20250509_1803	0.1	146
20250509_1813	0.1	146
20250509_1823	0.1	116
20250509_1833	0.1	106
20250509_1843	0.1	136
20250509_1853	0.1	109
20250509_1903	0.1	196
20250509_1913	0.1	79
20250509_1923	0.1	82
20250509_1933	0.1	106
20250509_1943	0.1	326
20250509_1953	0.1	97
20250509_2003	0.1	96
20250509_2013	0.1	97
20250509_2023	0.1	95
20250509_2033	0.1	120
20250509_2043	0.1	120
20250509_2053	0.1	120
20250509_2103	0.1	120
20250509_2113	0.1	111
20250509_2123	0.1	111
20250509_2133	0.1	92
20250509_2143	0.1	140
20250509_2153	0.1	140
20250509_2203	0.1	109
20250509_2213	0.1	109
20250509_2223	0.1	122
20250509_2233	0.1	9
20250509_2243	0.1	111
20250509_2253	0.1	96
20250509_2303	0.1	92
20250509_2313	0.1	98
20250509_2323	0.1	98
20250509_2333	0.1	99
20250509_2343	0.1	99
20250509_2353	0.1	99

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250510_0003	0.1	59
20250510_0013	0.1	59
20250510_0023	0.1	86
20250510_0033	0.1	86
20250510_0043	0.1	86
20250510_0053	0.1	66
20250510_0103	0.1	344
20250510_0113	0.1	277
20250510_0123	0.1	277
20250510_0133	0.1	52
20250510_0143	0.1	30
20250510_0153	0.1	101
20250510_0203	0.1	120
20250510_0213	0.1	120
20250510_0223	0.1	118
20250510_0233	0.1	118
20250510_0243	0.1	65
20250510_0253	0.1	339
20250510_0303	0.1	100
20250510_0313	0.1	100
20250510_0323	0.1	100
20250510_0333	0.1	294
20250510_0343	0.1	154
20250510_0353	0.1	182
20250510_0403	0.1	174
20250510_0413	0.1	62
20250510_0423	0.1	101
20250510_0433	0.1	337
20250510_0443	0.1	69
20250510_0453	0.1	74
20250510_0503	0.1	74
20250510_0513	0.1	74
20250510_0523	0.1	313
20250510_0533	0.1	314
20250510_0543	0.1	314
20250510_0553	0.1	314
20250510_0603	0.1	47
20250510_0613	0.1	23
20250510_0623	0.1	340
20250510_0633	0.1	63
20250510_0643	0.1	12
20250510_0653	0.1	107
20250510_0703	0.1	279
20250510_0713	0.1	289
20250510_0723	0.1	291
20250510_0733	0.1	262
20250510_0743	0.1	283
20250510_0753	0.1	94
20250510_0803	0.1	201
20250510_0813	0.1	58
20250510_0823	0.1	224
20250510_0833	0.1	233
20250510_0843	0.1	319
20250510_0853	0.1	259
20250510_0903	0.1	146
20250510_0913	0.1	59
20250510_0923	0.2	139
20250510_0933	0.1	137
20250510_0943	0.1	119
20250510_0953	0.1	168
20250510_1003	0.1	237
20250510_1013	0.1	120
20250510_1023	0.1	327
20250510_1033	0.1	170
20250510_1043	0.1	147
20250510_1053	0.1	32
20250510_1103	0.1	135
20250510_1113	0.1	151
20250510_1123	0.1	117
20250510_1133	0.1	77
20250510_1143	0.1	90
20250510_1153	0.1	132

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250510_1203	0.4	85
20250510_1213	0.1	71
20250510_1223	0.1	139
20250510_1233	0.1	279
20250510_1243	0.1	299
20250510_1253	0.1	135
20250510_1303	1.4	116
20250510_1313	0.1	55
20250510_1323	0.1	83
20250510_1333	0.1	8
20250510_1343	0.1	122
20250510_1353	0.3	89
20250510_1403	0.6	314
20250510_1413	0.1	6
20250510_1423	0.3	335
20250510_1433	0.1	320
20250510_1443	0.1	73
20250510_1453	1.3	54
20250510_1503	0.3	351
20250510_1513	0.1	36
20250510_1523	0.1	77
20250510_1533	0.1	47
20250510_1543	0.1	353
20250510_1553	0.1	3
20250510_1603	1.1	129
20250510_1613	0.1	97
20250510_1623	0.1	24
20250510_1633	0.1	85
20250510_1643	0.1	110
20250510_1653	0.1	119
20250510_1703	0.1	118
20250510_1713	0.1	123
20250510_1723	0.1	270
20250510_1733	0.6	65
20250510_1743	0.3	68
20250510_1753	0.4	58
20250510_1803	0.1	63
20250510_1813	0.1	18
20250510_1823	0.4	343
20250510_1833	0.1	347
20250510_1843	1.2	296
20250510_1853	0.1	100
20250510_1903	0.1	347
20250510_1913	0.1	203
20250510_1923	0.1	18
20250510_1933	0.1	121
20250510_1943	0.1	316
20250510_1953	2	312
20250510_2003	0.1	128
20250510_2013	0.1	138
20250510_2023	0.1	121
20250510_2033	0.1	352
20250510_2043	0.1	104
20250510_2053	4.1	344
20250510_2103	0.9	342
20250510_2113	0.1	337
20250510_2123	0.2	314
20250510_2133	0.2	351
20250510_2143	0.3	330
20250510_2153	0.1	71
20250510_2203	0.1	95
20250510_2213	0.1	29
20250510_2223	0.1	57
20250510_2233	0.1	127
20250510_2243	0.1	97
20250510_2253	0.1	311
20250510_2303	0.1	109
20250510_2313	0.1	144
20250510_2323	0.1	136
20250510_2333	0.1	136
20250510_2343	0.1	129
20250510_2353	0.1	98

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250511_0003	0.1	141
20250511_0013	0.1	36
20250511_0023	0.1	303
20250511_0033	0.1	326
20250511_0043	0.7	144
20250511_0053	0.2	298
20250511_0103	0.1	255
20250511_0113	0.1	338
20250511_0123	0.1	76
20250511_0133	0.1	136
20250511_0143	0.1	141
20250511_0153	0.1	135
20250511_0203	0.1	42
20250511_0213	1.1	353
20250511_0223	0.5	115
20250511_0233	0.1	306
20250511_0243	1.1	288
20250511_0253	0.1	202
20250511_0303	0.1	23
20250511_0313	0.8	320
20250511_0323	0.1	319
20250511_0333	12.4	150
20250511_0343	1.2	318
20250511_0353	0.1	291
20250511_0403	0.1	129
20250511_0413	0.1	164
20250511_0423	0.1	166
20250511_0433	0.2	86
20250511_0443	0.1	325
20250511_0453	0.1	123
20250511_0503	0.1	52
20250511_0513	0.1	340
20250511_0523	0.1	133
20250511_0533	0.1	336
20250511_0543	0.1	7
20250511_0553	0.1	104
20250511_0603	0.1	144
20250511_0613	0.1	3
20250511_0623	0.6	0
20250511_0633	0.2	25
20250511_0643	0.1	351
20250511_0653	0.1	60
20250511_0703	0.1	150
20250511_0713	0.1	244
20250511_0723	0.6	346
20250511_0733	2.3	23
20250511_0743	0.1	87
20250511_0753	0.1	350
20250511_0803	0.1	175
20250511_0813	0.1	121
20250511_0823	0.1	87
20250511_0833	0.1	158
20250511_0843	0.1	324
20250511_0853	0.1	317
20250511_0903	0.1	322
20250511_0913	4.5	312
20250511_0923	2.1	75
20250511_0933	0.1	91
20250511_0943	0.1	111
20250511_0953	0.9	327
20250511_1003	0.5	318
20250511_1013	4.8	307
20250511_1023	2.3	320
20250511_1033	2.8	87
20250511_1043	0.1	253
20250511_1053	1.9	316
20250511_1103	5.5	84
20250511_1113	0.1	327
20250511_1123	0.2	61
20250511_1133	0.5	58
20250511_1143	0.1	18
20250511_1153	0.1	160

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250511_1203	0.2	307
20250511_1213	1.1	55
20250511_1223	0.1	3
20250511_1233	2.8	294
20250511_1243	0.1	190
20250511_1253	3.4	329
20250511_1303	5.3	298
20250511_1313	0.4	29
20250511_1323	1	9
20250511_1333	0.3	337
20250511_1343	0.6	286
20250511_1353	1.9	5
20250511_1403	1	333
20250511_1413	0.4	19
20250511_1423	0.2	305
20250511_1433	0.5	350
20250511_1443	0.8	343
20250511_1453	0.1	349
20250511_1503	0.2	327
20250511_1513	0.9	62
20250511_1523	0.1	325
20250511_1533	0.3	78
20250511_1543	0.9	102
20250511_1553	0.1	71
20250511_1603	0.6	74
20250511_1613	0.3	67
20250511_1623	0.1	6
20250511_1633	0.1	343
20250511_1643	0.1	92
20250511_1653	0.3	86
20250511_1703	0.1	14
20250511_1713	0.1	200
20250511_1723	0.3	7
20250511_1733	1.5	325
20250511_1743	1	315
20250511_1753	3.9	331
20250511_1803	0.1	24
20250511_1813	0.4	109
20250511_1823	0.3	297
20250511_1833	0.3	141
20250511_1843	0.7	125
20250511_1853	0.4	111
20250511_1903	0.1	138
20250511_1913	0.5	102
20250511_1923	0.5	147
20250511_1933	1.7	50
20250511_1943	0.1	157
20250511_1953	1.2	75
20250511_2003	0.1	311
20250511_2013	0.4	323
20250511_2023	2.4	115
20250511_2033	0.3	171
20250511_2043	0.5	84
20250511_2053	0.4	103
20250511_2103	2.4	109
20250511_2113	2.7	342
20250511_2123	0.2	110
20250511_2133	0.1	18
20250511_2143	0.1	17
20250511_2153	0.1	225
20250511_2203	0.1	281
20250511_2213	0.1	353
20250511_2223	0.1	80
20250511_2233	0.1	108
20250511_2243	0.1	267
20250511_2253	0.1	230
20250511_2303	0.1	307
20250511_2313	0.1	220
20250511_2323	0.1	139
20250511_2333	0.1	88
20250511_2343	0.1	96
20250511_2353	0.1	108

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250512_0003	0.1	293
20250512_0013	0.1	191
20250512_0023	0.1	172
20250512_0033	0.1	120
20250512_0043	0.1	104
20250512_0053	0.1	115
20250512_0103	0.1	128
20250512_0113	0.1	98
20250512_0123	0.1	76
20250512_0133	0.1	49
20250512_0143	0.1	114
20250512_0153	0.1	87
20250512_0203	0.1	45
20250512_0213	0.1	45
20250512_0223	0.1	67
20250512_0233	0.1	350
20250512_0243	0.1	44
20250512_0253	0.1	198
20250512_0303	0.1	71
20250512_0313	0.1	50
20250512_0323	0.1	86
20250512_0333	0.1	117
20250512_0343	0.1	71
20250512_0353	0.1	58
20250512_0403	0.1	173
20250512_0413	0.1	267
20250512_0423	0.1	122
20250512_0433	0.1	351
20250512_0443	0.1	44
20250512_0453	0.1	146
20250512_0503	0.1	176
20250512_0513	0.1	122
20250512_0523	0.1	89
20250512_0533	0.1	73
20250512_0543	0.1	347
20250512_0553	0.1	294
20250512_0603	0.1	146
20250512_0613	0.1	141
20250512_0623	0.1	85
20250512_0633	0.1	48
20250512_0643	0.1	120
20250512_0653	0.1	342
20250512_0703	0.1	126
20250512_0713	0.1	139
20250512_0723	0.1	142
20250512_0733	0.1	135
20250512_0743	0.1	150
20250512_0753	0.1	107
20250512_0803	0.1	134
20250512_0813	0.1	138
20250512_0823	0.3	142
20250512_0833	0.7	131
20250512_0843	0.1	126
20250512_0853	0.1	283
20250512_0903	0.1	347
20250512_0913	0.1	163
20250512_0923	0.3	319
20250512_0933	1.3	150
20250512_0943	0.1	207
20250512_0953	1.2	343
20250512_1003	0.1	99
20250512_1013	1.5	128
20250512_1023	0.5	343
20250512_1033	1.8	29
20250512_1043	1.6	120
20250512_1053	2.1	66
20250512_1103	0.2	283
20250512_1113	0.3	187
20250512_1123	1.2	339
20250512_1133	1.9	166
20250512_1143	0.2	334
20250512_1153	0.2	157

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250512_1203	0.3	44
20250512_1213	0.6	292
20250512_1223	1.5	92
20250512_1233	2.2	340
20250512_1243	0.4	212
20250512_1253	1.2	58
20250512_1303	0.1	83
20250512_1313	0.1	265
20250512_1323	1	121
20250512_1333	0.2	169
20250512_1343	0.2	322
20250512_1353	0.1	59
20250512_1403	1.7	333
20250512_1413	0.1	160
20250512_1423	0.1	187
20250512_1433	0.2	16
20250512_1443	3	329
20250512_1453	0.2	52
20250512_1503	0.6	45
20250512_1513	1.7	25
20250512_1523	1.8	306
20250512_1533	0.6	1
20250512_1543	0.2	187
20250512_1553	1	24
20250512_1603	0.3	41
20250512_1613	0.5	25
20250512_1623	0.6	49
20250512_1633	1.3	10
20250512_1643	1.3	352
20250512_1653	0.3	21
20250512_1703	1.5	346
20250512_1713	0.2	64
20250512_1723	1.3	52
20250512_1733	2.1	5
20250512_1743	0.9	352
20250512_1753	1.6	330
20250512_1803	0.8	145
20250512_1813	1.1	23
20250512_1823	2.1	327
20250512_1833	0.7	282
20250512_1843	0.2	318
20250512_1853	0.1	102
20250512_1903	0.3	56
20250512_1913	0.1	313
20250512_1923	0.2	111
20250512_1933	0.1	31
20250512_1943	0.1	36
20250512_1953	0.2	41
20250512_2003	0.5	164
20250512_2013	0.2	261
20250512_2023	0.2	354
20250512_2033	0.1	92
20250512_2043	0.6	61
20250512_2053	0.5	157
20250512_2103	0.1	71
20250512_2113	0.3	348
20250512_2123	0.9	72
20250512_2133	0.7	16
20250512_2143	0.1	58
20250512_2153	0.9	34
20250512_2203	0.2	58
20250512_2213	0.5	44
20250512_2223	1.4	24
20250512_2233	0.7	22
20250512_2243	0.3	325
20250512_2253	2.6	19
20250512_2303	0.1	54
20250512_2313	2.6	29
20250512_2323	0.6	352
20250512_2333	0.1	19
20250512_2343	0.1	57
20250512_2353	0.3	34

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250513_0003	1.3	112
20250513_0013	5	42
20250513_0023	0.8	89
20250513_0033	0.3	73
20250513_0043	0.1	57
20250513_0053	0.1	124
20250513_0103	0.1	147
20250513_0113	0.1	112
20250513_0123	0.1	279
20250513_0133	0.1	56
20250513_0143	0.1	66
20250513_0153	0.8	120
20250513_0203	0.1	322
20250513_0213	0.1	155
20250513_0223	0.1	205
20250513_0233	0.1	280
20250513_0243	0.1	145
20250513_0253	0.1	151
20250513_0303	0.1	145
20250513_0313	0.1	148
20250513_0323	0.1	298
20250513_0333	0.1	99
20250513_0343	0.1	77
20250513_0353	0.1	164
20250513_0403	0.1	104
20250513_0413	0.3	134
20250513_0423	0.1	318
20250513_0433	0.1	25
20250513_0443	0.1	124
20250513_0453	0.1	277
20250513_0503	0.1	225
20250513_0513	0.1	334
20250513_0523	0.1	115
20250513_0533	0.1	161
20250513_0543	0.1	283
20250513_0553	0.1	298
20250513_0603	0.1	146
20250513_0613	0.1	79
20250513_0623	0.2	325
20250513_0633	0.6	304
20250513_0643	0.1	341
20250513_0653	0.1	316
20250513_0703	0.2	314
20250513_0713	0.1	57
20250513_0723	0.1	122
20250513_0733	1	341
20250513_0743	0.5	350
20250513_0753	0.6	351
20250513_0803	0.1	82
20250513_0813	0.7	352
20250513_0823	0.3	32
20250513_0833	0.2	29
20250513_0843	0.6	33
20250513_0853	0.1	20
20250513_0903	1.5	143
20250513_0913	0.1	84
20250513_0923	0.3	338
20250513_0933	0.7	106
20250513_0943	0.1	353
20250513_0953	0.1	57
20250513_1003	1	51
20250513_1013	0.1	333
20250513_1023	2.7	147
20250513_1033	0.6	68
20250513_1043	1.5	33
20250513_1053	0.1	35
20250513_1103	0.2	38
20250513_1113	0.1	247
20250513_1123	0.7	82
20250513_1133	0.8	350
20250513_1143	1.2	37
20250513_1153	0.4	240

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250513_1203	0.5	112
20250513_1213	2.2	121
20250513_1223	0.3	342
20250513_1233	0.7	48
20250513_1243	0.9	82
20250513_1253	0.5	345
20250513_1303	1.6	334
20250513_1313	0.2	343
20250513_1323	0.1	41
20250513_1333	6.4	10
20250513_1343	0.7	350
20250513_1353	1.8	67
20250513_1403	2.1	1
20250513_1413	0.7	97
20250513_1423	0.2	15
20250513_1433	2.5	314
20250513_1443	0.6	293
20250513_1453	1	347
20250513_1503	2.9	36
20250513_1513	0.6	9
20250513_1523	0.1	271
20250513_1533	0.4	49
20250513_1543	2.2	334
20250513_1553	1.6	88
20250513_1603	0.3	69
20250513_1613	1.9	31
20250513_1623	0.7	23
20250513_1633	0.2	136
20250513_1643	0.1	80
20250513_1653	0.4	50
20250513_1703	0.9	66
20250513_1713	1.9	40
20250513_1723	1.3	347
20250513_1733	1.2	65
20250513_1743	0.4	7
20250513_1753	0.1	181
20250513_1803	0.3	345
20250513_1813	0.1	37
20250513_1823	0.7	15
20250513_1833	0.3	142
20250513_1843	0.1	70
20250513_1853	0.1	33
20250513_1903	0.2	8
20250513_1913	0.2	90
20250513_1923	0.7	91
20250513_1933	0.2	117
20250513_1943	6.5	169
20250513_1953	1.4	30
20250513_2003	0.1	209
20250513_2013	0.3	134
20250513_2023	0.1	342
20250513_2033	0.1	207
20250513_2043	0.3	101
20250513_2053	0.1	42
20250513_2103	0.1	77
20250513_2113	0.8	205
20250513_2123	0.1	93
20250513_2133	0.2	230
20250513_2143	0.2	342
20250513_2153	0.6	32
20250513_2203	0.5	8
20250513_2213	1.5	76
20250513_2223	0.2	100
20250513_2233	0.6	76
20250513_2243	1.3	19
20250513_2253	0.4	75
20250513_2303	0.3	59
20250513_2313	0.3	330
20250513_2323	0.3	81
20250513_2333	0.7	137
20250513_2343	0.1	16
20250513_2353	1.3	31

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250514_0003	0.1	53
20250514_0013	0.6	70
20250514_0023	0.7	38
20250514_0033	1.4	338
20250514_0043	0.2	321
20250514_0053	0.1	120
20250514_0103	0.2	18
20250514_0113	1.3	45
20250514_0123	0.1	53
20250514_0133	0.1	328
20250514_0143	0.3	106
20250514_0153	0.3	135
20250514_0203	0.1	141
20250514_0213	0.1	134
20250514_0223	0.1	266
20250514_0233	1.3	69
20250514_0243	1	0
20250514_0253	0.1	338
20250514_0303	0.1	47
20250514_0313	0.3	346
20250514_0323	0.1	136
20250514_0333	0.1	342
20250514_0343	0.1	139
20250514_0353	1.1	121
20250514_0403	1.5	113
20250514_0413	0.2	104
20250514_0423	0.1	2
20250514_0433	0.1	89
20250514_0443	0.1	135
20250514_0453	0.1	56
20250514_0503	0.1	124
20250514_0513	0.1	92
20250514_0523	0.1	150
20250514_0533	0.2	101
20250514_0543	0.2	152
20250514_0553	0.1	150
20250514_0603	0.1	209
20250514_0613	0.2	76
20250514_0623	0.1	93
20250514_0633	0.6	47
20250514_0643	0.4	37
20250514_0653	0.1	66
20250514_0703	0.1	100
20250514_0713	0.1	97
20250514_0723	0.1	45
20250514_0733	0.4	28
20250514_0743	0.9	343
20250514_0753	0.1	345
20250514_0803	0.3	212
20250514_0813	0.2	2
20250514_0823	0.1	300
20250514_0833	0.5	297
20250514_0843	1	317
20250514_0853	1.9	346
20250514_0903	0.2	86
20250514_0913	0.2	320
20250514_0923	1.2	320
20250514_0933	0.9	56
20250514_0943	0.1	285
20250514_0953	0.1	249
20250514_1003	0.1	270
20250514_1013	0.4	53
20250514_1023	2	50
20250514_1033	6.1	330
20250514_1043	0.2	42
20250514_1053	1.7	138
20250514_1103	0.7	152
20250514_1113	0.5	324
20250514_1123	1.1	156
20250514_1133	1.9	11
20250514_1143	0.2	350
20250514_1153	0.1	96

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250514_1203	2.1	219
20250514_1213	5.2	143
20250514_1223	1.4	179
20250514_1233	1.2	246
20250514_1243	3	21
20250514_1253	1.9	11
20250514_1303	1.4	5
20250514_1313	1.8	35
20250514_1323	3.4	28
20250514_1333	1.4	0
20250514_1343	2.7	338
20250514_1353	1	8
20250514_1403	3.7	316
20250514_1413	2.2	305
20250514_1423	0.2	60
20250514_1433	3.1	4
20250514_1443	1.2	349
20250514_1453	0.3	57
20250514_1503	3	67
20250514_1513	3.4	344
20250514_1523	0.5	352
20250514_1533	1.4	337
20250514_1543	0.6	322
20250514_1553	2.4	28
20250514_1603	1.8	19
20250514_1613	0.1	87
20250514_1623	1.1	19
20250514_1633	0.1	340
20250514_1643	0.3	106
20250514_1653	0.5	336
20250514_1703	0.3	83
20250514_1713	0.3	37
20250514_1723	0.5	20
20250514_1733	1.9	54
20250514_1743	2.6	50
20250514_1753	0.2	49
20250514_1803	4.1	317
20250514_1813	0.6	31
20250514_1823	3.7	345
20250514_1833	0.1	38
20250514_1843	0.6	37
20250514_1853	0.1	157
20250514_1903	0.1	39
20250514_1913	0.3	347
20250514_1923	1	2
20250514_1933	0.6	4
20250514_1943	0.2	71
20250514_1953	0.9	35
20250514_2003	0.2	195
20250514_2013	0.1	28
20250514_2023	1.3	8
20250514_2033	0.1	63
20250514_2043	0.1	35
20250514_2053	0.8	53
20250514_2103	0.1	122
20250514_2113	0.2	56
20250514_2123	0.1	99
20250514_2133	0.3	344
20250514_2143	0.4	101
20250514_2153	1.4	27
20250514_2203	0.4	82
20250514_2213	0.5	128
20250514_2223	1.2	296
20250514_2233	0.1	156
20250514_2243	0.2	53
20250514_2253	0.2	9
20250514_2303	4.1	136
20250514_2313	1.1	17
20250514_2323	0.2	91
20250514_2333	0.5	46
20250514_2343	0.8	293
20250514_2353	0.3	102

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250515_0003	0.1	78
20250515_0013	0.1	73
20250515_0023	1.8	144
20250515_0033	0.2	242
20250515_0043	0.6	42
20250515_0053	0.3	120
20250515_0103	0.1	96
20250515_0113	0.2	344
20250515_0123	0.1	313
20250515_0133	0.1	222
20250515_0143	0.1	315
20250515_0153	0.3	112
20250515_0203	0.1	53
20250515_0213	0.1	267
20250515_0223	0.2	344
20250515_0233	0.9	13
20250515_0243	0.1	302
20250515_0253	0.1	157
20250515_0303	0.1	141
20250515_0313	0.2	149
20250515_0323	0.1	127
20250515_0333	0.1	20
20250515_0343	0.1	336
20250515_0353	0.2	344
20250515_0403	0.1	13
20250515_0413	0.1	9
20250515_0423	0.1	106
20250515_0433	0.1	90
20250515_0443	0.1	290
20250515_0453	0.1	46
20250515_0503	0.1	4
20250515_0513	0.1	349
20250515_0523	0.1	9
20250515_0533	0.1	19
20250515_0543	0.1	64
20250515_0553	0.1	304
20250515_0603	0.3	117
20250515_0613	0.1	331
20250515_0623	0.1	123
20250515_0633	0.2	31
20250515_0643	0.1	290
20250515_0653	0.1	352
20250515_0703	0.1	305
20250515_0713	0.4	83
20250515_0723	0.9	332
20250515_0733	0.3	176
20250515_0743	0.6	323
20250515_0753	0.7	327
20250515_0803	0.3	346
20250515_0813	0.5	330
20250515_0823	0.1	107
20250515_0833	0.9	342
20250515_0843	0.1	40
20250515_0853	0.3	12
20250515_0903	0.5	331
20250515_0913	0.5	6
20250515_0923	3.4	347
20250515_0933	0.9	316
20250515_0943	2.1	21
20250515_0953	1	10
20250515_1003	0.4	11
20250515_1013	1.4	289
20250515_1023	0.9	40
20250515_1033	1.7	341
20250515_1043	0.1	246
20250515_1053	0.2	288
20250515_1103	0.2	323
20250515_1113	0.1	319
20250515_1123	0.8	120
20250515_1133	0.1	75
20250515_1143	0.9	322
20250515_1153	0.7	229

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250515_1203	0.2	37
20250515_1213	0.2	331
20250515_1223	0.1	247
20250515_1233	0.1	328
20250515_1243	0.5	61
20250515_1253	0.6	325
20250515_1303	0.7	82
20250515_1313	0.2	-1
20250515_1323	2.3	10
20250515_1333	2.8	311
20250515_1343	1.5	132
20250515_1353	3.2	9
20250515_1403	3	349
20250515_1413	1.1	34
20250515_1423	3.9	347
20250515_1433	1.7	17
20250515_1443	3.8	113
20250515_1453	3.6	348
20250515_1503	0.2	315
20250515_1513	2.2	314
20250515_1523	2.1	344
20250515_1533	5.8	351
20250515_1543	1.7	118
20250515_1553	0.1	41
20250515_1603	2.2	137
20250515_1613	5.6	138
20250515_1623	1	61
20250515_1633	0.1	185
20250515_1643	5	348
20250515_1653	2	319
20250515_1703	2.1	316
20250515_1713	1.3	345
20250515_1723	0.5	343
20250515_1733	1.6	316
20250515_1743	2.1	13
20250515_1753	0.6	340
20250515_1803	1.8	354
20250515_1813	0.2	41
20250515_1823	0.1	350
20250515_1833	0.1	346
20250515_1843	0.2	38
20250515_1853	0.1	67
20250515_1903	0.8	339
20250515_1913	0.3	0
20250515_1923	0.2	168
20250515_1933	1.1	50
20250515_1943	0.4	89
20250515_1953	0.1	343
20250515_2003	0.2	35
20250515_2013	0.1	332
20250515_2023	0.2	315
20250515_2033	2.7	341
20250515_2043	0.6	11
20250515_2053	0.1	15
20250515_2103	0.1	341
20250515_2113	0.4	311
20250515_2123	0.5	338
20250515_2133	0.3	164
20250515_2143	0.1	330
20250515_2153	0.2	82
20250515_2203	0.2	102
20250515_2213	1.1	154
20250515_2223	0.2	25
20250515_2233	0.4	82
20250515_2243	0.3	124
20250515_2253	0.1	193
20250515_2303	0.1	49
20250515_2313	0.4	12
20250515_2323	0.9	69
20250515_2333	0.8	4
20250515_2343	0.1	28
20250515_2353	0.1	246

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250516_0003	0.5	61
20250516_0013	0.1	56
20250516_0023	0.2	325
20250516_0033	1.5	10
20250516_0043	0.2	100
20250516_0053	0.1	353
20250516_0103	0.1	185
20250516_0113	0.2	29
20250516_0123	0.6	2
20250516_0133	0.1	47
20250516_0143	0.1	352
20250516_0153	0.7	327
20250516_0203	0.5	154
20250516_0213	1.3	19
20250516_0223	0.2	17
20250516_0233	0.1	175
20250516_0243	0.2	350
20250516_0253	0.3	43
20250516_0303	0.1	37
20250516_0313	0.1	235
20250516_0323	0.1	86
20250516_0333	0.3	64
20250516_0343	0.1	29
20250516_0353	0.2	78
20250516_0403	0.1	7
20250516_0413	0.1	59
20250516_0423	0.9	332
20250516_0433	0.5	60
20250516_0443	0.9	101
20250516_0453	0.1	221
20250516_0503	0.1	343
20250516_0513	0.1	32
20250516_0523	0.1	61
20250516_0533	0.1	113
20250516_0543	0.1	21
20250516_0553	0.1	133
20250516_0603	0.1	25
20250516_0613	0.8	104
20250516_0623	0.1	175
20250516_0633	0.2	5
20250516_0643	0.2	339
20250516_0653	0.3	97
20250516_0703	0.1	308
20250516_0713	0.7	254
20250516_0723	0.2	51
20250516_0733	0.1	7
20250516_0743	0.2	165
20250516_0753	0.4	119
20250516_0803	0.1	275
20250516_0813	0.2	299
20250516_0823	0.4	112
20250516_0833	0.4	40
20250516_0843	0.4	335
20250516_0853	0.2	9
20250516_0903	1	351
20250516_0913	0.6	18
20250516_0923	0.2	83
20250516_0933	0.7	317
20250516_0943	0.4	90
20250516_0953	0.1	245
20250516_1003	1.3	68
20250516_1013	2.5	118
20250516_1023	1.3	350
20250516_1033	0.2	3
20250516_1043	4.9	117
20250516_1053	0.1	297
20250516_1103	1.4	47
20250516_1113	0.3	345
20250516_1123	0.1	62
20250516_1133	0.5	321
20250516_1143	0.3	61
20250516_1153	0.5	331

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250516_1203	0.1	270
20250516_1213	0.5	53
20250516_1223	0.2	55
20250516_1233	0.4	1
20250516_1243	0.6	332
20250516_1253	0.8	334
20250516_1303	0.3	40
20250516_1313	0.8	7
20250516_1323	0.7	109
20250516_1333	0.5	333
20250516_1343	0.6	352
20250516_1353	0.1	310
20250516_1403	0.4	58
20250516_1413	0.3	298
20250516_1423	0.3	214
20250516_1433	0.1	37
20250516_1443	0.1	29
20250516_1453	0.1	83
20250516_1503	1.5	49
20250516_1513	1.2	327
20250516_1523	2.6	337
20250516_1533	2.9	345
20250516_1543	0.1	302
20250516_1553	0.4	295
20250516_1603	0.1	199
20250516_1613	0.4	320
20250516_1623	0.1	279
20250516_1633	0.1	4
20250516_1643	0.1	197
20250516_1653	0.7	151
20250516_1703	1.3	130
20250516_1713	0.5	153
20250516_1723	0.1	65
20250516_1733	0.3	111
20250516_1743	1.5	78
20250516_1753	0.1	119
20250516_1803	0.1	132
20250516_1813	0.1	5
20250516_1823	0.1	325
20250516_1833	0.1	286
20250516_1843	0.1	118
20250516_1853	1.9	139
20250516_1903	0.2	119
20250516_1913	0.1	123
20250516_1923	0.4	112
20250516_1933	0.3	97
20250516_1943	1.1	134
20250516_1953	0.1	159
20250516_2003	0.2	115
20250516_2013	0.1	94
20250516_2023	0.2	100
20250516_2033	1.2	128
20250516_2043	0.2	141
20250516_2053	0.6	114
20250516_2103	1	123
20250516_2113	0.6	89
20250516_2123	0.2	105
20250516_2133	0.4	90
20250516_2143	0.1	1
20250516_2153	0.1	79
20250516_2203	0.1	63
20250516_2213	0.1	83
20250516_2223	0.1	96
20250516_2233	0.1	98
20250516_2243	0.1	71
20250516_2253	0.1	42
20250516_2303	0.1	139
20250516_2313	0.1	122
20250516_2323	0.1	102
20250516_2333	0.1	1
20250516_2343	0.1	143
20250516_2353	0.1	8

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250517_0003	0.3	145
20250517_0013	0.1	272
20250517_0023	1.8	105
20250517_0033	0.5	127
20250517_0043	0.6	105
20250517_0053	0.1	99
20250517_0103	0.1	88
20250517_0113	0.1	107
20250517_0123	0.1	143
20250517_0133	0.1	139
20250517_0143	0.1	85
20250517_0153	0.1	104
20250517_0203	0.1	95
20250517_0213	0.1	244
20250517_0223	0.1	161
20250517_0233	0.1	136
20250517_0243	0.1	102
20250517_0253	0.9	119
20250517_0303	0.1	135
20250517_0313	0.1	122
20250517_0323	0.1	110
20250517_0333	0.1	110
20250517_0343	0.1	110
20250517_0353	0.1	95
20250517_0403	0.1	25
20250517_0413	0.1	108
20250517_0423	0.1	65
20250517_0433	0.1	137
20250517_0443	0.1	150
20250517_0453	0.1	76
20250517_0503	0.1	103
20250517_0513	0.1	86
20250517_0523	0.1	85
20250517_0533	0.1	106
20250517_0543	0.1	73
20250517_0553	0.1	50
20250517_0603	0.8	343
20250517_0613	0.1	54
20250517_0623	0.1	19
20250517_0633	0.1	311
20250517_0643	0.1	21
20250517_0653	0.1	8
20250517_0703	0.1	276
20250517_0713	0.1	338
20250517_0723	0.3	344
20250517_0733	0.2	298
20250517_0743	0.1	45
20250517_0753	0.1	101
20250517_0803	0.1	16
20250517_0813	0.1	114
20250517_0823	0.3	312
20250517_0833	0.1	318
20250517_0843	0.1	114
20250517_0853	0.1	205
20250517_0903	0.1	288
20250517_0913	0.1	264
20250517_0923	0.1	97
20250517_0933	0.1	254
20250517_0943	0.1	230
20250517_0953	0.1	286
20250517_1003	0.1	174
20250517_1013	0.2	110
20250517_1023	0.1	203
20250517_1033	0.1	133
20250517_1043	0.1	238
20250517_1053	0.1	270
20250517_1103	0.6	91
20250517_1113	0.1	88
20250517_1123	0.1	101
20250517_1133	0.2	326
20250517_1143	3.5	153
20250517_1153	0.1	353

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250517_1203	0.1	85
20250517_1213	0.1	77
20250517_1223	1.3	99
20250517_1233	0.2	125
20250517_1243	1	123
20250517_1253	0.7	82
20250517_1303	0.1	100
20250517_1313	1.8	149
20250517_1323	1	153
20250517_1333	2.1	102
20250517_1343	4.6	95
20250517_1353	3.6	112
20250517_1403	1.9	101
20250517_1413	0.7	120
20250517_1423	0.1	92
20250517_1433	0.1	315
20250517_1443	0.6	152
20250517_1453	0.1	141
20250517_1503	0.1	102
20250517_1513	0.1	119
20250517_1523	1	127
20250517_1533	0.2	149
20250517_1543	0.1	113
20250517_1553	0.1	71
20250517_1603	0.1	248
20250517_1613	0.1	137
20250517_1623	0.1	187
20250517_1633	0.1	312
20250517_1643	0.1	109
20250517_1653	0.1	34
20250517_1703	1.1	76
20250517_1713	0.1	76
20250517_1723	0.2	57
20250517_1733	0.1	44
20250517_1743	0.7	128
20250517_1753	0.1	72
20250517_1803	0.1	50
20250517_1813	0.1	45
20250517_1823	0.1	96
20250517_1833	0.1	332
20250517_1843	1.8	37
20250517_1853	0.1	126
20250517_1903	0.1	70
20250517_1913	0.1	87
20250517_1923	0.3	102
20250517_1933	0.3	62
20250517_1943	0.1	99
20250517_1953	0.1	80
20250517_2003	0.1	90
20250517_2013	0.2	83
20250517_2023	0.1	79
20250517_2033	0.1	85
20250517_2043	0.1	110
20250517_2053	0.1	97
20250517_2103	0.1	103
20250517_2113	0.1	90
20250517_2123	0.1	109
20250517_2133	0.1	161
20250517_2143	0.1	79
20250517_2153	0.1	85
20250517_2203	0.1	121
20250517_2213	0.1	115
20250517_2223	0.1	81
20250517_2233	0.1	33
20250517_2243	0.1	24
20250517_2253	0.1	11
20250517_2303	0.1	108
20250517_2313	0.1	121
20250517_2323	0.1	98
20250517_2333	0.1	105
20250517_2343	0.1	150
20250517_2353	0.1	120

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250518_0003	0.1	106
20250518_0013	0.1	124
20250518_0023	0.1	66
20250518_0033	0.1	44
20250518_0043	0.1	134
20250518_0053	0.1	25
20250518_0103	0.1	72
20250518_0113	0.1	112
20250518_0123	0.1	89
20250518_0133	0.1	115
20250518_0143	0.1	0
20250518_0153	0.1	144
20250518_0203	0.1	144
20250518_0213	0.1	329
20250518_0223	0.1	83
20250518_0233	0.1	41
20250518_0243	0.1	142
20250518_0253	0.1	54
20250518_0303	0.1	99
20250518_0313	0.1	167
20250518_0323	0.1	167
20250518_0333	0.1	28
20250518_0343	0.1	319
20250518_0353	0.1	141
20250518_0403	0.1	49
20250518_0413	0.1	10
20250518_0423	0.1	325
20250518_0433	0.1	204
20250518_0443	0.1	233
20250518_0453	0.1	135
20250518_0503	0.1	26
20250518_0513	0.1	96
20250518_0523	0.1	164
20250518_0533	0.1	142
20250518_0543	0.1	119
20250518_0553	0.1	129
20250518_0603	0.1	133
20250518_0613	0.1	133
20250518_0623	0.1	13
20250518_0633	0.1	207
20250518_0643	0.1	104
20250518_0653	0.1	149
20250518_0703	0.1	159
20250518_0713	0.1	149
20250518_0723	0.1	142
20250518_0733	0.1	150
20250518_0743	0.1	92
20250518_0753	0.1	193
20250518_0803	0.1	130
20250518_0813	0.1	142
20250518_0823	0.1	114
20250518_0833	0.1	157
20250518_0843	0.1	115
20250518_0853	0.2	139
20250518_0903	0.1	113
20250518_0913	0.1	61
20250518_0923	0.1	334
20250518_0933	0.1	141
20250518_0943	0.1	262
20250518_0953	0.1	299
20250518_1003	0.1	154
20250518_1013	0.2	142
20250518_1023	0.3	81
20250518_1033	0.1	138
20250518_1043	0.1	90
20250518_1053	0.1	296
20250518_1103	0.1	135
20250518_1113	0.3	163
20250518_1123	0.4	149
20250518_1133	0.1	262
20250518_1143	0.5	149
20250518_1153	0.5	115

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250518_1203	0.1	170
20250518_1213	0.1	241
20250518_1223	0.1	138
20250518_1233	0.6	100
20250518_1243	0.1	295
20250518_1253	0.1	317
20250518_1303	0.1	226
20250518_1313	0.1	87
20250518_1323	0.1	101
20250518_1333	0.1	19
20250518_1343	0.3	140
20250518_1353	0.2	148
20250518_1403	0.3	338
20250518_1413	0.1	110
20250518_1423	0.6	51
20250518_1433	0.1	100
20250518_1443	0.1	266
20250518_1453	0.1	130
20250518_1503	2.1	132
20250518_1513	0.1	181
20250518_1523	0.1	353
20250518_1533	0.6	107
20250518_1543	0.1	337
20250518_1553	0.1	235
20250518_1603	0.1	96
20250518_1613	0.1	320
20250518_1623	0.1	281
20250518_1633	0.1	280
20250518_1643	0.1	262
20250518_1653	0.1	110
20250518_1703	0.1	137
20250518_1713	0.1	143
20250518_1723	0.3	135
20250518_1733	0.1	136
20250518_1743	0.1	136
20250518_1753	0.1	152
20250518_1803	0.1	140
20250518_1813	0.1	125
20250518_1823	0.1	144
20250518_1833	0.1	139
20250518_1843	0.1	134
20250518_1853	0.1	131
20250518_1903	0.1	111
20250518_1913	0.1	111
20250518_1923	0.1	99
20250518_1933	0.1	56
20250518_1943	0.1	37
20250518_1953	0.1	91
20250518_2003	0.1	97
20250518_2013	0.1	90
20250518_2023	0.1	8
20250518_2033	0.1	83
20250518_2043	0.1	89
20250518_2053	0.1	86
20250518_2103	0.1	86
20250518_2113	0.1	86
20250518_2123	0.1	86
20250518_2133	0.1	86
20250518_2143	0.1	72
20250518_2153	0.1	83
20250518_2203	0.1	75
20250518_2213	0.1	70
20250518_2223	0.1	98
20250518_2233	0.1	98
20250518_2243	0.1	98
20250518_2253	0.1	98
20250518_2303	0.1	98
20250518_2313	0.1	45
20250518_2323	0.1	3
20250518_2333	0.1	353
20250518_2343	0.1	127
20250518_2353	0.1	127

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250519_0003	0.1	127
20250519_0013	0.1	117
20250519_0023	0.1	118
20250519_0033	0.1	134
20250519_0043	0.1	134
20250519_0053	0.1	106
20250519_0103	0.1	62
20250519_0113	0.1	64
20250519_0123	0.1	301
20250519_0133	0.1	78
20250519_0143	0.1	91
20250519_0153	0.1	136
20250519_0203	0.1	145
20250519_0213	0.1	146
20250519_0223	0.1	146
20250519_0233	0.1	113
20250519_0243	0.1	70
20250519_0253	0.1	70
20250519_0303	0.1	70
20250519_0313	0.1	70
20250519_0323	0.1	23
20250519_0333	0.1	45
20250519_0343	0.1	353
20250519_0353	0.1	26
20250519_0403	0.1	29
20250519_0413	0.1	50
20250519_0423	0.1	61
20250519_0433	0.1	61
20250519_0443	0.1	71
20250519_0453	0.1	54
20250519_0503	0.1	54
20250519_0513	0.1	34
20250519_0523	0.1	82
20250519_0533	0.1	67
20250519_0543	0.1	179
20250519_0553	0.1	164
20250519_0603	0.1	161
20250519_0613	0.1	32
20250519_0623	0.1	130
20250519_0633	0.1	130
20250519_0643	0.1	150
20250519_0653	0.1	150
20250519_0703	0.1	269
20250519_0713	0.1	239
20250519_0723	0.1	145
20250519_0733	0.1	216
20250519_0743	0.1	135
20250519_0753	0.1	78
20250519_0803	0.1	29
20250519_0813	0.1	115
20250519_0823	0.1	254
20250519_0833	0.1	175
20250519_0843	0.1	122
20250519_0853	0.1	241
20250519_0903	0.1	135
20250519_0913	0.1	36
20250519_0923	0.2	134
20250519_0933	0.1	352
20250519_0943	0.1	332
20250519_0953	0.1	92
20250519_1003	0.1	87
20250519_1013	0.2	165
20250519_1023	0.1	173
20250519_1033	0.4	154
20250519_1043	0.1	101
20250519_1053	0.3	301
20250519_1103	0.3	137
20250519_1113	0.1	99
20250519_1123	0.1	283
20250519_1133	0.5	125
20250519_1143	0.1	187
20250519_1153	0.1	95

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250519_1203	0.1	123
20250519_1213	0.4	79
20250519_1223	1	112
20250519_1233	0.3	82
20250519_1243	0.1	107
20250519_1253	0.2	86
20250519_1303	1.8	152
20250519_1313	0.1	139
20250519_1323	0.8	110
20250519_1333	0.1	305
20250519_1343	1.3	204
20250519_1353	0.3	25
20250519_1403	0.4	100
20250519_1413	0.4	104
20250519_1423	0.1	113
20250519_1433	0.1	230
20250519_1443	0.1	166
20250519_1453	0.1	115
20250519_1503	0.1	35
20250519_1513	0.1	224
20250519_1523	0.1	101
20250519_1533	0.5	265
20250519_1543	0.1	190
20250519_1553	0.1	84
20250519_1603	0.1	221
20250519_1613	0.1	128
20250519_1623	0.8	291
20250519_1633	0.1	220
20250519_1643	0.1	146
20250519_1653	0.1	99
20250519_1703	0.1	61
20250519_1713	0.1	257
20250519_1723	0.1	229
20250519_1733	0.1	128
20250519_1743	0.1	129
20250519_1753	0.3	196
20250519_1803	0.1	70
20250519_1813	0.1	286
20250519_1823	0.1	142
20250519_1833	0.1	123
20250519_1843	0.1	107
20250519_1853	0.1	144
20250519_1903	0.1	97
20250519_1913	0.1	109
20250519_1923	0.1	85
20250519_1933	0.1	97
20250519_1943	0.1	96
20250519_1953	0.1	93
20250519_2003	0.1	87
20250519_2013	0.1	111
20250519_2023	0.1	53
20250519_2033	0.1	100
20250519_2043	0.1	46
20250519_2053	0.1	114
20250519_2103	0.1	82
20250519_2113	0.1	101
20250519_2123	0.1	80
20250519_2133	0.1	94
20250519_2143	0.1	100
20250519_2153	0.1	249
20250519_2203	0.1	124
20250519_2213	0.1	138
20250519_2223	0.1	156
20250519_2233	0.1	352
20250519_2243	0.1	55
20250519_2253	0.1	63
20250519_2303	0.1	152
20250519_2313	0.1	224
20250519_2323	0.1	98
20250519_2333	0.1	137
20250519_2343	0.1	100
20250519_2353	0.1	118

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250520_0003	0.1	144
20250520_0013	0.1	284
20250520_0023	0.1	323
20250520_0033	0.1	88
20250520_0043	0.1	155
20250520_0053	0.1	51
20250520_0103	0.1	74
20250520_0113	0.1	46
20250520_0123	0.1	84
20250520_0133	0.2	125
20250520_0143	0.1	31
20250520_0153	0.1	126
20250520_0203	0.1	71
20250520_0213	0.1	108
20250520_0223	0.1	126
20250520_0233	0.1	123
20250520_0243	0.1	179
20250520_0253	0.1	108
20250520_0303	0.1	105
20250520_0313	0.1	33
20250520_0323	0.1	123
20250520_0333	0.1	121
20250520_0343	0.1	73
20250520_0353	0.1	306
20250520_0403	0.1	201
20250520_0413	0.6	153
20250520_0423	0.1	166
20250520_0433	0.1	217
20250520_0443	0.1	105
20250520_0453	0.1	300
20250520_0503	0.1	231
20250520_0513	0.1	187
20250520_0523	0.1	199
20250520_0533	0.1	151
20250520_0543	0.1	185
20250520_0553	0.3	52
20250520_0603	0.1	101
20250520_0613	0.1	312
20250520_0623	0.1	217
20250520_0633	0.1	155
20250520_0643	0.1	112
20250520_0653	0.4	104
20250520_0703	0.1	75
20250520_0713	0.6	131
20250520_0723	0.1	39
20250520_0733	0.1	239
20250520_0743	0.1	148
20250520_0753	0.1	43
20250520_0803	0.2	171
20250520_0813	0.2	111
20250520_0823	0.1	182
20250520_0833	0.1	98
20250520_0843	0.1	84
20250520_0853	0.5	159
20250520_0903	0.1	128
20250520_0913	0.2	109
20250520_0923	0.2	84
20250520_0933	0.2	163
20250520_0943	3.1	142
20250520_0953	0.2	143
20250520_1003	0.1	101
20250520_1013	0.8	182
20250520_1023	0.4	97
20250520_1033	0.1	117
20250520_1043	0.2	106
20250520_1053	0.1	277
20250520_1103	0.5	249
20250520_1113	0.3	124
20250520_1123	0.9	82
20250520_1133	0.3	276
20250520_1143	0.3	310
20250520_1153	0.1	305

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250520_1203	0.1	164
20250520_1213	2.5	271
20250520_1223	0.1	28
20250520_1233	2.7	260
20250520_1243	0.7	220
20250520_1253	0.1	305
20250520_1303	0.8	262
20250520_1313	0.3	112
20250520_1323	0.1	334
20250520_1333	0.1	45
20250520_1343	0.3	145
20250520_1353	0.1	39
20250520_1403	0.1	161
20250520_1413	0.4	112
20250520_1423	0.1	138
20250520_1433	0.2	351
20250520_1443	0.1	103
20250520_1453	0.6	118
20250520_1503	0.3	98
20250520_1513	0.1	290
20250520_1523	0.1	69
20250520_1533	0.4	237
20250520_1543	0.1	310
20250520_1553	0.2	143
20250520_1603	0.2	106
20250520_1613	0.5	85
20250520_1623	0.3	259
20250520_1633	0.1	143
20250520_1643	0.1	302
20250520_1653	0.9	116
20250520_1703	0.4	136
20250520_1713	0.1	174
20250520_1723	1.6	135
20250520_1733	0.1	87
20250520_1743	0.1	262
20250520_1753	0.1	238
20250520_1803	0.1	128
20250520_1813	0.1	39
20250520_1823	1.1	145
20250520_1833	0.1	122
20250520_1843	0.1	164
20250520_1853	0.1	76
20250520_1903	0.1	142
20250520_1913	0.1	129
20250520_1923	0.1	108
20250520_1933	0.1	79
20250520_1943	0.1	91
20250520_1953	0.1	115
20250520_2003	0.1	81
20250520_2013	0.1	114
20250520_2023	0.1	81
20250520_2033	0.1	82
20250520_2043	0.1	108
20250520_2053	0.1	54
20250520_2103	0.2	107
20250520_2113	0.1	84
20250520_2123	1.2	107
20250520_2133	0.8	85
20250520_2143	0.1	118
20250520_2153	0.1	140
20250520_2203	0.1	85
20250520_2213	0.1	127
20250520_2223	0.1	194
20250520_2233	0.1	60
20250520_2243	0.1	133
20250520_2253	0.1	125
20250520_2303	0.1	86
20250520_2313	0.1	64
20250520_2323	0.1	112
20250520_2333	0.1	130
20250520_2343	0.1	111
20250520_2353	0.1	91

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250521_0003	0.1	84
20250521_0013	0.1	116
20250521_0023	0.1	106
20250521_0033	0.1	320
20250521_0043	0.1	80
20250521_0053	0.1	5
20250521_0103	0.1	12
20250521_0113	0.1	75
20250521_0123	0.1	104
20250521_0133	0.1	146
20250521_0143	0.1	93
20250521_0153	0.1	85
20250521_0203	0.1	111
20250521_0213	0.1	115
20250521_0223	0.1	44
20250521_0233	0.2	70
20250521_0243	0.1	133
20250521_0253	0.1	80
20250521_0303	0.4	52
20250521_0313	0.1	4
20250521_0323	0.1	14
20250521_0333	0.1	84
20250521_0343	0.1	351
20250521_0353	0.1	28
20250521_0403	0.1	80
20250521_0413	0.1	100
20250521_0423	0.1	137
20250521_0433	0.1	81
20250521_0443	0.1	97
20250521_0453	0.1	100
20250521_0503	0.1	95
20250521_0513	0.1	99
20250521_0523	0.1	108
20250521_0533	0.1	111
20250521_0543	0.3	44
20250521_0553	0.1	66
20250521_0603	0.1	59
20250521_0613	0.1	136
20250521_0623	0.1	140
20250521_0633	0.1	94
20250521_0643	0.1	129
20250521_0653	0.1	127
20250521_0703	0.1	98
20250521_0713	0.1	186
20250521_0723	0.1	225
20250521_0733	0.1	239
20250521_0743	0.1	267
20250521_0753	0.1	116
20250521_0803	0.1	109
20250521_0813	0.5	325
20250521_0823	0.1	154
20250521_0833	0.1	135
20250521_0843	0.1	341
20250521_0853	0.1	17
20250521_0903	0.1	348
20250521_0913	0.1	288
20250521_0923	0.1	132
20250521_0933	0.1	292
20250521_0943	0.4	113
20250521_0953	0.1	174
20250521_1003	0.8	155
20250521_1013	0.1	180
20250521_1023	0.1	103
20250521_1033	0.1	140
20250521_1043	0.2	211
20250521_1053	0.1	203
20250521_1103	1.1	55
20250521_1113	0.1	266
20250521_1123	0.3	33
20250521_1133	0.1	184
20250521_1143	0.1	170
20250521_1153	3.8	131

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250521_1203	0.8	203
20250521_1213	0.6	190
20250521_1223	1.6	192
20250521_1233	0.8	236
20250521_1243	0.5	209
20250521_1253	0.1	325
20250521_1303	0.1	181
20250521_1313	7.5	132
20250521_1323	0.1	78
20250521_1333	1.4	228
20250521_1343	0.1	78
20250521_1353	0.1	283
20250521_1403	0.3	306
20250521_1413	0.2	88
20250521_1423	0.1	55
20250521_1433	0.1	274
20250521_1443	0.2	51
20250521_1453	0.2	92
20250521_1503	0.2	193
20250521_1513	0.2	153
20250521_1523	0.2	127
20250521_1533	0.9	130
20250521_1543	0.2	102
20250521_1553	0.2	342
20250521_1603	0.2	139
20250521_1613	0.1	62
20250521_1623	0.1	203
20250521_1633	0.1	171
20250521_1643	0.7	146
20250521_1653	0.1	291
20250521_1703	0.2	162
20250521_1713	0.1	130
20250521_1723	0.1	125
20250521_1733	0.1	139
20250521_1743	0.1	140
20250521_1753	0.1	138
20250521_1803	0.1	172
20250521_1813	0.3	158
20250521_1823	0.1	144
20250521_1833	0.1	143
20250521_1843	0.1	134
20250521_1853	0.1	137
20250521_1903	0.1	134
20250521_1913	0.1	123
20250521_1923	0.1	124
20250521_1933	0.1	113
20250521_1943	0.1	113
20250521_1953	0.1	114
20250521_2003	0.1	106
20250521_2013	0.1	132
20250521_2023	0.1	118
20250521_2033	0.1	111
20250521_2043	0.1	113
20250521_2053	0.1	131
20250521_2103	0.3	148
20250521_2113	1.4	182
20250521_2123	0.1	116
20250521_2133	0.1	110
20250521_2143	0.5	65
20250521_2153	0.1	118
20250521_2203	0.1	104
20250521_2213	0.1	351
20250521_2223	0.3	161
20250521_2233	0.1	122
20250521_2243	0.1	73
20250521_2253	0.2	133
20250521_2303	0.1	83
20250521_2313	0.1	75
20250521_2323	0.1	104
20250521_2333	0.1	143
20250521_2343	0.1	126
20250521_2353	0.1	119

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250522_0003	0.1	93
20250522_0013	0.1	98
20250522_0023	0.1	147
20250522_0033	0.1	124
20250522_0043	0.1	5
20250522_0053	0.1	327
20250522_0103	0.1	101
20250522_0113	0.1	117
20250522_0123	0.1	61
20250522_0133	0.1	70
20250522_0143	0.1	72
20250522_0153	0.1	77
20250522_0203	0.1	5
20250522_0213	0.1	138
20250522_0223	0.1	131
20250522_0233	0.1	131
20250522_0243	0.1	131
20250522_0253	0.1	141
20250522_0303	0.1	105
20250522_0313	0.1	66
20250522_0323	0.1	343
20250522_0333	0.2	63
20250522_0343	0.1	121
20250522_0353	0.1	97
20250522_0403	0.1	20
20250522_0413	0.1	85
20250522_0423	0.1	86
20250522_0433	0.1	118
20250522_0443	0.1	72
20250522_0453	0.1	47
20250522_0503	0.1	65
20250522_0513	0.1	131
20250522_0523	0.1	79
20250522_0533	0.1	109
20250522_0543	0.1	146
20250522_0553	0.1	144
20250522_0603	0.1	148
20250522_0613	0.1	141
20250522_0623	0.1	141
20250522_0633	0.1	141
20250522_0643	0.1	129
20250522_0653	0.1	136
20250522_0703	0.1	74
20250522_0713	0.1	45
20250522_0723	0.1	272
20250522_0733	0.1	349
20250522_0743	0.1	179
20250522_0753	0.1	341
20250522_0803	0.1	81
20250522_0813	0.2	111
20250522_0823	0.1	125
20250522_0833	0.1	79
20250522_0843	0.1	139
20250522_0853	0.1	131
20250522_0903	0.5	122
20250522_0913	0.1	70
20250522_0923	0.1	20
20250522_0933	0.2	167
20250522_0943	0.1	87
20250522_0953	0.1	338
20250522_1003	0.3	247
20250522_1013	0.1	140
20250522_1023	1.2	162
20250522_1033	4.8	137
20250522_1043	0.1	34
20250522_1053	0.4	217
20250522_1103	2.9	112
20250522_1113	0.8	110
20250522_1123	0.1	203
20250522_1133	0.4	109
20250522_1143	0.1	45
20250522_1153	0.1	69

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250522_1203	1.6	142
20250522_1213	0.2	303
20250522_1223	0.3	123
20250522_1233	0.4	252
20250522_1243	0.1	268
20250522_1253	0.6	143
20250522_1303	0.1	144
20250522_1313	0.1	148
20250522_1323	3.1	132
20250522_1333	0.1	103
20250522_1343	1.5	257
20250522_1353	0.6	315
20250522_1403	0.1	139
20250522_1413	0.1	116
20250522_1423	0.2	177
20250522_1433	0.7	50
20250522_1443	0.1	254
20250522_1453	0.1	233
20250522_1503	0.1	106
20250522_1513	0.1	114
20250522_1523	0.3	44
20250522_1533	0.6	146
20250522_1543	0.1	171
20250522_1553	0.4	149
20250522_1603	0.1	290
20250522_1613	0.1	285
20250522_1623	0.1	276
20250522_1633	0.1	312
20250522_1643	0.1	198
20250522_1653	0.1	32
20250522_1703	0.1	98
20250522_1713	0.1	343
20250522_1723	0.1	163
20250522_1733	0.1	134
20250522_1743	0.1	150
20250522_1753	0.1	135
20250522_1803	0.2	126
20250522_1813	0.1	139
20250522_1823	0.1	137
20250522_1833	0.1	106
20250522_1843	0.1	136
20250522_1853	0.1	150
20250522_1903	0.1	147
20250522_1913	0.1	137
20250522_1923	0.1	128
20250522_1933	0.1	128
20250522_1943	0.1	114
20250522_1953	0.1	139
20250522_2003	0.1	154
20250522_2013	0.1	124
20250522_2023	0.1	123
20250522_2033	0.1	134
20250522_2043	0.1	99
20250522_2053	0.1	135
20250522_2103	0.1	146
20250522_2113	0.1	89
20250522_2123	0.1	352
20250522_2133	0.1	152
20250522_2143	0.1	147
20250522_2153	0.1	114
20250522_2203	0.1	96
20250522_2213	0.1	56
20250522_2223	0.1	57
20250522_2233	0.1	84
20250522_2243	0.1	38
20250522_2253	0.1	79
20250522_2303	0.1	116
20250522_2313	0.1	116
20250522_2323	0.1	4
20250522_2333	0.1	20
20250522_2343	0.1	79
20250522_2353	0.1	46

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250523_0003	0.1	94
20250523_0013	0.1	50
20250523_0023	0.1	61
20250523_0033	0.1	89
20250523_0043	0.1	89
20250523_0053	0.1	14
20250523_0103	0.1	89
20250523_0113	0.1	88
20250523_0123	0.1	88
20250523_0133	0.1	88
20250523_0143	0.1	42
20250523_0153	0.1	57
20250523_0203	0.1	11
20250523_0213	0.1	88
20250523_0223	0.1	16
20250523_0233	0.1	29
20250523_0243	0.1	48
20250523_0253	0.1	77
20250523_0303	0.1	77
20250523_0313	0.1	1
20250523_0323	0.1	62
20250523_0333	0.1	94
20250523_0343	0.1	20
20250523_0353	0.1	80
20250523_0403	0.1	75
20250523_0413	0.1	63
20250523_0423	0.1	68
20250523_0433	0.1	65
20250523_0443	0.1	101
20250523_0453	0.1	71
20250523_0503	0.1	71
20250523_0513	0.1	140
20250523_0523	0.1	21
20250523_0533	0.1	51
20250523_0543	0.1	329
20250523_0553	0.1	108
20250523_0603	0.1	79
20250523_0613	0.1	150
20250523_0623	0.1	85
20250523_0633	0.1	131
20250523_0643	0.1	128
20250523_0653	0.1	136
20250523_0703	0.1	132
20250523_0713	0.1	311
20250523_0723	0.1	157
20250523_0733	0.1	131
20250523_0743	0.2	144
20250523_0753	0.1	88
20250523_0803	0.1	261
20250523_0813	0.1	250
20250523_0823	0.1	283
20250523_0833	0.1	289
20250523_0843	0.8	307
20250523_0853	0.1	93
20250523_0903	0.1	328
20250523_0913	0.1	182
20250523_0923	0.1	23
20250523_0933	0.1	83
20250523_0943	1.7	126
20250523_0953	0.1	273
20250523_1003	0.1	253
20250523_1013	0.1	115
20250523_1023	0.4	274
20250523_1033	0.2	88
20250523_1043	0.1	57
20250523_1053	0.1	53
20250523_1103	0.4	280
20250523_1113	0.6	124
20250523_1123	0.1	69
20250523_1133	0.4	138
20250523_1143	0.3	55
20250523_1153	0.9	117

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250523_1203	0.2	262
20250523_1213	0.1	285
20250523_1223	0.4	116
20250523_1233	0.1	1
20250523_1243	3.7	117
20250523_1253	0.2	341
20250523_1303	0.4	179
20250523_1313	0.3	122
20250523_1323	0.6	217
20250523_1333	0.6	112
20250523_1343	1.1	227
20250523_1353	0.1	68
20250523_1403	0.1	142
20250523_1413	0.4	84
20250523_1423	0.1	219
20250523_1433	0.1	121
20250523_1443	0.2	108
20250523_1453	1.8	245
20250523_1503	0.2	112
20250523_1513	0.1	138
20250523_1523	0.2	119
20250523_1533	0.1	79
20250523_1543	0.1	136
20250523_1553	0.8	139
20250523_1603	1.1	139
20250523_1613	0.2	91
20250523_1623	0.1	144
20250523_1633	0.3	134
20250523_1643	0.1	136
20250523_1653	0.1	159
20250523_1703	0.1	84
20250523_1713	0.1	34
20250523_1723	0.1	138
20250523_1733	0.1	136
20250523_1743	0.1	66
20250523_1753	0.3	143
20250523_1803	0.2	129
20250523_1813	0.1	104
20250523_1823	0.1	132
20250523_1833	0.1	137
20250523_1843	0.1	124
20250523_1853	0.2	44
20250523_1903	0.6	80
20250523_1913	1.8	37
20250523_1923	0.8	74
20250523_1933	0.7	33
20250523_1943	0.1	116
20250523_1953	0.1	132
20250523_2003	0.1	90
20250523_2013	0.1	108
20250523_2023	0.1	99
20250523_2033	0.1	128
20250523_2043	0.1	92
20250523_2053	0.1	141
20250523_2103	0.1	133
20250523_2113	0.1	88
20250523_2123	0.1	173
20250523_2133	0.1	105
20250523_2143	0.1	70
20250523_2153	0.1	126
20250523_2203	0.1	122
20250523_2213	0.1	72
20250523_2223	0.1	135
20250523_2233	0.1	106
20250523_2243	0.1	87
20250523_2253	0.1	126
20250523_2303	0.1	94
20250523_2313	0.1	109
20250523_2323	0.1	100
20250523_2333	0.1	91
20250523_2343	0.1	98
20250523_2353	0.1	85

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250524_0003	0.1	117
20250524_0013	0.1	104
20250524_0023	0.1	86
20250524_0033	0.1	114
20250524_0043	0.1	118
20250524_0053	0.1	112
20250524_0103	0.1	113
20250524_0113	0.1	114
20250524_0123	0.1	113
20250524_0133	0.1	110
20250524_0143	0.1	131
20250524_0153	0.1	128
20250524_0203	0.1	127
20250524_0213	0.1	150
20250524_0223	0.1	138
20250524_0233	0.1	95
20250524_0243	0.1	127
20250524_0253	0.1	114
20250524_0303	0.1	124
20250524_0313	0.1	141
20250524_0323	0.1	107
20250524_0333	0.1	150
20250524_0343	0.1	224
20250524_0353	0.1	82
20250524_0403	0.1	96
20250524_0413	0.1	105
20250524_0423	0.1	113
20250524_0433	0.1	83
20250524_0443	0.1	84
20250524_0453	0.1	69
20250524_0503	0.1	93
20250524_0513	0.1	340
20250524_0523	0.1	155
20250524_0533	0.1	83
20250524_0543	0.1	87
20250524_0553	0.1	32
20250524_0603	0.1	78
20250524_0613	0.1	100
20250524_0623	0.1	132
20250524_0633	0.1	138
20250524_0643	0.1	138
20250524_0653	0.1	123
20250524_0703	0.1	186
20250524_0713	0.1	84
20250524_0723	0.1	111
20250524_0733	0.4	50
20250524_0743	0.1	310
20250524_0753	1	59
20250524_0803	0.3	140
20250524_0813	0.1	181
20250524_0823	0.1	77
20250524_0833	0.2	89
20250524_0843	0.1	349
20250524_0853	0.5	304
20250524_0903	0.3	348
20250524_0913	0.5	345
20250524_0923	1.1	350
20250524_0933	0.3	337
20250524_0943	1.1	98
20250524_0953	0.6	0
20250524_1003	0.5	94
20250524_1013	0.6	108
20250524_1023	0.7	324
20250524_1033	2.1	330
20250524_1043	1.1	49
20250524_1053	0.3	158
20250524_1103	2.1	228
20250524_1113	0.8	146
20250524_1123	0.2	107
20250524_1133	0.8	87
20250524_1143	0.9	63
20250524_1153	1.4	8

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250524_1203	0.6	342
20250524_1213	1.2	74
20250524_1223	0.4	27
20250524_1233	1.2	71
20250524_1243	0.1	167
20250524_1253	4.3	284
20250524_1303	0.3	316
20250524_1313	0.2	7
20250524_1323	0.1	348
20250524_1333	0.1	110
20250524_1343	1.6	331
20250524_1353	0.1	350
20250524_1403	0.1	36
20250524_1413	0.4	81
20250524_1423	0.1	60
20250524_1433	0.2	57
20250524_1443	1.2	351
20250524_1453	0.5	65
20250524_1503	0.1	34
20250524_1513	0.1	63
20250524_1523	0.1	263
20250524_1533	0.1	150
20250524_1543	0.3	40
20250524_1553	0.1	53
20250524_1603	0.1	133
20250524_1613	0.5	314
20250524_1623	1.1	70
20250524_1633	0.1	165
20250524_1643	0.2	325
20250524_1653	1	42
20250524_1703	1.4	112
20250524_1713	0.4	149
20250524_1723	0.1	118
20250524_1733	0.1	116
20250524_1743	2	77
20250524_1753	0.4	65
20250524_1803	2.2	69
20250524_1813	0.1	110
20250524_1823	0.1	136
20250524_1833	1	37
20250524_1843	0.1	12
20250524_1853	0.1	146
20250524_1903	0.5	4
20250524_1913	0.1	3
20250524_1923	0.8	115
20250524_1933	0.6	44
20250524_1943	0.1	15
20250524_1953	0.2	48
20250524_2003	0.1	51
20250524_2013	0.2	346
20250524_2023	1.5	352
20250524_2033	0.1	282
20250524_2043	0.6	315
20250524_2053	0.5	57
20250524_2103	0.3	321
20250524_2113	0.1	344
20250524_2123	0.2	343
20250524_2133	0.8	308
20250524_2143	0.2	351
20250524_2153	0.2	337
20250524_2203	0.1	19
20250524_2213	0.2	339
20250524_2223	0.8	7
20250524_2233	0.1	126
20250524_2243	0.1	109
20250524_2253	0.1	143
20250524_2303	0.1	338
20250524_2313	0.1	198
20250524_2323	0.1	148
20250524_2333	0.1	125
20250524_2343	0.1	125
20250524_2353	0.1	132

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250525_0003	0.1	19
20250525_0013	0.1	71
20250525_0023	0.1	133
20250525_0033	0.1	43
20250525_0043	0.1	139
20250525_0053	0.1	57
20250525_0103	0.1	164
20250525_0113	0.1	130
20250525_0123	0.1	130
20250525_0133	0.1	130
20250525_0143	0.1	114
20250525_0153	0.1	159
20250525_0203	0.1	159
20250525_0213	0.1	131
20250525_0223	0.1	82
20250525_0233	0.1	84
20250525_0243	0.1	84
20250525_0253	0.1	127
20250525_0303	0.1	127
20250525_0313	0.1	133
20250525_0323	0.1	133
20250525_0333	0.1	133
20250525_0343	0.1	133
20250525_0353	0.1	133
20250525_0403	0.1	154
20250525_0413	0.1	134
20250525_0423	0.1	134
20250525_0433	0.1	55
20250525_0443	0.1	47
20250525_0453	0.1	151
20250525_0503	0.1	143
20250525_0513	0.1	143
20250525_0523	0.1	157
20250525_0533	0.1	106
20250525_0543	0.1	103
20250525_0553	0.1	103
20250525_0603	0.1	104
20250525_0613	0.1	111
20250525_0623	0.1	146
20250525_0633	0.1	134
20250525_0643	0.1	168
20250525_0653	0.1	132
20250525_0703	0.1	144
20250525_0713	0.1	132
20250525_0723	0.1	134
20250525_0733	0.1	112
20250525_0743	0.1	144
20250525_0753	0.1	65
20250525_0803	0.4	315
20250525_0813	0.2	303
20250525_0823	0.4	340
20250525_0833	0.3	326
20250525_0843	0.1	42
20250525_0853	0.2	345
20250525_0903	0.1	342
20250525_0913	0.1	119
20250525_0923	0.1	305
20250525_0933	0.4	323
20250525_0943	0.5	302
20250525_0953	0.1	335
20250525_1003	0.1	14
20250525_1013	0.1	99
20250525_1023	4.5	343
20250525_1033	0.2	99
20250525_1043	2	346
20250525_1053	1.4	323
20250525_1103	0.7	304
20250525_1113	0.6	302
20250525_1123	0.3	336
20250525_1133	2.2	327
20250525_1143	0.2	12
20250525_1153	0.1	328

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250525_1203	0.1	338
20250525_1213	0.2	333
20250525_1223	0.2	72
20250525_1233	0.1	4
20250525_1243	0.1	286
20250525_1253	0.1	136
20250525_1303	0.1	147
20250525_1313	0.1	112
20250525_1323	0.1	160
20250525_1333	0.1	195
20250525_1343	0.1	329
20250525_1353	0.1	31
20250525_1403	0.1	18
20250525_1413	0.1	109
20250525_1423	1	341
20250525_1433	0.1	5
20250525_1443	0.1	21
20250525_1453	0.2	13
20250525_1503	0.1	8
20250525_1513	0.5	71
20250525_1523	0.1	293
20250525_1533	0.1	65
20250525_1543	0.1	127
20250525_1553	0.8	7
20250525_1603	3.3	93
20250525_1613	0.3	339
20250525_1623	0.1	20
20250525_1633	0.3	55
20250525_1643	0.1	103
20250525_1653	0.1	325
20250525_1703	0.1	341
20250525_1713	0.1	309
20250525_1723	0.1	123
20250525_1733	0.2	11
20250525_1743	0.4	331
20250525_1753	0.1	298
20250525_1803	0.5	4
20250525_1813	0.1	15
20250525_1823	0.2	286
20250525_1833	0.5	27
20250525_1843	0.1	23
20250525_1853	1.7	76
20250525_1903	0.1	97
20250525_1913	0.1	308
20250525_1923	0.1	353
20250525_1933	0.5	107
20250525_1943	0.1	260
20250525_1953	0.4	126
20250525_2003	2.8	130
20250525_2013	0.1	86
20250525_2023	0.1	5
20250525_2033	0.2	328
20250525_2043	0.1	132
20250525_2053	0.1	153
20250525_2103	0.1	135
20250525_2113	0.1	133
20250525_2123	0.1	18
20250525_2133	0.1	97
20250525_2143	0.1	145
20250525_2153	0.2	114
20250525_2203	0.1	47
20250525_2213	0.1	132
20250525_2223	0.1	28
20250525_2233	0.3	310
20250525_2243	0.1	328
20250525_2253	0.1	300
20250525_2303	0.1	316
20250525_2313	0.1	316
20250525_2323	0.1	59
20250525_2333	0.1	351
20250525_2343	0.1	83
20250525_2353	0.1	136

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250526_0003	0.1	292
20250526_0013	0.1	124
20250526_0023	0.1	124
20250526_0033	0.1	272
20250526_0043	0.1	134
20250526_0053	0.1	115
20250526_0103	0.1	159
20250526_0113	0.2	142
20250526_0123	0.1	142
20250526_0133	0.1	128
20250526_0143	0.1	132
20250526_0153	0.1	115
20250526_0203	0.1	148
20250526_0213	0.1	80
20250526_0223	0.1	147
20250526_0233	0.1	155
20250526_0243	0.1	119
20250526_0253	0.1	119
20250526_0303	0.1	131
20250526_0313	0.1	131
20250526_0323	0.1	130
20250526_0333	0.1	126
20250526_0343	0.1	126
20250526_0353	0.1	126
20250526_0403	0.1	126
20250526_0413	0.1	132
20250526_0423	0.1	132
20250526_0433	0.1	125
20250526_0443	0.1	51
20250526_0453	0.1	112
20250526_0503	0.1	113
20250526_0513	0.1	131
20250526_0523	0.1	266
20250526_0533	0.1	134
20250526_0543	0.1	142
20250526_0553	0.1	88
20250526_0603	0.1	125
20250526_0613	0.1	340
20250526_0623	0.2	295
20250526_0633	0.1	209
20250526_0643	0.1	148
20250526_0653	0.1	303
20250526_0703	0.1	120
20250526_0713	0.1	61
20250526_0723	0.1	132
20250526_0733	0.1	150
20250526_0743	0.1	157
20250526_0753	0.2	117
20250526_0803	0.1	151
20250526_0813	0.1	116
20250526_0823	0.1	153
20250526_0833	0.1	136
20250526_0843	0.1	155
20250526_0853	0.1	185
20250526_0903	0.1	162
20250526_0913	0.1	147
20250526_0923	0.1	232
20250526_0933	0.4	341
20250526_0943	0.1	338
20250526_0953	0.6	322
20250526_1003	1.6	323
20250526_1013	1	106
20250526_1023	2.5	341
20250526_1033	0.2	329
20250526_1043	0.5	24
20250526_1053	0.7	92
20250526_1103	0.4	324
20250526_1113	2.5	86
20250526_1123	0.5	11
20250526_1133	0.4	331
20250526_1143	0.1	340
20250526_1153	0.4	345

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250526_1203	0.1	335
20250526_1213	0.9	353
20250526_1223	0.1	345
20250526_1233	1.4	299
20250526_1243	0.1	351
20250526_1253	0.1	19
20250526_1303	0.1	35
20250526_1313	0.9	183
20250526_1323	0.1	247
20250526_1333	0.1	352
20250526_1343	0.1	62
20250526_1353	1.3	9
20250526_1403	1	3
20250526_1413	0.3	1
20250526_1423	0.1	2
20250526_1433	0.1	119
20250526_1443	0.1	73
20250526_1453	0.3	84
20250526_1503	0.1	117
20250526_1513	0.1	84
20250526_1523	0.1	77
20250526_1533	0.2	69
20250526_1543	0.1	20
20250526_1553	0.1	56
20250526_1603	0.1	336
20250526_1613	0.2	41
20250526_1623	0.1	75
20250526_1633	0.2	13
20250526_1643	0.3	351
20250526_1653	0.1	45
20250526_1703	0.3	9
20250526_1713	0.2	285
20250526_1723	0.1	35
20250526_1733	0.1	50
20250526_1743	0.1	346
20250526_1753	0.1	146
20250526_1803	0.1	213
20250526_1813	0.1	126
20250526_1823	0.1	124
20250526_1833	0.1	134
20250526_1843	0.1	134
20250526_1853	0.2	343
20250526_1903	0.2	128
20250526_1913	0.1	145
20250526_1923	0.1	188
20250526_1933	0.1	223
20250526_1943	0.1	130
20250526_1953	0.1	346
20250526_2003	0.1	63
20250526_2013	1.4	101
20250526_2023	0.1	44
20250526_2033	0.1	342
20250526_2043	0.1	40
20250526_2053	0.1	96
20250526_2103	0.1	18
20250526_2113	0.1	62
20250526_2123	0.1	120
20250526_2133	0.1	150
20250526_2143	0.1	92
20250526_2153	0.1	106
20250526_2203	0.1	116
20250526_2213	0.1	141
20250526_2223	0.1	23
20250526_2233	0.2	35
20250526_2243	0.2	128
20250526_2253	0.1	133
20250526_2303	0.1	350
20250526_2313	0.1	348
20250526_2323	0.1	66
20250526_2333	0.3	324
20250526_2343	0.4	132
20250526_2353	0.3	128

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250527_0003	0.1	66
20250527_0013	0.1	273
20250527_0023	0.1	144
20250527_0033	0.1	126
20250527_0043	0.1	305
20250527_0053	0.1	331
20250527_0103	0.1	100
20250527_0113	0.1	331
20250527_0123	0.1	120
20250527_0133	0.1	52
20250527_0143	0.1	105
20250527_0153	0.1	165
20250527_0203	0.1	273
20250527_0213	0.1	78
20250527_0223	0.1	33
20250527_0233	0.2	137
20250527_0243	0.1	347
20250527_0253	0.1	101
20250527_0303	0.1	341
20250527_0313	0.1	169
20250527_0323	0.1	7
20250527_0333	0.1	148
20250527_0343	0.1	114
20250527_0353	0.2	56
20250527_0403	0.3	353
20250527_0413	0.1	33
20250527_0423	0.1	125
20250527_0433	0.1	122
20250527_0443	0.1	107
20250527_0453	0.1	91
20250527_0503	0.1	93
20250527_0513	0.1	123
20250527_0523	0.1	132
20250527_0533	0.1	119
20250527_0543	0.1	127
20250527_0553	0.1	149
20250527_0603	0.1	125
20250527_0613	0.1	146
20250527_0623	0.1	76
20250527_0633	0.1	345
20250527_0643	0.1	10
20250527_0653	0.2	105
20250527_0703	0.5	237
20250527_0713	0.3	30
20250527_0723	0.1	22
20250527_0733	1.5	333
20250527_0743	0.1	270
20250527_0753	0.1	10
20250527_0803	0.1	334
20250527_0813	1.1	127
20250527_0823	0.3	16
20250527_0833	0.1	226
20250527_0843	0.6	162
20250527_0853	1.6	348
20250527_0903	3.1	165
20250527_0913	1.7	122
20250527_0923	2.6	117
20250527_0933	0.1	306
20250527_0943	0.4	107
20250527_0953	0.1	15
20250527_1003	1.4	157
20250527_1013	0.1	281
20250527_1023	0.7	320
20250527_1033	2.2	126
20250527_1043	0.4	16
20250527_1053	0.8	108
20250527_1103	1	347
20250527_1113	0.1	347
20250527_1123	2.8	56
20250527_1133	0.9	342
20250527_1143	1.4	320
20250527_1153	0.4	49

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250527_1203	0.2	46
20250527_1213	2.1	135
20250527_1223	0.1	30
20250527_1233	0.4	194
20250527_1243	0.8	311
20250527_1253	0.1	335
20250527_1303	1.8	335
20250527_1313	0.4	24
20250527_1323	0.6	35
20250527_1333	2.3	336
20250527_1343	0.2	16
20250527_1353	1.2	61
20250527_1403	6.2	169
20250527_1413	0.8	32
20250527_1423	0.5	54
20250527_1433	2	310
20250527_1443	0.6	147
20250527_1453	2.2	33
20250527_1503	1.5	342
20250527_1513	0.4	319
20250527_1523	0.1	265
20250527_1533	0.1	295
20250527_1543	0.2	347
20250527_1553	0.1	25
20250527_1603	0.3	23
20250527_1613	0.2	24
20250527_1623	0.6	59
20250527_1633	0.1	33
20250527_1643	0.1	208
20250527_1653	0.2	163
20250527_1703	1	152
20250527_1713	0.1	26
20250527_1723	0.1	308
20250527_1733	0.4	74
20250527_1743	0.3	112
20250527_1753	0.3	11
20250527_1803	3	52
20250527_1813	0.1	305
20250527_1823	0.1	29
20250527_1833	0.1	44
20250527_1843	0.1	137
20250527_1853	0.1	289
20250527_1903	0.1	3
20250527_1913	0.1	184
20250527_1923	0.1	57
20250527_1933	0.1	33
20250527_1943	0.1	161
20250527_1953	0.1	36
20250527_2003	0.1	51
20250527_2013	0.1	10
20250527_2023	0.2	15
20250527_2033	0.2	67
20250527_2043	0.1	77
20250527_2053	0.1	45
20250527_2103	0.1	29
20250527_2113	0.6	335
20250527_2123	0.3	352
20250527_2133	0.6	57
20250527_2143	0.3	26
20250527_2153	0.3	331
20250527_2203	0.1	51
20250527_2213	0.5	348
20250527_2223	1.4	57
20250527_2233	0.2	1
20250527_2243	0.1	11
20250527_2253	0.2	342
20250527_2303	0.1	348
20250527_2313	1.1	55
20250527_2323	0.1	339
20250527_2333	0.3	67
20250527_2343	0.2	350
20250527_2353	0.8	52

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250528_0003	0.1	21
20250528_0013	0.4	221
20250528_0023	0.2	40
20250528_0033	0.1	77
20250528_0043	0.1	304
20250528_0053	0.1	16
20250528_0103	0.2	153
20250528_0113	0.4	79
20250528_0123	0.1	14
20250528_0133	0.1	263
20250528_0143	0.1	326
20250528_0153	0.1	4
20250528_0203	0.1	327
20250528_0213	0.1	50
20250528_0223	0.1	26
20250528_0233	0.1	110
20250528_0243	0.1	46
20250528_0253	0.1	80
20250528_0303	0.1	76
20250528_0313	0.5	70
20250528_0323	0.7	63
20250528_0333	1.4	8
20250528_0343	0.1	304
20250528_0353	0.3	65
20250528_0403	1.1	115
20250528_0413	0.1	78
20250528_0423	2.5	39
20250528_0433	0.1	22
20250528_0443	0.1	127
20250528_0453	0.1	52
20250528_0503	0.4	96
20250528_0513	0.1	53
20250528_0523	0.1	52
20250528_0533	1.2	7
20250528_0543	1.4	48
20250528_0553	0.7	21
20250528_0603	0.2	312
20250528_0613	0.3	26
20250528_0623	1.6	333
20250528_0633	0.1	59
20250528_0643	0.1	317
20250528_0653	0.2	322
20250528_0703	0.1	75
20250528_0713	0.1	187
20250528_0723	0.4	25
20250528_0733	0.1	36
20250528_0743	0.1	5
20250528_0753	0.3	79
20250528_0803	0.3	324
20250528_0813	0.5	40
20250528_0823	1.2	315
20250528_0833	2.7	46
20250528_0843	0.1	50
20250528_0853	3.1	344
20250528_0903	0.2	316
20250528_0913	0.3	31
20250528_0923	0.1	87
20250528_0933	0.4	322
20250528_0943	0.5	64
20250528_0953	3.9	311
20250528_1003	0.6	44
20250528_1013	0.6	77
20250528_1023	1.3	25
20250528_1033	0.3	27
20250528_1043	0.4	153
20250528_1053	2.5	349
20250528_1103	1.1	20
20250528_1113	5.2	351
20250528_1123	0.5	71
20250528_1133	1	51
20250528_1143	3.6	55
20250528_1153	1.1	63

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250528_1203	0.7	313
20250528_1213	0.4	62
20250528_1223	1.8	331
20250528_1233	1	333
20250528_1243	0.3	51
20250528_1253	0.1	10
20250528_1303	0.5	67
20250528_1313	0.1	78
20250528_1323	0.1	34
20250528_1333	0.3	347
20250528_1343	0.1	59
20250528_1353	1.9	343
20250528_1403	1.6	336
20250528_1413	0.5	16
20250528_1423	0.2	98
20250528_1433	0.7	62
20250528_1443	0.1	15
20250528_1453	0.2	347
20250528_1503	0.3	174
20250528_1513	1.7	7
20250528_1523	3.6	47
20250528_1533	0.1	234
20250528_1543	0.3	51
20250528_1553	0.1	278
20250528_1603	1	341
20250528_1613	1.7	87
20250528_1623	0.4	293
20250528_1633	0.5	30
20250528_1643	0.1	297
20250528_1653	0.1	310
20250528_1703	0.1	249
20250528_1713	0.5	14
20250528_1723	0.1	119
20250528_1733	1.5	345
20250528_1743	0.6	42
20250528_1753	0.1	8
20250528_1803	0.1	229
20250528_1813	0.6	123
20250528_1823	0.2	98
20250528_1833	0.3	58
20250528_1843	0.6	38
20250528_1853	0.2	157
20250528_1903	1.7	132
20250528_1913	0.1	34
20250528_1923	0.1	331
20250528_1933	0.1	327
20250528_1943	0.3	116
20250528_1953	0.1	313
20250528_2003	0.5	54
20250528_2013	0.1	57
20250528_2023	0.1	172
20250528_2033	0.1	320
20250528_2043	0.1	297
20250528_2053	0.2	92
20250528_2103	0.1	34
20250528_2113	0.1	53
20250528_2123	0.1	127
20250528_2133	0.4	135
20250528_2143	0.9	194
20250528_2153	0.2	311
20250528_2203	0.1	154
20250528_2213	0.4	143
20250528_2223	2.8	88
20250528_2233	0.1	263
20250528_2243	0.3	109
20250528_2253	0.7	2
20250528_2303	0.5	342
20250528_2313	1.5	338
20250528_2323	1.6	27
20250528_2333	0.1	328
20250528_2343	0.1	272
20250528_2353	0.1	54

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250529_0003	0.8	80
20250529_0013	0.1	44
20250529_0023	0.2	262
20250529_0033	1.6	346
20250529_0043	0.1	350
20250529_0053	0.1	150
20250529_0103	0.1	293
20250529_0113	0.9	134
20250529_0123	0.1	28
20250529_0133	0.1	24
20250529_0143	0.1	301
20250529_0153	0.1	123
20250529_0203	3.6	121
20250529_0213	1.2	66
20250529_0223	2.9	115
20250529_0233	0.1	75
20250529_0243	0.1	122
20250529_0253	0.1	40
20250529_0303	0.1	141
20250529_0313	0.3	42
20250529_0323	1.1	135
20250529_0333	0.7	117
20250529_0343	0.2	157
20250529_0353	1.2	104
20250529_0403	0.1	39
20250529_0413	0.1	326
20250529_0423	0.1	114
20250529_0433	0.4	117
20250529_0443	7.5	144
20250529_0453	0.1	78
20250529_0503	0.1	66
20250529_0513	0.1	243
20250529_0523	0.1	106
20250529_0533	0.1	82
20250529_0543	0.1	75
20250529_0553	0.1	213
20250529_0603	0.3	125
20250529_0613	0.1	99
20250529_0623	0.1	24
20250529_0633	0.1	12
20250529_0643	0.9	342
20250529_0653	0.9	1
20250529_0703	0.2	8
20250529_0713	0.1	6
20250529_0723	0.1	25
20250529_0733	0.2	329
20250529_0743	0.1	306
20250529_0753	0.1	353
20250529_0803	0.7	185
20250529_0813	0.1	66
20250529_0823	0.1	59
20250529_0833	0.1	11
20250529_0843	0.4	121
20250529_0853	2.8	154
20250529_0903	0.3	89
20250529_0913	0.1	33
20250529_0923	0.1	-1
20250529_0933	0.1	7
20250529_0943	0.3	103
20250529_0953	0.1	105
20250529_1003	0.4	126
20250529_1013	0.1	72
20250529_1023	0.1	349
20250529_1033	0.1	105
20250529_1043	0.1	318
20250529_1053	0.1	149
20250529_1103	0.1	65
20250529_1113	0.6	113
20250529_1123	0.1	346
20250529_1133	0.1	29
20250529_1143	0.1	39
20250529_1153	0.6	146

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250529_1203	0.4	67
20250529_1213	0.8	173
20250529_1223	0.1	137
20250529_1233	0.1	167
20250529_1243	0.1	72
20250529_1253	0.5	178
20250529_1303	0.2	135
20250529_1313	0.1	115
20250529_1323	1.7	75
20250529_1333	0.8	68
20250529_1343	0.1	89
20250529_1353	0.4	132
20250529_1403	0.1	234
20250529_1413	0.1	22
20250529_1423	0.2	50
20250529_1433	0.3	284
20250529_1443	0.1	20
20250529_1453	0.1	337
20250529_1503	0.1	36
20250529_1513	0.1	53
20250529_1523	0.1	0
20250529_1533	0.4	25
20250529_1543	0.1	108
20250529_1553	0.1	27
20250529_1603	0.1	37
20250529_1613	0.3	349
20250529_1623	0.1	125
20250529_1633	0.1	141
20250529_1643	0.1	263
20250529_1653	0.1	270
20250529_1703	0.1	108
20250529_1713	0.1	342
20250529_1723	0.1	248
20250529_1733	0.1	230
20250529_1743	0.2	149
20250529_1753	0.1	122
20250529_1803	0.1	143
20250529_1813	0.1	298
20250529_1823	0.1	260
20250529_1833	0.1	7
20250529_1843	0.1	352
20250529_1853	0.1	85
20250529_1903	0.1	338
20250529_1913	0.4	0
20250529_1923	0.1	340
20250529_1933	0.1	20
20250529_1943	0.9	62
20250529_1953	0.1	108
20250529_2003	0.1	117
20250529_2013	0.1	333
20250529_2023	0.1	32
20250529_2033	1	14
20250529_2043	2.5	112
20250529_2053	1.2	56
20250529_2103	0.4	334
20250529_2113	0.5	323
20250529_2123	2.4	1
20250529_2133	0.7	351
20250529_2143	0.5	20
20250529_2153	6	59
20250529_2203	0.8	21
20250529_2213	0.4	15
20250529_2223	0.4	13
20250529_2233	0.6	4
20250529_2243	0.1	312
20250529_2253	0.1	65
20250529_2303	0.1	192
20250529_2313	0.1	211
20250529_2323	0.2	22
20250529_2333	0.2	352
20250529_2343	0.1	69
20250529_2353	2.4	347

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250530_0003	0.1	100
20250530_0013	0.1	301
20250530_0023	0.1	60
20250530_0033	0.2	15
20250530_0043	0.3	336
20250530_0053	0.1	70
20250530_0103	0.1	343
20250530_0113	2.1	62
20250530_0123	0.3	14
20250530_0133	0.3	59
20250530_0143	1.1	135
20250530_0153	0.2	71
20250530_0203	0.9	346
20250530_0213	8.1	336
20250530_0223	2.3	45
20250530_0233	4.3	67
20250530_0243	2.1	38
20250530_0253	0.1	167
20250530_0303	0.8	47
20250530_0313	0.3	51
20250530_0323	1.2	138
20250530_0333	0.1	117
20250530_0343	0.6	85
20250530_0353	0.1	91
20250530_0403	0.2	143
20250530_0413	0.1	52
20250530_0423	0.1	112
20250530_0433	0.2	86
20250530_0443	1.1	152
20250530_0453	0.1	25
20250530_0503	1.5	338
20250530_0513	0.1	106
20250530_0523	2	128
20250530_0533	0.1	188
20250530_0543	0.1	105
20250530_0553	0.1	27
20250530_0603	0.8	57
20250530_0613	0.5	50
20250530_0623	0.1	296
20250530_0633	0.2	23
20250530_0643	0.3	344
20250530_0653	0.4	20
20250530_0703	0.1	323
20250530_0713	0.1	38
20250530_0723	0.1	60
20250530_0733	1.2	335
20250530_0743	0.1	125
20250530_0753	0.1	36
20250530_0803	0.2	119
20250530_0813	0.1	6
20250530_0823	1.7	16
20250530_0833	0.1	345
20250530_0843	0.1	72
20250530_0853	0.3	49
20250530_0903	0.4	351
20250530_0913	0.1	260
20250530_0923	2.4	47
20250530_0933	0.1	352
20250530_0943	0.1	140
20250530_0953	0.1	52
20250530_1003	0.4	28
20250530_1013	0.1	56
20250530_1023	0.4	345
20250530_1033	0.1	12
20250530_1043	2.5	346
20250530_1053	0.1	101
20250530_1103	0.1	348
20250530_1113	0.1	209
20250530_1123	0.2	63
20250530_1133	0.3	16
20250530_1143	0.3	343
20250530_1153	0.1	334

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250530_1203	1.6	297
20250530_1213	1.7	48
20250530_1223	0.1	98
20250530_1233	0.1	38
20250530_1243	1.1	341
20250530_1253	0.2	328
20250530_1303	0.7	32
20250530_1313	1.3	44
20250530_1323	0.4	-1
20250530_1333	0.1	32
20250530_1343	0.7	22
20250530_1353	0.4	2
20250530_1403	0.1	44
20250530_1413	0.9	346
20250530_1423	0.2	65
20250530_1433	2.1	336
20250530_1443	0.1	56
20250530_1453	0.3	316
20250530_1503	3.4	345
20250530_1513	0.1	316
20250530_1523	1.2	312
20250530_1533	1	14
20250530_1543	2.6	13
20250530_1553	0.4	3
20250530_1603	0.5	351
20250530_1613	1.1	12
20250530_1623	0.1	345
20250530_1633	0.4	57
20250530_1643	0.1	306
20250530_1653	0.2	28
20250530_1703	0.1	35
20250530_1713	0.1	65
20250530_1723	0.1	113
20250530_1733	0.3	334
20250530_1743	1	51
20250530_1753	0.3	44
20250530_1803	0.4	22
20250530_1813	0.9	324
20250530_1823	0.5	311
20250530_1833	0.6	343
20250530_1843	0.1	44
20250530_1853	1.5	19
20250530_1903	2.2	147
20250530_1913	1.1	71
20250530_1923	1	58
20250530_1933	0.3	332
20250530_1943	0.6	53
20250530_1953	1.4	342
20250530_2003	1.5	27
20250530_2013	6	15
20250530_2023	4.3	50
20250530_2033	0.2	13
20250530_2043	1.9	15
20250530_2053	4.3	34
20250530_2103	4	353
20250530_2113	2.9	351
20250530_2123	0.6	155
20250530_2133	4.2	351
20250530_2143	0.6	9
20250530_2153	4.4	10
20250530_2203	1.6	290
20250530_2213	5.8	69
20250530_2223	0.1	91
20250530_2233	1	22
20250530_2243	0.5	37
20250530_2253	0.3	51
20250530_2303	3.2	351
20250530_2313	0.1	98
20250530_2323	0.5	12
20250530_2333	0.5	50
20250530_2343	0.9	320
20250530_2353	0.9	101

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250531_0003	1.4	53
20250531_0013	0.1	275
20250531_0023	0.1	274
20250531_0033	0.3	290
20250531_0043	0.6	346
20250531_0053	0.4	343
20250531_0103	1	100
20250531_0113	1	51
20250531_0123	0.9	49
20250531_0133	0.1	351
20250531_0143	0.1	318
20250531_0153	1.1	2
20250531_0203	0.4	3
20250531_0213	0.1	351
20250531_0223	0.1	109
20250531_0233	0.3	184
20250531_0243	0.3	103
20250531_0253	0.1	55
20250531_0303	0.5	338
20250531_0313	0.1	27
20250531_0323	0.2	326
20250531_0333	0.2	131
20250531_0343	3	20
20250531_0353	0.3	54
20250531_0403	0.1	93
20250531_0413	3	13
20250531_0423	0.3	85
20250531_0433	1.1	47
20250531_0443	0.3	50
20250531_0453	0.2	318
20250531_0503	0.1	25
20250531_0513	0.1	117
20250531_0523	0.1	32
20250531_0533	0.1	7
20250531_0543	0.1	134
20250531_0553	0.1	349
20250531_0603	0.1	116
20250531_0613	0.2	164
20250531_0623	0.1	128
20250531_0633	0.1	122
20250531_0643	0.1	130
20250531_0653	0.1	138
20250531_0703	0.1	158
20250531_0713	0.1	97
20250531_0723	0.1	24
20250531_0733	0.3	13
20250531_0743	0.1	163
20250531_0753	0.8	12
20250531_0803	0.3	354
20250531_0813	0.1	341
20250531_0823	0.1	232
20250531_0833	0.1	30
20250531_0843	0.6	158
20250531_0853	1.2	150
20250531_0903	0.7	155
20250531_0913	0.1	6
20250531_0923	0.1	316
20250531_0933	4.6	73
20250531_0943	0.1	55
20250531_0953	0.1	118
20250531_1003	1.9	105
20250531_1013	0.5	6
20250531_1023	0.3	344
20250531_1033	0.1	50
20250531_1043	0.1	271
20250531_1053	0.1	318
20250531_1103	0.8	57
20250531_1113	0.1	2
20250531_1123	4	125
20250531_1133	0.1	31
20250531_1143	0.1	283
20250531_1153	0.1	245

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20250531_1203	1.8	290
20250531_1213	0.1	354
20250531_1223	0.2	104
20250531_1233	1.1	117
20250531_1243	0.2	17
20250531_1253	1.2	129
20250531_1303	0.1	157
20250531_1313	1.5	323
20250531_1323	0.7	62
20250531_1333	0.4	334
20250531_1343	0.1	24
20250531_1353	1.1	337
20250531_1403	2.9	348
20250531_1413	0.8	305
20250531_1423	2.2	28
20250531_1433	0.2	323
20250531_1443	1.4	340
20250531_1453	0.6	331
20250531_1503	4.5	0
20250531_1513	1.2	341
20250531_1523	0.8	325
20250531_1533	0.5	15
20250531_1543	0.9	340
20250531_1553	2.9	47
20250531_1603	0.2	314
20250531_1613	0.7	11
20250531_1623	1.9	8
20250531_1633	0.6	343
20250531_1643	0.1	120
20250531_1653	1	108
20250531_1703	0.1	181
20250531_1713	0.1	321
20250531_1723	0.1	7
20250531_1733	0.5	61
20250531_1743	0.1	311
20250531_1753	0.1	124
20250531_1803	0.2	118
20250531_1813	0.1	93
20250531_1823	0.1	1
20250531_1833	0.1	131
20250531_1843	0.1	148
20250531_1853	0.1	183
20250531_1903	0.1	64
20250531_1913	0.3	342
20250531_1923	0.4	19
20250531_1933	1.7	340
20250531_1943	0.2	28
20250531_1953	3.7	36
20250531_2003	1.3	342
20250531_2013	0.9	32
20250531_2023	1	52
20250531_2033	0.3	317
20250531_2043	0.1	194
20250531_2053	0.1	132
20250531_2103	0.1	19
20250531_2113	0.1	332
20250531_2123	0.1	107
20250531_2133	0.1	100
20250531_2143	0.3	97
20250531_2153	0.1	352
20250531_2203	0.1	158
20250531_2213	1.2	330
20250531_2223	0.1	349
20250531_2233	1.7	340
20250531_2243	0.1	53
20250531_2253	0.1	98
20250531_2303	0.2	56
20250531_2313	0.1	141
20250531_2323	0.1	53
20250531_2333	0.1	138
20250531_2343	0.1	182
20250531_2353	0.1	116

Appendix J Waste Flow Table

Waste Flow Table

Month	Total Quantity Generated	Total Quantities of Inert C&D Materials to be Generated from the Contract					Total Quantities of Recyclables Generation				Total Quantities of C&D Materials to be Generated from the Contract		
		Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics	Yard Waste (to Y-Park)	Chemical Waste	General Refuse	Others, e.g. non-recyclable yard waste
	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in '000L)	(in tonne)	(in tonne)
Jan-25	168,646.98	0	48361.85	119,302	0	849.35	0	0	0	0	0	57.76	76.02
Feb-25	289,409.40	0	120705.57	168,201	0	115.28	0	0	0	0	0	241.88	145.67
Mar-25	206,271.43	0	52172.73	153,388	0	418.2	0	0	0	0	0	156.26	136.24
Apr-25	192,901.99	0	62122.45	129,495	0	1121.65	0	0	0	0	0	118.11	45.03
May-25	214,400.19	0	79056.7	134,473	0	648.15	0	0	0	0	0	222.34	0
Total	1,071,629.99	0.00	362,419.30	704,858.75	0.00	3,152.63	0.00	0.00	0.00	0.00	0.00	796.35	402.96

Note:

1. The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
2. Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

Appendix K Joint Environmental Site Inspection Records

Follow up action for previous Site Inspection:

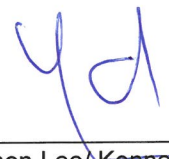
Nil

Observation(s):

1. The overloading of enclosed rubbish bins at Portion A was found.

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

1. The Contractor was recommended that the accumulation of general refuse should be removed and the number of enclosed rubbish bins should be considered to increase.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Jason Man	/	Matt Choy/ Kristy Wong	Simon Lee/ Kenneth Lam
Date:	6 May 2025	/	6 May 2025	6 May 2025

Follow up action for previous Site Inspection:

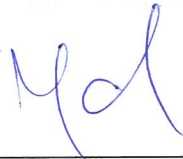
1. 28 April 2025 Observation 1 – The open cement bags at Portion D were covered by the plastic sheet.
2. 28 April 2025 Observation 2 – The accumulated refuse at Portion E4 was removed by the contractor.
3. 6 May 2025 Observation 1 – The enclosed rubbish bin had been increased at Portion A by the contractor.

Observation(s):

1. Accumulated silt was found at the sedimentation basin of Portion E3-1.
2. Waste and standing water were found at the U-channel of Portion A.

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

1. The Contractor was recommended to clean up the accumulated silt at the sedimentation basin regularly.
2. The Contractor was advised to remove the waste and direct the standing water into silt removal facilities for treatment.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Jason Man	/	Matt Choy/ Kristy Wong	Simon Lee/ Kenneth Lam
Date:	12 May 2025	/	12 May 2025	12 May 2025

Follow up action for previous Site Inspection:

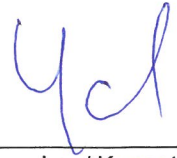
1. 28 April 2025 Observation 3 – The silt at U-channel of the haul road had been removed by the contractor.
2. 12 May 2025 Observation 1 – The accumulated silt at the sedimentation basin of Portion E3-1 had been removed by the contractor.
3. 12 May 2025 Observation 2 – The accumulated silt at the sedimentation basin of Portion E3-1 had been removed by the contractor.
4. 12 May 2025 Observation 3 – The waste and standing water at the U-channel of Portion A had been cleaned up by the contractor.

Observation(s):

1. Accumulated waste at Portion D was found.
2. The breaking work without water spraying was found.
3. The access roads at Portion A and B2 were dry and the dust dispersion was found when vehicles went through the access road.
4. Standing water at the U-channel of Portion A was found.

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

1. The Contractor was recommended that accumulated waste at Portion D should be removed regularly.
2. The Contractor was advised that water spraying should be conducted when the breaking works are conducting.
3. The Contractor was recommended that the frequency of watering should be increased, especially at dry weather.
4. The Contractor was advised that standing water at U-channel of Portion A should be directed into the silt removal facilities for treatment.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:				
Name:	Jason Man	Echo Hung	Matt Choy/ Kristy Wong	Simon Lee/ Kenneth Lam
Date:	19 May 2025	19 May 2025	19 May 2025	19 May 2025

Follow up action for previous Site Inspection:

Nil

Observation(s):

1. Standing water was found at Portion A.
2. Accumulated waste was found at Portion A.

Reminder(s):

1. The Contractor was reminded that the control of silty surface runoff should be implemented in accordance with the Appendix A2 of ProPECC PN 1/94.

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

1. The Contractor was recommended to clean up the standing water into silt removal facility for treatment, especially after rainstorm.
2. The Contractor was advised that accumulated waste should be collected by approved waste collector regularly.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Jason Man	/	Matt Choy/ Kristy Wong	Simon Lee/ Kenneth Lam
Date:	26 May 2025	/	26 May 2025	26 May 2025

Appendix L Environmental Mitigation Implementation Schedule (EMIS)

North East New Territories (NENT) Landfill Extension
Environmental Mitigation Implementation Schedule (EMIS) Construction Phase

EIA Ref.	EM&A Log Ref.	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Air Quality								
S3.8.1	S3.1.8	B7 – B36	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	Entire NENT Landfill Extension site	To control the dust impact to within the criteria of EIA Report (Register No. AEIAR-111/2007)	✓
		B4, B15 & B18	Dust emission from construction vehicle movement is confined within the worksites area.					✓
		B11 – B12	Watering facilities will be provided at every designated vehicular exit point.					Vehicle washing facilities provided at vehicular exit point in Portion A, B1-2, D, E3-1 & E4
		-	Good site practice is recommended during construction phase.					✓
Construction Noise								
S4	S4.9	C1	1) Use of good site practices to limit noise emissions by considering the following: (a) Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;	Control construction airborne noise by means of good site practices	Contractor	Entire construction site	Noise Control Ordinance	✓
		C2	(b) Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;					✓
		C3	(c) Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;					✓
		C4	(d) Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;					N/A
		C5	(e) Mobile plant should be sited as far away from NSRs as possible and practicable;					✓
		C6	(f) Material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.					✓
S4	S4.9	C11 – C13	2) Select “Quiet plants” which comply with the BS 5228 Part 1 or TM standards.	Reduce the noise levels of plant items	Contractor	Entire construction site	Noise Control Ordinance & its TM Annex 5, TM-EIA	✓
Construction Runoff								
S5.8.1	S5.2.1	D1	<u>Construction on Site Runoff</u> (a) At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. (b) Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities.	Control construction runoff and erosion from site surface, drainage channel, stockpiles, wheel washing facilities, etc to minimize water quality during construction stage	Contractor	Entire Construction site	ProPECC PN 1/94 Water Pollution Control Ordinance	(a) ✓ (b) ✓
		D2	(a) The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. (b) Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/sediment trap. (c) The sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates.					(a) ✓ (b) ✓ (c) ✓
		D3	The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silts and sediment traps should be 5 minutes under maximum flow conditions.					✓
		D4	(a) Construction works should be programmed to minimize surface excavation works during the rainy seasons (April to September). (b) All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. (c) If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.					(a) ✓ (b) ✓ (c) ✓

Remarks:

- ✓ Compliance of mitigation measure
- * Recommendation was made during site audit but improved/rectified by the contractor
- # Recommendation was made during site audit but not yet improved/rectified by the contractor.
- N/A Not Applicable at this stage were conducted in the reporting period.
- @ (Which measure) Alternative measure was made by the contractor.

North East New Territories (NENT) Landfill Extension
Environmental Mitigation Implementation Schedule (EMIS) Construction Phase

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Construction Runoff (Cont'd)								
S5.8.1	S5.2.1	D5	(a) The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and (b) all traffic areas and access roads protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows.	Control construction runoff and erosion from site surface, drainage channel, stockpiles, wheel washing facilities, etc to minimize water quality during construction stage	Contractor	Entire Construction site	ProPECC PN 1/94	(a) ✓
		D6	(a) All drainage facilities and erosion and sediment control structures should be regularly inspected and (b) maintained to ensure proper and efficient operation at all times and particularly following rainstorms. (c) Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas.				DSD Technical Circular TC01/2017	(a) ✓ (b) ✓
		D7	(a) Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. (b) Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.				Water Pollution Control Ordinance	(a) ✓ (b) ✓ (c) ✓
		D8	Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50 m³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.					(a) ✓ (b) ✓
		D9	(a) Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as (b) to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.					✓
		D10	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.					(a) ✓ (b) ✓
		D11	(a) All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. (b) An adequately designed and sited wheel washing bay should be provided at every construction site exit. (c) Wash-water should have sand and silt settled out and removed at least on a weekly basis (d) to ensure the continued efficiency of the process. (e) The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.					✓
		D12	(a) Oil interceptors should be provided in the site drainage system downstream of any oil/fuel pollution sources. (b) The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. (c) A bypass should be provided for the oil interceptors to prevent flushing during heavy rain.					(a) ✓ (b) ✓ (c) ✓ (d) ✓ (e) ✓
		D13	(a) Oil interceptors should be provided in the site drainage system downstream of any oil/fuel pollution sources. (b) The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. (c) A bypass should be provided for the oil interceptors to prevent flushing during heavy rain.					(a) N/A (b) N/A (c) N/A
		D14	Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts. Requirements for solid waste management are detailed in Section 6 of this Report.					✓
		D15	All fuel tanks and storage areas should be provided with docks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby.					✓
		D19	<u>Sewage Effluent from Workforce</u> (a) Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. (b) A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.					✓
		D20	Notices will be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project.					(a) ✓ (b) ✓
								N/A

Remarks:

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North East New Territories (NENT) Landfill Extension
Environmental Mitigation Implementation Schedule (EMIS) Construction Phase

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Construction Runoff (Cont'd)								
S5.8.1	S5.2.1	D19	<u>Sewage Effluent from Workforce</u> (a) Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. (b) A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	Control sewage effluent arising from the sanitary facilities provided for the on-site construction workforce	Contractor	On-site sanitary facilities	ProPECC PN 1/94	(a) ✓
		D20	Notices will be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project.				DSD Technical Circular TC01/2017	(b) ✓
		-	Regular environmental audit on the construction site can provide an effective control of any malpractices and can achieve continual improvement of environmental performance on site.				Water Pollution Control Ordinance	N/A
						Waste Disposal Ordinance	✓	
S5.8.1	S5.2.1	D21	<u>Accidental Spillage of Chemical</u> (a) Any service workshop and maintenance facilities shall be located within a bunded area, and sumps and oil interceptors shall be provided. (b) Maintenance of equipment involving activities with potential for leakage and spillage will only be undertaken within the areas.	Control of chemical leakage	Contractor	Service workshop and maintenance facilities	ProPECC PN 1/94	(a) N/A
							Water Pollution Control Ordinance	(b) N/A
							Waste Disposal Ordinance	
Erosion Control Measures								
S5.8.2	S5.2.2	-	<u>Erosion Control /Measures</u> a. Preserve Natural Vegetation This Best Management Practices will involve preserving natural vegetation to the greatest extent possible during the construction process. and after construction where appropriate. Maintaining natural vegetation is the most effective and inexpensive form of erosion prevention control.	Erosion control	Contractor	Drainage system	ProPECC PN 1/94	✓
		-	b. Provision of Buffer Zone A buffer zone consists of an undisturbed area or strip of natural vegetation or an established suitable planting adjacent to a disturbed area that reduces erosion and runoff. The rooted vegetation holds soils acts as a wind break and filters runoff that may leave the site.				Water Pollution Control Ordinance	✓
		-	c. Seeding (Temporary/Permanent) A well-established vegetative cover is one of the most effective methods of reducing erosion. Vegetation should be established on construction sites as the slopes are finished, rather than waiting until all the grading is complete. Besides, Hydroseeding will be applied on the surface of stockpiled soil and on temporary soil covers for inactive tipping areas to prevent soil erosion during rainy season.					✓
		-	d. Ground Cover Ground Cover is a protective layer of straw or other suitable material applied to the soil surface. Straw mulch and/or hydromulch are also used in conjunction with seeding of critical areas for the establishment of temporary or permanent vegetation. Ground cover provides immediate temporary protection from erosion. Mulch also enhances plant establishment by conserving moisture, holding fertilizer, seed, and topsoil in place, and moderating soil temperatures.					To be implemented
		-	e. Hydraulic Application Hydraulic application is a mechanical method of applying erosion control materials to bare soil in order to establish erosion-resistant vegetation on disturbed areas and critical slopes. By using hydraulic equipment, soil amendments, mulch, tackifying agents, Bonded Fiber Matrix (BFM) and liquid co-polymers can be uniformly broadcast, as homogenous slurry, onto the soil. These erosion and dust control materials can often be applied in one operation.					To be implemented
			f. Sod Establishes permanent turf for immediate erosion protection and stabilizes drainageways.					✓
			g. Matting There are numerous erosion control products available that can be described in various ways, such as matting, blankets, fabric and nets. These products are referred as matting. A wide range of materials and combination of materials are used to produce matting including, but not limited to: straw, jute, wood fiber, coir (coconut fiber), plastic netting, and Bonded Fiber Matrix. The selection of matting materials for a site can make a significant difference in the effectiveness of the Best Management Practices.					✓

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Erosion Control Measures (Cont'd)								
S5.8.2	S5.2.2		h. Plastic Sheetting Plastic Sheetting will provide immediate protection to slopes and stockpiles. However, it has been known to transfer erosion problems because water will sheet flow off the plastic at high velocity. This is usually attributable to poor application, installation and maintenance.	Erosion control	Contractor	Drainage system	ProPECC PN 1/94 Water Pollution Control Ordinance	✓
		-	i. Dust Control Dust Control is one preventative measure to minimize the wind transport of soil, prevent traffic hazards and reduce sediment transported by wind and deposited in water resources.					✓
Surface Water Drainage System								
S5.8.2	S5.2.2	D22	(a) Temporary surface water drainage system will be provided to manage runoff during construction and operation. (b) This system will consist of channels as constructed around the perimeter of the site area. (c) This system will collect surface water from the areas of higher elevations to those of lower elevations and ultimately to the point of discharge. (d) Erosion will therefore be minimised.	Surface Water Management/ Control run off	Contractor	Surface water system Construction	Water Pollution Control Ordinance TM-water	(a) ✓ (b) ✓ (c) ✓ (d) ✓
		D23	(a) The temporary surface water drainage system will include the use of a silt fence around the soil stockpile areas to prevent sediment from entering the system. (b) Regular cleaning will be carried out to prevent blockage of the passage of water flow in silt fence.					(a) ✓ (b) ✓
		-	Intermediate drainage system will be installed for filled cell/phase. The major purpose of the intermediate drainage system is to prevent the clean surface water run-off from the filled phases coming into contact with the waste mass in active cell and to prevent excessive surface water infiltration through the intermediate cover, thus contribute to increasing volume of leachate. The intermediate drainage system will collect the clean surface water run-off and divert it to the permanent discharge channels connected to the public drainage system.					N/A
		-	In addition, surface flow from the haul road (especially near the wheel washing facility) will be collected to a dry weather flow interceptor and conveyed to the on-site leachate treatment plant for further treatment.					N/A
Waste Management								
S6	WM1	-	<u>C&D Materials</u> Implement proper waste management measures during construction phase as stipulated in the Environmental Management Plan (EMP) in accordance with the ETWB TC(W) No. 19/2005 Environmental Management in Construction Sites.	Good site practice to minimise C&D waste generation and reuse/recycle all C&D on-site as far as possible	Contractor	Entire construction site	Waste Disposal Ordinance ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010	✓
		-	Implement a trip-ticket system to ensure that the movement of C&D materials are properly documented and verified in accordance with DEVB TC(W) No. 6/2010. Copies/counterfoils from trip-tickets (with quantities of C&D Materials off-site) should be kept for record purposes.					✓
		-	Appropriate waste management should be implemented in accordance with the ETWB TC(W) No. 19/2005.					✓
		E4	(a) Make provisions in Contract documents to allow and promote the use of recycled aggregates where appropriate. Ensure material balance in terms of excavated C&D materials in the design of NENT landfill extension project. (b) The contract specifications should specify no excavated materials should be removed from the landfill extension site, but should be fully reused.					(a) ✓ (b) ✓
		E5	Careful design, planning and good site management to minimise over-ordering and waste materials such as concrete, mortars and cement grouts. (a)(b) The design of formwork should maximise the use of standard wooden panels so that high reuse levels can be achieved. (c) Alternatives such as steel formwork or plastic fencing should be considered to increase the potential for reuse.					(a) ✓ (b) ✓ (c) ✓
		E6	(a) The Contractor should recycle as much as possible the C&D waste on-site through proper waste segregation on-site. (b) Concrete and masonry should be used as general fill and steel reinforcement bars can be used by scrap steel mills. (c) Proper areas should be designated for waste segregation and storage wherever site conditions permit. (d) Maximise the use of reusable steel formwork to reduce the amount of C&D material.					(a) ✓ (b) ✓ (c) ✓ (d) ✓

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North East New Territories (NENT) Landfill Extension
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Waste Management (Cont'd)								
S6	WM1	E7	(a) Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement. On-site sorting and segregation facility of all type of wastes is considered as one of the best practice in waste management and hence, should be implemented in all projects generating construction waste. (b) The sorted public fill and C&D waste should be properly reused.	Good site practice to minimise C&D waste generation and reuse/recycle all C&D on-site as far as possible	Contractor	Entire construction site	Waste Disposal Ordinance ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010	(a) ✓ (b) ✓
		E8	(a) Excavated slope, stockpiled material and bund walls should be covered by tarpaulin until used in order to prevent wind-blown dust during dry weather, and to reduce muddy runoff during wet weather. (b)(c) Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers					(a) ✓ (b) ✓ (c) ✓
		E9	If any topsoil-like materials need to be stockpiled for any length of time, consideration should be given to hydroseeding of the topsoil on the stockpile to improve its visual appearance and prevent soil erosion.					✓
		E10	Nomination of approved personnel to be responsible for good site practices and making arrangements for collection of all wastes generated on-site and effective disposal.					✓
		E11	Training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concepts.					✓
		E12	Regular cleaning and maintenance programme systems, sumps and oil interceptors.					✓
		E13	(a) Prior to disposal of C&D waste, wood, steel and other metals should be separated for re-use and/or recycling to minimise the quantity of waste to be disposed of to landfill. (b)(c) Proper storage and site practices should be implemented to minimise the potential for damage or contamination of construction materials.					(a) ✓ (b) ✓ (c) N/A
			Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. Minimise excessive ordering of concrete, mortars and cement grout by doing careful check before ordering.					✓
S6	WM2	E16 – E23	<u>Chemical Waste</u> Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	Ensure proper disposal of chemical waste generated on-site to minimise the associated hazards on human health and environment	Contractor	Entire construction site	Waste Disposal (Chemical Waste) General Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	✓
		-	Plant/equipment maintenance schedule should be designed to optimise maintenance effectiveness and to minimise the generation of chemical wastes. Where possible, chemical wastes (e.g. waste lube oil) should be recycled by licensed treatment facilities					✓
		E17 & E18	Containers used for storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD. Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulation.					✓
		E19	(a) The storage area for chemical wastes should be clearly labelled and used solely for storage of chemical waste, (b) enclosed with at least 3 sides, having an impermeable floor and bund of sufficient capacity to accommodate 110% of volume of the largest container or 20 % of total volume of waste stored in that area, (c)(d) whichever is the greatest, having adequate ventilation, being covered to prevent rainfall entering, and being arranged so that incompatible materials are adequately separated.					(a) ✓ (b) N/A (c) N/A (d) N/A
		E20	Chemical waste should be collected by licensed waste collectors and disposed of at licensed facility, e.g. Chemical Waste Treatment Centre.					✓

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Waste Management (Cont'd)								
S6	WM3	E1	<u>General Refuse</u> General refuse generated on-site should be properly stored in enclosed bins or compaction units separately from construction and chemical wastes.	Minimise generation of general refuse to avoid odour, pest and visual nuisance	Contractor	Entire construction site	Waste Disposal Ordinance	✓
		E2	(a) All recyclable materials (separated from the general waste) should be stored on-site in appropriate containers with cover prior to collection by a local recycler for subsequent reuse and recycling. Residual, non-recyclable, general waste should be stored in appropriate containers to avoid odour. (b)(c)(d) Regular collection should be arranged by an approved waste collector in purpose-built vehicles that minimise environmental impacts during transportation					(a) ✓ (b) ✓ (c) ✓ (d) ✓
		-	Reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimise odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.					✓
		-	Aluminium cans should be separated from general waste stream and collected by recyclers. Proper collection bins should be provided on- site to facilitate the waste sorting.					✓
		-	Office waste paper should recycled if the volume warrant collection by recyclers. Participation in community waste paper recycling programme should be considered by the Contractor, including waste paper, aluminium cans, plastic bottles, waste batteries, etc.					✓
LFG								
Within NENT Landfill Extension								
S7	LFG1	F1	Special LFG precautions should be taken due to close proximity of NENT landfill extension site to existing landfill to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity).	To minimise the risk of LFG hazards to personnel in construction site	Contractor	Entire construction site	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97) F&IU (Confined Spaces) Regulations Code of Practice on Safety and Health at Work in Confined Spaces	N/A
	LFG2	F2	Prominent safety warning signs should be erected on-site to alert all personnel and visitors of LFG hazards during excavation works.					✓
	LFG3	F3	No smoking or burning should be permitted on-site.					✓
	LFG4	F4	Prominent 'No smoking' and 'No Naked Flames' signs should be erected on-site.					✓
	LFG5	F5	No worker should be allowed to work alone at any time in excavated trenches or confined areas on-site.					✓
	LFG6	F6	Adequate fire fighting equipment should be provided on-site.					✓
	LFG7	F7	Construction equipment should be equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors.					✓
	LFG8	F8	Electrical motors and extension cords should be explosion-proof and intrinsically safe for use on-site.					✓
	LFG9	F9	'Permit to Work' system should be implemented.					✓
	LFG10	F10	Welding, flame-cutting or other hot works should be conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works.					✓
	LFG11	F11	(a) For piping assembly or conduit construction, all valves and seals should be closed immediately after installation to avoid accumulation and migration of LFG. (b) If installation of large diameter pipes (diameter >600mm) is required, the pipe ends should be sealed on one side during installation. (c) Forced ventilation is required prior to operation of installed pipeline. (d) Forced ventilation should also be required for works inside trenches deeper than 1m.				(a) N/A (b) N/A (c) N/A (d) N/A	
	LFG12	F12	Frequency and location of LFG monitoring within excavation area should be determined prior to commencement of works. LFG monitoring in excavations should be conducted at no more than 10mm from exposed ground surface.				✓	
	LFG13	F13	For excavation works, LFG monitoring should be conducted (1) at ground surface prior to excavation, (2) immediately before workers entering excavations, (3) at the beginning of each half-day work, and (4) periodically throughout the working day when workers are in the excavation.				✓	
	LFG14	F14	Any cracks on ground level encountered on-site should be monitored for LFG periodically. Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.				✓	
	LFG15	F15	(a) LFG precautionary measures involved in excavation and piping works should be provided in accordance with LFG Guidance Note and included in Safety Plan of construction phase. (b) Temporary offices or buildings should be located where free LFG has been proven or raised clear of ground at a separation distance of at least 500mm.				(a) N/A (b) N/A	

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North East New Territories (NENT) Landfill Extension
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LFG (Cont'd)								
Within NENT Landfill Extension								
S7	LFG16	F16	For large development such as NENT landfill extension, a Safety Officer trained in the use of gas detection equipment and LFG- related hazards should be present on-site throughout the groundwork phase. The Safety Officer should be provided with an intrinsically safe portable instrument appropriately calibrated and capable of measuring the following gases: •CH ₄ : 0-100% and LEL: 0-100%/v •CO ₂ : 0-100% •O ₂ : 0-21%	To minimise the risk of LFG hazards to personnel in construction site	Contractor	Entire construction site	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97) F&IU (Confined Spaces) Regulations	✓
	LFG17	F17	(a) Periodically during groundwork construction, the works area should be monitored for CH ₄ CO ₂ and O ₂ using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas should be established prior to commencement of groundwork either by Safety Officer or appropriately qualified person. (b) Routine monitoring should be carried out in all excavations, manholes, created by temporary storage of building materials on-site. (c) All measurements in excavations should be made with monitoring tube located not more than 10mm from exposed ground surface.				Code of Practice on Safety and Health at Work in Confined Spaces	(a) N/A (b) N/A (c) N/A
	LFG18	F18	For excavations deeper than 1m, measurements should be conducted: • At ground surface before excavation commences; • Immediately before any worker enters the excavation; • At the beginning of each working day for entire period the excavation remains open; and Periodically throughout the working day whilst workers are in excavation.					✓
	LFG19	F19	For excavations between 300mm and 1m, measurements should be conducted: • Directly after excavation has been completed; and Periodic all whilst excavation remains open.					✓
	LFG20	F20	For excavations less than 300mm, monitoring may be omitted at the discretion of Safety Officer or appropriately qualified person.					✓
Landscape and Visual Phases								
S8	LV1	G4	<u>Advanced screening tree planting</u> • Early planting using fast growing trees and tall shrubs at strategic locations within site to block major view corridors to the site from the VSRs, and to locally screen haul roads, excavation works and site preparation works. • Roadside planter and shrub planting design in front of Cheung Shan Temple.	To minimise the impact on existing vegetation retained by personnel in construction To provide initiation on permanent landscape and visual mitigation measures	Contractor	Entire construction site	DEVB TC(W) No. 4/2020 - Tree Preservation DEVB TC(W)) No. 6/2015 - Maintenance of Vegetation and Hard Landscape Features DEVB TC(W) No. 6/2011 - Maintenance of Man-made Slopes and Emergency Repair on Stability of Land	✓
S8	LV2	G5	<u>Boundary Green Belt planting</u> Considerable planting belts proposed around the site perimeter and the construction of temporary soil bunds will screen the landfill operations to a certain degree. Fast growing and fire resistant plant species will be used.				To be implemented during operation phase	
S8	LV3	G6	<u>Temporary landscape treatment as green surface cover</u> For certain areas where landfilling operations would have to be suspended temporarily for periods of years, simple temporary landscape treatment such as hydroseeding should be considered. During construction and operational phases, grass hydroseeding or synthetic covering material of green colour should also be used as a temporary slope cover if applicable.				✓	
S8	LV4	G7	<u>Existing tree preservation</u> Transplant existing trees and vegetation, which are identified as ecologically significant in Ecological Impact Assessment and as rare tree species recorded in the tree survey, under circumstances where technically feasible. For all affected trees, the principle of avoidance of tree felling and tree transplanting of tree before felling should apply whenever possible. A tree felling application should be submitted to DEVB-GLTMS and be approved before any trees are felled or transplanted.				✓	

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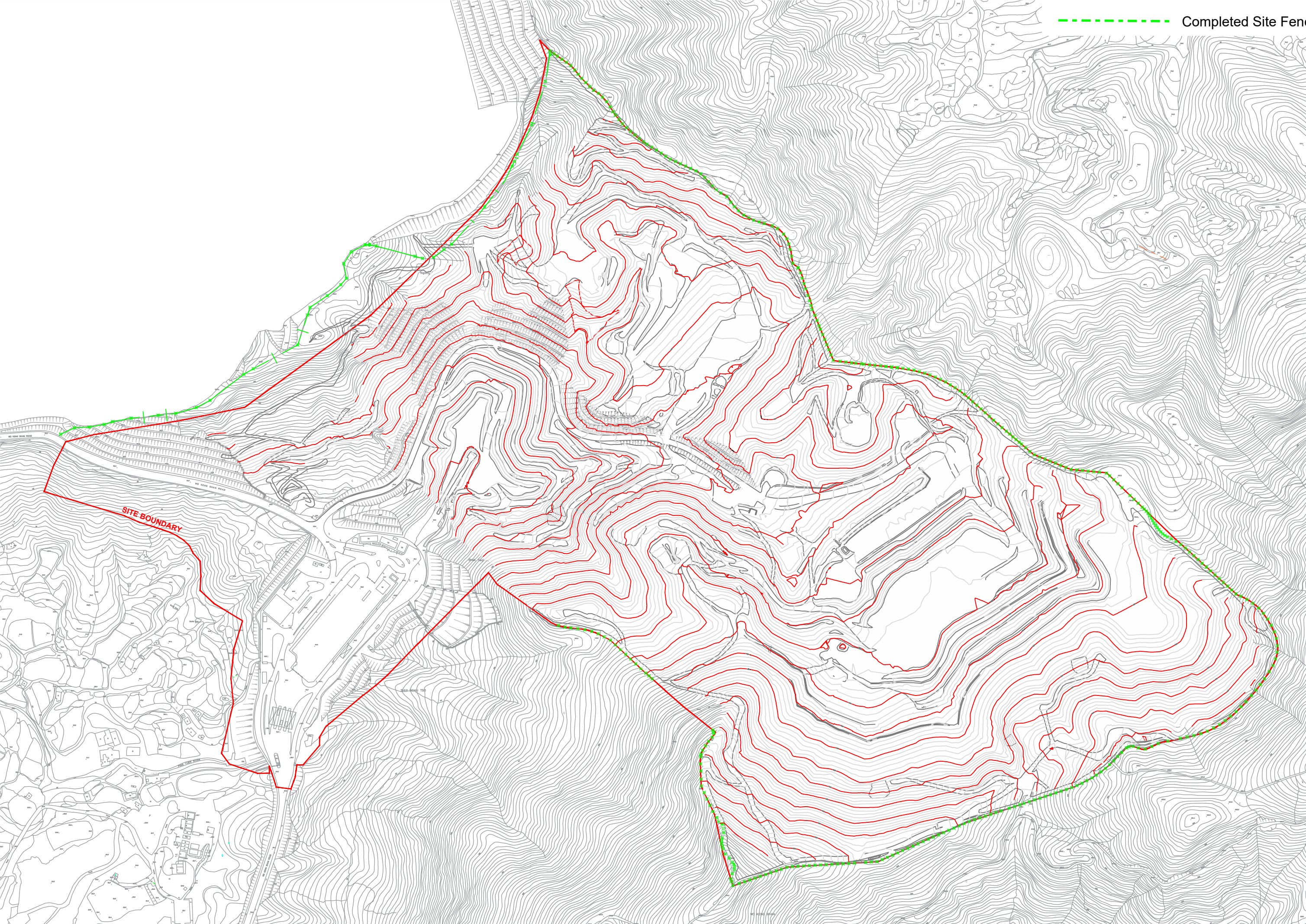
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Ecology								
General Protection Measures:								
S10	E1	-	Restriction of construction activities to the work areas that would be clearly demarcated.	To minimise environmental impacts and therefore potential ecological impacts within and near the construction site	Contractor	Entire construction site	Practice Note for Professional Persons (ProPECC), Construction Site Drainage (PN1/94)	✓
	E2	-	Reinstatement of the work areas immediately after completion of the works.					✓
	E3	-	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.				Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes, EPD (1992)	✓
	E4	-	Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.					✓
	E5	-	Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs.				ETWB TC(W)) No. 33/2002 Management of Construction and Demolition Material Including Rock	✓
	E6	-	Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works.					N/A
	E7	-	Mobile plant should be sited as far away from NSRs as possible and practicable.				DEVB TC(W) No. 6/2010 Trip Ticket System for Disposal of Construction and Demolition Materials	✓
	E8	-	Material stockpiles, site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.					✓
	E9	-	Use of "quiet" plant and working methods.					✓
	E10	-	Construction phase mitigation measures in the Practice Note for Professional Persons on Construction Site Drainage.				ETWB TC(W)No.19/2005 Environmental Management on Construction Sites	✓
	E11	-	Design and set up of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction.					✓
	E12	-	Design and incorporation of silt/sediment traps in the permanent drainage channels to enhance deposition rates and regular removal of repositied silt and grit.					✓
	E13	-	Minimization of surface excavation works during the rainy seasons (April to September), and in particular,control of silty surface runoff during storm events, especially for areas located near steep slopes.					✓
	E14	-	Regular inspection and maintenance of all drainage facilities and erosion and sediment control structures to ensure proper and efficient operation at all times and particularly following rainstorms.					✓
	E15	-	Provision of oil interceptors in the drainage system downstream of any oil/fuel pollution sources					N/A

Remarks:

- ✓Compliance of mitigation measure
- *Recommendation was made during site audit but improved/rectified by the contractor
- #Recommendation was made during site audit but not yet improved/rectified by the contractor.
- N/ANot Applicable at this stage were conducted in the reporting period.
- @ (Which measure)Alternative measure was made by the contractor.

Appendix M Mitigation Measures of Cultural Landscape Features



----- Completed Site Fencing

Appendix N Cumulative Complaint / Enquiry Log, Summaries of Complaints and Enquiries

Environmental Complaints Log

Complaint Ref. No.	Date of Complaint Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
C001_20221220	21 Dec 2022	Veolia (Contractor)	ET	Air Quality (Construction Dust)	5, 12 & 19 Dec 2022	It was noted from Veolia's email to the ET on 20 December 2022 that Veolia received complaint lodged regarding presenting much dusty materials at roundabout at Wo Keng Shan Road & dusty flying problem at Kowloon-bound traffic at Lung Shan Tunnel. No dusty materials and wastes were transported out from the NENTX site during the complaint period. During the regular weekly site inspection on 5, 12 & 19 December 2022, it was observed that the wheel washing facilities with high-pressure water jets have been provided at all site exits of NENTX and cleaned all vehicles before allowing them to leave the construction site to ensure that no mud or debris would be brought to the public area. All site vehicles of NENTX are also required to go through the auto wheel washing facility, which is managed by the operator of the NENT landfill, before entering the public area. The road section between the washing facilities and the exit point was paved with concrete, or bituminous materials were implemented in all site entrances. No mud generated from vehicles under the NENTX project after exiting the site entrance was observed. In conclusion, there is no direct evidence showing that the complaint is likely related to the NENTX project.	5 Jan 2023
C002_20230614	14 Jun 2023	EPD-RNG	ET	Water Quality	16, 21 Jun, 24, 25 Jul & 2 Aug 2023	It was noted from EPD-RNG's email to the ET on 14 Jun 2023 that EPD received complaint lodged regarding the muddy water was observed at Lin MA Hang International Bridge. In summary of the investigation, the pollutant water appeared crimson colour with bubbles at the LMH-OP01 (Monitoring Point from EPD). The colour and pattern of pollutant water is different from the runoff at surface WQM monitoring location WM1. Hence, the project is not the major source causing the pollutant water. To minimise the potential impact of the project, the enhancement of mitigation measures at north boundary were advised to implement by contractor. The related rectified actions had been conducted by the contractor.	29 Jun & 21 Aug 2023

Complaint Ref. No.	Date of Complaint Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
C003_20230615	15 Jun 2023	EPD-RNG	ET	Water Quality	16, 19, 21 Jun, 18 Jul 2023	It was noted from EPD-RNG's email to the ET on 15 June 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD). In summary of the investigation, the muddy water caused from multi-potential sources while the runoff from the box culvert under the Wo Keng Shan Road is the major source including runoff from Existing channel near Portion E3-1, discharge water from the silt removal facilities at Portion E3-1 of the project, runoff from branch near the entrance of Portion E3-1, runoff from weighting plaza of NENT Landfill & natural stream near Wo Keng Shan & Shui Ngau Tso etc.. Hence, the project is a part of factor causing the high turbidity muddy water. To minimise the potential impact of construction runoff from the project, the further mitigation measures and enhancement of the temporary surface water drainage system were advised to implement by contractor. The related rectified actions had been conducted by the contractor.	15 Jun, 21 Aug 2023
C004_20230803	3 Aug 2023	EPD-RNG	ET	Water Quality	18 Jul 2023	It was noted from EPD-RNG's email to the ET on 3 Aug 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD). In summary of the investigation, the muddy water caused from multi-potential sources while the runoff from the box culvert under the Wo Keng Shan Road is the major source including runoff from Existing channel near Portion E3-1, discharge water from the silt removal facilities at Portion E3-1 of the project, runoff from branch near the entrance of Portion E3-1, runoff from weighting plaza of NENT Landfill & natural stream near Wo Keng Shan & Shui Ngau Tso etc.. Hence, the project is a part of factor causing the high turbidity muddy water. To minimise the potential impact of construction runoff from the project, the further mitigation measures and enhancement of the temporary surface water drainage system were advised to implement by contractor. The related rectified actions had been conducted by the contractor.	14 Aug 2023

Complaint Ref. No.	Date of Complaint Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
C005_20230818	18 Aug 2023	EPD-RNG	ET	Water Quality	18 Sep 2023	It was noted from EPD-RNG's email to the ET on 18 August 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD) on 14 August 2023. In summary of the investigation, the complaint is project related. It viewed that muddy water arising from wheel washing water from the site entrance at Portion E4 & Runoff from Existing Channel near Portion E3-1 & discharge water from the silt removal facilities at Portion E3-1 eventually flows into the box culvert under Wo Keng Shan Road, WM2 and ultimately to GR3. The related rectified actions had been conducted by the contractor.	13 October 2023
C006_20230914	14 Sep 2023	EPD-RNG	ET	Water Quality	18 Sep 2023	It was noted from EPD-RNG's email to the ET on 14 September 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD) on 11 September 2023. In summary of the investigation, the complaint is project related. It viewed that muddy water arising from wheel washing water from the site entrance at Portion E4 & Runoff from Existing Channel near Portion E3-1 & discharge water from the silt removal facilities at Portion E3-1 eventually flows into the box culvert under Wo Keng Shan Road, WM2 and ultimately to GR3. The related rectified actions had been conducted by the contractor.	13 October 2023
C007_20240509	9 May 2024	EPD-RNG	ET	Water Quality	13 May 2024	It was noted from EPD-RNG's email to the ET on 9 May 2024 that EPD receipted a memo from DSD/Mainland North regarding the incident of muddy water observed in Ping Yuen River, at the downstream of NENTX, on 23 April 2024. In summary of the investigation, the muddy water at the complaint location involved multi-potential sources (including the construction runoff of the project and runoff from existing landfill) based on the distance between the outlet of the project discharge point and the complaint location (distance around 1.16 km). The mitigation measures are recommended and reminded to implement and review by the contractor.	16 July 2024
C008_20241128	28 Nov 2024	EPD-RNG	ET	Water Quality	2 & 5 Dec 2024	It was noted from EPD-RNG's email to the ET on 28 November 2024 regarding the incident of muddy water observed in Ping Yuen River, at the downstream of NENTX, on 13 November 2024. Based on the surface water monitoring results, construction activities & related mitigation measures, weather record, environmental mitigation implementation status, joint weekly site inspections on 11, 18 November & 2 December 2024, additional site investigation / audit on 5 December 2024, the muddy water at the complaint location involved multi-potential sources (including the construction runoff of the	9 April 2025

Remarks:

1. "ET" equal to "Environmental Team"
2. "EPD-RNG" equal to "Environmental Protection Department-Regional Office (North)"
3. "TBC" equal to "To Be Confirm"

project and runoff from existing landfill). While the major source of causing high turbidity level should be Surface runoff from Wo Keng Shan Road between Northing (m): 844604, Easting (m): 835332 and the entrance of Shek Tsai Ha Road in accordance with the actual observation on 13 November 2024 & Surface Runoff from Drainage System of NENT Landfill. The muddy water from drainage system including stormwater channels and drains collected the runoff from rainfall and runoff from dust control measures of existing landfill increase the concentration of runoff at Ping Yuen River.

Due to rainfall occurs on 13 November 2024, the severe weather increased the risk of landslips, finally increasing the concentration of suspended solids for surface runoff. Most rivers/streams/channels were affected by high amount of rainfall. Hence, the water quality of runoff at the complaint location would be affected by runoff from Wo Keng Shan, Shui Ngau Tso and other area between Surface WQM Location WM2 and the complaint location.

Although the silt removal facilities of the project were functionable normally under the investigation. The mitigation measures are recommended and reminded to implement and review by the contractor.

Environmental Enquiries Log

Enquiry Ref. No.	Date of Enquiry Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
E009_20250410	10 Apr 2025	EPD-RNG	ET	Water Quality	7 Apr 2025	It was noted from EPD-RNG's email to the ET on 10 April 2025 regarding the incident of muddy water observed in Ping Yuen River, at the downstream of NENTX, on 7 April 2025. In summary of the investigation, the major source of causing high turbidity level should be surface runoff from Wo Keng Shan road between Northing (m): 844604, Easting (m): 835332 and the entrance of Shek Tsai Ha Road & surface runoff from drainage system of NENT Landfill. The muddy water from drainage system including stormwater channels and drains collected the runoff from rainfall and runoff from dust control measures of existing landfill increase the concentration of runoff at Ping Yuen River. Hence, the enquiry is not project related.	14 Jun 2025

Remarks:

1. "ET" equal to "Environmental Team"
2. "EPD-RNG" equal to "Environmental Protection Department-Regional Office (North)"
3. "NA" equal to "Not Applicable"

Cumulative Statistics on Complaints

Aspects	Cumulative No. Brought Forward	No. of Complaints during reporting period	Cumulative Project-to-Date
Air Quality	1*	0	1*
Noise	0	0	0
Water Quality	7(1* & 1#)	0	7(1*)
Waste Management	0	0	0
Total	8(2* & 1#)	0	8(2*)

Remarks:

1. * Equal to non-project related
2. # Equal to the complaint under the investigation.

Prepared by:

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Supplementary Information

Portion A - Temporary Drainage updated on 31 Oct 2024

+70mPD Piling Area - Surface Run-off to be directed to temporary surface channel with 1 no of 3" pump to cut-off drain at +65mPD

+65mPD Platform with sloping ground surface to have surface run-off failing to the proposed cut-off temporary drainage

CATCHMENT AREA: +63.9mPD 8397m²

CATCHMENT AREA: +52mPD 5807m²

Intermediate tank for pumping water to treatment facility

Silt Fence (completed)

Permanent Retaining Wall

Wastewater treatment (discharge to existing c according to approved after treatment)

1no x3" surface pump connect with blue hose to pump the water to intermediate tank

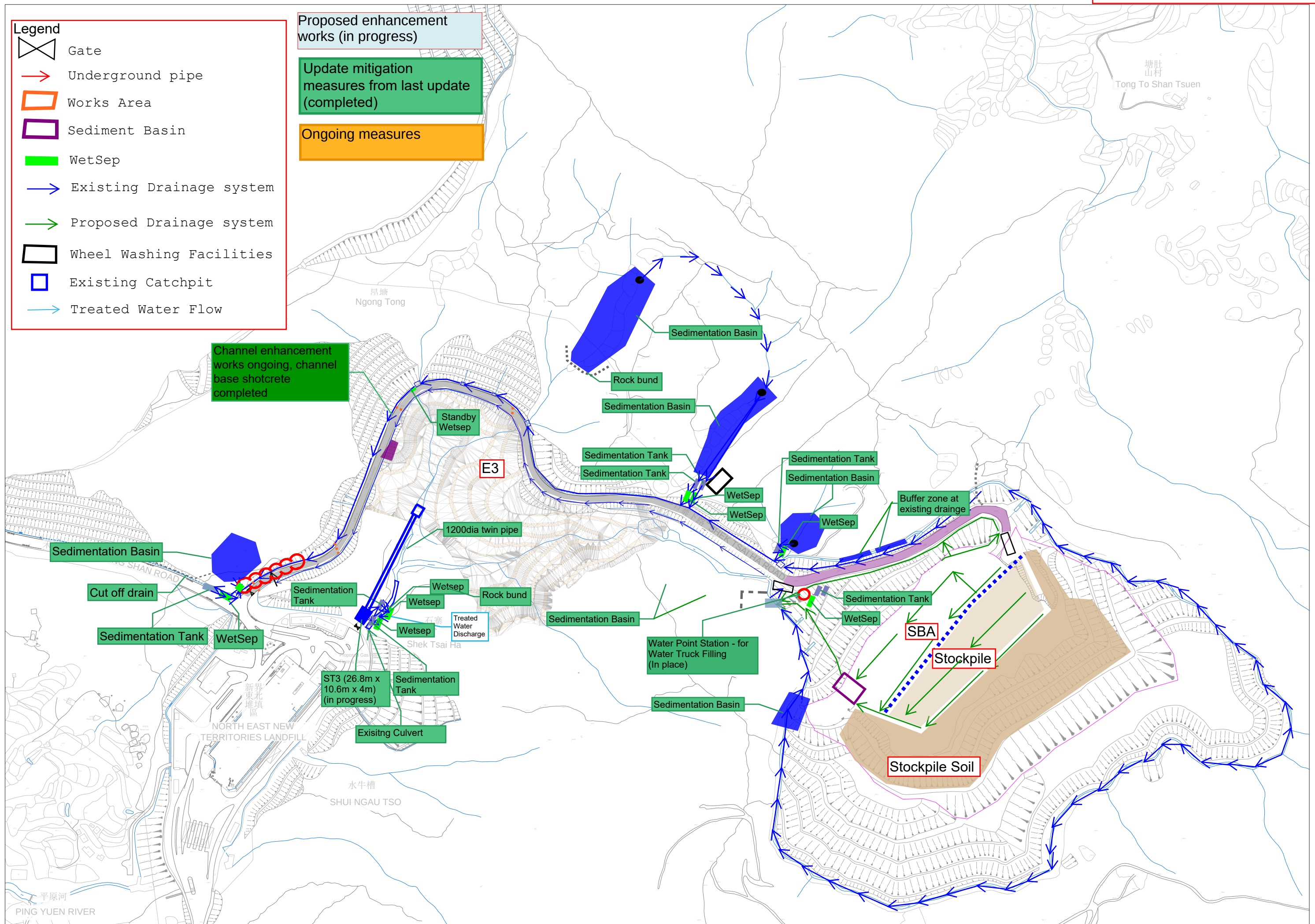
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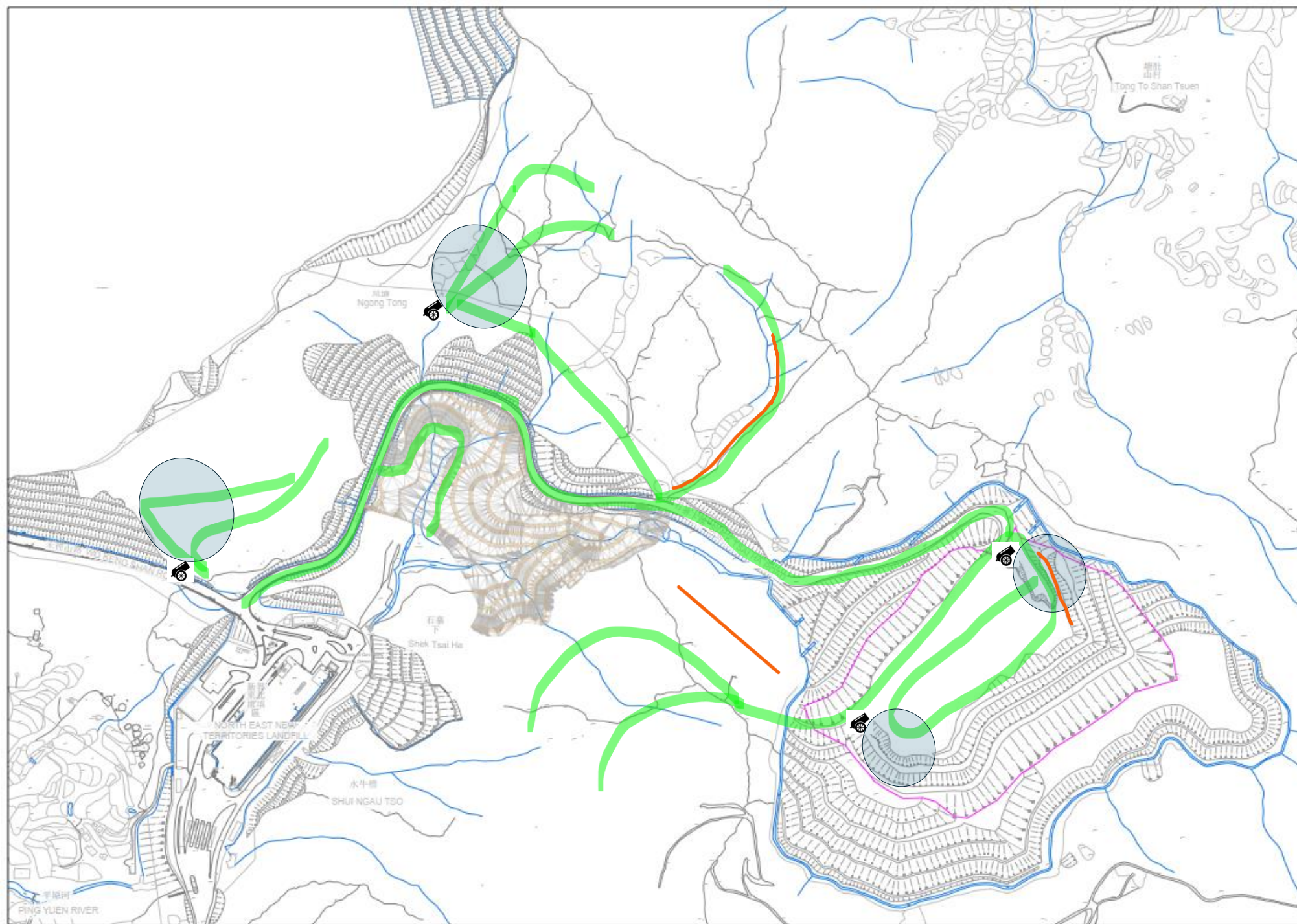
- ALL DIMENSIONS ARE IN MM UNLESS STATED OTHERWISE.
- ALL LEVELS REFER TO HONG KONG PRINCIPAL DATUM (MPD) UNLESS STATED OTHERWISE.
- ALL ALIGNMENTS OF THE EXISTING DRAINAGE SYSTEM AS SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. THE EXACT LEVEL AND LOCATION OF EXISTING DRAINAGE SYSTEM SHALL BE DETERMINED BY THE CONTRACTOR ON SITE AND AGREED BY THE ENGINEER/ARCHITECT.
- THE LOCATION OF THE PROPOSED CATCHPIT MANHOLES AND ALIGNMENTS SHOWN ON DRAWINGS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS AND ALIGNMENTS AND MANHOLES ARE TO BE DETERMINED ON SITE BY THE ENGINEER / ARCHITECT. THE ORIENTATION OF PIPES AND MANHOLES, THE NUMBER OF CONNECTING PIPES ARE INDICATIVE ONLY AND SHAHL BE DETERMINED AND AGREED WITH ENGINEER / ARCHITECT ON SITE.
- SHOTCRETE SOIL PROTECTION SHALL BE PROVIDED TO PREVENT SOIL EROSION.
- SLOPE STABILITY SHALL BE UNDER SEPARATE SUBMISSION.
- UC SHALL BE TRAPEZOIDAL CHANNEL.
- FOR SUMP PIT DETAILS, REFER TO CEDD STANDARD DRAWING NO. C 2406. THE SAND TRAP SHALL BE PROVIDED TO THE SUMP PIT.
- FOR CATCHPIT DETAILS, REFER TO CEDD STANDARD DRAWING NO. C 2405.
- FOR DETAILS OF uPVC PIPE SHALL FOLLOW THE MANUFACTURER CATALOG.
- FOR PIPE BEDDING, REFER TO DSD STANDARD DRAWING NO. DS 1049B.
- TEMP. BUND SHALL BE FORMED BY SANDBAGS OR EXCAVATED FILL / ROCK WITH 50mm HEIGHT OR EQUIVALENT TO INTERCEPT SURFACE RUNOFF.
- CHANNEL GRADIENTS AS INDICATED ARE THE MINIMUM VALUES ONLY.

1. ALL DIMENSIONS ARE IN MM UNLESS STATED OTHERWISE.
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Drawing No.	R
NENTX-ATKI-DW-C-A-182	

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Water truck route
(along haul road)

Sprinkler

Mist Cannon



Updated in Jun 2025

Portion A - Dust Control Layout Plan 6 June 2025 (Rev.6)

NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS STATED OTHERWISE.
2. ALL LEVELS REFER TO HONG KONG PRINCIPAL DATUM (MPD) UNLESS STATED OTHERWISE.
3. ALL ALIGNMENTS OF THE EXISTING DRAINAGE SYSTEM AS SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. THE EXACT LEVEL AND LOCATION OF EXISTING DRAINAGE SYSTEM SHALL BE DETERMINED BY THE CONTRACTOR ON SITE AND AGREED BY THE ENGINEER/ARCHITECT.
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- 13.CHANNEL GRADIENTS AS INDICATED ARE THE MINIMUM VALUES ONLY.

ENVIRONMENTAL PROTECTION DEPARTMENT

SIGNED: _____
FOR ENVIRONMENTAL PROTECTION DEPARTMENT

DATE: _____

MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD
VERIFICATION BY INDEPENDENT CONSULTANTS

SIGNED: _____
FOR MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD

DATE: _____

LEGEND

- Sprinkler alignment
- Wheel washing area
- Water truck routing
- Hard paved area
- Hydroseeded / Covered area
- Wastewater routing

I 03	THIRD SUBMISSION ISSUED	JT	JAN 2023	DSJS
I 02	SECOND SUBMISSION ISSUED	CC	NOV 2022	DSJS
I 01	FIRST SUBMISSION ISSUED	CC	JUN 2022	DSJS
Rev.	Description	By	Date	Approved

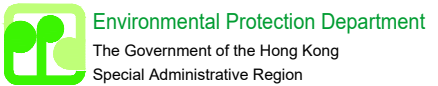
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE.

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Drawn	JT	Check	TL
Design	TL	Approved	DSJS
Date	19 JAN 2023	Scale	1:500 @ A3

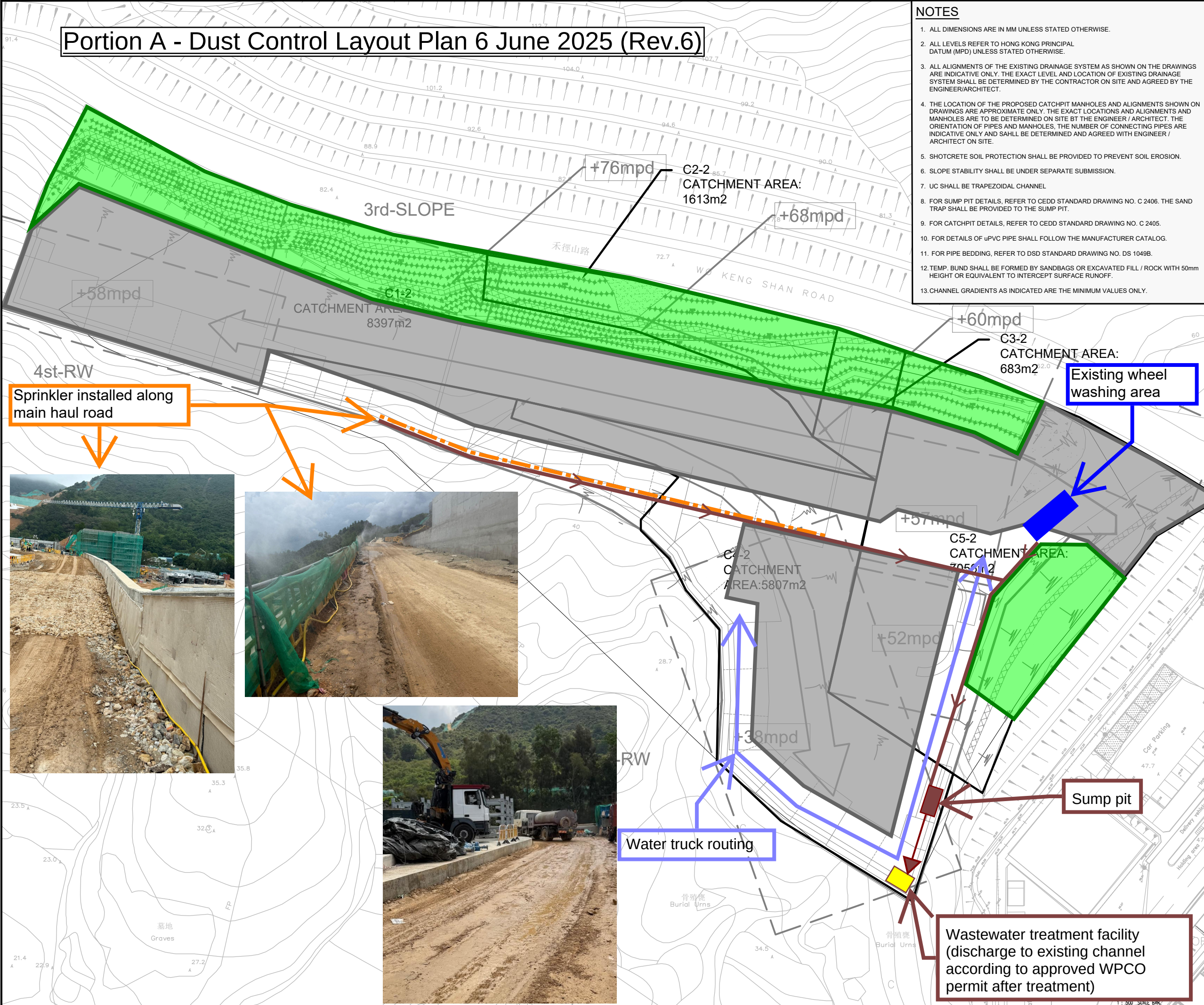
Contract

CONTRACT EP/SP/77/15
NORTH EAST NEW TERRITORIES
LANDFILL EXTENSION (NENTX)



Drawing Title

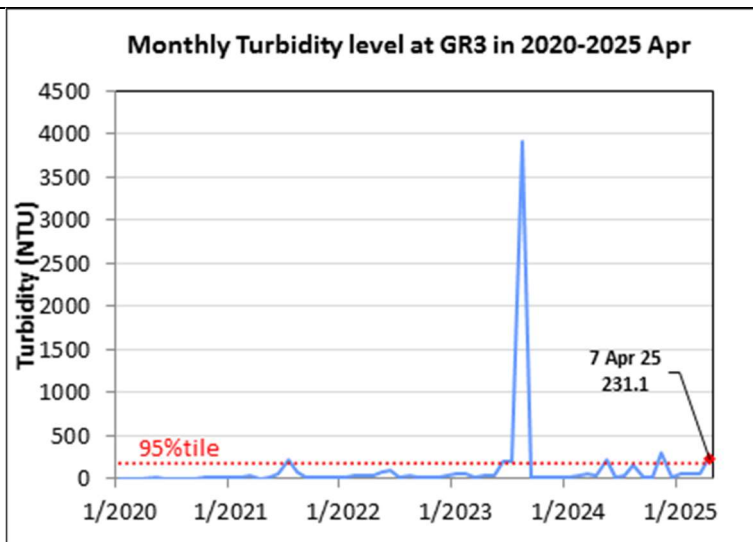
Portion A
Dust Control Layout Plan



Maps Reproduced with Permission of the Director of Lands C Hong Kong Government

Environmental Complaint/ Enquiry Form

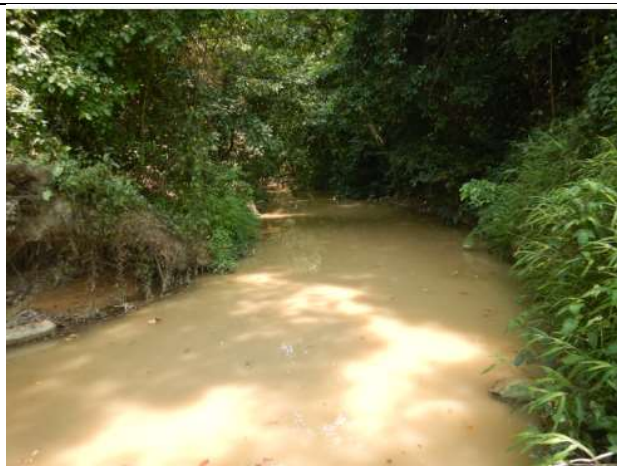
Complaint/ Enquiry Received																													
Date:	10 April 2025																												
Time:	16:36																												
From	EPD-RNG																												
Via:	Email																												
Complainant/ Enquirer*:																													
Name:	Undisclosed																												
Tel.:	Undisclosed																												
Address:	Undisclosed																												
E-mail:	Undisclosed																												
Complaint/ Enquiry*:																													
Date of complaint/ enquiry:	7 April 2025																												
Time of complaint/ enquiry:	12:47																												
Aspect:	Dust / Noise / Water / Other*																												
1. Description																													
1.1 Environmental Team received an email from EPD-RNG on 10 April 2025 regarding the incident of muddy water observed in Ping Yuen River, at the downstream of NENTX, on 7 April 2025. The routine river monitoring trip to North District on 7 April 2025 revealed high turbidity levels at GR3 of River Ganges (i.e. 231.1 NTU) which are higher than the 95%tile of ten-year baseline for turbidity at 171.2 NTU respectively. The details of monitoring results are presented in Table 1-1. Table 1-1 Details of Monitoring Results <table border="1"> <tr> <td>Monitoring Location</td> <td>GR3</td> </tr> <tr> <td>Date</td> <td>7 Apr 2025</td> </tr> <tr> <td>Time</td> <td>12:47:16</td> </tr> <tr> <td>Weather</td> <td>Sunny</td> </tr> <tr> <td>Water / Smell</td> <td>Turbid / No Smell</td> </tr> <tr> <td>Temperature (°C)</td> <td>20.1</td> </tr> <tr> <td>ODO Concentration (mg/L)</td> <td>7.73</td> </tr> <tr> <td>ODO % (%)</td> <td>85.2</td> </tr> <tr> <td>Conductivity (µS/cm)</td> <td>325</td> </tr> <tr> <td>Salinity (ppt)</td> <td>0.17</td> </tr> <tr> <td>pH</td> <td>7.74</td> </tr> <tr> <td>Turbidity (NTU)</td> <td>231.1</td> </tr> <tr> <td>Faecal coliform count (cfu / 100mL)</td> <td>42,000</td> </tr> <tr> <td><i>E.coli</i> count (cfu / 100mL)</td> <td>5,300</td> </tr> </table> Source from EPD		Monitoring Location	GR3	Date	7 Apr 2025	Time	12:47:16	Weather	Sunny	Water / Smell	Turbid / No Smell	Temperature (°C)	20.1	ODO Concentration (mg/L)	7.73	ODO % (%)	85.2	Conductivity (µS/cm)	325	Salinity (ppt)	0.17	pH	7.74	Turbidity (NTU)	231.1	Faecal coliform count (cfu / 100mL)	42,000	<i>E.coli</i> count (cfu / 100mL)	5,300
Monitoring Location	GR3																												
Date	7 Apr 2025																												
Time	12:47:16																												
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Water / Smell	Turbid / No Smell																												
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Conductivity (µS/cm)	325																												
Salinity (ppt)	0.17																												
pH	7.74																												
Turbidity (NTU)	231.1																												
Faecal coliform count (cfu / 100mL)	42,000																												
<i>E.coli</i> count (cfu / 100mL)	5,300																												
1.2 The graphical presentation of the monthly turbidity level at GR3 from Jan 2020 to Apr 2025 is shown below.																													



Source from EPD

The rainfall in the catchment amounted to 10 – 20 mm for GR3 on the sampling day (7 April 2025) and the past 48 hours. The photo taken by EPD is shown in **Photos 1-1 to 1-3**.

Photo 1-1 EPD Monitoring Location GR3



Source from EPD

Photo 1-2 EPD Monitoring Location GR3



Source from EPD

Photo 1-3 Sample on 7 April 2025 at EPD Monitoring Location GR3



Source from EPD

- 1.3 The location of **Photo 1-1** & **Photo 1-2** are at the Ping Yuen River near the roundabout on Heung Yuen Wai Highway (Ping Yuen Tsuen). **Photo 1-3** presents the water sample on 7 April 2025 at EPD Monitoring Location GR3. The detailed layout, including the complaint location, Surface Water Monitoring Location WM2 and related natural stream is presented in **Figure 1**.

Investigation Results & Response:

IEC notified on: 10 April 2025

2. Surface Water Quality Monitoring (WQM) on 11 April 2025

- 2.1 The monthly surface water quality monitoring was conducted on 11 April 2025 at surface WQM location WM2. No exceedance was observed at WM2. The detailed layout of the surface WQM location WM2, including the related streams, and EPD monitoring location GR3 and Surface WQM location WM2 are presented in **Figure 1**. Details of monitoring results are shown in **Table 2.1**.

Table 2.1 Surface WQM Results on 11 April 2025

Monitoring Location			WM2
Date			11 April 2025
Time			08:28
Weather			Fine
Water Depth (m)			0.30
Water Flow (L/s)			0.0
Water Temperature (°C)			22.2
	Action Level	Limit Level	
DO (mg/L)	<5.0	<4.0	6.3
pH	>7.6	>7.7	7.0
Turbidity (NTU)	>108.3	>108.9	49.7
SS (mg/L)	>94.5	>94.7	55.0

3. Construction Activities & Related Mitigation Measures

- 3.1 According to the contractor's record, the construction activities, implementation of mitigation measures and use of machinery on 7 April 2025 were listed in **Table 3.1**.

Table 3.1 Construction Activities & Mitigation Measures on 7 April 2025

Construction Area	Construction Activities	Use of Machinery	Mitigation Measures
Portion A	1. Soil Nail 2. Construction of Retaining Wall 3. Backfilling	- Excavator - Drill Rig - Crane	- Silt Removal Facility (Wetsep) X 1
Portion B2/E1	1. Soil Nail 2. Excavation	- Excavator - Drill Rig	- Silt Removal Facility (Wetsep) X 2 - Sedimentation Basin X 1

Construction Area	Construction Activities	Use of Machinery	Mitigation Measures
Portion E3	1. Excavation 2. Liner Installation 3. Soil Nail 4. Construction of Retaining Wall	- Excavator - Drill Rig - Roller	- Silt Removal Facility (Wetsep) X 4 - Sedimentation Basin X 2
Portion E4	1. Excavation 2. Liner Installation 3. Soil Nail 4. Shotcreting	- Excavator - Drill Rig - Air Compressor	- Silt Removal Facility (Wetsep) X 4 - Sedimentation Basin X 3
Portion D	1. Construction of IOB, FSB and O/M Building	- Crane Lorry	- Silt Removal Facility (Wetsep) X 1

3.2 The Layout of construction activities implementation of mitigation measures and use of machinery on 7 April 2025 is presented in **Figure 2**.

Potential Source 1 – Surface runoff from Wo Keng Shan Road between Northing (m): 844604, Easting (m): 835332 and the entrance of Shek Tsai Ha Road

(Flow way: Stormwater Drains at Portion C → Existing Channel near Portion A → Surface WQM Location WM2 → EPD WQM Location GR3)

Potential Source 2 – Surface runoff from Wo Keng Shan Road between Northing (m): 844604, Easting (m): 835332 and Northing (m): 844521, Easting (m): 835628

(Flow way: Existing Channel near Portion A → Surface WQM Location WM2 → EPD WQM Location GR3)

Potential Source 3 – Surface Runoff from Drainage System of NENT Landfill

(Flow Way: Existing Channel near Portion C → Box Culvert Under Wo Keng Shan Road → Surface WQM Location WM2 → EPD WQM Location GR3)

3.3 Detailed photo records are presented in **Photos 3-1 to 3-14**. According to the Photo Record from the contractor on 5 April 2025, it reflected a high amount of surface runoff from Wo Keng Shan Road between Northing (m): 844604, Easting (m): 835332 and the entrance of Shek Tsai Ha Road (Potential Source 1) & surface runoff from Wo Keng Shan Road between Northing (m): 844604, Easting (m): 835332 and Northing (m): 844521, Easting (m): 835628 (Potential Source 2) flowed into the low elevation of Wo Keng Shan Road near Portion C (See **Photo 3-1**) that day. The relevant surface runoff collected by the stormwater channels and drains along the Wo Keng Shan Road flowed into the Box Culvert under Wo Keng Shan Road and Branch of the Existing Channel near Portion A final to the WQM Location WM2 & the EPD WQM Location GR3. Hence, the relevant surface runoff would directly affect the water quality downstream of the Ping Yuen River during rainstorms.

3.4 **Photo 3-2** showed that the colour of surface runoff at the Branch of the Existing Channel near Portion A appeared brown colour on that day. **Photo 3-3** showed that the colour of surface runoff at the river confluence position between the Box Culvert under Wo Keng Shan

Road and the Branch of the Existing Channel near Portion A appeared brown colour on that day.

3.5 The location of photo record is presented in **Figure 3**.

Photo 3-1 Wo Keng Shan Road Between Northing (m): 844604, Easting (m): 835332 and the entrance of Shek Tsai Ha Road



Provided by Contractor

Photo 3-2 Branch of Existing Channel near Portion A



Provided by Contractor

Photo 3-3 River confluence position between the Box Culvert under Wo Keng Shan Road and Branch of Existing Channel near Portion A



Provided by Contractor

3.6 The removal of deposited silt and grit from the existing catchpit and the maintenance of sedimentation basin and silt removal facilities were conducted by the contractor when before the rainstorm. **Photos 3-4 to 3-13** showed no overflow of the sedimentation basins, tanks and clear discharged water discharged into the designated point from 5 to 7 April 2025.

3.7 The location of photo record is presented in **Figure 3**.

Photo 3-4 Sedimentation Basin at Portion B2/E1



Provided by Contractor

Photo 3-5 Discharge point of Silt Removal Facility at Portion B2/E1



Provided by Contractor

Photo 3-6 Discharge point of Silt Removal Facilities at Portion E3



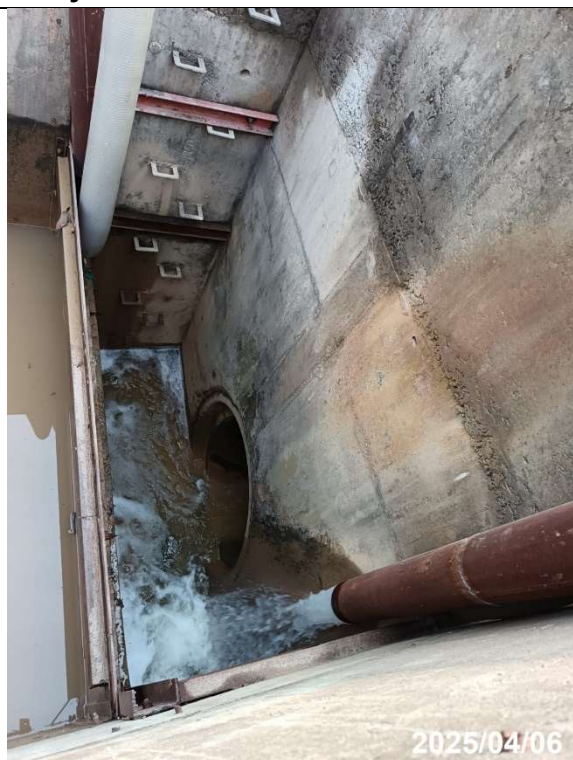
Provided by Contractor

Photo 3-7 Sedimentation Basin at Portion B2/E1



Provided by Contractor

Photo 3-8 Discharge point of Silt Removal Facility at Portion B2/E1



Provided by Contractor

Photo 3-9 Sedimentation Basin & Tanks at Portion E3



Provided by Contractor

Photo 3-10 Discharge point of Silt Removal Facility at Portion E3



Provided by Contractor

Photo 3-11 Sedimentation Basin at Portion B2/E1



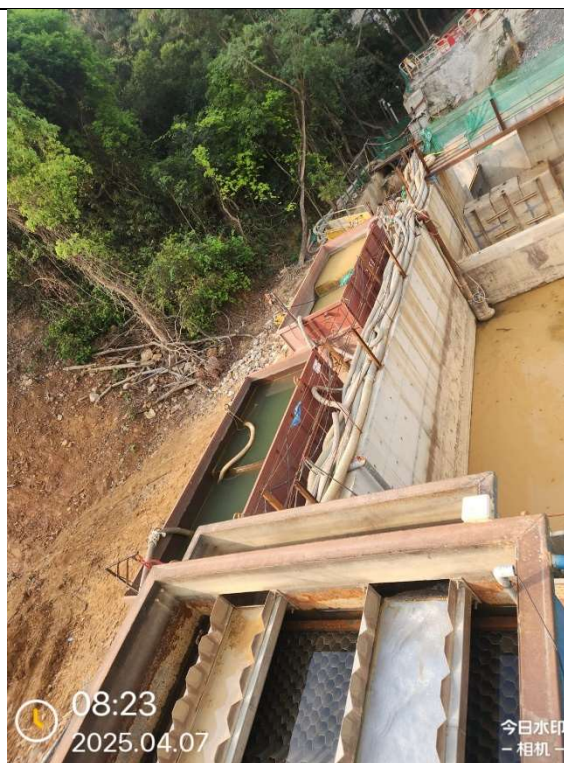
Provided by Contractor

Photo 3-12 Discharge point of Silt Removal Facility at Portion B2/E1



Provided by Contractor

Photo 3-13 Sedimentation Basin & Tanks at Portion E3



Provided by Contractor

Photo 3-14 Discharge point of Silt Removal Facility at Portion E3



Provided by Contractor

3.8 **Photos 3-15 to 3-16** showed that the colour of surface runoff at the Branch of the Existing Channel near Portion A & the river confluence position between the Box Culvert under Wo Keng Shan Road and the Branch of the Existing Channel near Portion A appeared brown colour on 7 April 2025.

3.9 The location of photo record is presented in **Figure 3**.

Photo 3-15 Branch of Existing Channel near Portion A



Provided by Contractor

Photo 3-16 River confluence position between the Box Culvert under Wo Keng Shan Road and Branch of Existing Channel near Portion A



Provided by Contractor

4. Rainfall Record from Hong Kong Observatory (HKO) Automatic Weather Station

- 4.1 According to the HKO's rainfall record (Hong Kong Observatory Automatic Weather Station – North District), the hourly rainfall recorded on 5 April 2025 is listed in **Table 4.1**.

Table 4.1 Hourly Rainfall Record at HKO Weather Station – North District

Date	Time Period	Rainfall (mm)
5 Apr 2025	03:00 to 04:00	0 to 1
	04:00 to 05:00	0 to 1
	05:00 to 06:00	1 to 2
	06:00 to 07:00	0 to 3
	07:00 to 08:00	0 to 1
	08:00 to 09:00	0 to 1
	09:00 to 10:00	0 to 1
	10:00 to 11:00	1 to 2
	11:00 to 12:00	0 to 2
	12:00 to 13:00	0 to 1

Remarks: "**Bold text**" means rainfall record equal or more than 20 mm.

- 4.2 According to the hourly rainfall records, no rainfall was recorded from 5 April 2025 13:00 to 7 April 2025. It was observed that there were some amounts of rainfall affecting the water quality of Ping Yuen River on 5 April 2025. The rainfall from 03:00 to 13:00 increases the risk of landslides and subsequently raises the concentration of suspended solids in surface runoff. The Daily Rainfall Distributions from HKO are shown in **Appendix A**.
- 4.3 The Surface WQM Location WM2 & EPD WQM Location GR3 are situated at the outfall of the box culvert, which collects the treated construction runoff of the project, surface runoff from Wo Keng Shan Road, the natural streams surrounding and flowing into the site.

5. Environmental Mitigation Implementation Status

5.1 Temporary Surface Water Drainage System (TSWDS)

- 5.1.1 Based on the Contractor's TSWDS (Received by ET on 23 April 2025), the TSWDS were implemented and kept enhancing by the contractor. The details of TSWDS (Received by ET on 23 April 2025) are presented in **Appendix B**.

5.2 Hydroseeding & Slope Surface Protection

- 5.2.1 The Contractor has conducted the hydroseeding & slope surface protection in the exposed earth and slopes. According to the layout of hydroseeding & slope surface protection, it resulted that 77.5% (221,524 m²) of the project area had been protected by the mitigation measures for exposed earth and slopes. The layout of the project area is presented in **Appendix C**.

6. Joint Weekly Site Inspection on 7 April 2025

- 6.1 A joint weekly site inspection was carried out with ER, IC, Contractor and ET on 7 April 2025. No construction runoff flowed into Ping Yuen River directly were found during the weekly site inspection. The detailed photo records are presented in **Photos 6-1 to 6-3**. **Photo 6-1** showed the low elevation of site boundary of Portion A are fully surrounded by the retaining wall. The retaining wall can avoid the untreated construction runoff did not flow outside site boundary. **Photos 6-2 and 6-3** viewed that there was no construction runoff from the NENTX project flowed into the Wo Keng Shan Road between Northing (m): 844604, Easting (m):

835332 and the entrance of Shek Tsai Ha Road. In conclusion, no deficiency regarding the control of construction runoff was observed during the weekly site inspection.

Photo 6-1 Site boundary of Portion A



Taken by ET

Photo 6-2 Wo Keng Shan Road between Northing (m): 844604, Easting (m): 835332 and the entrance of Shek Tsai Ha Road



Taken by ET

Photo 6-3 Wo Keng Shan Road between Northing (m): 844604, Easting (m): 835332 and the entrance of Shek Tsai Ha Road



Taken by ET

7. Past Investigation Record

7.1 According to the past investigation record, the other potential sources would affect the water quality at the downstream of the Ping Yuen River during rainstorms. The details of other potential sources are listed below:

1. Under Heavy Rain: Potential Source 4 – Runoff from NENT Landfill Carpark, Water Tank & another stormwater channels
(Flow way: Existing Channel near Portion A → Surface WQM Location WM2 → EPD WQM Location GR3)
2. Under Heavy Rain: Potential Source 5 – Outlet of stormwater drain (runoff from stormwater drain along Wo Keng Shan Road near the entrance of NENT Landfill.)
(Flow way: Existing Channel near Portion A → Surface WQM Location WM2 → EPD WQM Location GR3))

3. Under Heavy Rain: Potential Source 6 – Branch of Stormwater Drain near the Boundary of NENT Landfill
(Flow Way: Existing Channel near Portion C → Box Culvert Under Wo Keng Shan Road → Surface WQM Location WM2 → EPD WQM Location GR3)
4. Under Heavy Rain: Potential Source 7 – Branch of Stormwater Drain near the Outside Boundary of NENT Landfill (Mainly collect the runoff from Shui Ngau Tso)
(Flow Way: Existing Channel near Portion C → Box Culvert Under Wo Keng Shan Road → Surface WQM Location WM2 → EPD WQM Location GR3)
5. Potential Source 8 – Outlet of the Box Culvert under Portion C (Runoff from Natural Stream at Shui Ngau Tso)
(Flow Way: Existing Channel near Portion C → Box Culvert Under Wo Keng Shan Road → Surface WQM Location WM2 → EPD WQM Location GR3)
6. Under Heavy Rain: Potential Source 9 – Branch of the Natural Stream from Wo Keng Shan
(Flow Way: Existing Channel near Portion C → Box Culvert Under Wo Keng Shan Road → Surface WQM Location WM2 → EPD WQM Location GR3)
7. Potential Source 10 – Treated runoff from the Project
(Flow Way: Existing Channel near Portion C → Box Culvert Under Wo Keng Shan Road → Surface WQM Location WM2 → EPD WQM Location GR3)

7.2 The location of the potential sources are presented in **Figure 3**.

8. Conclusion

8.1 Based on the surface water monitoring results, construction activities & related mitigation measures, weather record, environmental mitigation implementation status, joint weekly site inspections on 7 April 2025 and the past investigation record, the potential sources of impact are listed below:

1. Potential Source 1 – Surface runoff from Wo Keng Shan Road between Northing (m): 844604, Easting (m): 835332 and the entrance of Shek Tsai Ha Road
(Flow way: Stormwater Drains at Portion C → Existing Channel near Portion A → Surface WQM Location WM2 → EPD WQM Location GR3)
2. Potential Source 2 – Surface runoff from Wo Keng Shan Road between Northing (m): 844604, Easting (m): 835332 and Northing (m): 844521, Easting (m): 835628
(Flow way: Existing Channel near Portion A → Surface WQM Location WM2 → EPD WQM Location GR3)
3. Potential Source 3 – Surface Runoff from Drainage System of NENT Landfill
(Flow Way: Existing Channel near Portion C → Box Culvert Under Wo Keng Shan Road → Surface WQM Location WM2 → EPD WQM Location GR3)
4. Under Heavy Rain: Potential Source 4 – Runoff from NENT Landfill Carpark, Water Tank & another stormwater channels

(Flow way: Existing Channel near Portion A → Surface WQM Location WM2 → EPD WQM Location GR3)

5. Under Heavy Rain: Potential Source 5 – Outlet of stormwater drain (runoff from stormwater drain along Wo Keng Shan Road near the entrance of NENT Landfill.)

(Flow way: Existing Channel near Portion A → Surface WQM Location WM2 → EPD WQM Location GR3))

6. Under Heavy Rain: Potential Source 6 – Branch of Stormwater Drain near the Boundary of NENT Landfill

(Flow Way: Existing Channel near Portion C → Box Culvert Under Wo Keng Shan Road → Surface WQM Location WM2 → EPD WQM Location GR3)

7. Under Heavy Rain: Potential Source 7 – Branch of Stormwater Drain near the Outside Boundary of NENT Landfill (Mainly collect the runoff from Shui Ngau Tso)

(Flow Way: Existing Channel near Portion C → Box Culvert Under Wo Keng Shan Road → Surface WQM Location WM2 → EPD WQM Location GR3)

8. Potential Source 8 – Outlet of the Box Culvert under Portion C (Runoff from Natural Stream at Shui Ngau Tso)

(Flow Way: Existing Channel near Portion C → Box Culvert Under Wo Keng Shan Road → Surface WQM Location WM2 → EPD WQM Location GR3)

9. Under Heavy Rain: Potential Source 9 – Branch of the Natural Stream from Wo Keng Shan

(Flow Way: Existing Channel near Portion C → Box Culvert Under Wo Keng Shan Road → Surface WQM Location WM2 → EPD WQM Location GR3)

10. Potential Source 10 – Treated runoff from the Project

(Flow Way: Existing Channel near Portion C → Box Culvert Under Wo Keng Shan Road → Surface WQM Location WM2 → EPD WQM Location GR3)

8.2 In summary of the investigation, the major source of causing high turbidity level should be Potential Source 1 – Surface runoff from Wo Keng Shan Road between Northing (m): 844604, Easting (m): 835332 and the entrance of Shek Tsai Ha Road in accordance with the actual observation on 5 April 2025 & Potential Source 2 – Surface Runoff from Drainage System of NENT Landfill (See **Photos 3-1 to 3-3**). The muddy water from drainage system including stormwater channels and drains collected the runoff from rainfall and runoff from dust control measures of existing landfill increase the concentration of runoff at Ping Yuen River. Hence, the 2 potential sources causing high turbidity level are not project-related.

8.3 Although the silt removal facilities of the project were functionable normally under the investigation. The Contractor should enhance checking and maintained the mitigation measures regularly to avoid minimising the effectiveness of related mitigation measures. And the maintenance of slope surface protection should be conducted regularly.

9. Recommendations/ Mitigation Measures/ Actions if necessary

9.1 To avoid the potential impact of construction runoff from the project, some mitigation measures are recommended & reminded to implemented & review by the contractor. The detail mitigation measures are listed below:

1. The Contractor has been reminded that the precautions should be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms area in accordance with Appendix A2 of ProPECC PN2/24, which states that the retention time for silts and sediments traps should be 5 minutes under maximum flow conditions.
2. The Contractor has been reminded to review the capacity of silt removal facilities and sedimentation basins enough to handle the construction runoff under heavy rain to avoid the construction runoff discharge into the existing channel.
3. The Contractor has been reminded follow the requirements of EP and FEP conditions strictly, in particular condition 1.7 of EP & FEP, EP condition 2.15 (a) and (b) and FEP condition 2.13(a) and (b), to avoid any non-compliance of EP and FEP.

9.2 Also, the contractor has been reminded to maintain and supervise continuously related mitigation measures at the south boundary to ensure the effectiveness of the related measures, especially if the rainstorm is imminent or forecast, during or after rainstorms & to implement the mitigation measures such as the provision of the temporary surface water drainage system to manage runoff, hydroseeding to minimise slope surface runoff and other measures specified and required in the EIA Report, the EM&A Manual and the EP/FEP.

Prepared by : Jason Man

Date : 09 May 2025

Reviewed by : Fredrick Leong

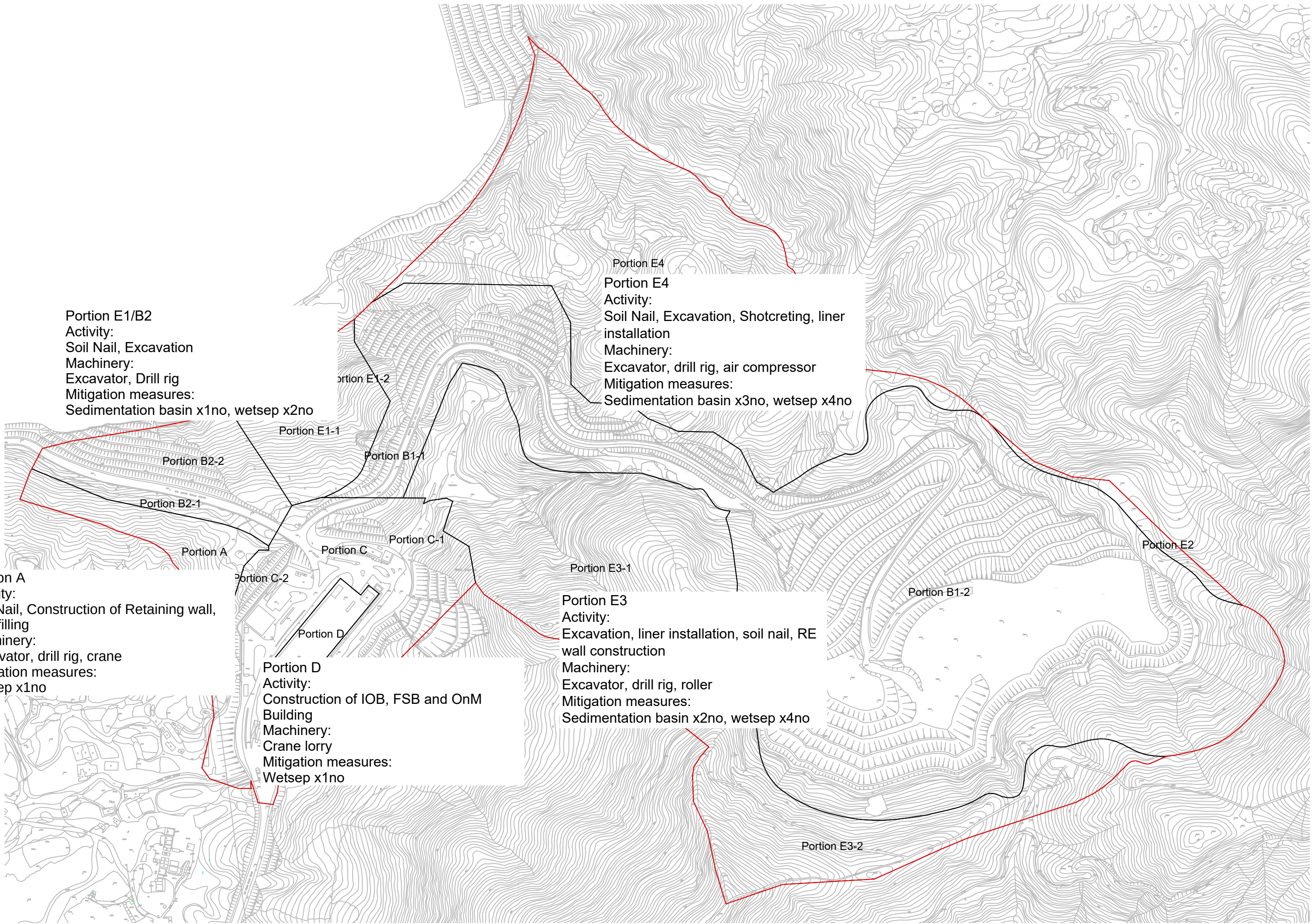
Date : 09 May 2025

Figure 1

Layout Plan of Environmental Complaint on 10 April 2025

Figure 2

Layout Plan of Construction Activities on 7 April 2025



Portion E1/B2
Activity:
Soil Nail, Excavation
Machinery:
Excavator, Drill rig
Mitigation measures:
Sedimentation basin x1no, wetsep x2no

Portion E4
Portion E4
Activity:
Soil Nail, Excavation, Shotcreting, liner
installation
Machinery:
Excavator, drill rig, air compressor
Mitigation measures:
Sedimentation basin x3no, wetsep x4no

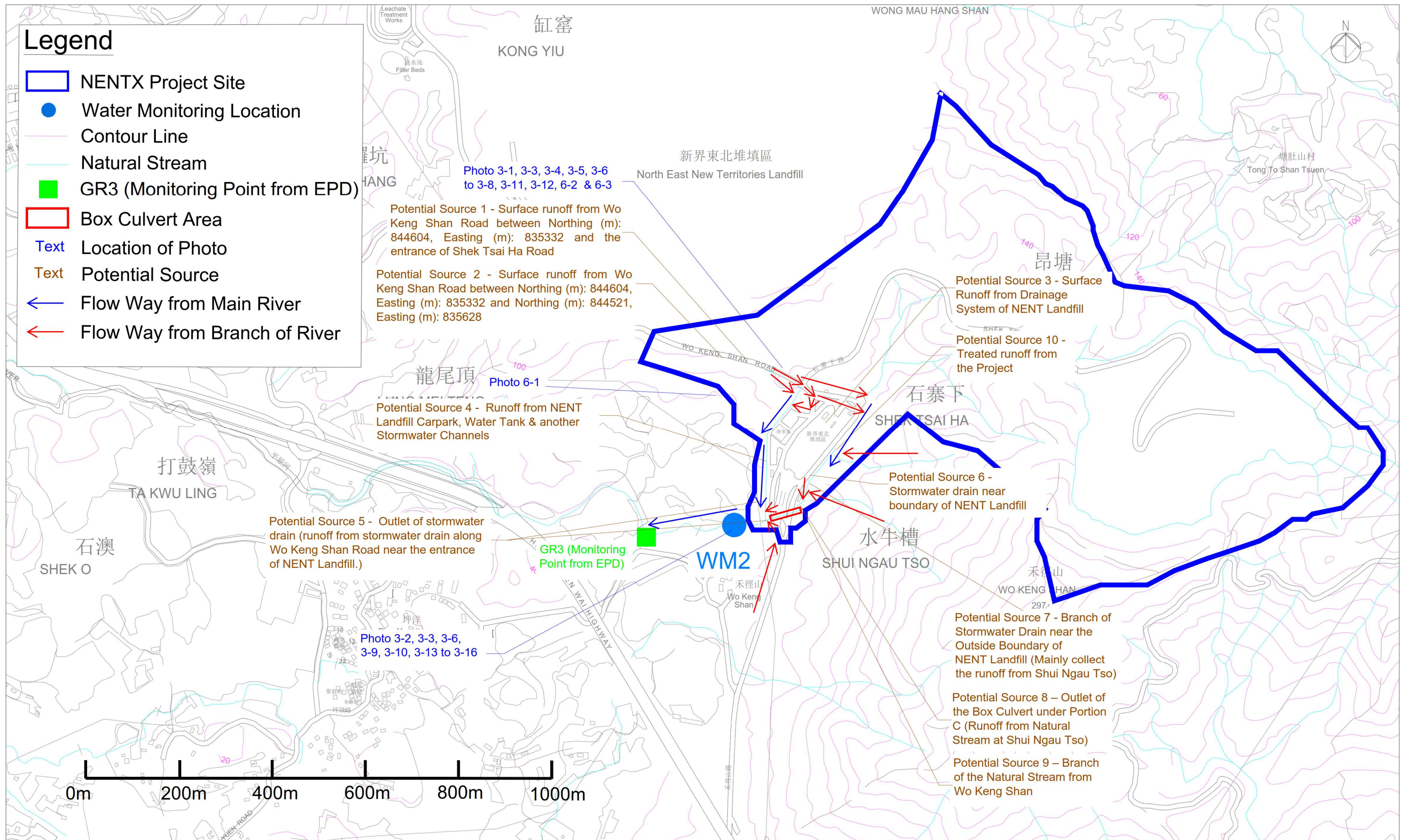
Portion A
Activity:
Soil Nail, Construction of Retaining wall,
backfilling
Machinery:
Excavator, drill rig, crane
Mitigation measures:
wetsep x1no

Portion D
Activity:
Construction of IOB, FSB and OnM
Building
Machinery:
Crane lorry
Mitigation measures:
Wetsep x1no

Portion E3
Activity:
Excavation, liner installation, soil nail, RE
wall construction
Machinery:
Excavator, drill rig, roller
Mitigation measures:
Sedimentation basin x2no, wetsep x4no

Figure 3

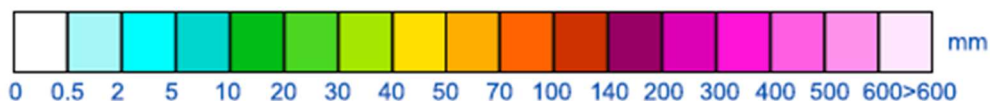
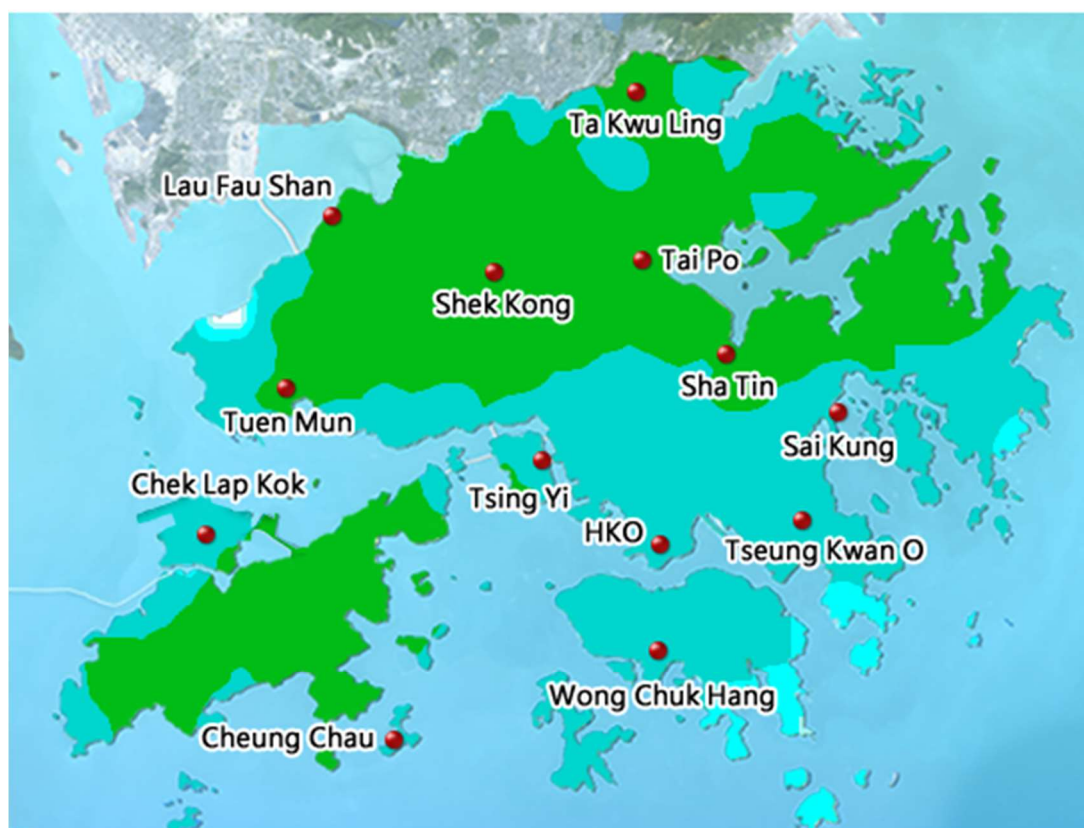
Layout Plan for Location of Photo Record and Potential Sources



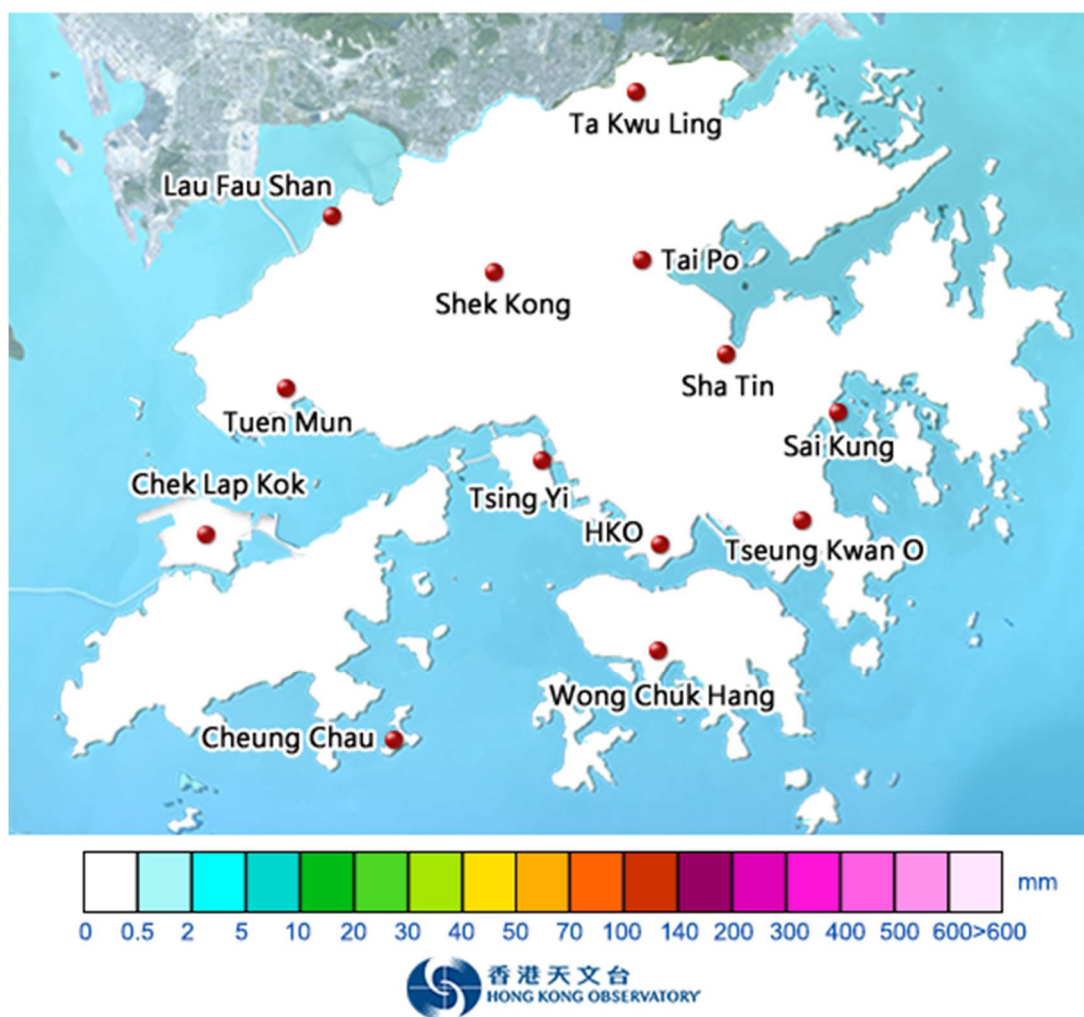
Appendix A

Daily Rainfall Distribution from HKO

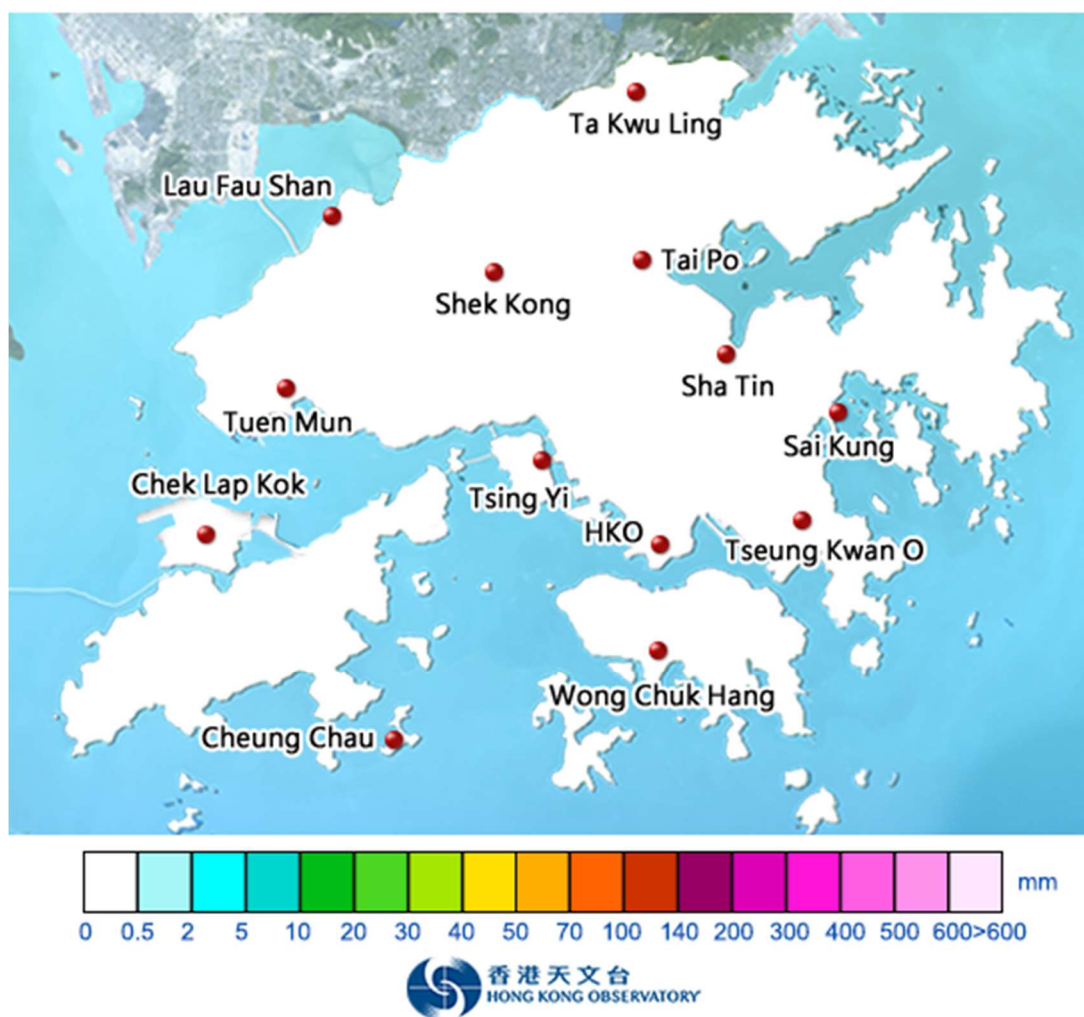
Total rainfall on 5-Apr-2025 (based on raingauges and radar data)



Total rainfall on 6-Apr-2025 (based on raingauges and radar data)

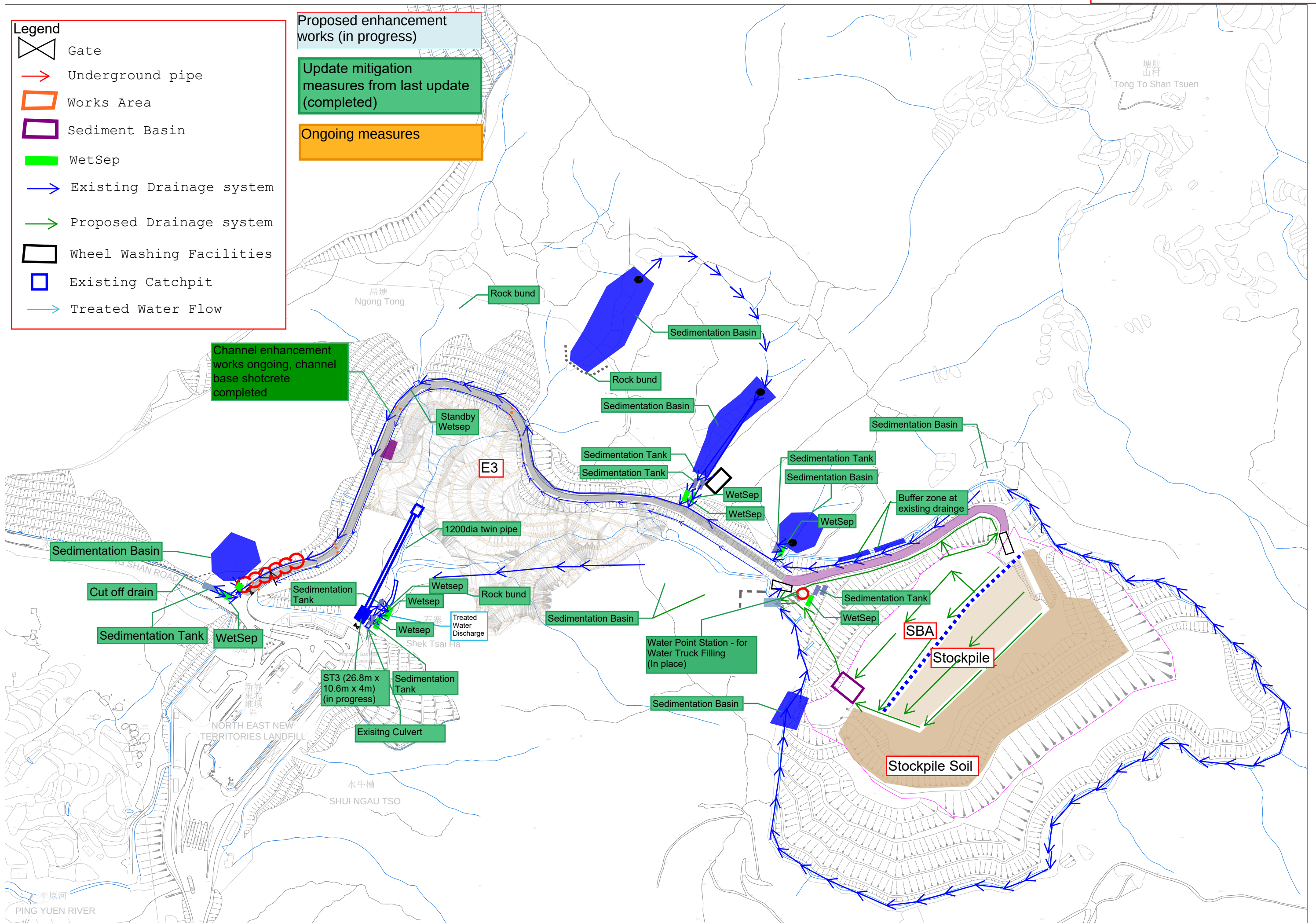


Total rainfall on 7-Apr-2025 (based on raingauges and radar data)



Appendix B

Temporary Surface Water Drainage System (TSWDS)



Appendix C

Layout of Protected Area

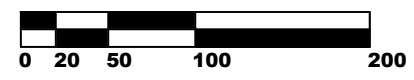


221,524m ²	Protected area	108,512m ²	Access Road
64,382m ²	Unprotected area	751,408m ²	Whole site
94,452m ²	Working area		

Total disturbed area:
Protected area 221,524m² + Unprotected area 64,382m²
+ Working area 94,452m² + Access road 108,512m²
=488,870m²

% of protected area:
$$\frac{\text{Protected area } 221,524\text{m}^2}{\text{Protected area } 221,524\text{m}^2 + \text{Unprotected area } 64,382\text{m}^2} = 77.5\%$$

Site Boundary



PART III Temporary Surface Water Drainage System

TSWDS at Portion A	TSWDS at Portion B1-1
	
Silt Removal Facilities at Portion E4	
	

PART III Temporary Surface Water Drainage System

Retaining Wall at Portion A	Retaining Wall at Portion A
	
Sedimentation Basin at Portion E3-1	Retaining Wall at Portion E3-1
	

PART III Temporary Surface Water Drainage System

Retaining Wall at Portion A	Retaining Wall at Portion A
	
Retaining Wall at Portion A	TSWDS at Portion B1-1
	
TSWDS at Portion E3-1	
	

PART III Temporary Surface Water Drainage System

Retaining Wall at Portion A	Retaining Wall at Portion A
	
Retaining Wall at Portion A	TSWDS at Portion B1-1
	