Agreement No. CE 20/2004(EP) North East New Territories (NENT) Landfill Extension

Monthly Environmental Monitoring and Audit Report (No. 21) – August 2024

2024-09-12

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Our Ref.: CL/91823/1641-VES
Date: 12 September 2024

By Email

Veolia Hong Kong Holding Limited
40/F, One Taikoo Place
979 King's Road
Quarry Bay
Hong Kong

Attn.: Mr. Colin Mitchell

Dear Sir

Re: Contract No. EP/SP/77/15
North-East New Territories Landfill Extension (NENTX)
Monthly Environmental Monitoring and Audit Report (No.21) – August 2024

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.21) – August 2024" dated 12 September 2024.

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

Aurecon Hong Kong Limited
Unit 1608, 16/F, Tower B,
Manulife Financial Centre,
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Ref: P521530-0000-REP-NN-0094

By Email

12 September 2024

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.21) – August 2024 r2

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.21) – August 2024 r2" dated 12 September 2024 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

Fredrick Leong
Environmental Team Leader

Encl.
1. Monthly Environmental Monitoring and Audit Report (No.21) – August 2024 r2

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

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Approval			
Reviewer's signature		Approver's signature	
Name	Keith Chau	Name	Fredrick Leong
Title	Associate, Environmental	Title	Environmental Team Leader

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Appendix

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 21st Monthly EM&A Report presents the EM&A works conducted from 1 to 31 August 2024 in accordance with the 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

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	5 times	3, 9, 15, 21 & 27 August 2024
-	Construction Noise Monitoring during normal weekdays at each monitoring station	4 times	9, 15, 21 & 27 August 2024
-	Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	9 August 2024
-	Landfill Gas Monitoring during normal weekdays for Construction Works	27 times	1 to 3, 5 to 10, 12 to 17, 19 to 24, 26 to 31 August 2024
-	Joint Environmental Site Inspection	4 times	5, 12, 19 & 27 August 2024

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/Complaint/Summons and Prosecution

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

Reporting Change

ES8. There was no reporting change in the reporting period.

Future Key Issues

ES9. 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

ES10. 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.

1.1.3 In accordance with the requirements specified in Section 2.7 to 2.11 and Section 12.3 of the approved Environmental Monitoring and Audit (EM&A) Manual and Environmental Permit and Further Environmental Permit (EP and FEP) Condition 3.3, Monthly EM&A report should be submitted to the Director of Environmental Protection (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 21st 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 August 2024.

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**.

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 2-1**.

Table 2-1 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 FEP & EP during reporting period

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

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

FEP Condition	EP Condition	Submission / Measures	Status
2.1	2.3	Management Organization of Main Construction Companies	Submitted
2.2	2.4	Setting up of Community Liaison Group (CLG)	Community Liaison Group was set up.
2.3	2.5	Submission of EM&A Manual	Submitted
2.4	2.6	Submission of Preservation of Cultural Landscape Features	Submitted
2.5	2.7	Submission of Vegetation Survey (Transplantation Proposal)	Submitted
2.6	2.8	Submission of translocation proposal	Submitted
2.7	2.9	Submission of Transplantation Report and Post-Transplantation Monitoring	Submitted
2.8	2.10	Submission of Translocation Report and Post-Translocation Monitoring	Submitted
2.9	2.11	Submission of Detailed Landfill Gas Hazard Assessment Report	Submitted
2.10	2.12	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 FEP & EP is presented in **Table 2-3**.

Table 2-3 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-02/292/2007	Throughout the Contract	Permit granted on23 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-RN0702-24	18 September 2024	Permit granted on 17 June 2024
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 **Table2-4**.

Table 2-4 Summary of the Monitoring Activities in this Reporting Period

	Items	Times	Date
-	Air Quality Monitoring during normal weekdays at each monitoring station	5 times	3, 9, 15, 21 & 27 August 2024
-	Construction Noise Monitoring during normal weekdays at each monitoring station	4 times	9, 15, 21 & 27 August 2024
-	Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	9 August 2024
-	Landfill Gas Monitoring during normal weekdays for Construction Works	27 times	1 to 3, 5 to 10, 12 to 17, 19 to 24, 26 to 31 August 2024
-	Joint Environmental Site Inspection	4 times	5, 12, 19 & 27 August 2024

Air Quality

5 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

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

Site clearance of future landfilling area is in progress. The installation of groundwater monitoring boreholes will be installed after the site formation work of the landfilling area. The target commencement period of groundwater monitoring will be in 2026. No groundwater monitoring is required before the completion of site formation work of the landfilling area.

Surface Water Quality

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

27 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

All the specified and affected LCAs, LRs 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

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

Ecology

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

Environmental Site Inspection

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 August 2024. The Contractor has generally implemented part of the mitigation measures as recommended. No 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 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 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)3to 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)	21 Oct 2024	AM1
	TE-5170X (S/N: 1106)		AM2
	TE-5170X (S/N: 1856)		AM3
Direct Reading Dust Meter	Sibata LD-5R (S/N: 0Z4545)	27 Nov 2024	AM1 to AM3
	Sibata LD-5R (S/N: 882106)		
	Sibata LD-5R (S/N: 942532)		
Calibration Kit (for HVS)	TE-5025A (S/N: 3465)	15 Jan 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, µg/m³ (Range)		
	Dust Monitoring Station		
	AM1	AM2	AM3
August 2024	26 (21 – 36)	38 (29 – 46)	45 (40 – 53)
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, µg/m³ (Range)		
	Dust Monitoring Station		
	AM1	AM2	AM3
August 2024	94 (82 – 103)	112 (102 – 118)	118 (110 – 121)
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

3.1.8.1 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 EM&A manual, noise impact monitoring shall be carried out at 2 monitoring stations NM1 and NM2 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 Leq 5 mins. L10 and L90 shall also be measured at 5 mins intervals.

4.2 Monitoring Locations, Parameters and Frequency

4.2.1 According to the 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_{eq} (5min); L10 (5min) & L90 (5min)	Once a week during normal construction working hour (0700-1900 Monday to Saturday)

4.3 Monitoring Equipment

4.3.1 Integrating Sound Level Meters (SLMs) 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)	3 Sep 2024
Acoustic Calibrator	Rion NC-75 (S/N: 34724245)	23 Jul 2025
Anemometer	RS PRO RS-90 (S/N: 210722208)	12 Feb 2025

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
August 2024	59.9 (59.0 – 60.3)	55.9 (55.0 – 57.4)
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
LA_{eq}(30mins)	Exceedance Date	-	-	-	-
	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 In accordance with the EM&A manual, groundwater quality monitoring shall be carried out at least once per month at the 35 designated groundwater monitoring locations (i.e ED1 to ED35). Based on the existing construction programme, site clearance and site formation works for future landfilling area are in progress. The groundwater monitoring locations ED1 to ED35 will be installed after the site formation work of the landfilling area. No groundwater monitoring is required before the completion of site formation work of the landfilling area.

5.2 Surface Water Monitoring

5.2.1 Monitoring Requirement

5.2.1.1 In accordance with the 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 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	13 Aug 2024
Water Flow Meter	Global Water FP211 (S/N: 22K100859)	24 Jan 2025

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 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 NH3 G
TKN	0.4 mg/L	0.1 mg/L	APHA 4500Norg: D
Nitrate	0.5 mg/L	0.01 mg/L	APHA 4500 NO3 I
Sulphate	5 mg/L	1 mg/L	USEPA 375.4
Sulphite	2 mg/L	2 mg/L	APHA 4500 SO3 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 and WM2 on 9 August 2024. 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	6.9	>7.7	>7.8	7.1	>7.6	>7.7
DO in mg/L	7.6	<7.4	<4	7.9	<5	<4
Turbidity in NTU	2.1	>9.2	>9.5	19.3	>108.3	>108.9
Electrical Conductivity in µS/cm	54	---	---	130	---	---
SS in mg/L	2.4	>9.7	>11.4	12.8	>94.5	>94.7
Alkalinity in mg/L	15	---		33	---	
COD in mg/L	8			19		
BOD_5 in mg/L	<2			<2		
TOC in mg/L	1			4		
Ammonia-nitrogen in mg/L	0.10			0.07		
TKN in mg/L	0.7			0.3		
Nitrate in mg/L	0.02			0.17		
Sulphate in mg/L	2			19		
Sulphite in mg/L	<2			<2		
Phosphorus in mg/L	0.01			<0.01		
Chloride in mg/L	6			5		
Sodium in µg/L	7250			5090		
Magnesium in µg/L	480			1170		
Calcium in µg/L	2940			16300		
Potassium in µg/L	630			1680		
Iron in µg/L	310			940		
Nickel in µg/L	<1			<1		
Zinc in µg/L	11			18		
Manganese in µg/L	30			381		
Copper in µg/L	7			1		
Lead in µg/L	<1			1		
Cadmium in µg/L	<0.2			<0.2		
Coliform Count in cfu/100mL	1500			2100		
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	
Parameters / Level Exceedance		Action Level	Limit Level	Action Level	Limit Level
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 16,982.92 tonnes of C&D materials was reused in the project site. A total of 51,327 tonnes of C&D materials was reused at alternative disposal ground (NENT Landfill) during the reporting period. A total of 712.8 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 33.16 tonnes of general refuse and 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:

- CH_4: >10% Lower Explosion Limit (LEL);
- CO_2: >0.5%; and
- O_2: <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

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	Expiry Date
CH_4, CO_2 & O_2	Gas Analyser	GEM5000 (S/N: G505207)	30 Aug 2024

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 CO_2 at 0.5% is set for reference only, assuming no CO_2 emission from a particular location.

Depending on the baseline CO_2 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 during the reporting period (Conducted on working days). The LFG monitoring results are summarized in **Table 7-5.**

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	1 Aug 2024	0	0	0	20.1
	2 Aug 2024	0	0	0	20.1
	3 Aug 2024	0	0	0	20.1
	5 Aug 2024	0	0	0	20.1
	6 Aug 2024	0	0	0	20.1
	7 Aug 2024	0	0	0	20.1
	8 Aug 2024	0	0	0	20.1
	9 Aug 2024	0	0	0	20.1
	10 Aug 2024	0	0	0	20.0
	12 Aug 2024	0	0	0	20.1
	13 Aug 2024	0	0	0	20.0
	14 Aug 2024	0	0	0	20.1
	15 Aug 2024	0	0	0	20.1
	16 Aug 2024	0	0	0	20.1
	17 Aug 2024	0	0	0	20.1
	19 Aug 2024	0	0	0	20.1
	20 Aug 2024	0	0	0	20.1
	21 Aug 2024	0	0	0	20.1
	22 Aug 2024	0	0	0	20.1
	23 Aug 2024	0	0	0	20.1
	24 Aug 2024	0	0	0	20.1
	26 Aug 2024	0	0	0	20.1
	27 Aug 2024	0	0	0	20.1
	28 Aug 2024	0	0	0	20.1
	29 Aug 2024	0	0	0	20.1
	30 Aug 2024	0	0	0	20.1
	31 Aug 2024	0	0	0	20.1
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 CO_2 at 0.5% is set for reference only, assuming no CO_2 emission from a particular location.

7.5.3 The Summary of Landfill Gas Exceedance are shown in **Table 7-6**.

Table 7-6 Summary of Landfill Gas Exceedance during the Reporting Period

Landfill Gas Monitoring Station		Portion A +50 mpD to 70 mpD Platform	
Parameters \ Level Exceedance		Action Level	Limit Level
CH_4	Exceedance Date	-	-
	Exceedance Count	0	0
CO_2	Exceedance Date	-	-
	Exceedance Count	0	0
O_2	Exceedance Date	-	-
	Exceedance Count	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 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-01/292/2007.

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	1st	24 Nov 2022
	2nd	9 Dec 2022
	3rd	21 Dec 2022
	4th	13 Jan 2023
	5th	26 Jan 2023
	6th	8 Feb 2023
	7th	24 Feb 2023
	8th	20 Mar 2023
	9th	21 Apr 2023
	10th	12 May 2023
	11th	16 Jun 2023
	12th	18 Jul 2023
	13th	11 Aug 2023
	14th	15 Sep 2023
	15 th	13 Oct 2023
Post-translocation Monitoring	1st (Aug 2022)	29 Aug 2022
	2nd (Sep 2022)	28 Sep 2022
	3rd (Oct 2022)	28 Oct 2022
	4th (Nov 2022)	22 Nov 2022
	5th (Dec 2022)	29 Dec 2022
	6th (Jan 2023)	30 Jan 2023
	7th (Feb 2023)	24 Feb 2023
	8th (Mar 2023)	20 Mar 2023
	9th (Apr 2023)	19 Apr 2023
	10th (May 2023)	17 May 2023
	11th (Jun 2023)	7 Jun 2023
	12th (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 05, 12, 19 & 27 August 2024. A joint environmental site inspection was carried out by the representatives of the ER, the Contractor, IEC and the ET on 19 August 2024. 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:

05 August 2024

Reminder(s):

1. The Contractor was reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.

12 August 2024

Observation(s):

1. The generator without NRMM label was observed at Portion E3-1. The Contractor was reminded that NRMM label should be affixed on the generator at Portion E3-1.
2. The general wastes were identified on the floor without proper disposal and collection at Portion E3-1. The Contractor was advised that sufficient of enclosed bin should be provided for proper general waste collection and storage at Portion E3-1.

Reminder(s):

1. The Contractor was reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.
2. The Contractor was reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.
3. The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.
4. The Contractor was reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.
5. The Contractor was reminded that the chemical drip tray should be kept clean at Portion E3-1 to prevent chemical leakage and land contamination.

19 August 2024

Reminder(s):

1. The Contractor was reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.

2. The Contractor was reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.

3. The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.

4. The Contractor was reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.

5. The Contractor was reminded that the exposed slope should be covered by tarpaulin sheet instead of green net after earthwork at Portion A.

6. The Contractor was reminded that any breaks in the slope protection should be maintained and covered properly by impervious sheeting for short-term and should be shotcrete for long-term slope protection at SBA.

27 August 2024

Reminder(s):

1. The Contractor was reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.

2. The Contractor was reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.

3. The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.

4. The Contractor was reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.

5. The Contractor was reminded that the exposed slope should be covered by tarpaulin sheet instead of green net after earthwork at Portion A.

6. The Contractor was reminded that any breaks in the slope protection should be maintained and covered properly by impervious sheeting for short-term and should be shotcrete for long-term slope protection at SBA.

11.1.4 No site inspection was conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG) during 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	
Parameters \ Level Exceedance		Action Level	Limit Level	Action Level	Limit Level
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	
Parameters \ Level Exceedance		Action Level	Limit Level
CH_4	Exceedance Date	-	-
	Exceedance Count	0	0
CO_2	Exceedance Date	-	-
	Exceedance Count	0	0
O_2	Exceedance Date	-	-
	Exceedance Count	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 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
August 2024	Complaint Date	-	-	-	-	-
	No. of Complaint	0	0	0	0	0
Reporting Period Total		0	0	0	0	0
Accumulate of project		1*	0	6(1*)	0	0

Remarks:

1. * equal to non-project related after the investigation.
2. # 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 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

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 Site clearance of future landfilling area is in progress. The installation of groundwater monitoring boreholes will be installed after the site formation work of the landfilling area. The target commencement period of groundwater monitoring will be in 2026. No groundwater monitoring is required before the completion of site formation work of the landfilling area.

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 Four 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.

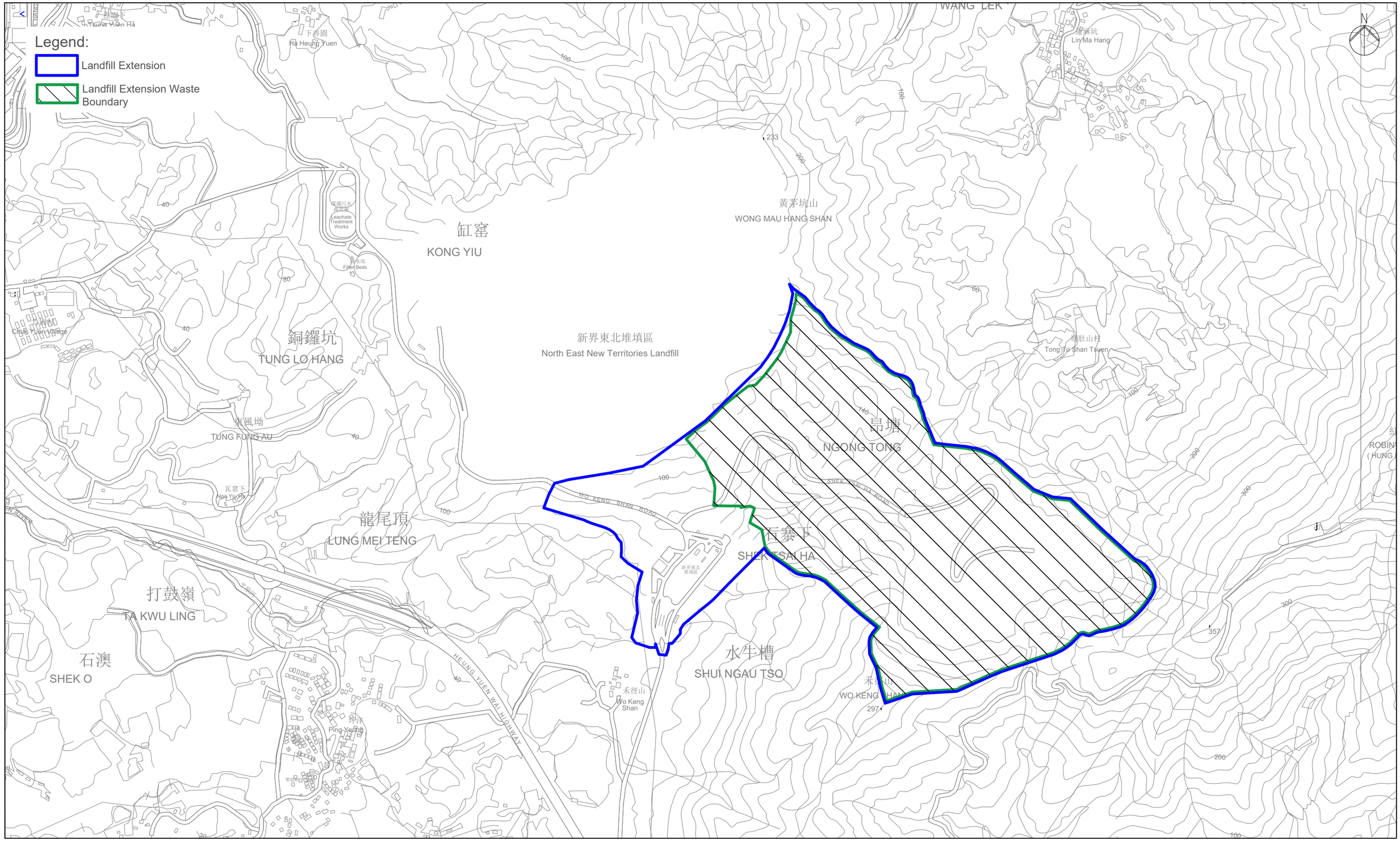
15.1.8 No complaint was recorded during the reporting period.

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.

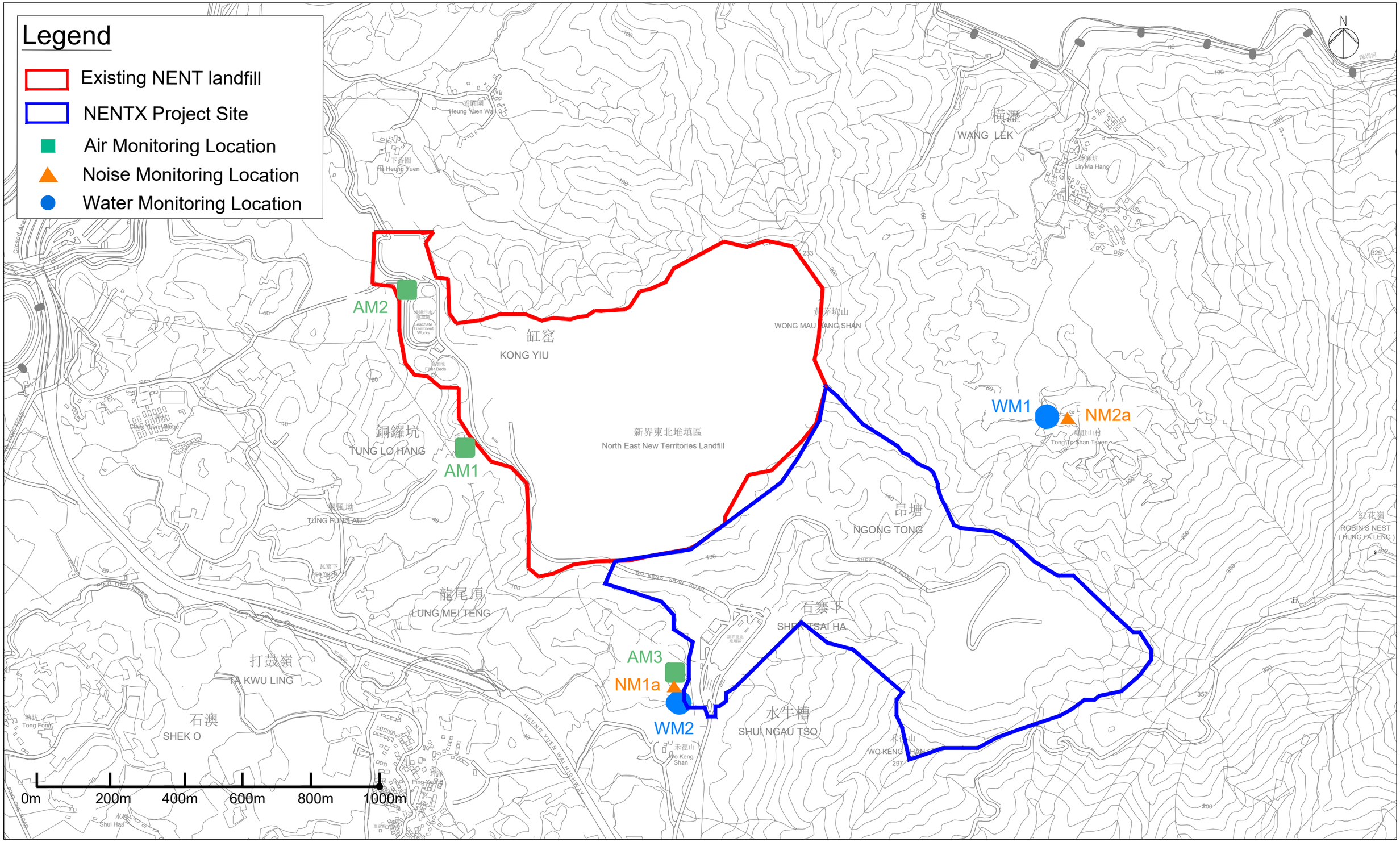
15.1.11 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Figure 1 Location of the Project Site



aurecon Aurecon Hong Kong Limited	North-East New Territories (NENT) Landfill Extension Location Plan of the Project Site	Figure 1.1 Scale: 1:10000

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

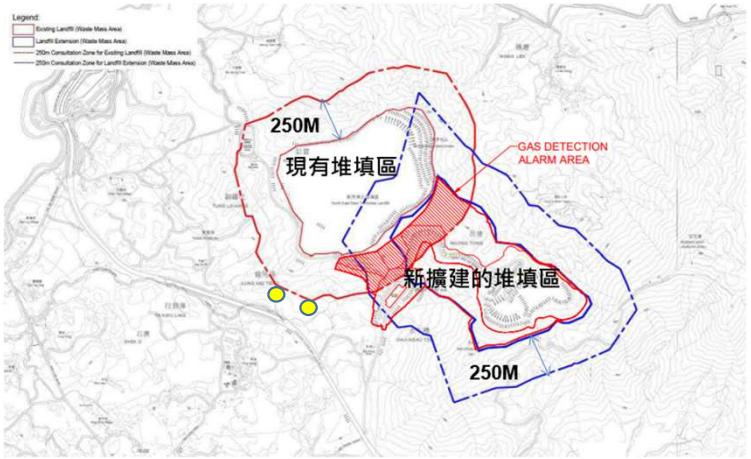


aurecon Aurecon Hong Kong Limited	North East New Territories (NENT) Landfill Extension Impact Monitoring Location	Figure 2

Figure 3 Landfill Gas Monitoring Locations

Gas Monitoring Point

Monitoring Frequency: 2 times per day



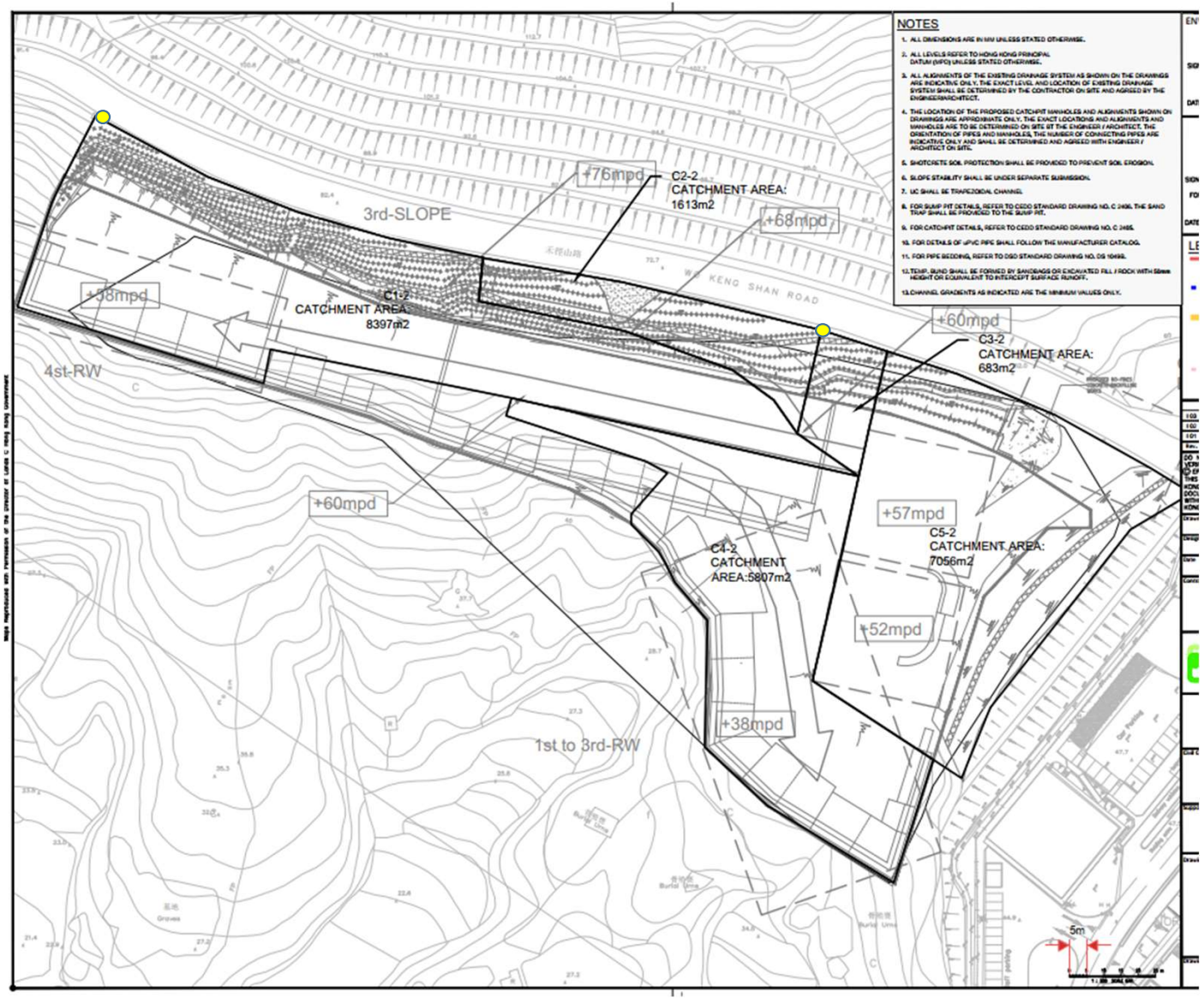
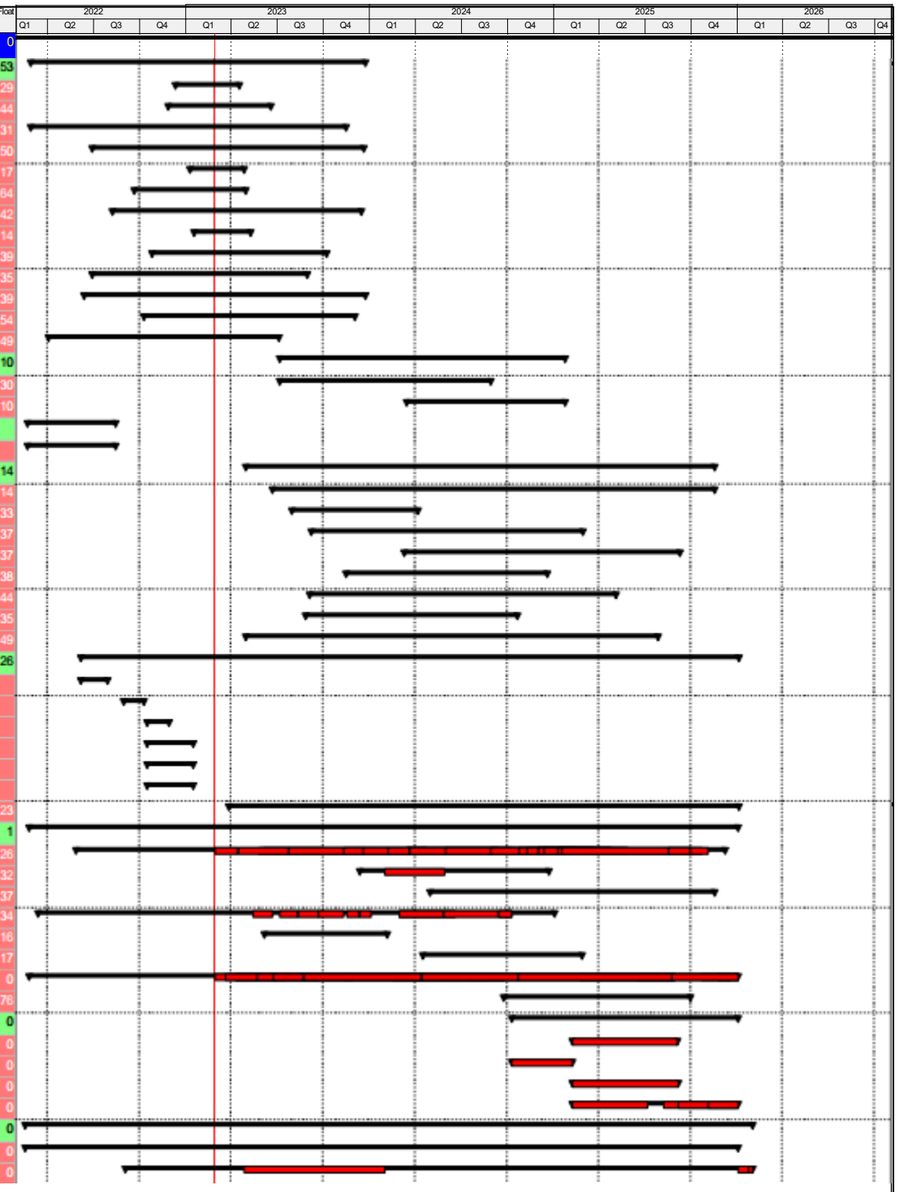


Figure 3 Landfill Gas Monitoring Locations

Appendix A Construction Programme & Construction Activities

Activity ID	Activity Name	At Completion Duration	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Predecessors	Successors	Total Float
NENTX_Updated Baseline Programme (Rev.4)		1826	25-Jan-22 A	25-Jan-27	28-Feb-23	25-Jan-27	28-Feb-23	25-Jan-27			0
DESIGN DEVELOPMENT		666	28-Feb-22 A	25-Dec-23	28-Feb-23	25-Dec-23	02-Mar-23	16-Feb-24			53
Portion A - Site Formation		91	12-Dec-22 A	17-Apr-23	28-Feb-23	17-Apr-23	07-Apr-23	26-May-23			29
Portion A & D Architectural Design		205	28-Nov-22 A	20-Jun-23	28-Feb-23	20-Jun-23	14-Mar-23	03-Aug-23			44
Portion A - Leachate Treatment Works & LFG Treatment Plant		626	28-Feb-22 A	15-Nov-23	28-Feb-23	15-Nov-23	05-Apr-23	16-Dec-23			31
Portion A - Process Building		540	30-Jun-22 A	21-Dec-23	28-Feb-23	21-Dec-23	04-Apr-23	09-Feb-24			50
Portion D Site Formation		109	10-Jan-23 A	28-Apr-23	04-Apr-23	28-Apr-23	20-Apr-23	15-May-23			17
Portion A and D Preliminary Utilities Arrangement		159	21-Sep-22 A	01-May-23	28-Feb-23	01-May-23	26-May-23	28-Jul-23			64
Site services detailed design for Portion A and D		496	09-Aug-22 A	17-Dec-23	28-Feb-23	17-Dec-23	11-Apr-23	28-Jan-24			42
Permanent Drainage - Portion A, C & D		80	19-Jan-23 A	10-May-23	28-Feb-23	10-May-23	20-Mar-23	30-May-23			14
Sewerage Management Plan - Portion A, C & D		249	26-Oct-22 A	09-Oct-23	25-Apr-23	09-Oct-23	19-Jun-23	01-Dec-23			39
Pavement Road and Traffic Design for Portoin A & D		306	30-Jun-22 A	31-Aug-23	06-Jul-23	31-Aug-23	24-Aug-23	19-Oct-23			35
Accommodation Buildings (Portion D)		401	13-Jun-22 A	25-Dec-23	28-Feb-23	25-Dec-23	08-Mar-23	16-Feb-24			39
Existing Structures (Portion C)		301	10-Oct-22 A	04-Dec-23	28-Feb-23	04-Dec-23	06-May-23	16-Feb-24			54
Landfill Area		457	04-Apr-22 A	05-Jul-23	28-Feb-23	05-Jul-23	02-Mar-23	23-Aug-23			49
FS Submisson and FSD Consent		406	07-Jul-23	24-Jan-25	07-Jul-23	24-Jan-25	21-Jul-23	07-Feb-25			10
Preliminary FS Submission		300	07-Jul-23	29-Aug-24	07-Jul-23	29-Aug-24	21-Jul-23	11-Oct-24			30
Process Building and Fire Services Building Detailed Design FS Submission		226	15-Mar-24	24-Jan-25	15-Mar-24	24-Jan-25	29-Mar-24	07-Feb-25			10
TECHNICAL SUBMISSION		125	22-Feb-22 A	16-Aug-22 A							
Project Control Plan and Report		125	22-Feb-22 A	16-Aug-22 A							
PROCUREMENT / FABRICATION / DELIVERY		933	01-May-23	18-Nov-25	01-May-23	18-Nov-25	18-Jun-23	03-Dec-25			14
General Material		880	23-Jun-23	18-Nov-25	23-Jun-23	18-Nov-25	07-Jul-23	03-Dec-25			14
LIFT		250	31-Jul-23	06-Apr-24	31-Jul-23	06-Apr-24	03-Sep-23	09-May-24			33
LTW - GFS and GRP Tanks		540	07-Sep-23	28-Feb-25	07-Sep-23	28-Feb-25	14-Oct-23	06-Apr-25			37
LTW - Lamella Settlers		550	10-Mar-24	10-Sep-25	10-Mar-24	10-Sep-25	15-Apr-24	17-Oct-25			37
LTW - Sludge Thicknening		400	16-Nov-23	20-Dec-24	16-Nov-23	20-Dec-24	24-Dec-23	27-Jan-25			38
LTW - Ammonia Stripper		610	04-Sep-23	06-May-25	04-Sep-23	06-May-25	19-Oct-23	20-Jun-25			44
Process Building(Electrial equipments)		420	28-Aug-23	21-Oct-24	28-Aug-23	21-Oct-24	03-Oct-23	25-Nov-24			35
LFG Plant		820	01-May-23	28-Jul-25	01-May-23	28-Jul-25	18-Jun-23	15-Sep-25			49
EPD REQUIREMENT - GI WORKS		1309	07-Jun-22 A	05-Jan-26	28-Mar-23	05-Jan-26	27-Apr-23	31-Jan-26			26
PORTION D		45	07-Jun-22 A	30-Jul-22 A							
PORTION A		32	31-Aug-22 A	11-Oct-22 A							
PORTION E3-1		38	17-Oct-22 A	30-Nov-22 A							
PORTION E4		76	17-Oct-22 A	17-Jan-23 A							
PORTION E3-1-A		76	17-Oct-22 A	17-Jan-23 A							
PORTION E1		76	17-Oct-22 A	17-Jan-23 A							
ENVIRONMENTAL MONITORING		821	28-Mar-23	05-Jan-26	28-Mar-23	05-Jan-26	27-Apr-23	31-Jan-26			23
CONSTRUCTION - INITIAL WORKS PHASE 1		1409	24-Feb-22 A	03-Jan-26	28-Feb-23	03-Jan-26	28-Feb-23	03-Jan-26			1
PORTION A		1291	28-May-22 A	08-Dec-25	28-Feb-23	08-Dec-25	28-Feb-23	03-Jan-26			26
SITEWIDE Underground UTILITIES (Portion A to Portion D)		302	14-Dec-23	23-Dec-24	14-Dec-23	23-Dec-24	02-Feb-24	08-Feb-25			32
Waste Reception Area (PORTION C) Construct by Others		460	02-May-24	18-Nov-25	02-May-24	18-Nov-25	27-May-24	03-Jan-26			37
PORTION D		1028	14-Mar-22 A	04-Jan-25	28-Feb-23	04-Jan-25	04-Mar-23	08-Feb-25			34
PORTION D - Underground Drainage / UG Utilities and Pipe Laying Works		200	07-Jun-23	05-Feb-24	07-Jun-23	05-Feb-24	28-Jun-23	01-Mar-24			16
PORTION D - EVA Road Road Pavement Works		257	16-Apr-24	27-Feb-25	16-Apr-24	27-Feb-25	07-May-24	19-Mar-25			17
Landfill Area (Portion E3-1, E4, E1, B1-1 & B2)		1409	24-Feb-22 A	03-Jan-26	28-Feb-23	03-Jan-26	28-Feb-23	03-Jan-26			0
Landscape Works (Landfill)		300	24-Sep-24	30-Sep-25	24-Sep-24	30-Sep-25	27-Dec-24	03-Jan-26			76
FS INSPECTION		450	11-Oct-24	04-Jan-26	11-Oct-24	04-Jan-26	11-Oct-24	04-Jan-26			0
Portion A - Readiness for FS inspection (Process Building)		210	07-Feb-25	05-Sep-25	07-Feb-25	05-Sep-25	08-Feb-25	06-Sep-25			0
Portion D : Readiness for FS inspection		120	11-Oct-24	08-Feb-25	11-Oct-24	08-Feb-25	11-Oct-24	08-Feb-25			0
2nd Inspection		210	07-Feb-25	06-Sep-25	07-Feb-25	06-Sep-25	08-Feb-25	06-Sep-25			0
FS Inspection Certificate		330	08-Feb-25	04-Jan-26	08-Feb-25	04-Jan-26	08-Feb-25	04-Jan-26			0
STATUTORY SUBMISSION		1446	16-Feb-22 A	01-Feb-26	28-Feb-23	01-Feb-26	02-Mar-23	01-Feb-26			0
Obtain Licences & Permits for Construction		1418	16-Feb-22 A	03-Jan-26	28-Feb-23	03-Jan-26	02-Mar-23	04-Jan-26			0
Obtain Licences & Permits for Operation		1246	04-Sep-22 A	01-Feb-26	28-Feb-23	01-Feb-26	15-Mar-23	01-Feb-26			0



環境保護署
Environmental Protection Department

Remaining Level of Effort
Remaining Work
Critical Remaining Work
Milestone
Summary

NORTH EAST NEW TERRITORIES (NENTX) LANDFILL EXTENSION
UPDATED BASELINE PROGRAMME (Rev.4)
Ececutive Summary
INITIAL WORKS (PHASE 1)

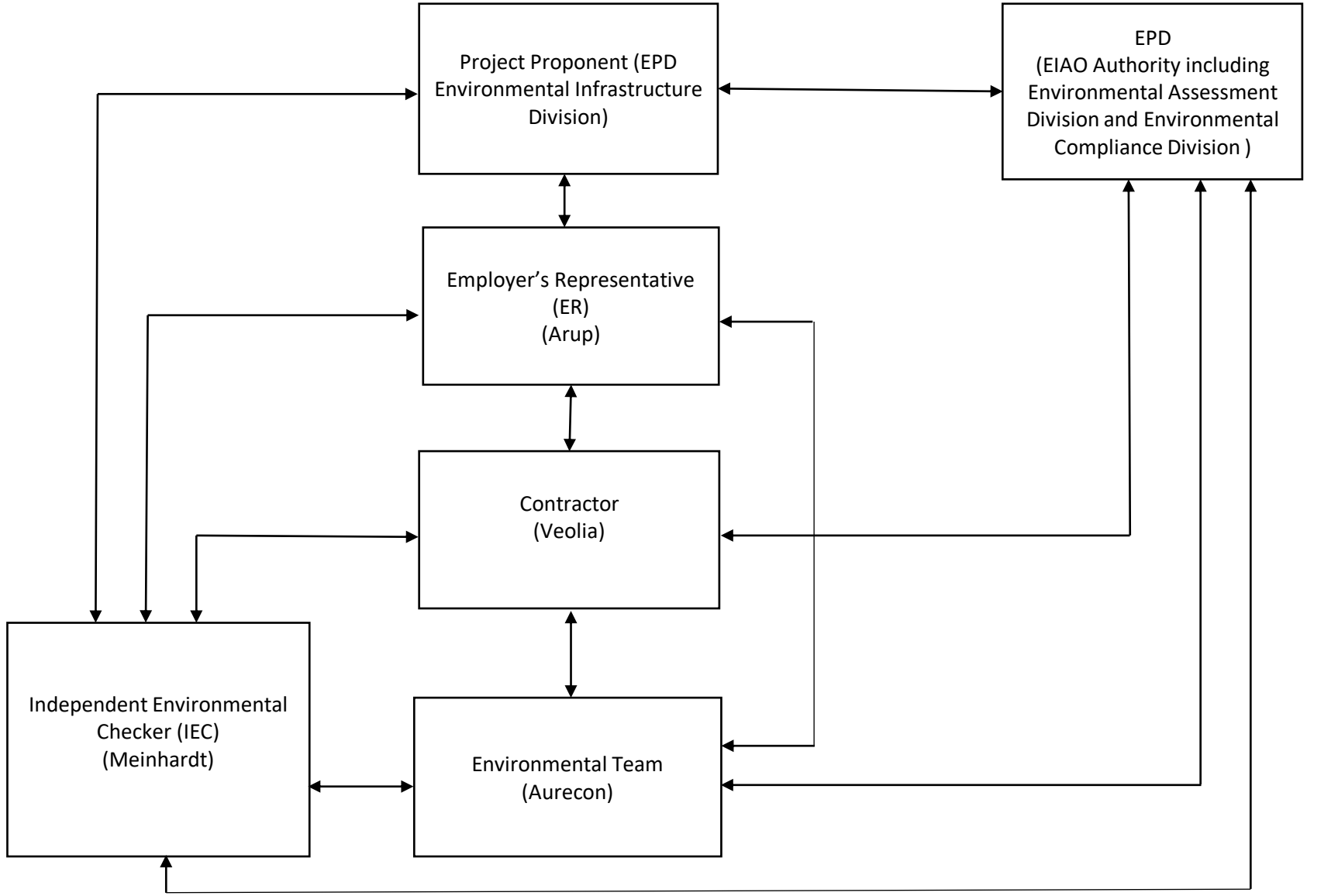
VEOLIA

Date	Revision	Ch...	Appr...
22-Jun-22	GENERAL REVISION		
31-Mar-23	GENERAL REVISION		

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	PYE	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	PYE	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	PYE	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	PYE	Dust	Covering of cement storage area, enclosure of mixing area
Site formation	Portion A, Portion E3-1, Portion E4, Portion E1/B2	PYE	Generation of C&D waste	Implementation of trip ticket system, waste recycling, internal waste transfer
Tree Felling	Whole site	PYE	Generation of yard waste	Implementation of trip ticket system, waste recycling, internal waste transfer
Shotcreting (permanent and temporary)	Whole site	PYE	Dust	Covering of cement storage area, enclosure of mixing area
Soil Nail Installation	Portion A, E1/B2, E4	PYE	Dust	Covering of cement storage area, enclosure of mixing area, watering during works, install dust screen at work area

Remark:
PYE 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

Line of Communication

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) 1st 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 September 2022)
2.6	2.8	Submission of translocation proposal	Submission Date (8 July 2022)
2.7	2.9	Submission of Transplantation Report and Post-Transplantation Monitoring	Submission Date (19 Jan 2023) 1st monitoring (24 Nov 2022) 2nd monitoring (9 Dec 2022) 3rd monitoring (21 Dec 2022) 4th monitoring (13 Jan 2023) 5th monitoring (26 Jan 2023) 6th monitoring (8 Feb 2023) 7th monitoring (24 Feb 2023) 8th monitoring (20 Mar 2023) 9th monitoring (21 Apr 2023) 10th monitoring (12 May 2023) 11th monitoring (16 Jun 2023) 12th monitoring (18 Jul 2023) 13th monitoring (11 Aug 2023) 14th monitoring (15 Sep 2023) 15th 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 December 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 December 2022)
3.2	3.2	Submission of Baseline Monitoring Report	Submission Date (30 Nov 2022)
3.3	3.3	Submission of Monthly EM&A Report	1st report (Dec 2022) 2nd report (Jan 2023) 3rd report (Feb 2023) 4th report (Mar 2023) 5th report (Apr 2023) 6th report (May 2023) 7th report (Jun 2023) 8th report (Jul 2023) 9th report (Aug 2023) 10th report (Sep 2023) 11th report (Oct 2023) 12th report (Nov 2023) 13th report (Dec 2023) 14th report (Jan 2024) 15th report (Feb 2024) 16th report (Mar 2024) 17th report (Apr 2024) 18th report (May 2024) 19th report (Jun 2024) 20th report (Jul 2024) 21st report (Aug 2024)

Appendix D Monitoring Schedule for Reporting Month & Next Month

Impact Monitoring Schedule for NENT Landfill Extension (Aug 2024) (version 1.0)

8-2024						
Sun	**Mon**	**Tue**	**Wed**	**Thur**	**Fri**	**Sat**
	Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a			**1**	**2**	**3** Air quality monitoring at AM1, AM2 and AM3
4	**5**	**6**	**7**	**8**	**9** Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a Surface water quality monitoring at WM1 and WM2	**10**
11	**12**	**13**	**14**	**15** Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	**16**	**17**
18	**19**	**20**	**21** Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	**22**	**23**	**24**
25	**26**	**27** Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	**28**	**29**	**30**	**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.

Impact Monitoring Schedule for NENT Landfill Extension (Sep 2024) (version 1.0)

9-2024						
Sun	**Mon**	**Tue**	**Wed**	**Thur**	**Fri**	**Sat**
1	**2** Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	**3**	**4**	**5**	**6**	**7** Air quality monitoring at AM1, AM2 and AM3
8	**9**	**10**	**11**	**12** Surface water quality monitoring at WM1 and WM2	**13** Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	**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**	**25** Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	**26**	**27**	**28**
29	**30**					

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 Equipement

Verification Test Date:	**28-Nov-23**	to	**30-Nov-23**	Next Verification Test Date:	**27-Nov-24**
Unit-under-Test- Model No.:	Sibata LD-5R				
Unit-under-Test Serial No.:	0Z4545				
Our Report Refrence No.:	RPT-23-HVS-0023				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

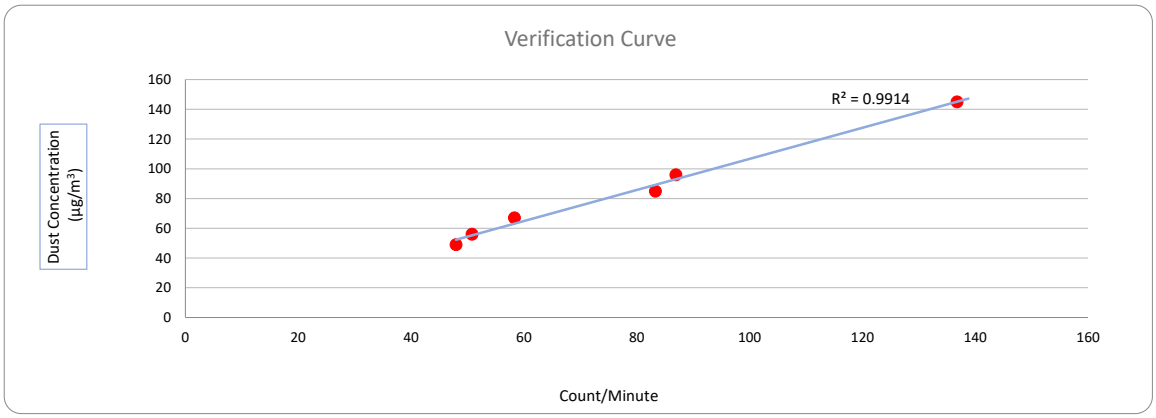
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

Equipement Vertification Result

Verification Test No.	Date	Duration			Results from Calibrated Equipement		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/m^3) y-axis
1	28/11/2023	8789.68	8792.68	180.00	15648	87	96
2	28/11/2023	8792.68	8795.68	180.00	14993	83	85
3	28/11/2023	8795.68	8798.68	180.00	8635	48	49
4	30/11/2023	8798.68	8801.68	180.00	10501	58	67
5	30/11/2023	8801.68	8804.68	180.00	24622	137	145
6	30/11/2023	8804.68	8807.68	180.00	9145	51	56

Linear Regression of y on x

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



Operated By: Andy Li — Project Technician, Environmental — Date: 02-12-2023

Checked By: Tandy Tse — Senior Consultant, Environmental — Date: 02-12-2023

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

Information of Calibrated Equipement

Verification Test Date:	**28-Nov-23**	to	**30-Nov-23**	Next Verification Test Date:	**27-Nov-24**
Unit-under-Test- Model No.:	Sibata LD-5R				
Unit-under-Test Serial No.:	882106				
Our Report Refrence No.:	RPT-23-HVS-0021				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

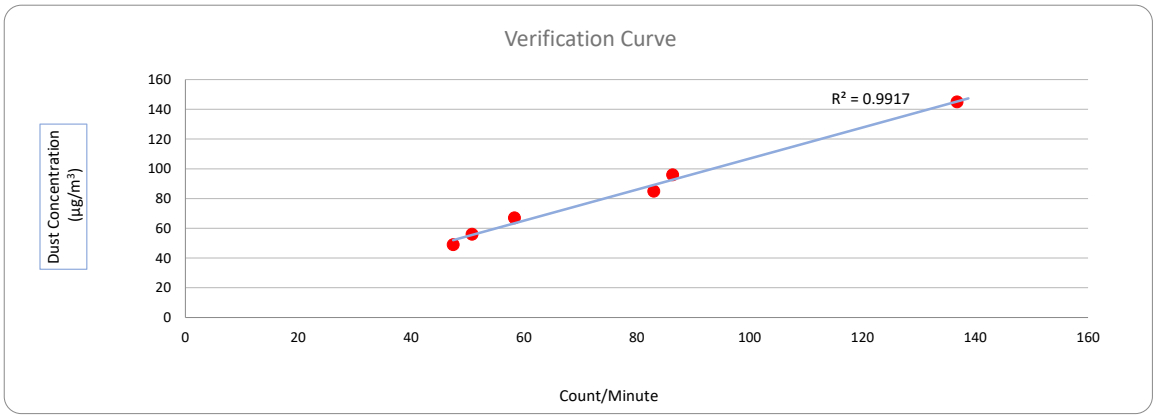
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

Equipement Vertification Result

Verification Test No.	Date	Duration			Results from Calibrated Equipement		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/m^3) y-axis
1	28/11/2023	8789.68	8792.68	180.00	15546	86	96
2	28/11/2023	8792.68	8795.68	180.00	14944	83	85
3	28/11/2023	8795.68	8798.68	180.00	8543	47	49
4	30/11/2023	8798.68	8801.68	180.00	10499	58	67
5	30/11/2023	8801.68	8804.68	180.00	24622	137	145
6	30/11/2023	8804.68	8807.68	180.00	9145	51	56

Linear Regression of y on x

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



Operated By: Andy Li — Project Technician, Environmental — Date: 02-12-2023

Checked By: Tandy Tse — Senior Consultant, Environmental — Date: 02-12-2023

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

Information of Calibrated Equipement

Verification Test Date:	**28-Nov-23**	to	**30-Nov-23**	Next Verification Test Date:	**27-Nov-24**
Unit-under-Test- Model No.:	Sibata LD-5R				
Unit-under-Test Serial No.:	942532				
Our Report Refrence No.:	RPT-23-HVS-0022				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

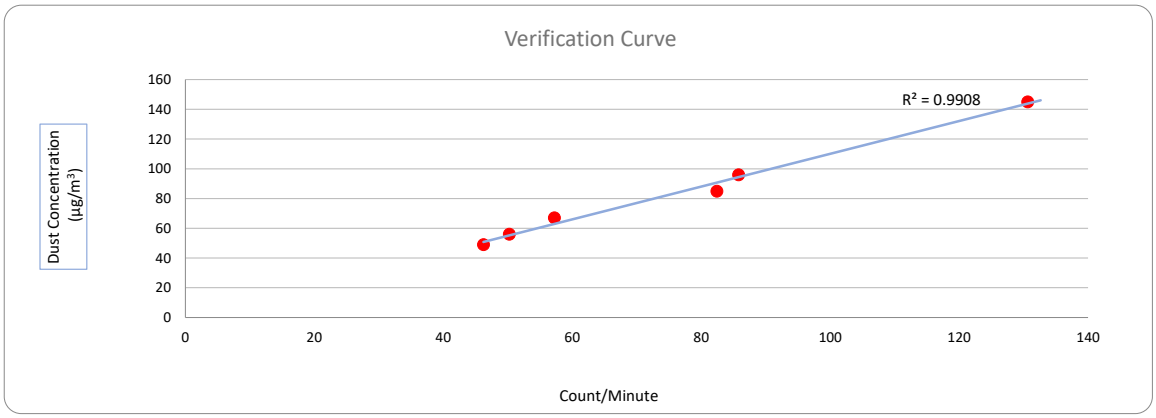
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

Equipement Vertification Result

Verification Test No.	Date	Duration			Results from Calibrated Equipement		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/m^3) y-axis
1	28/11/2023	8789.68	8792.68	180.00	15446	86	96
2	28/11/2023	8792.68	8795.68	180.00	14835	82	85
3	28/11/2023	8795.68	8798.68	180.00	8320	46	49
4	30/11/2023	8798.68	8801.68	180.00	10303	57	67
5	30/11/2023	8801.68	8804.68	180.00	23517	131	145
6	30/11/2023	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:	Strong Correlation, Results were accepted.			* If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.	



Operated By: Andy Li — Project Technician, Environmental — Date: 02-12-2023

Checked By: Tandy Tse — Senior Consultant, Environmental — Date: 02-12-2023

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Representative For Tung Lo Hang**	**Site ID:**	**AM1**	**Date:**	**26-Jun-2024**
Serial No:	**1105**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	754.4	**Actual Temperature during Calibration (T_a) (deg K):**	300.0

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)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	8.50	1.411	59.0	58.59
13	7.20	1.300	56.0	55.61
10	5.20	1.107	52.0	51.64
7	3.80	0.948	48.0	47.66
5	2.30	0.740	42.0	41.71

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m= 24.6483 b= 23.8972 Corr. Coeff= 0.9981

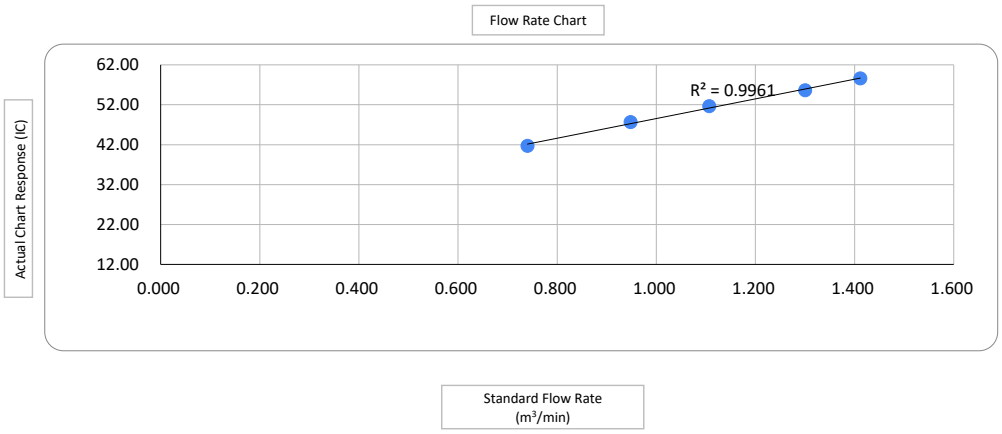
Calculations

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

$IC = I * (Sqrt (P_a/P_{Std}) * (T_{Std}/T_a))$

Qa = 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
Environemntal Team Leader

Date: 27-Jun-2024

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Representative For Tung Lo Hang**	**Site ID:**	**AM1**	**Date:**	**22-Aug-2024**
Serial No:	**1105**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	757.9	**Actual Temperature during Calibration (T_a) (deg K):**	302.0

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)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	8.20	1.385	60.0	59.52
13	7.80	1.351	58.0	57.53
10	5.00	1.084	52.0	51.58
7	3.60	0.922	48.0	47.62
5	2.00	0.690	41.0	40.67

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m= 25.9869 b= 23.1483 Corr. Coeff= 0.9975

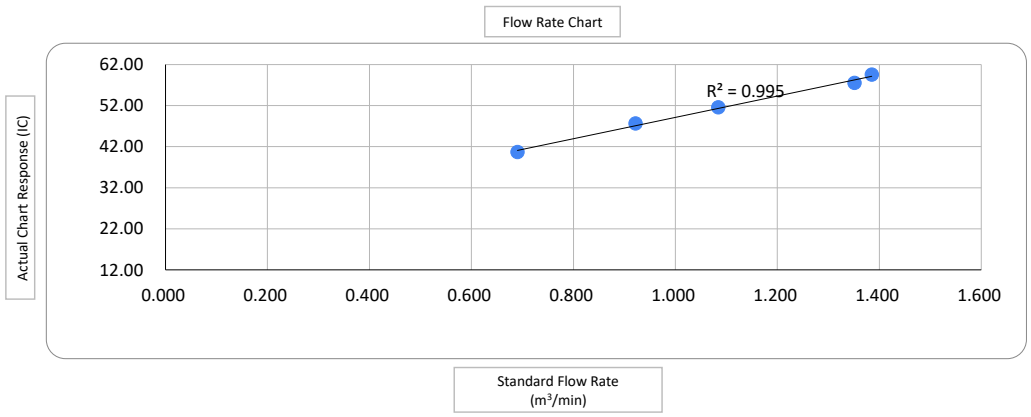
Calculations

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

$IC = I * (Sqrt (P_a/P_{Std}) * (T_{Std}/T_a))$

Qa = 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
Environemntal Team Leader

Date: 27-Jun-2024

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Representative For Heung YuenWai**	**Site ID:**	**AM2**	**Date:**	**26-Jun-2024**
Serial No:	**1106**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	754.4	**Actual Temperature during Calibration (T_a) (deg K):**	300.0

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)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	7.80	1.353	64.0	63.55
13	6.20	1.207	60.0	59.58
10	4.80	1.064	56.0	55.61
7	3.00	0.843	50.0	49.65
5	2.00	0.691	44.0	43.69

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m= 29.4333 b= 24.0524 Corr. Coeff= 0.9975

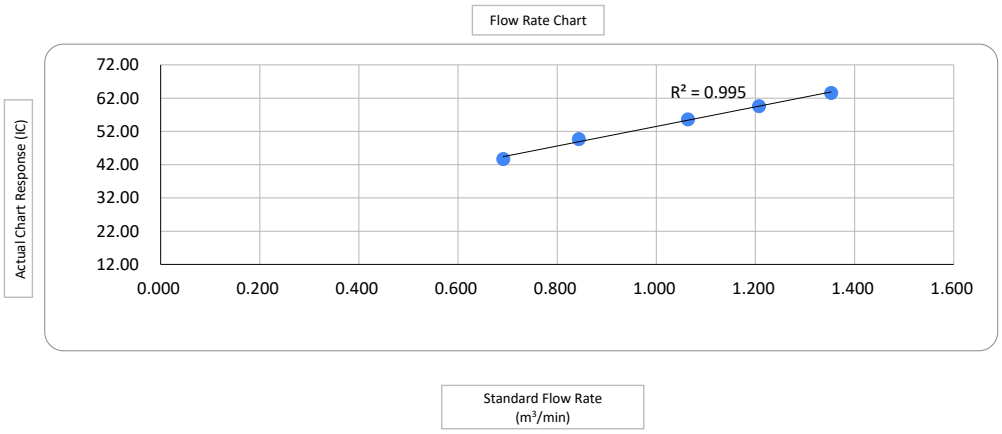
Calculations

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

$IC = I * (Sqrt (P_a/P_{Std}) * (T_{Std}/T_a))$

Qa = 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
Environemntal Team Leader

Date: 27-Jun-2024

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Representative For Heung YuenWai**	**Site ID:**	**AM2**	**Date:**	**22-Aug-2024**
Serial No:	**1106**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	757.9	**Actual Temperature during Calibration (T_a) (deg K):**	302.0

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)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	7.00	1.281	60.0	59.52
13	6.10	1.196	58.0	57.53
10	4.40	1.018	52.0	51.58
7	3.80	0.947	50.0	49.60
5	2.00	0.690	41.0	40.67

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m= 32.1950 b= 18.7360 Corr. Coeff= 0.9988

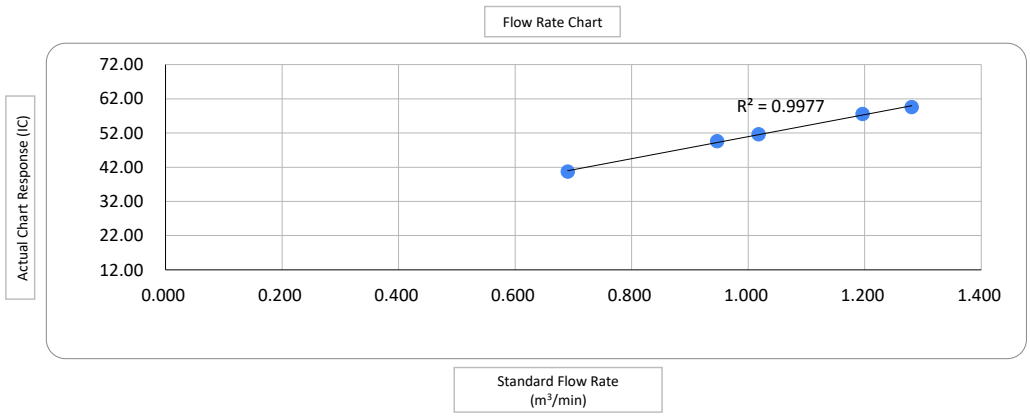
Calculations

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

$IC = I * (Sqrt (P_a/P_{Std}) * (T_{Std}/T_a))$

Qa = 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
Environemntal Team Leader

Date: 27-Jun-2024

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Representative For Wo Keng Shan Tsuen**	**Site ID:**	**AM3**	**Date:**	**26-Jun-2024**
Serial No:	**1856**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	754.4	**Actual Temperature during Calibration (T_a) (deg K):**	300.0

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)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	8.00	1.370	59.0	58.59
13	7.30	1.309	56.0	55.61
10	5.60	1.148	54.0	53.62
7	3.70	0.935	48.0	47.66
5	2.10	0.708	42.0	41.71

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m= 24.5207 b= 24.6130 Corr. Coeff= 0.9940

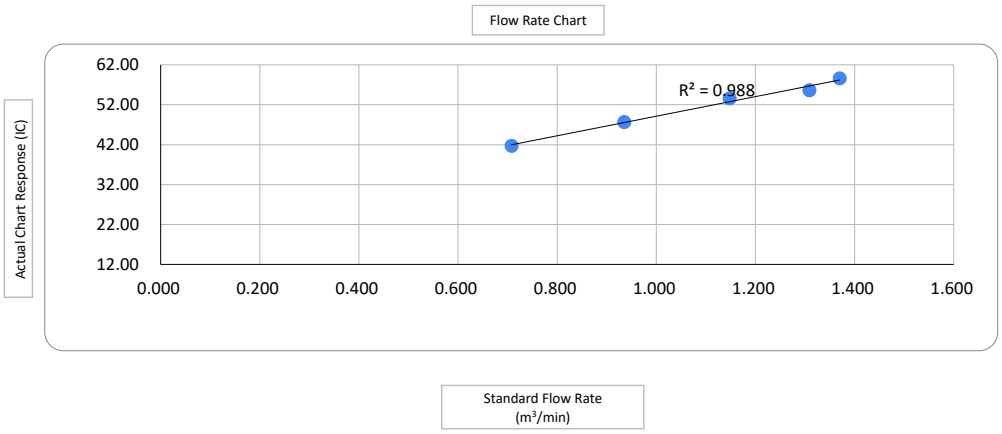
Calculations

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

$IC = I * (Sqrt (P_a/P_{Std}) * (T_{Std}/T_a))$

Qa = 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
Environemntal Team Leader

Date: 26-Jun-2024

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Representative For Wo Keng Shan Tsuen**	**Site ID:**	**AM3**	**Date:**	**22-Aug-2024**
Serial No:	**1856**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	757.9	**Actual Temperature during Calibration (T_a) (deg K):**	302.0

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)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	10.00	1.528	62.0	61.50
13	8.60	1.418	58.0	57.53
10	6.00	1.187	54.0	53.57
7	4.20	0.995	48.0	47.62
5	2.00	0.690	42.0	41.66

0

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m= 23.3844 b= 25.1656 Corr. Coeff= 0.9956

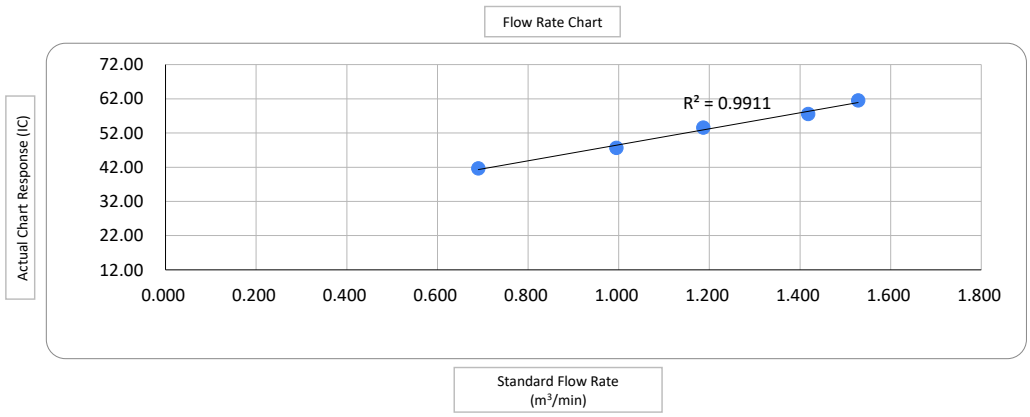
Calculations

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

$IC = I * (Sqrt (P_a/P_{Std}) * (T_{Std}/T_a))$

Qa = 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
Environemntal Team Leader

Date: 22-Aug-2024

TISCH Environmental

RECALIBRATION DUE DATE:
January 15, 2025

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	January 15, 2024	**Rootsmeter S/N:** 438320	**Ta:** 294	°K
Operator:	Jim Tisch		**Pa:** 755.9	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	1.4350	3.3	2.00
2	3	4	1	1.0180	6.4	4.00
3	5	6	1	0.9090	8.0	5.00
4	7	8	1	0.8670	8.9	5.50
5	9	10	1	0.7150	12.9	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)	$\sqrt{\Delta H(Ta/Pa)}$ (y-axis)
1.0037	0.6995	1.4200	0.9956	0.6938	0.8820
0.9996	0.9819	2.0081	0.9915	0.9740	1.2473
0.9975	1.0973	2.2452	0.9894	1.0885	1.3945
0.9963	1.1491	2.3547	0.9882	1.1398	1.4626
0.9909	1.3859	2.8399	0.9829	1.3747	1.7639
QSTD	**m=**	**2.06920**	**QA**	**m=**	**1.29570**
	b=	**-0.02547**		**b=**	**-0.01582**
	r=	**0.99999**		**r=**	**0.99999**

Calculations

Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	**Va=**	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	**Qa=**	Va/ΔTime

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= $1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$

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

Tisch Environmental, Inc.
145 South Miami Avenue
Village of Cleves, OH 45002

www.tisch-env.com
TOLL FREE: (877)263-7610
FAX: (513)467-9009

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:	*Acuity Sustainability Consulting Limited*
Address:	*Unit E, 12/F, Ford Glory Plaza,*
	Nos. 37-39 Wing Hong Street,
	Cheung Sha Wan, 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: 31 August 2023

Date of calibration: 04 September 2023

Date of NEXT calibration: 03 September 2024

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: **04 September 2023**

Certificate No.: APJ23-053-CC002

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

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:	23.6 °C
Air Pressure:	1006 hPa
Relative Humidity:	62.6 %

3. *Calibration Equipment:*

	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS

4. *Calibration Results*

Sound Pressure Level

Reference Sound Pressure Level

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	Fast	94	1000	94.0	±0.4

Linearity

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	Fast	94	1000	94.0	Ref
			104		104.0	±0.3
			114		114.0	±0.3

Time 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	Fast	94	1000	94.0	Ref
		Slow			94.0	±0.3

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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	Fast	94	31.5	94.1	±2.0
				63	94.1	±1.5
				125	94.1	±1.5
				250	94.1	±1.4
				500	94.1	±1.4
				1000	94.0	Ref
				2000	93.9	±1.6
				4000	93.9	±1.6
				8000	94.7	+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	Fast	94	31.5	54.7	-39.4 ±2.0
				63	68.2	-26.2 ±1.5
				125	78.0	-16.1 ±1.5
				250	85.5	-8.6 ±1.4
				500	90.8	-3.2 ±1.4
				1000	94.0	Ref
				2000	95.1	+1.2 ±1.6
				4000	94.9	+1.0 ±1.6
				8000	93.5	-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	Fast	94	31.5	91.2	-3.0 ±2.0
				63	93.5	-0.8 ±1.5
				125	94.0	-0.2 ±1.5
				250	94.1	-0.0 ±1.4
				500	94.1	-0.0 ±1.4
				1000	94.0	Ref
				2000	93.7	-0.2 ±1.6
				4000	93.2	-0.8 ±1.6
				8000	91.6	–3.0 +2.1: –3.1

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

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	± 0.10
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.10
	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.

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

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

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

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.

ACOUSTICS AND AIR TESTING LABORATORY CO. LTD. (A+A)*L

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

A1

Calibration Certificate

Certificate No. 300737 Page 1 of 2 Pages

Customer : Acuity Sustainability Consulting Limited

Address : Unit E, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, H.K.

Order No. : Q30320 **Date of receipt :** 2-Feb-23

Item Tested

Description : Hot Wire Anemometer

Manufacturer : RS PRO **I.D. :** ASCL-EQ-111

Model : RS-90 **Serial No. :** 210722208

Test Conditions

Date of Test : 13-Feb-23 **Supply Voltage :** --

Ambient Temperature : (23 ± 3)°C **Relative Humidity :** (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure : T03, Z04.

Test Results

All results were within the manufacturer's specification.

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S155	Std. Anemometer	206240	NIM-PRC
S223C	Std. Thermometer	205617	NIM-PRC

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance 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 measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant.
The test results apply to the above Unit-Under-Test only

Calibrated by : James Yau

Approved by : Steve Kwan

Date: 13-Feb-23

This Certificate is issued by:
Hong Kong Calibration Ltd.
Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street,Kwai Chung, NT,Hong Kong.
Tel: 2425 8801 Fax: 2425 8646

Calibration Certificate

Results :

1. Velocity

Applied Value (m/s)	UUT Reading (m/s)	Mfr's Spec.
0.00	0.00	± (3 % of reading + 0.3 m/s)
2.50	2.43	
5.00	5.04	
10.00	10.07	
15.00	15.65	
19.00	19.87	

2. Temperature

Applied Value (°C)	UUT Reading (°C)	Mfr's Spec.
23.12	23.0	± 2 °C

Remark : 1. UUT: Unit-Under-Test
2. Uncertainty : ± (0.9 % + 0.16 m/s) for Velocity, ± 0.1 °C for Temperature, for a confidence probability of not less than 95 %.
3. Atmospheric Pressure: 1 002 hPa

---------- END ----------

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-BD050046
Date of Issue : 16 May 2024
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited
Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment :	YSI ProDSS (Multi-Parameters)
Manufacturer :	YSI (a xylem brand)
Serial Number :	22D100436
Date of Received :	07 May 2024
Date of Calibration :	14 May 2024
Date of Next Calibration :	13 August 2024
Request No. :	D-BD050046

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
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.03	0.03	Satisfactory
7.42	7.37	-0.05	Satisfactory
10.01	10.10	0.09	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
16.5	16.3	-0.2	Satisfactory
26.0	25.0	-1.0	Satisfactory
33.0	31.6	-1.4	Satisfactory

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.54	-4.60	Satisfactory
20	19.66	-1.70	Satisfactory
30	29.94	-0.20	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant 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
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD050046
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(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.95	7.77	-0.18	Satisfactory
4.04	4.07	0.03	Satisfactory
3.17	3.55	0.38	Satisfactory
0.40	0.47	0.07	Satisfactory

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.06	--	Satisfactory
10	9.73	-2.7	Satisfactory
20	19.38	-3.1	Satisfactory
100	96.38	-3.6	Satisfactory
800	721.14	-9.9	Satisfactory

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

Remark(s)

·The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

·The results relate only to the calibrated equipment as received

·The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

·"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

·The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. 400718

Customer : Acumen Laboratory and Testing Limited

Address : Flat / RM D, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Shan Wan, Kowloon, Hong Kong

Order No. : Q40331 **Date of receipt :** 24-Jan-24

Item Tested

Description : Flow Probe
Manufacturer : Global Water
Model : FP111
I.D. : --
Serial No. : 22K100859

Test Conditions

Date of Test : 25-Jan-24
Ambient Temperature : 15°C
Supply Voltage : --
Relative Humidity : 48%

Test Specifications

Calibration check.
Ref. Document/Procedure : V12

Test Results

All results were within the manufacturer's specification.
The results are shown in the attached page(s).

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S179	Std. Tape	301321	NIM-PRC
S136A	Stop Watch	303116	SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance 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 measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant.
The test results apply to the above Unit-Under-Test only

Calibrated by : Kin Wong

Approved by : Steve Kwan

Date: 26-Jan-24

This Certificate is issued by:
Hong Kong Calibration Ltd.
Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street,Kwai Chung, NT,Hong Kong.
Tel: 2425 8801 Fax: 2425 8646

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. 400718

Results :

Applied Value (m/s)	UUT Reading (m/s)	Mfr's Spec.
0.58	0.6	± 0.1 m/s

Remarks : 1. UUT : Unit-Under-Test
2. Uncertainty : ± 1 %, for a confidence probability of not less than 95%.

---------- END ----------

Landfill Gas

CERTIFICATION OF CALIBRATION

4533

Date Of Calibration: 31-Aug-2023

Certificate Number: G505207_1/33483

Issued by: QED Environmental Systems Ltd.

Customer: **Onuee Electronics Ltd**
C3-E TCL Science Park No.1001 Zhong Shan Yuan Rd.
Nanshan Shenzhen 518052 CHINA

Description: Gas Analyser

Model: GEM5000

Serial Number: G505207

UKAS Accredited results:

Results after adjustment :

Methane (CH_4)		
Certified Gas (%)	**Instrument Reading (%)**	**Uncertainty (%)**
5.0	5.0	0.072
15.0	15.1	0.13
60.0	59.7	0.42

Carbon Dioxide (CO_2)		
Certified Gas (%)	**Instrument Reading (%)**	**Uncertainty (%)**
5.0	4.8	0.074
15.0	14.5	0.13
40.0	39.9	0.29

Oxygen (O_2)		
Certified Gas (%)	**Instrument Reading (%)**	**Uncertainty (%)**
20.2	20.3	0.25

The inwards assessment was carried out 21-Aug-2023.
The maximum adjustment is larger than the specification limit.
Inwards assessment data is available if requested.

All concentrations are molar.

CH_4, CO_2 readings recorded at : 33.2 °C ± 2.5 °C

O2 readings recorded at : 24.4 °C ± 2.5 °C

Barometric Pressure : 0998 mbar ± 4 mbar

Method of Test : The analyser is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure LP004.

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.
The results relate only to the item calibrated

Calibration Instance:117 IGC Instance:117

www.qedenv.com +44 (0) 333 800 0088 sales@qedenv.co.uk

QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

Registered in England and Wales 1898734

CERTIFICATION OF CALIBRATION

4533

Date Of Calibration: 31-Aug-2023

Certificate Number: G505207_1/33483

Issued by: QED Environmental Systems Ltd.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrations marked 'Non-UKAS Accredited results' on this certificate have been included for completeness.

Non-UKAS accredited results after adjustment:

Barometer (mbar)	
Reference	**Instrument Reading**
998	999

Additional Gas Cells		
Gas	**Certified Gas (ppm)**	**Instrument Reading (ppm)**
CO	501	507

Date of Issue : 07-Sep-2023 **Approved by Signatory**

Fani Zolota

Laboratory Inspection

End of Certificate

Calibration Instance: 117 IGC Instance: 117

www.qedenv.com +44 (0) 333 800 0088 sales@qedenv.co.uk

QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

Registered in England and Wales 1898734

Appendix F Monitoring Results

Air Quality

1-hour TSP Concentration (μg/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) μg/m^3	Reading (2) μg/m^3	Reading (3) μg/m^3	Average μg/m^3	Action Level μg/m^3	Limit Level μg/m^3
3/08/2024	Sibata LD-5R	882106	1.0437	Fine	13:01	14:01	15:01	31	34	36	34	285	500
9/08/2024	Sibata LD-5R	882106	1.0437	Fine	13:00	14:00	15:00	24	26	23	24		
15/08/2024	Sibata LD-5R	0Z4545	1.0451	Fine	13:10	14:10	15:10	25	26	29	27		
21/08/2024	Sibata LD-5R	882106	1.0437	Fine	13:40	14:40	15:40	24	22	21	22		
27/08/2024	Sibata LD-5R	0Z4545	1.0451	Fine	13:21	14:21	15:21	21	22	26	23		
							Average	**26**					
							Max.	**36**					
							Min.	**21**					

1-hour TSP Concentration (μg/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) μg/m^3	Reading (2) μg/m^3	Reading (3) μg/m^3	Average μg/m^3	Action Level μg/m^3	Limit Level μg/m^3
3/08/2024	Sibata LD-5R	942532	1.1020	Fine	13:21	14:21	15:21	45	46	43	45	279	500
9/08/2024	Sibata LD-5R	942532	1.1020	Fine	13:16	14:16	15:16	30	29	31	30		
15/08/2024	Sibata LD-5R	942532	1.1020	Fine	13:22	14:22	15:22	36	37	36	36		
21/08/2024	Sibata LD-5R	0Z4545	1.0451	Fine	13:50	14:50	15:50	40	41	42	41		
27/08/2024	Sibata LD-5R	942532	1.1020	Fine	13:32	14:32	15:32	38	39	37	38		
							Average	**38**					
							Max.	**46**					
							Min.	**29**					

1-hour TSP Concentration (μg/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) μg/m^3	Reading (2) μg/m^3	Reading (3) μg/m^3	Average μg/m^3	Action Level μg/m^3	Limit Level μg/m^3
3/08/2024	Sibata LD-5R	0Z4545	1.0451	Fine	13:45	14:45	15:45	51	52	53	52	285	500
9/08/2024	Sibata LD-5R	0Z4545	1.0451	Fine	13:31	14:31	15:31	41	44	43	43		
15/08/2024	Sibata LD-5R	882106	1.0437	Fine	13:30	14:30	15:30	44	43	42	43		
21/08/2024	Sibata LD-5R	942532	1.1020	Fine	14:00	15:00	16:00	45	43	46	45		
27/08/2024	Sibata LD-5R	882106	1.0437	Fine	13:45	14:45	15:45	40	42	44	42		
							Average	**45**					
							Max.	**53**					
							Min.	**40**					

The Summary of TSP 24-hour Concentration (μg/m^3) 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
		(℃)	(hPa)	Initial	Final	(minutes)	(cfm)	(m^3/min)	(m^3)	Initial	Final	(g)	(μg/m^3)	(μg/m^3)	(μg/m3)
3/8/2024	Fine	30.6	1008.3	3497.02	3521.02	1440	40	0.6	879	2.7029	2.7916	0.0887	101	164	260
9/8/2024	Fine	30.5	1004.1	3530.91	3554.91	1440	39	0.6	814	2.7261	2.8002	0.0741	91		
15/8/2024	Fine	27.7	1005.2	3563.88	3587.88	1440	40	0.6	883	2.6910	2.7635	0.0725	82		
21/8/2024	Fine	28.0	1010.1	3594.66	3618.66	1440	40	0.6	922	2.6892	2.7773	0.0881	96		
27/8/2024	Fine	30.7	1004.5	3627.40	3651.40	1440	41	0.6	921	2.6935	2.7880	0.0945	103		
												Average	**94**		
												Min	**82**		
												Max	**103**		

The Summary of 24-hour TSP Concentration (μg/m^3) 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
		(℃)	(hPa)	Initial	Final	(minutes)	(cfm)	(m^3/min)	(m^3)	Initial	Final	(g)	(μg/m^3)	(μg/m^3)	(μg/m3)
3/8/2024	Fine	30.6	1008.3	3087.55	3111.55	1440	49	0.8	1187	2.7014	2.8388	0.1374	116	152	260
9/8/2024	Fine	30.5	1004.9	3121.44	3145.44	1440	43	0.6	891	2.6765	2.7671	0.0906	102		
15/8/2024	Fine	27.7	1005.2	3244.20	3268.20	1440	48	0.8	1142	2.6977	2.8311	0.1334	117		
21/8/2024	Fine	28.0	1010.1	3278.17	3302.17	1440	45	0.7	983	2.6918	2.8076	0.1158	118		
27/8/2024	Fine	30.7	1004.5	3312.06	3336.06	1440	47	0.9	1226	2.6938	2.8282	0.1344	110		
												Average	**112**		
												Min	**102**		
												Max	**118**		

The Summary of 24-hour TSP Concentration (μg/m^3) 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
		(℃)	(hPa)	Initial	Final	(minutes)	(cfm)	(m^3/min)	(m^3)	Initial	Final	(g)	(μg/m^3)	(μg/m^3)	(μg/m3)
3/8/2024	Fine	30.6	1008.3	4064.39	4088.39	1440	40	0.6	871	2.6993	2.8051	0.1058	121	163	260
9/8/2024	Fine	30.5	1004.9	4098.28	4122.28	1440	40	0.6	863	2.7029	2.7974	0.0945	110		
15/8/2024	Fine	27.7	1005.2	4132.15	4156.15	1440	40	0.6	874	2.6968	2.8018	0.1050	120		
21/8/2024	Fine	28.0	1010.1	4166.01	4190.01	1440	40	0.6	885	2.6919	2.7967	0.1048	118		
27/8/2024	Fine	30.7	1004.5	4200.90	4224.90	1440	41	0.6	930	2.6870	2.7993	0.1123	121		
												Average	**118**		
												Min	**110**		
												Max	**121**		

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
9/8/2024	Fine	1.2	8:41	9:11	60.2	60.3	59.2	59.4	59.9	60.5	59.9	61.4	61.6	60.3	60.6	60.1	61.6	59.2	59.4	58.1	58.2	58.3	59.9
15/8/2024	Fine	1.2	13:00	13:30	59.1	59.2	58.4	58.9	59.1	59.3	59.0	60.4	60.9	59.9	60.2	61.2	61.3	58.1	58.0	57.6	57.4	58.9	58.4
21/8/2024	Fine	1.2	9:30	10:00	60.4	61.6	60.9	60.4	58.4	59.6	60.3	61.4	62.6	62.1	61.9	59.9	60.4	59.1	60.4	59.6	59.4	57.4	58.1
27/8/2024	Fine	1.0	13:00	13:30	58.1	59.3	59.9	60.3	61.2	60.9	60.1	59.1	60.3	60.5	61.5	62.5	61.5	57.1	58.4	58.1	59.1	60.5	59.5

Average	59.9
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
9/8/2024	Fine	1.0	13:30	14:00	57.1	56.2	56.5	54.1	55.2	54.3	55.7	58.2	57.4	57.9	55.6	56.3	55.6	56.1	55.2	55.4	53.3	54.2	53.1
15/8/2024	Fine	2.0	16:00	16:30	57.6	56.3	56.6	57.4	57.9	58.1	57.4	59.2	58.4	57.9	58.5	58.9	59.3	56.3	55.4	55.9	56.3	56.4	57.6
21/8/2024	Fine	1.9	9:40	10:10	55.4	56.1	55.4	57.4	50.6	50.9	55.0	56.6	57.2	56.7	58.4	52.6	53.9	54.0	55.4	54.2	56.9	49.9	49.6
27/8/2024	Fine	1.3	16:00	16:30	54.8	54.3	54.2	55.1	55.6	56.2	55.1	56.0	55.5	55.4	56.3	56.8	57.4	53.6	53.1	54.0	54.8	54.4	54.0

Average	55.9
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
9-Aug-24	17:00	Sunny	0.13	2.0	26.6	7.6	<7.4	<4	6.9	>7.7	>7.8	2.1	>9.2	>9.5	2.4	>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
9-Aug-24	8:00	Sunny	0.30	1.0	26.1	7.9	<5	<4	7.1	>7.6	>7.7	19.3	>108.3	>108.9	12.8	>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

5.Surface water quality monitoring at WM1 on 11 July 2024 changed to 19 July 2024 due to the security consideration of overgrown lawn.

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: ACUMEN LABORATORY AND TESTING LIMITED	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 9
Contact	: HUNTINGTON HUI	Contact	: Richard Fung	Work Order	: HK2432240
Address	: UNIT D, 12/F, FORD GLORY PLAZA, NOS.37-39 WING HONG STREET, CHEUNG SHA WAN, KOWLOON, HONG KONG	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	: 09-Aug-2024
Order number	: ----	Quote number	: HKE/2751/2022_V4	Issue Date	: 23-Aug-2024
C-O-C number	: ----			No. of samples received	: 2
Site	:			No. of samples analysed	: 2

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

Signatories	*Position*	*Authorised results for*
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 09-Aug-2024 to 23-Aug-2024.

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: HK2432240

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 18:35.

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.

EA025 - The accredited LOR of Total Suspended Solids is 0.5mg/L. Results below this LOR are for reference only.

Analytical Results

Sub-Matrix: **WATER**

Compound	CAS Number	LOR	Unit	Sample ID	WM 1	WM 2	----	----	----
				Sampling date / time	09-Aug-2024	09-Aug-2024	----	----	----
					HK2432240-001	HK2432240-002	-------	-------	-------
EA/ED: Physical and Aggregate Properties									
EA025: Suspended Solids (SS)	----	0.1	mg/L		2.4	12.8	----	----	----
ED037: Total Alkalinity as CaCO3	----	1	mg/L		15	33	----	----	----
ED/EK: Inorganic Nonmetallic Parameters									
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L		2	19	----	----	----
ED045K: Chloride	16887-00-6	0.5	mg/L		6	5	----	----	----
EK055K: Ammonia as N	7664-41-7	0.01	mg/L		0.10	0.07	----	----	----
EK058A: Nitrate as N	14797-55-8	0.01	mg/L		0.02	0.17	----	----	----
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L		0.7	0.3	----	----	----
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		1	4	----	----	----
EP020: Oil & Grease	----	5	mg/L		<5	<5	----	----	----
EP026C: Chemical Oxygen Demand	----	5	mg/L		8	19	----	----	----
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		7	1	----	----	----
EG020: Lead	7439-92-1	1	µg/L		<1	1	----	----	----
EG020: Manganese	7439-96-5	1	µg/L		30	381	----	----	----
EG020: Nickel	7440-02-0	1	µg/L		<1	<1	----	----	----
EG020: Zinc	7440-66-6	10	µg/L		11	18	----	----	----
EG032: Calcium	7440-70-2	50	µg/L		2940	16300	----	----	----
EG032: Iron	7439-89-6	10	µg/L		310	940	----	----	----
EG032: Magnesium	7439-95-4	50	µg/L		480	1170	----	----	----
EG032: Potassium	7440-09-7	50	µg/L		630	1680	----	----	----
EG032: Sodium	7440-23-5	50	µg/L		7250	5090	----	----	----
EM: Microbiological Testing									
EM002: E. coli	----	1	CFU/100mL		270	520	----	----	----

Sub-Matrix: WATER			Sample ID	WM 1	WM 2	----	----	----
			Sampling date / time	09-Aug-2024	09-Aug-2024	----	----	----
Compound	CAS Number	LOR	Unit	HK2432240-001	HK2432240-002	--------	--------	--------
EM: Microbiological Testing - Continued								
EM003: Total Coliforms	----	1	CFU/100mL	1500	2100	----	----	----

-------- 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**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 5981134)								
HK2432219-001	Anonymous	ED037: Total Alkalinity as CaCO3	----	1	mg/L	81	81	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 5984581)								
HK2432240-001	WM 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.4	2.4	0.0
HK2432347-007	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	28.4	28.4	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5982250)								
HK2432219-001	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.02	0.02	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5982824)								
HK2432317-001	Anonymous	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	19.5	18.5	5.5
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5985200)								
HK2432240-001	WM 1	ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	2	2	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5985201)								
HK2432240-001	WM 1	ED045K: Chloride	16887-00-6	1	mg/L	6	6	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6001187)								
HK2432240-001	WM 1	EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.7	0.7	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6004355)								
HK2432219-001	Anonymous	EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	0.0
EP: Aggregate Organics (QC Lot: 5998624)								
HK2432219-001	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	<5	<5	0.0
EP: Aggregate Organics (QC Lot: 5999667)								
HK2431915-001	Anonymous	EP026C: Chemical Oxygen Demand	----	5	mg/L	<5	<5	0.0
EG: Metals and Major Cations - Total (QC Lot: 5982299)								
HK2432240-002	WM 2	EG032: Iron	7439-89-6	10	µg/L	940	910	3.1
		EG032: Calcium	7440-70-2	50	µg/L	16300	16200	0.3
		EG032: Magnesium	7439-95-4	50	µg/L	1170	1160	0.9
		EG032: Potassium	7440-09-7	50	µg/L	1680	1620	3.7
		EG032: Sodium	7440-23-5	50	µg/L	5090	5010	1.6
EG: Metals and Major Cations - Total (QC Lot: 5982300)								
HK2432240-002	WM 2	EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0

Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Total (QC Lot: 5982300) - Continued								
HK2432240-002	WM 2	**EG020: Copper**	7440-50-8	1	µg/L	1	1	0.0
		EG020: Lead	7439-92-1	1	µg/L	1	2	0.0
		EG020: Manganese	7439-96-5	1	µg/L	381	373	2.1
		EG020: Nickel	7440-02-0	1	µg/L	<1	<1	0.0
		EG020: Zinc	7440-66-6	10	µg/L	18	17	0.0

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

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 5981134)											
ED037: Total Alkalinity as CaCO3	----	1	mg/L	<1	50 mg/L	104	----	95.0	105	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 5984581)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	10 mg/L	100	----	84.9	114	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5982250)											
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	99.5	----	92.4	106	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5982824)											
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	99.4	----	89.3	109	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5985200)											
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<1	5 mg/L	104	----	93.1	113	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5985201)											
ED045K: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	99.5	----	88.2	108	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6001187)											
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	0.5 mg/L	100	----	88.9	119	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6004355)											
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	----	----	----	----	----	----	----
EP: Aggregate Organics (QC Lot: 5980865)											
EP030: Biochemical Oxygen Demand	----	----	mg/L	----	198 mg/L	94.7	----	77.6	118	----	----
EP: Aggregate Organics (QC Lot: 5998624)											

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EP: Aggregate Organics (QC Lot: 5998624) - Continued											
EP005: Total Organic Carbon	----	1	mg/L	<1	5 mg/L	108	----	81.7	124	----	----
				<1	100 mg/L	106	----	84.8	114	----	----
EP: Aggregate Organics (QC Lot: 5999667)											
EP026C: Chemical Oxygen Demand	----	----	mg/L	----	25 mg/L	99.2	----	92.0	108	----	----
				----	250 mg/L	100	----	92.3	106	----	----
EP: Aggregate Organics (QC Lot: 6005908)											
EP020: Oil & Grease	----	2	mg/L	<2	20 mg/L	95.2	----	79.1	108	----	----
EG: Metals and Major Cations - Total (QC Lot: 5982299)											
EG032: Calcium	7440-70-2	50	µg/L	<50	2000 µg/L	101	----	85.0	115	----	----
EG032: Iron	7439-89-6	10	µg/L	<10	2000 µg/L	103	----	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	98.1	----	85.0	115	----	----
EG032: Sodium	7440-23-5	50	µg/L	<50	2000 µg/L	105	----	85.0	115	----	----
EG: Metals and Major Cations - Total (QC Lot: 5982300)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	5 µg/L	102	----	85.0	109	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	50 µg/L	104	----	90.0	111	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	50 µg/L	98.7	----	89.0	111	----	----
EG020: Manganese	7439-96-5	1	µg/L	<1	50 µg/L	104	----	85.0	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	50 µg/L	105	----	87.0	110	----	----
EG020: Zinc	7440-66-6	10	µg/L	<10	50 µg/L	103	----	86.0	114	----	----

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

Matrix: **WATER**

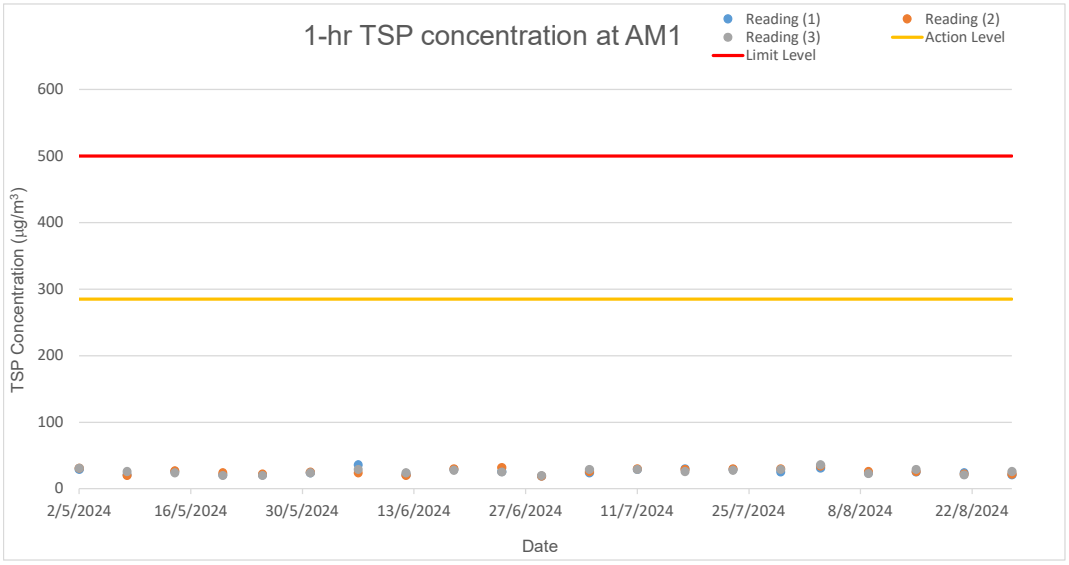
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5982250)										
HK2432219-001	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	120	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5982824)										
HK2432317-001	Anonymous	EK055K: Ammonia as N	7664-41-7	50 mg/L	99.6	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5985200)										
HK2432240-001	WM 1	ED041K: Sulphate as SO4 - Turbidimetric	----	5 mg/L	91.6	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5985201)										
HK2432240-001	WM 1	ED045K: Chloride	16887-00-6	5 mg/L	86.9	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6001187)										
HK2432240-001	WM 1	EK061A: Total Kjeldahl Nitrogen as N	----	0.5 mg/L	113	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5998624)										
HK2432219-002	Anonymous	EP005: Total Organic Carbon	----	25 mg/L	116	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5999667)										
HK2431918-001	Anonymous	EP026C: Chemical Oxygen Demand	----	10 mg/L	94.0	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5982299)										
HK2432240-001	WM 1	EG032: Calcium	7440-70-2	2000 µg/L	103	----	75.0	125	----	----
		EG032: Iron	7439-89-6	2000 µg/L	101	----	75.0	125	----	----
		EG032: Magnesium	7439-95-4	2000 µg/L	104	----	75.0	125	----	----
		EG032: Potassium	7440-09-7	2000 µg/L	98.2	----	75.0	125	----	----
		EG032: Sodium	7440-23-5	2000 µg/L	116	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5982300)										
HK2432240-001	WM 1	EG020: Cadmium	7440-43-9	5 µg/L	106	----	75.0	125	----	----
		EG020: Copper	7440-50-8	50 µg/L	104	----	75.0	125	----	----
		EG020: Lead	7439-92-1	50 µg/L	103	----	75.0	125	----	----
		EG020: Manganese	7439-96-5	50 µg/L	109	----	75.0	125	----	----
		EG020: Nickel	7440-02-0	50 µg/L	103	----	75.0	125	----	----

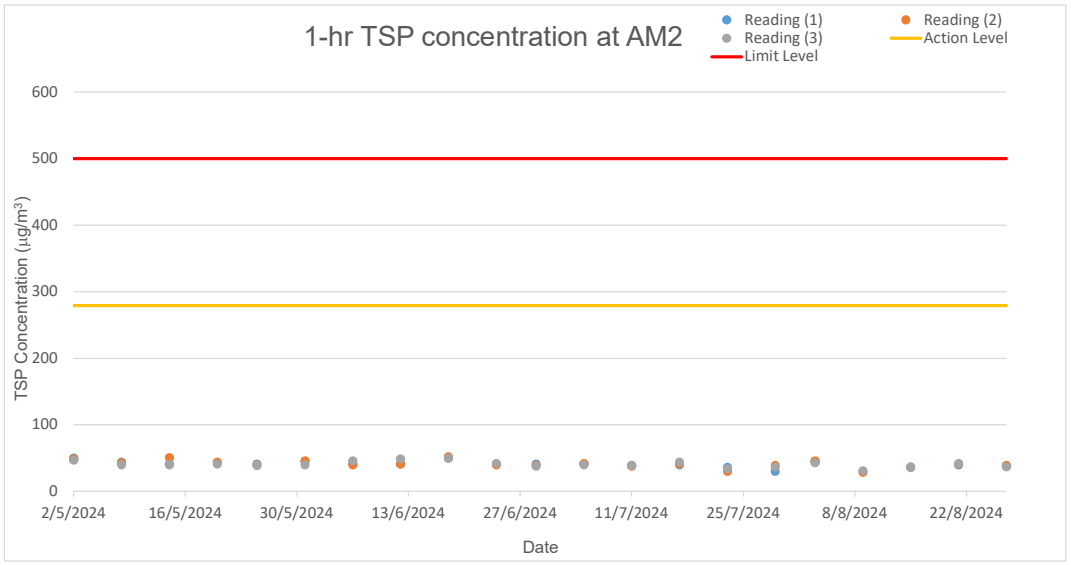
Matrix: **WATER**

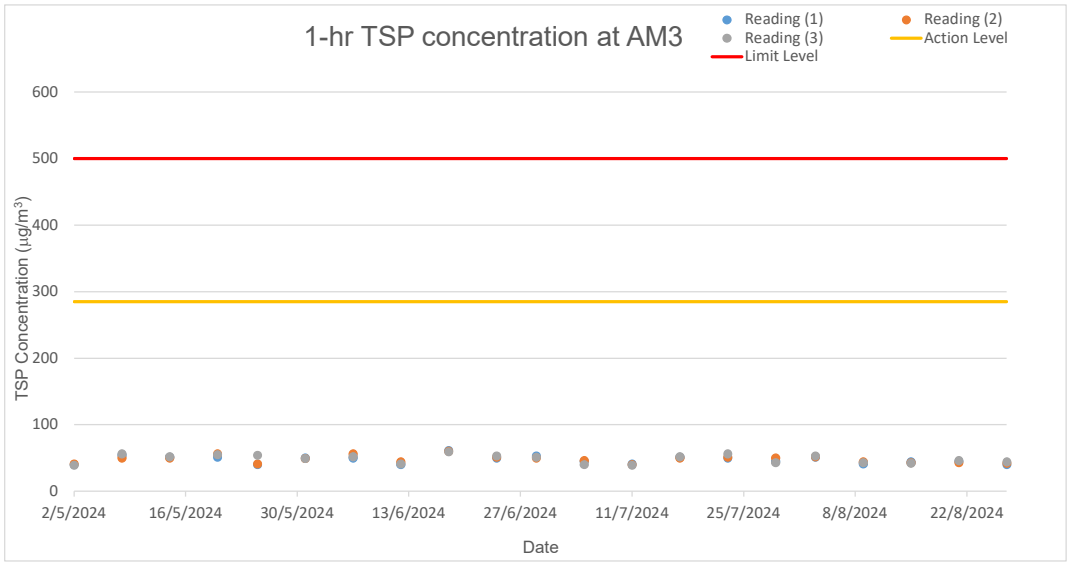
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations - Total (QC Lot: 5982300) - Continued										
HK2432240-001	WM 1	**EG020: Zinc**	7440-66-6	50 µg/L	108	----	75.0	125	----	----

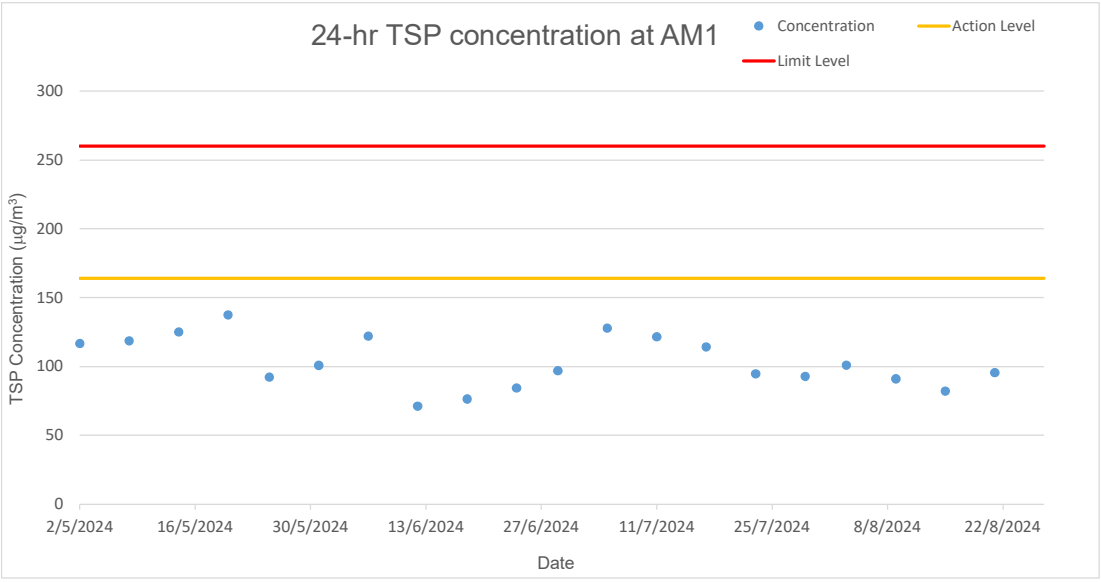
Appendix G Graphical Presentations

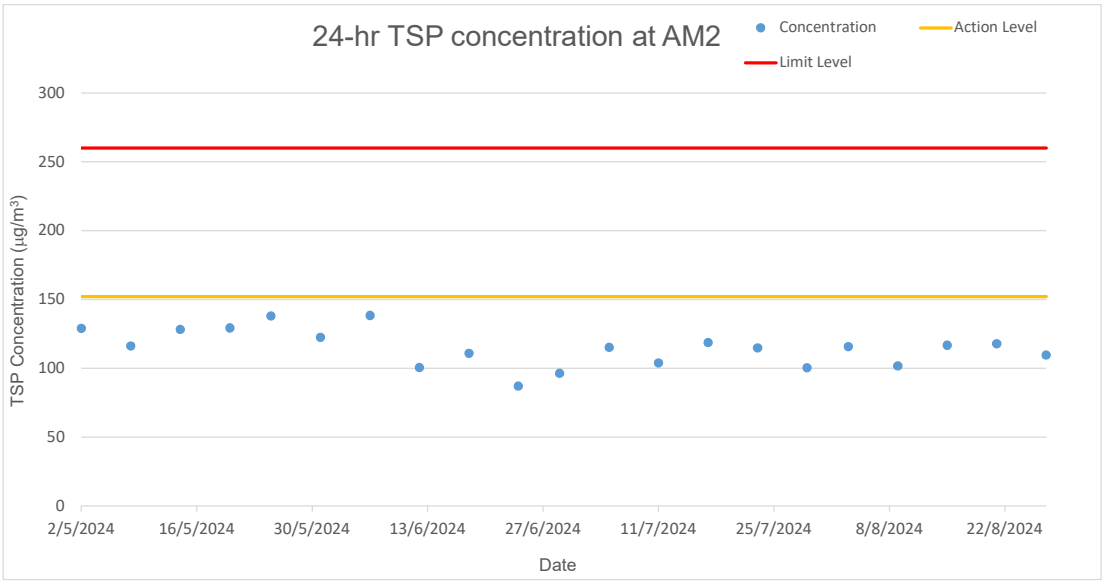
Air Quality

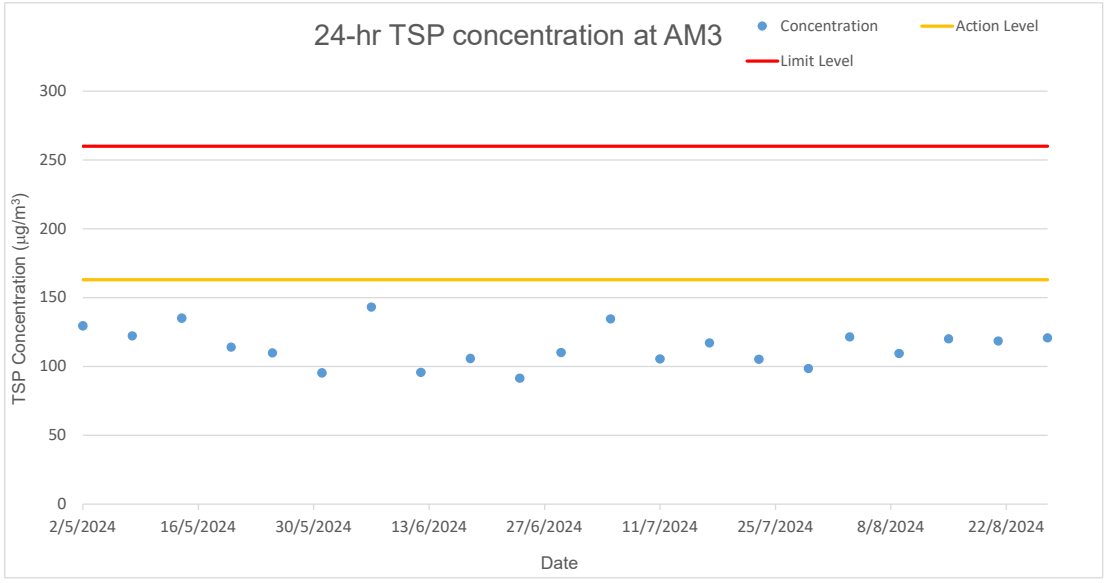

1-hr TSP concentration at AM1
Reading (1)
Reading (2)
Reading (3)
Action Level
Limit Level
TSP Concentration (µg/m³)
600
500
400
300
200
100
0
2/5/2024
16/5/2024
30/5/2024
13/6/2024
27/6/2024
11/7/2024
25/7/2024
8/8/2024
22/8/2024
Date


1-hr TSP concentration at AM2
Reading (1)
Reading (2)
Reading (3)
Action Level
Limit Level
TSP Concentration (µg/m³)
600
500
400
300
200
100
0
2/5/2024
16/5/2024
30/5/2024
13/6/2024
27/6/2024
11/7/2024
25/7/2024
8/8/2024
22/8/2024
Date

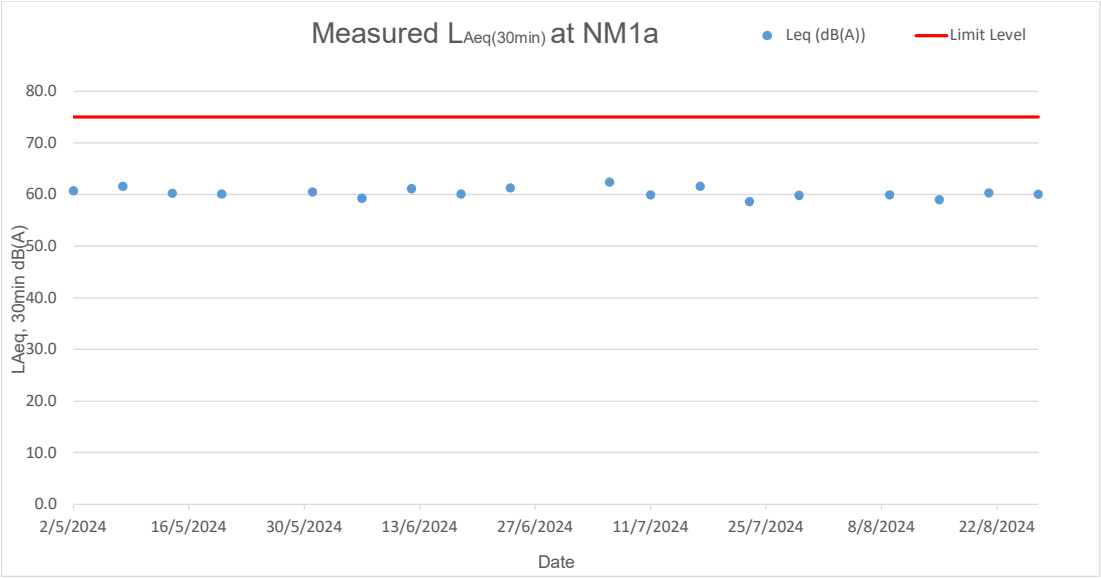

1-hr TSP concentration at AM3
Reading (1)
Reading (2)
Reading (3)
Action Level
Limit Level
TSP Concentration (µg/m³)
600
500
400
300
200
100
0
2/5/2024
16/5/2024
30/5/2024
13/6/2024
27/6/2024
11/7/2024
25/7/2024
8/8/2024
22/8/2024
Date

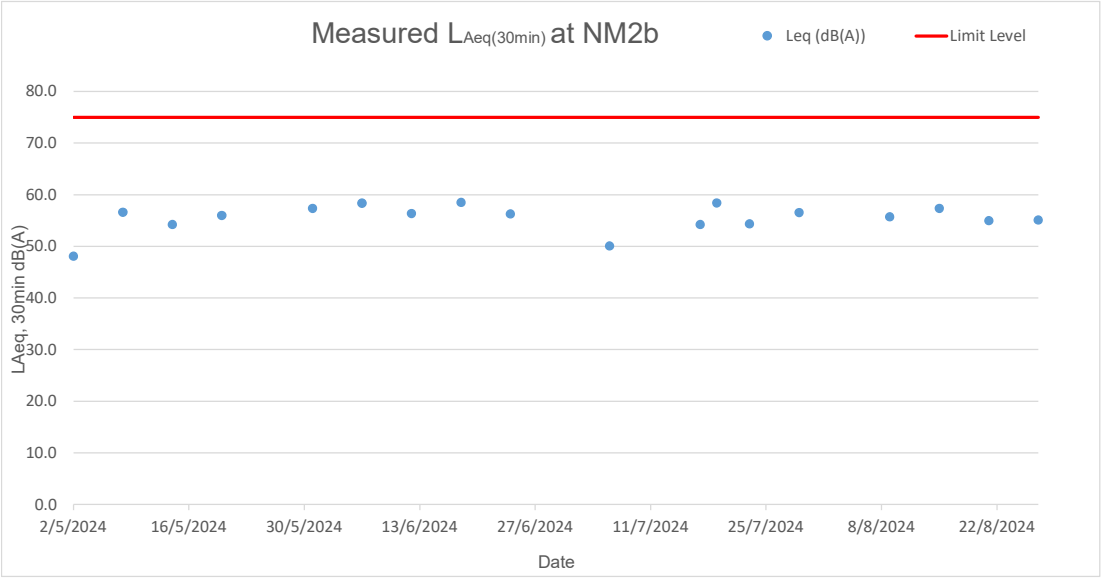

24-hr TSP concentration at AM1
Concentration
Action Level
Limit Level
TSP Concentration (μg/m³)
300
250
200
150
100
50
0
2/5/2024
16/5/2024
30/5/2024
13/6/2024
27/6/2024
11/7/2024
25/7/2024
8/8/2024
22/8/2024
Date


24-hr TSP concentration at AM2
Concentration
Action Level
Limit Level
TSP Concentration (μg/m³)
300
250
200
150
100
50
0
2/5/2024
16/5/2024
30/5/2024
13/6/2024
27/6/2024
11/7/2024
25/7/2024
8/8/2024
22/8/2024
Date


24-hr TSP concentration at AM3
Concentration
Action Level
Limit Level
TSP Concentration (μg/m³)
300
250
200
150
100
50
0
2/5/2024
16/5/2024
30/5/2024
13/6/2024
27/6/2024
11/7/2024
25/7/2024
8/8/2024
22/8/2024
Date

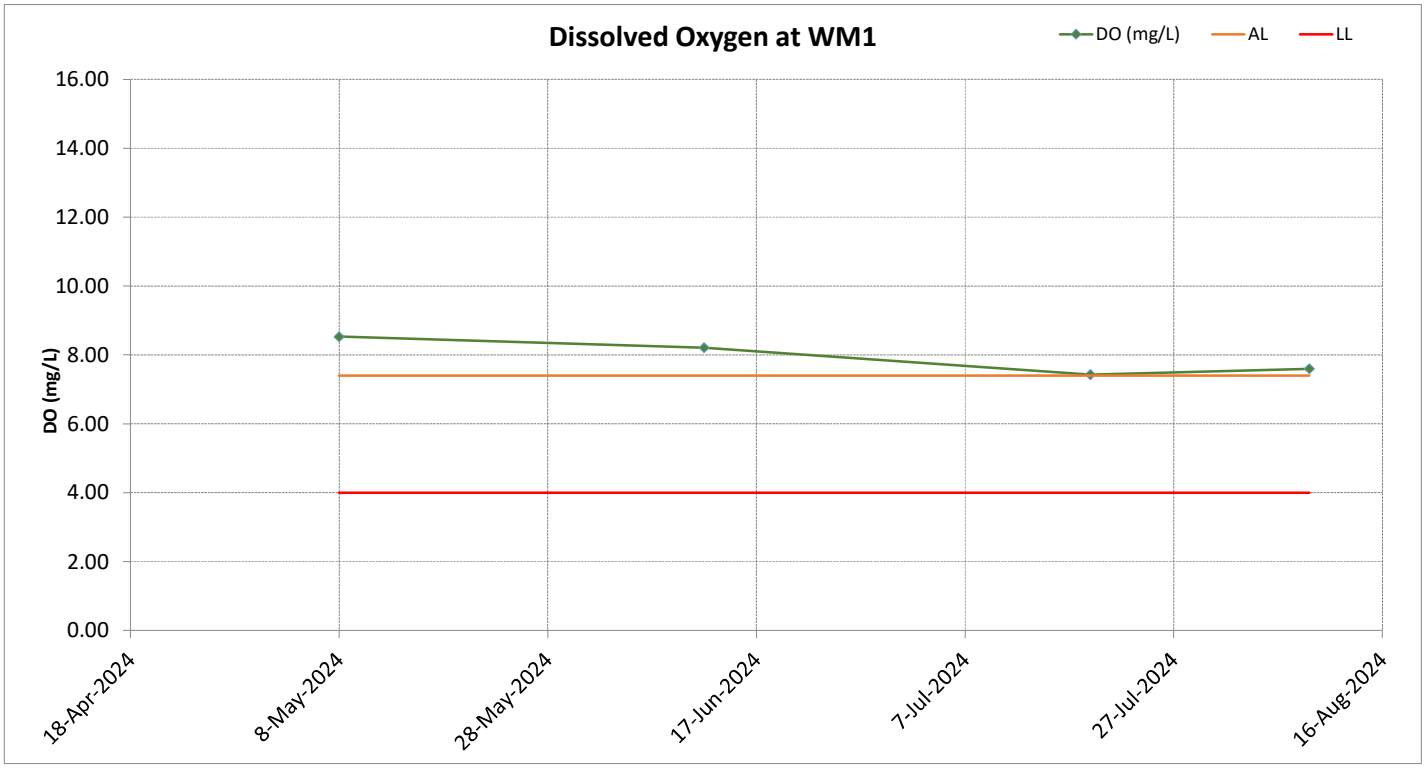
Noise

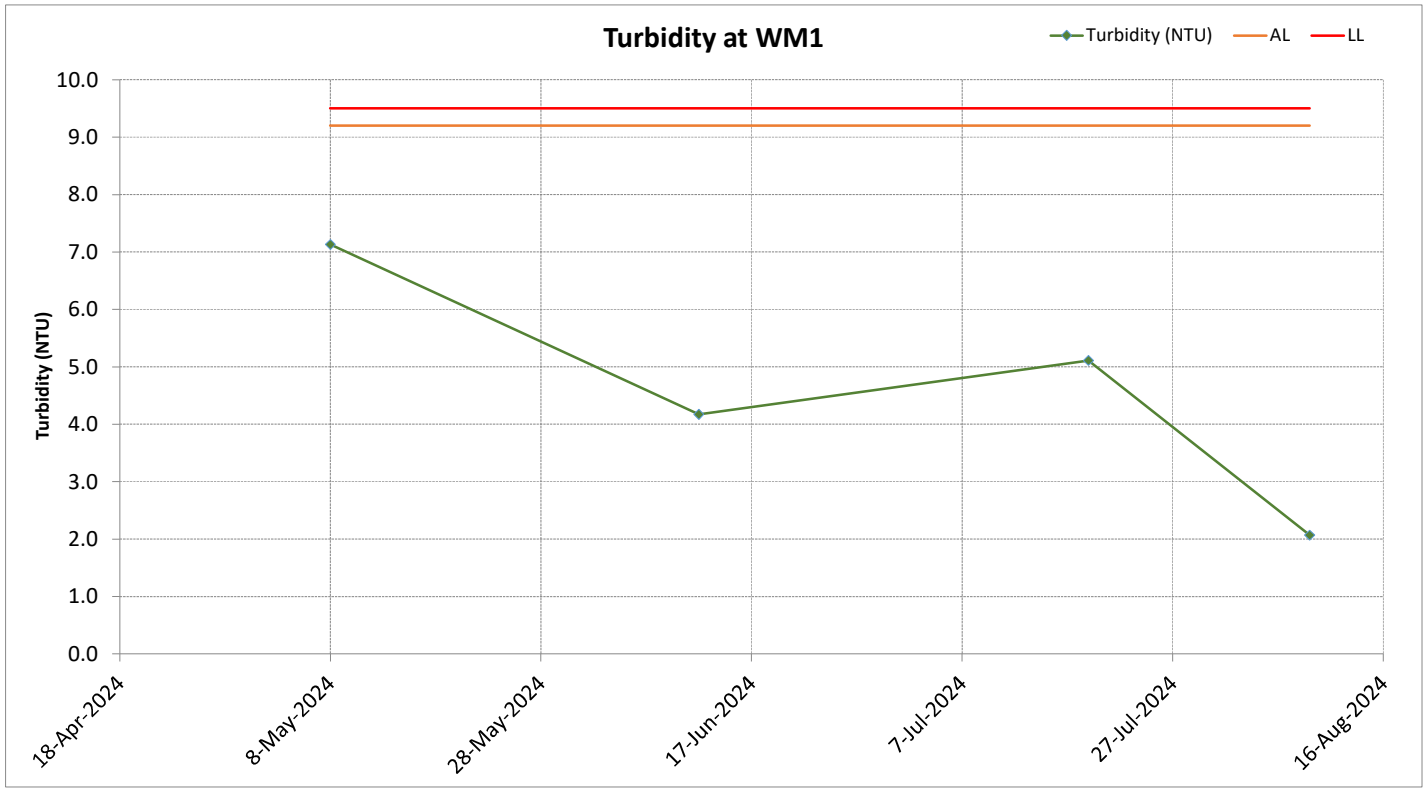

Measured LAeq(30min) at NM1a
Leq (dB(A))
Limit Level
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
LAeq, 30min dB(A)
2/5/2024
16/5/2024
30/5/2024
13/6/2024
27/6/2024
11/7/2024
25/7/2024
8/8/2024
22/8/2024
Date


Measured LAeq(30min) at NM2b
Leq (dB(A))
Limit Level
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
LAeq, 30min dB(A)
2/5/2024
16/5/2024
30/5/2024
13/6/2024
27/6/2024
11/7/2024
25/7/2024
8/8/2024
22/8/2024
Date

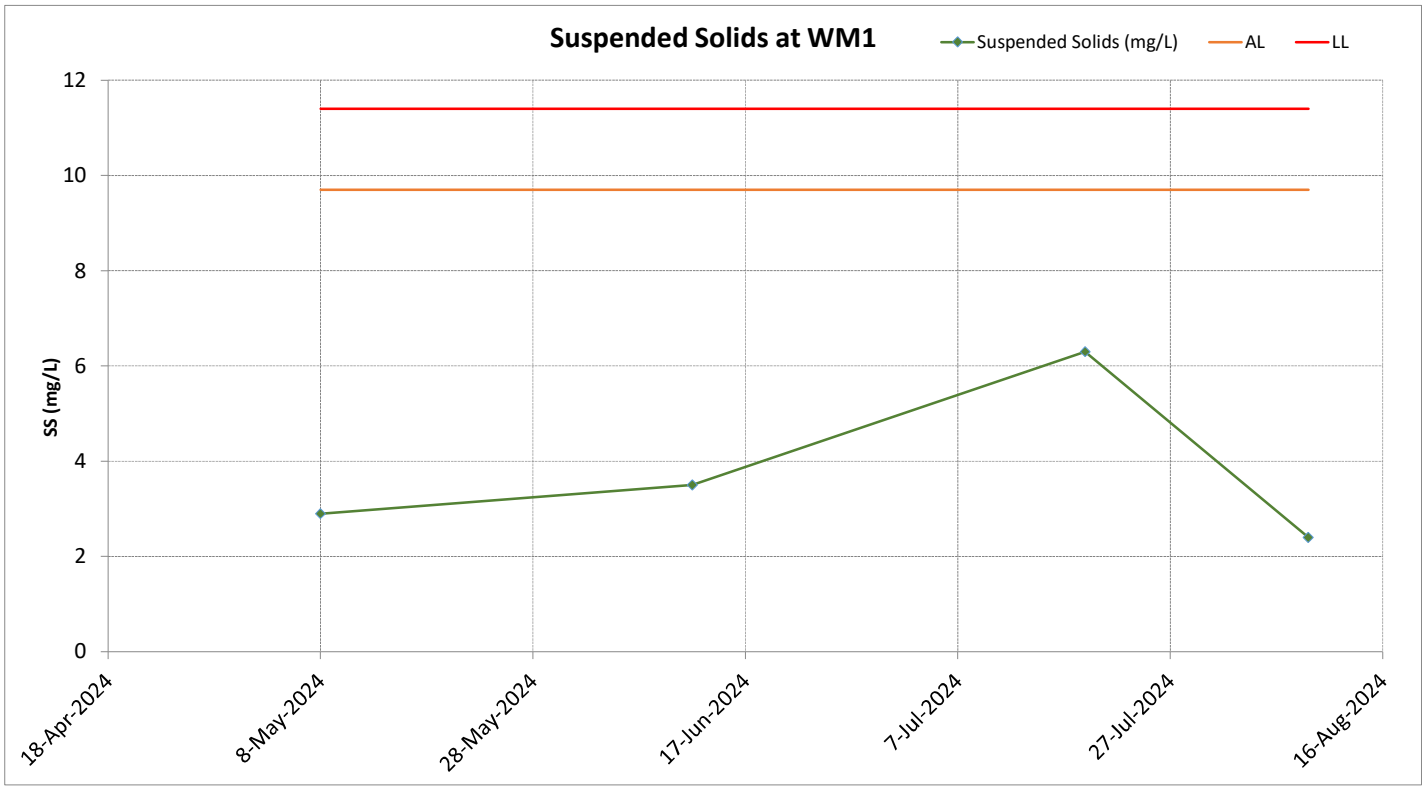
Water Quality

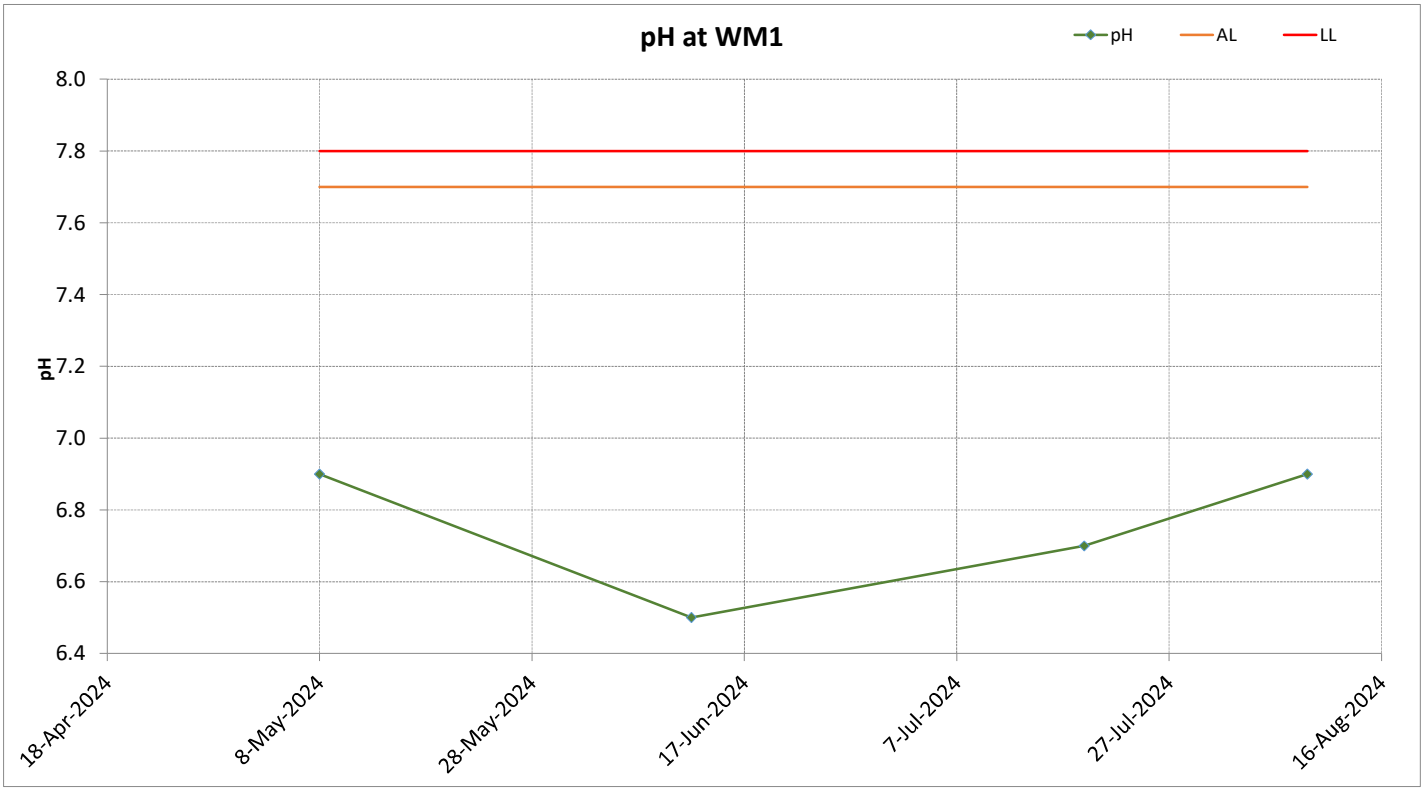
Surface Water Monitoring Results at WM1



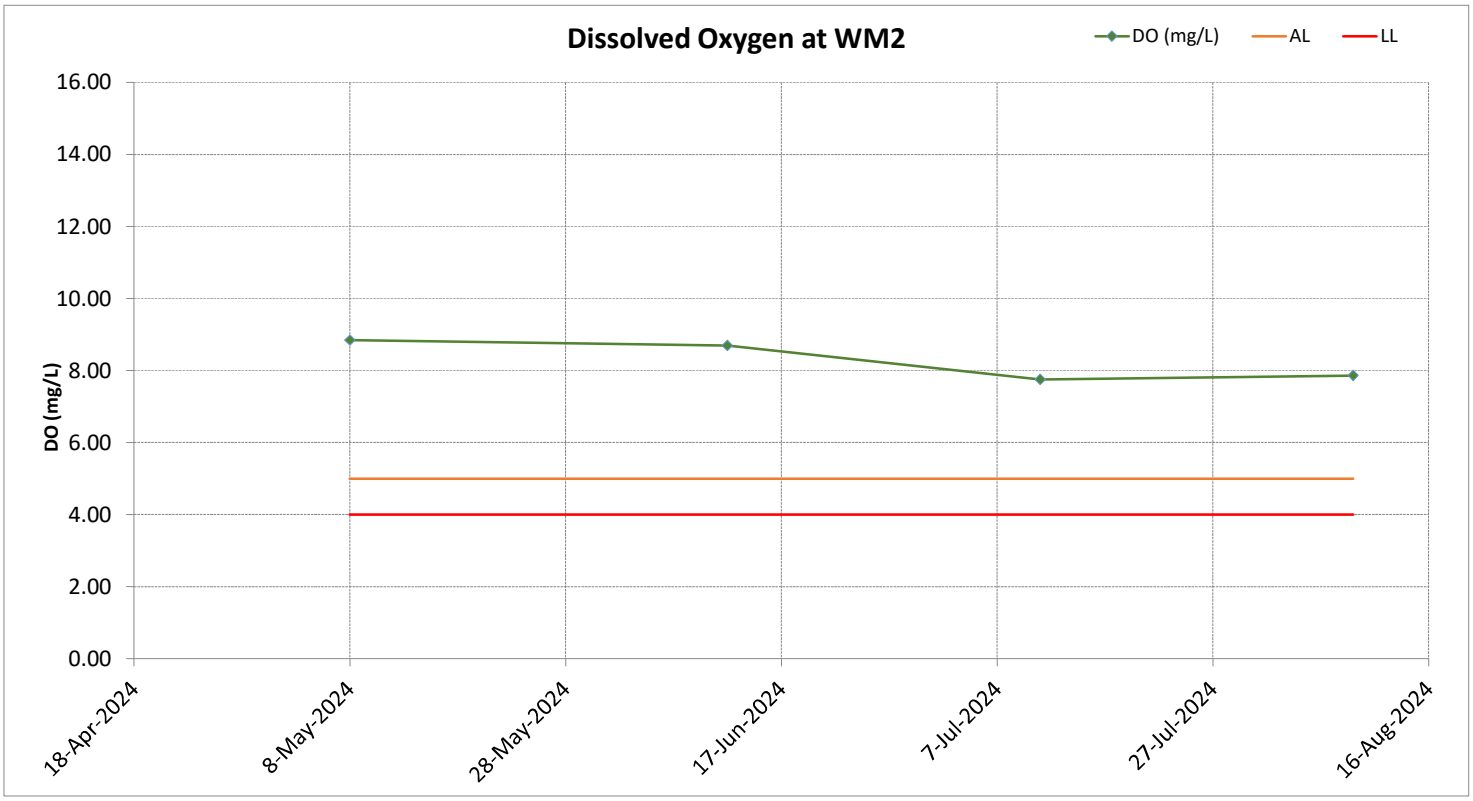


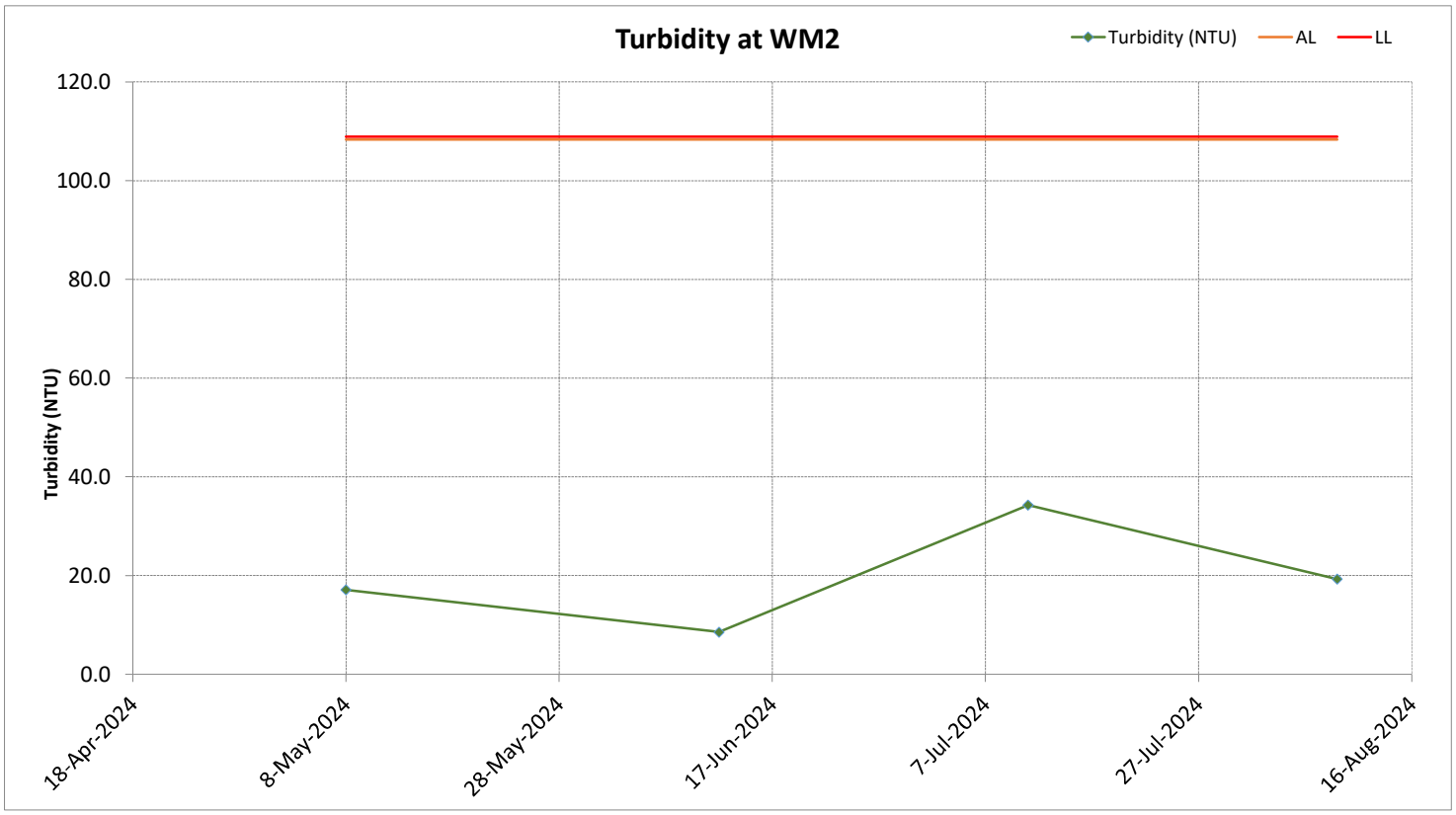
Surface Water Monitoring Results at WM1



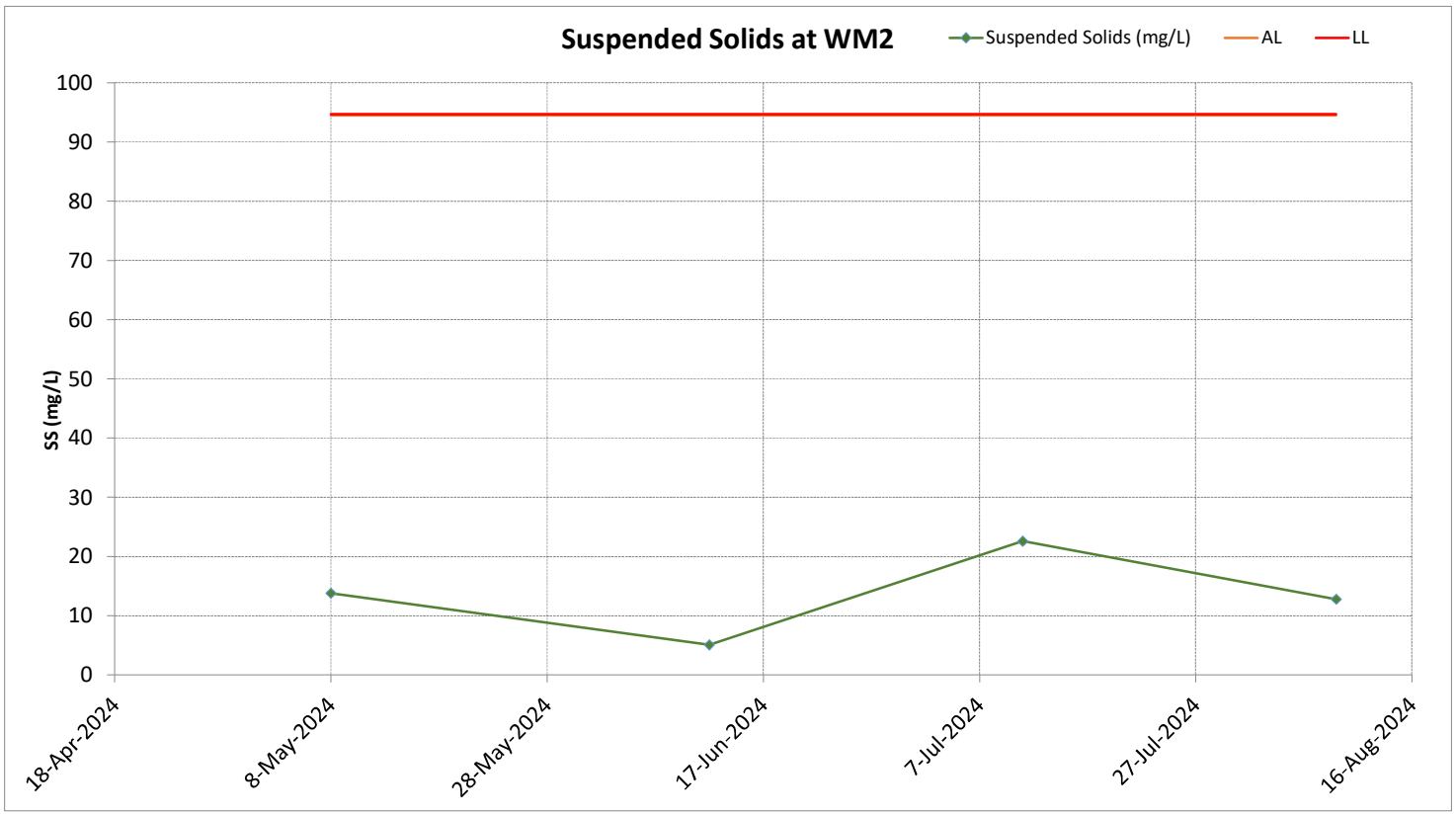


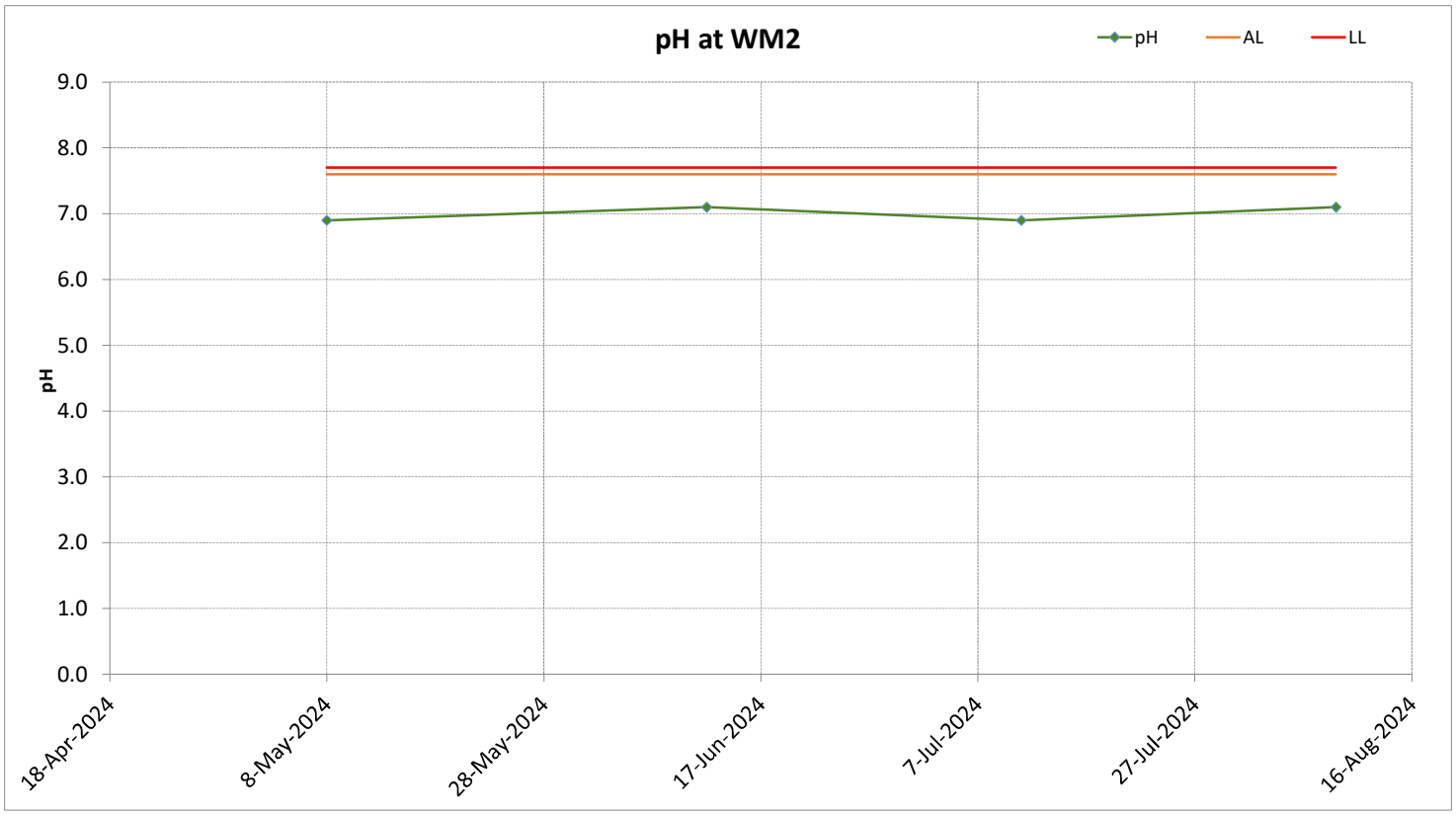
Surface Water Monitoring Results at WM2





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

LFG Monitoring Station	Level Exceedance	Exceedance Count											
		Reporting period						Accumulate project to date					
		Project related			Non-project replated			Project related			Non-project replated		
		CH_4	CO_2	O_2	CH_4	CO_2	O_2	CH_4	CO_2	O_2	CH_4	CO_2	O_2
Portion A +50 mpD to +70 mpD Platform	Action	0	0	0	0	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	0	0
Portion B2/E1	Action	0	0	0	0	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	0	0

Appendix I Wind Data

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240801_0003	0.1	51
20240801_0013	0.1	179
20240801_0023	0.1	97
20240801_0033	0.1	41
20240801_0043	0.1	132
20240801_0053	0.1	125
20240801_0103	0.1	218
20240801_0113	0.1	10
20240801_0123	0.1	128
20240801_0133	0.1	147
20240801_0143	0.1	222
20240801_0153	0.2	257
20240801_0203	0.1	45
20240801_0213	0.1	339
20240801_0223	0.1	72
20240801_0233	0.1	349
20240801_0243	0.1	271
20240801_0253	0.1	54
20240801_0303	0.1	52
20240801_0313	0.1	95
20240801_0323	0.1	84
20240801_0333	0.1	49
20240801_0343	0.1	49
20240801_0353	0.1	12
20240801_0403	0.1	141
20240801_0413	0.1	344
20240801_0423	0.1	62
20240801_0433	0.1	331
20240801_0443	0.1	50
20240801_0453	0.1	148
20240801_0503	0.1	148
20240801_0513	0.1	179
20240801_0523	0.1	179
20240801_0533	0.1	57
20240801_0543	0.1	166
20240801_0553	0.1	134
20240801_0603	0.1	285
20240801_0613	0.1	69
20240801_0623	0.1	74
20240801_0633	0.1	16
20240801_0643	0.1	33
20240801_0653	0.1	18
20240801_0703	0.1	44
20240801_0713	0.1	22
20240801_0723	0.1	51
20240801_0733	0.1	61
20240801_0743	0.1	61
20240801_0753	0.1	62
20240801_0803	0.1	64
20240801_0813	0.1	138
20240801_0823	0.1	139
20240801_0833	0.1	125
20240801_0843	0.1	282
20240801_0853	0.1	101
20240801_0903	0.1	103
20240801_0913	0.3	131
20240801_0923	0.1	246
20240801_0933	0.1	247
20240801_0943	0.1	135
20240801_0953	0.1	270
20240801_1003	0.2	125
20240801_1013	0.2	231
20240801_1023	0.9	86
20240801_1033	0.1	205
20240801_1043	3.6	229
20240801_1053	0.2	210
20240801_1103	0.1	235
20240801_1113	0.1	243
20240801_1123	0.1	199
20240801_1133	0.1	147
20240801_1143	0.1	178
20240801_1153	0.1	124

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240801_1203	1.1	179
20240801_1213	0.4	239
20240801_1223	0.1	335
20240801_1233	0.1	97
20240801_1243	0.8	272
20240801_1253	0.1	159
20240801_1303	0.2	87
20240801_1313	0.1	169
20240801_1323	0.4	267
20240801_1333	0.1	189
20240801_1343	0.1	298
20240801_1353	2.8	179
20240801_1403	0.1	99
20240801_1413	0.1	161
20240801_1423	0.1	240
20240801_1433	0.1	49
20240801_1443	2.1	286
20240801_1453	0.1	144
20240801_1503	1.3	141
20240801_1513	0.3	250
20240801_1523	0.2	217
20240801_1533	0.9	132
20240801_1543	0.1	79
20240801_1553	0.1	195
20240801_1603	0.1	180
20240801_1613	0.1	174
20240801_1623	0.1	123
20240801_1633	0.1	133
20240801_1643	0.3	276
20240801_1653	0.1	172
20240801_1703	0.1	239
20240801_1713	0.1	248
20240801_1723	0.1	152
20240801_1733	0.7	239
20240801_1743	0.1	194
20240801_1753	0.1	199
20240801_1803	0.1	175
20240801_1813	0.1	253
20240801_1823	0.1	242
20240801_1833	0.1	170
20240801_1843	0.1	133
20240801_1853	0.1	133
20240801_1903	0.1	157
20240801_1913	0.1	118
20240801_1923	0.1	335
20240801_1933	0.1	140
20240801_1943	0.1	288
20240801_1953	0.1	116
20240801_2003	0.1	231
20240801_2013	0.1	136
20240801_2023	0.1	150
20240801_2033	0.1	136
20240801_2043	0.1	41
20240801_2053	0.1	18
20240801_2103	0.1	14
20240801_2113	0.1	342
20240801_2123	0.1	102
20240801_2133	0.1	66
20240801_2143	0.1	64
20240801_2153	0.1	56
20240801_2203	0.1	164
20240801_2213	0.1	114
20240801_2223	0.1	44
20240801_2233	0.1	53
20240801_2243	0.1	131
20240801_2253	0.1	265
20240801_2303	0.1	69
20240801_2313	0.1	5
20240801_2323	0.1	87
20240801_2333	0.1	50
20240801_2343	0.1	86
20240801_2353	0.1	44

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240802_0003	0.1	71
20240802_0013	0.1	117
20240802_0023	0.1	74
20240802_0033	0.1	62
20240802_0043	0.1	37
20240802_0053	0.1	110
20240802_0103	0.1	79
20240802_0113	0.1	138
20240802_0123	0.1	84
20240802_0133	0.1	73
20240802_0143	0.1	61
20240802_0153	0.1	78
20240802_0203	0.1	83
20240802_0213	0.1	173
20240802_0223	0.1	40
20240802_0233	0.1	66
20240802_0243	0.1	67
20240802_0253	0.1	120
20240802_0303	0.1	69
20240802_0313	0.1	70
20240802_0323	0.1	61
20240802_0333	0.1	102
20240802_0343	0.1	93
20240802_0353	0.1	83
20240802_0403	0.1	142
20240802_0413	0.1	123
20240802_0423	0.1	130
20240802_0433	0.1	172
20240802_0443	0.1	327
20240802_0453	0.1	58
20240802_0503	0.1	68
20240802_0513	0.1	33
20240802_0523	0.1	58
20240802_0533	0.1	117
20240802_0543	0.1	47
20240802_0553	0.1	143
20240802_0603	0.1	54
20240802_0613	0.1	73
20240802_0623	0.1	126
20240802_0633	0.1	345
20240802_0643	0.1	195
20240802_0653	0.1	295
20240802_0703	1.2	154
20240802_0713	0.1	282
20240802_0723	0.1	195
20240802_0733	0.1	136
20240802_0743	0.1	216
20240802_0753	0.1	60
20240802_0803	0.1	82
20240802_0813	0.5	44
20240802_0823	0.1	125
20240802_0833	0.1	156
20240802_0843	1.1	152
20240802_0853	0.1	104
20240802_0903	0.1	266
20240802_0913	0.1	147
20240802_0923	0.5	243
20240802_0933	0.1	179
20240802_0943	0.1	160
20240802_0953	2.5	106
20240802_1003	0.2	248
20240802_1013	0.2	211
20240802_1023	0.1	267
20240802_1033	0.2	132
20240802_1043	0.9	232
20240802_1053	0.1	296
20240802_1103	0.1	157
20240802_1113	0.1	178
20240802_1123	0.1	172
20240802_1133	0.1	159
20240802_1143	1.7	243
20240802_1153	0.2	133

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240802_1203	0.2	142
20240802_1213	0.1	116
20240802_1223	0.1	205
20240802_1233	0.1	220
20240802_1243	0.2	228
20240802_1253	0.1	270
20240802_1303	0.1	278
20240802_1313	0.1	140
20240802_1323	0.1	314
20240802_1333	0.1	178
20240802_1343	0.1	247
20240802_1353	0.1	144
20240802_1403	0.1	150
20240802_1413	0.1	166
20240802_1423	0.1	291
20240802_1433	0.1	2
20240802_1443	0.1	71
20240802_1453	0.1	237
20240802_1503	0.1	221
20240802_1513	0.1	269
20240802_1523	0.4	261
20240802_1533	0.1	281
20240802_1543	0.1	229
20240802_1553	1.3	246
20240802_1603	0.1	153
20240802_1613	0.3	252
20240802_1623	0.1	197
20240802_1633	0.1	230
20240802_1643	0.2	191
20240802_1653	0.1	150
20240802_1703	0.1	252
20240802_1713	0.1	241
20240802_1723	0.1	255
20240802_1733	0.3	218
20240802_1743	0.5	120
20240802_1753	0.1	154
20240802_1803	0.1	350
20240802_1813	0.1	250
20240802_1823	0.1	294
20240802_1833	0.1	190
20240802_1843	0.1	167
20240802_1853	0.1	131
20240802_1903	0.1	130
20240802_1913	0.1	286
20240802_1923	0.1	350
20240802_1933	0.1	275
20240802_1943	0.1	130
20240802_1953	0.1	345
20240802_2003	0.1	295
20240802_2013	0.1	37
20240802_2023	0.1	73
20240802_2033	0.1	347
20240802_2043	0.1	97
20240802_2053	0.1	97
20240802_2103	0.1	83
20240802_2113	0.1	70
20240802_2123	0.1	70
20240802_2133	0.1	59
20240802_2143	0.1	53
20240802_2153	0.1	40
20240802_2203	0.1	340
20240802_2213	0.1	50
20240802_2223	0.1	51
20240802_2233	0.1	75
20240802_2243	0.1	54
20240802_2253	0.1	14
20240802_2303	0.1	54
20240802_2313	0.1	46
20240802_2323	0.1	92
20240802_2333	0.1	55
20240802_2343	0.1	50
20240802_2353	0.1	138

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240803_0003	0.1	103
20240803_0013	0.1	61
20240803_0023	0.1	91
20240803_0033	0.1	42
20240803_0043	0.1	154
20240803_0053	0.1	263
20240803_0103	0.1	35
20240803_0113	0.1	48
20240803_0123	0.1	48
20240803_0133	0.1	48
20240803_0143	0.1	48
20240803_0153	0.1	48
20240803_0203	0.1	51
20240803_0213	0.1	58
20240803_0223	0.1	30
20240803_0233	0.1	35
20240803_0243	0.1	53
20240803_0253	0.1	10
20240803_0303	0.1	46
20240803_0313	0.1	21
20240803_0323	0.1	33
20240803_0333	0.1	58
20240803_0343	0.1	59
20240803_0353	0.1	70
20240803_0403	0.1	63
20240803_0413	0.1	63
20240803_0423	0.1	24
20240803_0433	0.1	58
20240803_0443	0.1	61
20240803_0453	0.1	39
20240803_0503	0.1	2
20240803_0513	0.1	41
20240803_0523	0.1	41
20240803_0533	0.1	3
20240803_0543	0.1	58
20240803_0553	0.1	64
20240803_0603	0.1	61
20240803_0613	0.1	48
20240803_0623	0.1	48
20240803_0633	0.1	7
20240803_0643	0.1	46
20240803_0653	0.1	55
20240803_0703	0.1	95
20240803_0713	0.1	96
20240803_0723	0.1	96
20240803_0733	0.1	99
20240803_0743	0.1	120
20240803_0753	0.1	127
20240803_0803	0.1	117
20240803_0813	0.1	152
20240803_0823	0.1	79
20240803_0833	0.1	121
20240803_0843	0.1	200
20240803_0853	0.1	188
20240803_0903	0.1	244
20240803_0913	0.1	40
20240803_0923	1.4	126
20240803_0933	0.1	239
20240803_0943	0.1	157
20240803_0953	0.7	145
20240803_1003	0.1	171
20240803_1013	1	293
20240803_1023	0.1	210
20240803_1033	0.1	153
20240803_1043	0.3	315
20240803_1053	0.1	136
20240803_1103	0.1	250
20240803_1113	0.1	187
20240803_1123	0.1	224
20240803_1133	0.1	124
20240803_1143	0.1	114
20240803_1153	0.6	135

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240803_1203	0.2	186
20240803_1213	0.1	196
20240803_1223	0.4	149
20240803_1233	0.1	109
20240803_1243	0.1	212
20240803_1253	0.3	295
20240803_1303	0.1	216
20240803_1313	0.1	305
20240803_1323	0.4	162
20240803_1333	0.1	84
20240803_1343	0.5	246
20240803_1353	0.1	295
20240803_1403	1.7	264
20240803_1413	0.1	229
20240803_1423	0.1	179
20240803_1433	0.1	185
20240803_1443	1.8	143
20240803_1453	0.5	332
20240803_1503	0.3	152
20240803_1513	0.1	242
20240803_1523	0.2	249
20240803_1533	0.1	347
20240803_1543	0.1	239
20240803_1553	0.1	163
20240803_1603	0.1	243
20240803_1613	0.1	121
20240803_1623	0.1	232
20240803_1633	0.1	187
20240803_1643	0.1	235
20240803_1653	0.3	132
20240803_1703	0.1	149
20240803_1713	0.1	166
20240803_1723	0.1	218
20240803_1733	0.1	242
20240803_1743	0.3	248
20240803_1753	0.1	240
20240803_1803	0.1	242
20240803_1813	0.1	238
20240803_1823	0.1	181
20240803_1833	0.1	154
20240803_1843	0.1	128
20240803_1853	0.1	128
20240803_1903	0.1	128
20240803_1913	0.1	123
20240803_1923	0.1	69
20240803_1933	0.1	69
20240803_1943	0.1	69
20240803_1953	0.1	62
20240803_2003	0.1	57
20240803_2013	0.1	54
20240803_2023	0.1	63
20240803_2033	0.1	70
20240803_2043	0.1	63
20240803_2053	0.1	62
20240803_2103	0.1	60
20240803_2113	0.1	57
20240803_2123	0.1	52
20240803_2133	0.1	54
20240803_2143	0.1	57
20240803_2153	0.1	50
20240803_2203	0.1	57
20240803_2213	0.1	61
20240803_2223	0.2	154
20240803_2233	0.1	42
20240803_2243	0.1	50
20240803_2253	0.1	36
20240803_2303	0.1	57
20240803_2313	0.1	74
20240803_2323	0.1	72
20240803_2333	0.1	59
20240803_2343	0.1	57
20240803_2353	0.1	57

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240804_0003	0.1	8
20240804_0013	0.1	47
20240804_0023	0.1	347
20240804_0033	0.1	2
20240804_0043	0.1	47
20240804_0053	0.1	49
20240804_0103	0.1	50
20240804_0113	0.1	50
20240804_0123	0.1	41
20240804_0133	0.1	41
20240804_0143	0.1	56
20240804_0153	0.1	58
20240804_0203	0.1	72
20240804_0213	0.1	43
20240804_0223	0.1	54
20240804_0233	0.1	64
20240804_0243	0.1	74
20240804_0253	0.1	57
20240804_0303	0.1	57
20240804_0313	0.1	44
20240804_0323	0.1	44
20240804_0333	0.1	45
20240804_0343	0.1	41
20240804_0353	0.1	41
20240804_0403	0.1	51
20240804_0413	0.1	51
20240804_0423	0.1	51
20240804_0433	0.1	51
20240804_0443	0.1	51
20240804_0453	0.1	51
20240804_0503	0.1	51
20240804_0513	0.1	51
20240804_0523	0.1	9
20240804_0533	0.1	58
20240804_0543	0.1	58
20240804_0553	0.1	58
20240804_0603	0.1	57
20240804_0613	0.1	57
20240804_0623	0.1	56
20240804_0633	0.1	56
20240804_0643	0.1	57
20240804_0653	0.1	57
20240804_0703	0.1	57
20240804_0713	0.1	57
20240804_0723	0.1	122
20240804_0733	0.1	128
20240804_0743	0.1	124
20240804_0753	0.1	201
20240804_0803	0.1	122
20240804_0813	0.1	126
20240804_0823	0.2	154
20240804_0833	0.1	281
20240804_0843	1.3	147
20240804_0853	0.1	109
20240804_0903	0.4	107
20240804_0913	0.1	218
20240804_0923	2.5	155
20240804_0933	0.7	235
20240804_0943	0.1	241
20240804_0953	1	294
20240804_1003	0.4	230
20240804_1013	0.1	251
20240804_1023	0.1	160
20240804_1033	0.1	195
20240804_1043	0.1	127
20240804_1053	0.1	219
20240804_1103	0.1	226
20240804_1113	0.7	152
20240804_1123	0.1	275
20240804_1133	0.2	277
20240804_1143	1.8	147
20240804_1153	0.1	216

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240804_1203	0.1	190
20240804_1213	0.8	130
20240804_1223	0.1	128
20240804_1233	0.7	232
20240804_1243	0.2	81
20240804_1253	0.1	200
20240804_1303	1.5	144
20240804_1313	0.4	314
20240804_1323	0.1	272
20240804_1333	0.8	190
20240804_1343	0.1	162
20240804_1353	0.1	207
20240804_1403	0.1	122
20240804_1413	0.1	227
20240804_1423	0.2	246
20240804_1433	0.1	251
20240804_1443	0.1	151
20240804_1453	0.3	226
20240804_1503	0.1	131
20240804_1513	0.2	138
20240804_1523	0.1	88
20240804_1533	0.1	162
20240804_1543	0.2	237
20240804_1553	0.2	265
20240804_1603	0.2	242
20240804_1613	0.2	131
20240804_1623	0.3	249
20240804_1633	0.1	201
20240804_1643	0.1	150
20240804_1653	0.1	152
20240804_1703	0.2	233
20240804_1713	0.1	145
20240804_1723	0.1	147
20240804_1733	0.5	137
20240804_1743	0.1	134
20240804_1753	0.1	158
20240804_1803	0.1	159
20240804_1813	0.1	41
20240804_1823	0.1	155
20240804_1833	0.1	142
20240804_1843	0.1	118
20240804_1853	0.1	148
20240804_1903	0.1	125
20240804_1913	0.1	122
20240804_1923	0.1	56
20240804_1933	0.1	56
20240804_1943	0.1	133
20240804_1953	0.1	53
20240804_2003	0.1	45
20240804_2013	0.1	42
20240804_2023	0.1	41
20240804_2033	0.1	42
20240804_2043	0.1	88
20240804_2053	0.1	88
20240804_2103	0.1	41
20240804_2113	0.1	53
20240804_2123	0.1	59
20240804_2133	0.1	61
20240804_2143	0.1	61
20240804_2153	0.1	61
20240804_2203	0.1	60
20240804_2213	0.1	48
20240804_2223	0.1	62
20240804_2233	0.1	62
20240804_2243	0.1	62
20240804_2253	0.1	60
20240804_2303	0.1	60
20240804_2313	0.1	60
20240804_2323	0.1	60
20240804_2333	0.1	55
20240804_2343	0.1	55
20240804_2353	0.1	55

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240805_0003	0.1	39
20240805_0013	0.1	49
20240805_0023	0.1	53
20240805_0033	0.1	54
20240805_0043	0.1	54
20240805_0053	0.1	54
20240805_0103	0.1	49
20240805_0113	0.1	49
20240805_0123	0.1	49
20240805_0133	0.1	49
20240805_0143	0.1	49
20240805_0153	0.1	49
20240805_0203	0.1	49
20240805_0213	0.1	49
20240805_0223	0.1	49
20240805_0233	0.1	50
20240805_0243	0.1	50
20240805_0253	0.1	47
20240805_0303	0.1	53
20240805_0313	0.1	54
20240805_0323	0.1	53
20240805_0333	0.1	53
20240805_0343	0.1	46
20240805_0353	0.1	52
20240805_0403	0.1	51
20240805_0413	0.1	51
20240805_0423	0.1	51
20240805_0433	0.1	51
20240805_0443	0.1	52
20240805_0453	0.1	52
20240805_0503	0.1	52
20240805_0513	0.1	51
20240805_0523	0.1	61
20240805_0533	0.1	61
20240805_0543	0.1	61
20240805_0553	0.1	55
20240805_0603	0.1	55
20240805_0613	0.1	54
20240805_0623	0.1	36
20240805_0633	0.1	36
20240805_0643	0.1	47
20240805_0653	0.1	100
20240805_0703	0.1	153
20240805_0713	0.1	146
20240805_0723	0.1	95
20240805_0733	0.1	149
20240805_0743	0.1	142
20240805_0753	0.2	150
20240805_0803	0.5	165
20240805_0813	0.1	111
20240805_0823	0.1	132
20240805_0833	0.1	153
20240805_0843	0.9	153
20240805_0853	1.5	155
20240805_0903	0.5	142
20240805_0913	0.1	151
20240805_0923	0.2	235
20240805_0933	0.1	96
20240805_0943	0.9	134
20240805_0953	0.1	119
20240805_1003	1	127
20240805_1013	0.1	121
20240805_1023	0.2	58
20240805_1033	0.1	216
20240805_1043	0.1	107
20240805_1053	0.1	8
20240805_1103	0.5	226
20240805_1113	0.1	236
20240805_1123	0.1	322
20240805_1133	0.1	225
20240805_1143	0.2	257
20240805_1153	0.1	24

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240805_1203	0.1	208
20240805_1213	0.1	143
20240805_1223	0.1	352
20240805_1233	0.1	74
20240805_1243	0.1	179
20240805_1253	0.1	234
20240805_1303	0.1	215
20240805_1313	0.1	153
20240805_1323	0.1	168
20240805_1333	0.1	177
20240805_1343	0.1	192
20240805_1353	0.1	231
20240805_1403	0.1	146
20240805_1413	0.1	151
20240805_1423	0.1	46
20240805_1433	0.1	341
20240805_1443	0.1	329
20240805_1453	0.1	81
20240805_1503	0.5	147
20240805_1513	0.9	147
20240805_1523	0.1	62
20240805_1533	0.1	93
20240805_1543	0.1	174
20240805_1553	0.1	81
20240805_1603	0.1	90
20240805_1613	0.7	49
20240805_1623	0.1	20
20240805_1633	0.1	81
20240805_1643	0.1	331
20240805_1653	0.1	79
20240805_1703	0.2	157
20240805_1713	0.1	117
20240805_1723	0.1	132
20240805_1733	0.1	154
20240805_1743	0.1	130
20240805_1753	0.1	163
20240805_1803	0.1	9
20240805_1813	1.4	117
20240805_1823	0.1	346
20240805_1833	0.1	140
20240805_1843	0.1	149
20240805_1853	0.1	326
20240805_1903	0.1	279
20240805_1913	0.1	188
20240805_1923	0.1	104
20240805_1933	0.1	9
20240805_1943	0.1	106
20240805_1953	0.1	106
20240805_2003	0.1	140
20240805_2013	0.1	145
20240805_2023	0.1	153
20240805_2033	0.1	107
20240805_2043	0.1	185
20240805_2053	0.1	185
20240805_2103	0.2	116
20240805_2113	0.1	109
20240805_2123	1.4	141
20240805_2133	0.1	33
20240805_2143	0.1	114
20240805_2153	0.1	320
20240805_2203	1.3	124
20240805_2213	0.1	55
20240805_2223	2.5	102
20240805_2233	0.1	74
20240805_2243	0.1	56
20240805_2253	0.1	96
20240805_2303	0.1	43
20240805_2313	0.1	126
20240805_2323	0.1	176
20240805_2333	0.1	68
20240805_2343	0.1	303
20240805_2353	0.1	152

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240806_0003	0.1	57
20240806_0013	0.1	57
20240806_0023	0.1	52
20240806_0033	0.1	38
20240806_0043	0.1	157
20240806_0053	0.1	157
20240806_0103	0.1	157
20240806_0113	0.1	156
20240806_0123	0.1	130
20240806_0133	0.1	231
20240806_0143	0.1	166
20240806_0153	0.1	88
20240806_0203	0.1	89
20240806_0213	0.1	89
20240806_0223	0.1	89
20240806_0233	0.1	77
20240806_0243	0.1	65
20240806_0253	0.1	65
20240806_0303	0.1	50
20240806_0313	0.1	50
20240806_0323	0.1	50
20240806_0333	0.1	52
20240806_0343	0.1	52
20240806_0353	0.1	55
20240806_0403	0.1	57
20240806_0413	0.1	57
20240806_0423	0.1	57
20240806_0433	0.1	62
20240806_0443	0.1	49
20240806_0453	0.1	50
20240806_0503	0.1	67
20240806_0513	0.1	40
20240806_0523	0.1	41
20240806_0533	0.1	32
20240806_0543	0.1	181
20240806_0553	0.1	251
20240806_0603	0.1	251
20240806_0613	0.1	245
20240806_0623	0.1	245
20240806_0633	0.1	217
20240806_0643	0.1	2
20240806_0653	0.1	138
20240806_0703	0.1	141
20240806_0713	0.1	141
20240806_0723	0.1	141
20240806_0733	0.1	158
20240806_0743	0.1	131
20240806_0753	0.1	146
20240806_0803	0.4	145
20240806_0813	0.1	131
20240806_0823	0.1	159
20240806_0833	0.1	125
20240806_0843	0.1	93
20240806_0853	0.2	142
20240806_0903	0.7	171
20240806_0913	1.3	150
20240806_0923	0.1	171
20240806_0933	0.1	126
20240806_0943	0.1	69
20240806_0953	0.1	98
20240806_1003	0.1	113
20240806_1013	0.4	154
20240806_1023	0.1	105
20240806_1033	0.1	92
20240806_1043	0.1	23
20240806_1053	0.9	120
20240806_1103	2.9	111
20240806_1113	3	118
20240806_1123	0.1	121
20240806_1133	0.2	155
20240806_1143	0.1	177
20240806_1153	0.1	74

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240806_1203	2	143
20240806_1213	0.5	89
20240806_1223	0.3	223
20240806_1233	2.2	247
20240806_1243	0.1	237
20240806_1253	0.1	99
20240806_1303	0.1	250
20240806_1313	0.1	327
20240806_1323	0.2	247
20240806_1333	0.1	80
20240806_1343	0.1	247
20240806_1353	0.1	339
20240806_1403	0.1	18
20240806_1413	0.1	337
20240806_1423	0.1	82
20240806_1433	0.1	171
20240806_1443	0.1	108
20240806_1453	0.1	48
20240806_1503	0.1	103
20240806_1513	0.1	8
20240806_1523	0.1	265
20240806_1533	0.3	135
20240806_1543	1.4	121
20240806_1553	0.1	200
20240806_1603	2.7	323
20240806_1613	0.1	222
20240806_1623	0.1	153
20240806_1633	0.1	146
20240806_1643	0.1	203
20240806_1653	0.1	83
20240806_1703	0.1	350
20240806_1713	0.1	290
20240806_1723	0.6	58
20240806_1733	0.3	333
20240806_1743	0.1	308
20240806_1753	0.1	29
20240806_1803	0.1	129
20240806_1813	0.1	150
20240806_1823	0.1	136
20240806_1833	0.1	113
20240806_1843	0.1	336
20240806_1853	0.1	130
20240806_1903	0.1	132
20240806_1913	0.1	106
20240806_1923	0.1	89
20240806_1933	0.1	23
20240806_1943	0.1	145
20240806_1953	0.1	47
20240806_2003	0.1	51
20240806_2013	0.1	135
20240806_2023	0.1	133
20240806_2033	0.1	92
20240806_2043	0.1	87
20240806_2053	0.1	350
20240806_2103	0.1	184
20240806_2113	0.1	87
20240806_2123	0.1	123
20240806_2133	0.1	119
20240806_2143	0.1	92
20240806_2153	0.1	51
20240806_2203	0.1	325
20240806_2213	0.1	351
20240806_2223	0.1	344
20240806_2233	0.1	42
20240806_2243	0.1	42
20240806_2253	0.1	96
20240806_2303	0.1	157
20240806_2313	0.1	114
20240806_2323	0.1	105
20240806_2333	0.1	94
20240806_2343	0.1	60
20240806_2353	0.1	348

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240807_0003	0.1	8
20240807_0013	0.1	163
20240807_0023	0.1	173
20240807_0033	0.1	174
20240807_0043	0.1	110
20240807_0053	0.1	110
20240807_0103	0.1	141
20240807_0113	0.1	68
20240807_0123	0.1	47
20240807_0133	0.1	58
20240807_0143	0.1	7
20240807_0153	0.1	56
20240807_0203	0.1	75
20240807_0213	0.1	142
20240807_0223	0.1	122
20240807_0233	0.1	122
20240807_0243	0.1	70
20240807_0253	0.1	70
20240807_0303	0.1	219
20240807_0313	0.1	180
20240807_0323	0.1	180
20240807_0333	0.1	46
20240807_0343	0.1	37
20240807_0353	0.1	37
20240807_0403	0.1	16
20240807_0413	0.1	253
20240807_0423	0.1	101
20240807_0433	0.1	32
20240807_0443	0.1	32
20240807_0453	0.1	32
20240807_0503	0.1	33
20240807_0513	0.1	134
20240807_0523	0.1	29
20240807_0533	0.1	47
20240807_0543	0.1	292
20240807_0553	0.1	156
20240807_0603	0.1	150
20240807_0613	0.1	38
20240807_0623	0.1	15
20240807_0633	0.1	77
20240807_0643	0.1	77
20240807_0653	0.1	78
20240807_0703	0.1	78
20240807_0713	0.1	129
20240807_0723	0.1	130
20240807_0733	0.1	210
20240807_0743	0.1	122
20240807_0753	0.1	114
20240807_0803	0.1	108
20240807_0813	0.1	129
20240807_0823	0.1	134
20240807_0833	0.1	137
20240807_0843	0.1	167
20240807_0853	0.1	140
20240807_0903	0.1	102
20240807_0913	0.1	291
20240807_0923	0.1	172
20240807_0933	0.1	93
20240807_0943	0.4	332
20240807_0953	0.1	227
20240807_1003	0.1	221
20240807_1013	0.2	120
20240807_1023	0.4	149
20240807_1033	0.1	61
20240807_1043	0.1	160
20240807_1053	0.1	218
20240807_1103	0.1	236
20240807_1113	0.1	191
20240807_1123	0.1	221
20240807_1133	0.1	214
20240807_1143	0.1	239
20240807_1153	0.1	215

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240807_1203	0.1	254
20240807_1213	0.1	224
20240807_1223	0.1	152
20240807_1233	0.1	284
20240807_1243	0.1	223
20240807_1253	0.1	129
20240807_1303	0.1	195
20240807_1313	0.5	230
20240807_1323	0.3	89
20240807_1333	0.1	214
20240807_1343	0.1	276
20240807_1353	0.1	242
20240807_1403	1.1	102
20240807_1413	0.1	283
20240807_1423	0.1	215
20240807_1433	0.1	125
20240807_1443	0.9	31
20240807_1453	1.5	327
20240807_1503	3.8	21
20240807_1513	0.1	27
20240807_1523	0.1	137
20240807_1533	0.1	333
20240807_1543	0.1	226
20240807_1553	1	247
20240807_1603	0.3	161
20240807_1613	0.1	198
20240807_1623	0.1	119
20240807_1633	0.1	93
20240807_1643	0.1	64
20240807_1653	0.2	17
20240807_1703	0.2	326
20240807_1713	2.1	112
20240807_1723	0.1	344
20240807_1733	0.1	10
20240807_1743	0.1	48
20240807_1753	0.1	0
20240807_1803	0.1	347
20240807_1813	0.1	43
20240807_1823	0.1	345
20240807_1833	0.1	36
20240807_1843	0.1	61
20240807_1853	0.1	80
20240807_1903	0.1	59
20240807_1913	0.1	60
20240807_1923	0.1	65
20240807_1933	0.1	77
20240807_1943	0.1	67
20240807_1953	0.1	64
20240807_2003	0.1	49
20240807_2013	0.1	47
20240807_2023	0.1	50
20240807_2033	0.1	26
20240807_2043	0.1	56
20240807_2053	0.1	56
20240807_2103	0.1	44
20240807_2113	0.1	54
20240807_2123	0.1	38
20240807_2133	0.1	46
20240807_2143	0.1	59
20240807_2153	0.1	68
20240807_2203	0.1	57
20240807_2213	0.1	53
20240807_2223	0.1	37
20240807_2233	0.1	53
20240807_2243	0.1	53
20240807_2253	0.1	21
20240807_2303	0.1	22
20240807_2313	0.1	350
20240807_2323	0.1	55
20240807_2333	0.1	55
20240807_2343	0.1	55
20240807_2353	0.1	63

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240808_0003	0.1	64
20240808_0013	0.1	60
20240808_0023	0.1	60
20240808_0033	0.1	60
20240808_0043	0.1	60
20240808_0053	0.1	62
20240808_0103	0.1	28
20240808_0113	0.1	52
20240808_0123	0.1	53
20240808_0133	0.1	53
20240808_0143	0.1	44
20240808_0153	0.1	30
20240808_0203	0.1	51
20240808_0213	0.1	31
20240808_0223	0.1	68
20240808_0233	0.1	51
20240808_0243	0.1	56
20240808_0253	0.1	56
20240808_0303	0.1	17
20240808_0313	0.1	36
20240808_0323	0.1	53
20240808_0333	0.1	55
20240808_0343	0.1	61
20240808_0353	0.1	55
20240808_0403	0.1	55
20240808_0413	0.1	61
20240808_0423	0.1	64
20240808_0433	0.1	53
20240808_0443	0.1	53
20240808_0453	0.1	53
20240808_0503	0.1	67
20240808_0513	0.1	67
20240808_0523	0.1	63
20240808_0533	0.1	54
20240808_0543	0.1	53
20240808_0553	0.1	41
20240808_0603	0.1	40
20240808_0613	0.1	40
20240808_0623	0.1	40
20240808_0633	0.1	41
20240808_0643	0.1	41
20240808_0653	0.1	52
20240808_0703	0.1	112
20240808_0713	0.1	113
20240808_0723	0.1	113
20240808_0733	0.1	143
20240808_0743	0.1	131
20240808_0753	0.1	107
20240808_0803	0.1	214
20240808_0813	0.1	175
20240808_0823	0.1	151
20240808_0833	0.1	223
20240808_0843	0.1	225
20240808_0853	0.2	114
20240808_0903	0.1	213
20240808_0913	0.1	229
20240808_0923	0.1	127
20240808_0933	0.8	152
20240808_0943	0.1	150
20240808_0953	0.1	173
20240808_1003	0.1	231
20240808_1013	0.1	224
20240808_1023	0.1	29
20240808_1033	0.1	196
20240808_1043	0.1	314
20240808_1053	0.1	100
20240808_1103	0.1	183
20240808_1113	0.3	226
20240808_1123	0.1	236
20240808_1133	0.1	325
20240808_1143	0.1	159
20240808_1153	0.1	250

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240808_1203	0.1	172
20240808_1213	0.1	212
20240808_1223	0.1	198
20240808_1233	0.1	98
20240808_1243	0.1	161
20240808_1253	0.5	165
20240808_1303	0.1	290
20240808_1313	1.2	122
20240808_1323	0.6	240
20240808_1333	0.4	187
20240808_1343	0.1	224
20240808_1353	0.3	153
20240808_1403	0.4	216
20240808_1413	0.5	251
20240808_1423	0.3	139
20240808_1433	0.3	237
20240808_1443	0.1	243
20240808_1453	0.1	238
20240808_1503	1.5	239
20240808_1513	0.1	148
20240808_1523	0.1	155
20240808_1533	0.1	251
20240808_1543	0.2	145
20240808_1553	0.1	187
20240808_1603	0.1	215
20240808_1613	0.1	228
20240808_1623	0.6	156
20240808_1633	0.1	236
20240808_1643	0.1	238
20240808_1653	0.1	175
20240808_1703	0.1	153
20240808_1713	1.7	142
20240808_1723	0.1	305
20240808_1733	0.1	156
20240808_1743	0.1	240
20240808_1753	0.1	176
20240808_1803	0.1	245
20240808_1813	0.1	198
20240808_1823	0.1	178
20240808_1833	0.1	172
20240808_1843	0.1	150
20240808_1853	0.1	149
20240808_1903	0.1	67
20240808_1913	0.1	51
20240808_1923	0.1	313
20240808_1933	0.1	149
20240808_1943	0.1	184
20240808_1953	0.1	271
20240808_2003	0.1	80
20240808_2013	0.7	214
20240808_2023	0.1	314
20240808_2033	0.1	133
20240808_2043	0.1	213
20240808_2053	0.1	82
20240808_2103	0.1	83
20240808_2113	0.1	82
20240808_2123	0.1	80
20240808_2133	0.1	75
20240808_2143	0.1	75
20240808_2153	0.1	52
20240808_2203	0.1	101
20240808_2213	0.1	58
20240808_2223	0.1	57
20240808_2233	0.1	35
20240808_2243	0.1	36
20240808_2253	0.1	56
20240808_2303	0.1	352
20240808_2313	0.1	35
20240808_2323	0.1	47
20240808_2333	0.1	30
20240808_2343	0.1	38
20240808_2353	0.1	46

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240809_0003	0.1	58
20240809_0013	0.1	57
20240809_0023	0.1	57
20240809_0033	0.1	67
20240809_0043	0.1	80
20240809_0053	0.1	80
20240809_0103	0.1	101
20240809_0113	0.1	91
20240809_0123	0.1	58
20240809_0133	0.1	79
20240809_0143	0.1	112
20240809_0153	0.1	89
20240809_0203	0.1	89
20240809_0213	0.1	69
20240809_0223	0.1	69
20240809_0233	0.1	69
20240809_0243	0.1	69
20240809_0253	0.1	74
20240809_0303	0.1	70
20240809_0313	0.1	59
20240809_0323	0.1	59
20240809_0333	0.1	61
20240809_0343	0.1	61
20240809_0353	0.1	99
20240809_0403	0.1	58
20240809_0413	0.1	86
20240809_0423	0.1	77
20240809_0433	0.1	69
20240809_0443	0.1	165
20240809_0453	0.1	162
20240809_0503	0.1	147
20240809_0513	0.1	157
20240809_0523	0.1	146
20240809_0533	0.1	68
20240809_0543	0.1	71
20240809_0553	0.1	70
20240809_0603	0.1	55
20240809_0613	0.1	281
20240809_0623	0.1	47
20240809_0633	0.1	44
20240809_0643	0.1	44
20240809_0653	0.1	93
20240809_0703	0.1	109
20240809_0713	0.1	109
20240809_0723	0.1	241
20240809_0733	0.1	147
20240809_0743	0.1	167
20240809_0753	0.1	164
20240809_0803	0.1	164
20240809_0813	0.1	229
20240809_0823	0.1	153
20240809_0833	0.1	295
20240809_0843	0.1	285
20240809_0853	0.1	189
20240809_0903	0.2	166
20240809_0913	0.1	334
20240809_0923	0.4	146
20240809_0933	0.1	179
20240809_0943	0.1	201
20240809_0953	0.1	170
20240809_1003	0.1	219
20240809_1013	0.2	180
20240809_1023	0.1	106
20240809_1033	0.2	185
20240809_1043	0.1	206
20240809_1053	0.1	201
20240809_1103	0.1	219
20240809_1113	0.1	228
20240809_1123	0.1	286
20240809_1133	0.1	15
20240809_1143	0.2	64
20240809_1153	0.1	126

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240809_1203	0.1	208
20240809_1213	0.1	295
20240809_1223	0.1	242
20240809_1233	0.1	229
20240809_1243	1.7	128
20240809_1253	0.1	134
20240809_1303	0.1	221
20240809_1313	0.3	276
20240809_1323	0.1	200
20240809_1333	0.8	242
20240809_1343	0.1	214
20240809_1353	0.1	207
20240809_1403	0.1	155
20240809_1413	1.9	251
20240809_1423	0.1	172
20240809_1433	1.9	123
20240809_1443	0.1	235
20240809_1453	2	145
20240809_1503	0.1	185
20240809_1513	0.1	205
20240809_1523	1.7	190
20240809_1533	0.7	262
20240809_1543	0.6	242
20240809_1553	0.1	50
20240809_1603	0.1	178
20240809_1613	0.1	194
20240809_1623	0.1	141
20240809_1633	0.1	228
20240809_1643	0.1	224
20240809_1653	0.3	226
20240809_1703	0.1	169
20240809_1713	0.1	161
20240809_1723	0.3	246
20240809_1733	0.1	259
20240809_1743	1.3	139
20240809_1753	0.9	283
20240809_1803	0.1	254
20240809_1813	0.1	261
20240809_1823	0.1	167
20240809_1833	0.1	113
20240809_1843	1.5	161
20240809_1853	0.1	183
20240809_1903	0.1	109
20240809_1913	0.1	153
20240809_1923	0.1	123
20240809_1933	0.1	125
20240809_1943	0.1	94
20240809_1953	0.1	94
20240809_2003	0.1	138
20240809_2013	0.1	104
20240809_2023	0.1	102
20240809_2033	0.1	85
20240809_2043	0.1	113
20240809_2053	0.1	112
20240809_2103	0.1	103
20240809_2113	0.1	79
20240809_2123	0.1	70
20240809_2133	0.1	118
20240809_2143	0.1	72
20240809_2153	0.1	85
20240809_2203	0.1	71
20240809_2213	0.1	59
20240809_2223	0.1	347
20240809_2233	0.1	52
20240809_2243	0.1	54
20240809_2253	0.1	339
20240809_2303	0.1	91
20240809_2313	0.1	91
20240809_2323	0.1	28
20240809_2333	0.1	135
20240809_2343	0.1	120
20240809_2353	0.1	131

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240810_0003	0.1	71
20240810_0013	0.1	54
20240810_0023	0.1	70
20240810_0033	0.1	157
20240810_0043	0.1	100
20240810_0053	0.1	150
20240810_0103	0.1	234
20240810_0113	0.1	170
20240810_0123	0.1	168
20240810_0133	0.1	87
20240810_0143	0.1	85
20240810_0153	0.1	61
20240810_0203	0.1	61
20240810_0213	0.1	40
20240810_0223	0.1	114
20240810_0233	0.1	46
20240810_0243	0.1	46
20240810_0253	0.1	46
20240810_0303	0.1	48
20240810_0313	0.1	47
20240810_0323	0.1	47
20240810_0333	0.1	77
20240810_0343	0.1	76
20240810_0353	0.1	76
20240810_0403	0.1	76
20240810_0413	0.1	76
20240810_0423	0.1	53
20240810_0433	0.1	54
20240810_0443	0.1	43
20240810_0453	0.1	53
20240810_0503	0.1	53
20240810_0513	0.1	53
20240810_0523	0.1	55
20240810_0533	0.1	21
20240810_0543	0.1	33
20240810_0553	0.1	60
20240810_0603	0.1	60
20240810_0613	0.1	68
20240810_0623	0.1	68
20240810_0633	0.1	56
20240810_0643	0.1	104
20240810_0653	0.1	104
20240810_0703	0.1	104
20240810_0713	0.1	108
20240810_0723	0.1	148
20240810_0733	0.1	145
20240810_0743	0.1	141
20240810_0753	0.1	76
20240810_0803	0.1	221
20240810_0813	0.1	135
20240810_0823	0.1	64
20240810_0833	0.1	132
20240810_0843	0.1	239
20240810_0853	0.1	231
20240810_0903	0.1	259
20240810_0913	0.1	220
20240810_0923	0.1	240
20240810_0933	0.1	195
20240810_0943	0.1	242
20240810_0953	0.4	237
20240810_1003	0.1	148
20240810_1013	0.3	236
20240810_1023	0.1	175
20240810_1033	0.1	3
20240810_1043	0.1	313
20240810_1053	0.1	200
20240810_1103	0.1	204
20240810_1113	2.7	132
20240810_1123	0.1	186
20240810_1133	0.1	119
20240810_1143	0.1	156
20240810_1153	0.1	226

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240810_1203	0.5	124
20240810_1213	0.1	144
20240810_1223	0.1	153
20240810_1233	0.1	214
20240810_1243	0.1	245
20240810_1253	0.1	172
20240810_1303	0.1	233
20240810_1313	0.1	198
20240810_1323	0.7	233
20240810_1333	0.9	239
20240810_1343	0.1	198
20240810_1353	0.2	154
20240810_1403	0.1	251
20240810_1413	0.1	166
20240810_1423	0.1	145
20240810_1433	0.2	111
20240810_1443	0.5	32
20240810_1453	0.1	14
20240810_1503	0.1	334
20240810_1513	0.1	76
20240810_1523	0.1	123
20240810_1533	0.1	77
20240810_1543	0.1	343
20240810_1553	0.1	335
20240810_1603	0.1	105
20240810_1613	0.1	131
20240810_1623	0.1	137
20240810_1633	0.1	281
20240810_1643	0.1	131
20240810_1653	0.1	240
20240810_1703	0.1	112
20240810_1713	0.1	259
20240810_1723	0.1	208
20240810_1733	0.1	155
20240810_1743	0.1	160
20240810_1753	0.1	127
20240810_1803	0.1	78
20240810_1813	0.1	116
20240810_1823	0.1	174
20240810_1833	0.1	100
20240810_1843	0.1	132
20240810_1853	0.1	143
20240810_1903	0.1	143
20240810_1913	0.1	134
20240810_1923	0.1	214
20240810_1933	0.1	106
20240810_1943	0.1	107
20240810_1953	0.1	343
20240810_2003	0.1	88
20240810_2013	0.1	51
20240810_2023	0.1	101
20240810_2033	0.1	176
20240810_2043	0.1	64
20240810_2053	0.1	62
20240810_2103	0.1	63
20240810_2113	0.1	352
20240810_2123	0.1	5
20240810_2133	0.1	64
20240810_2143	0.1	17
20240810_2153	0.1	98
20240810_2203	0.1	133
20240810_2213	0.1	131
20240810_2223	0.1	99
20240810_2233	0.1	55
20240810_2243	0.1	55
20240810_2253	0.1	56
20240810_2303	0.1	56
20240810_2313	0.1	57
20240810_2323	0.1	71
20240810_2333	0.1	64
20240810_2343	0.1	59
20240810_2353	0.1	96

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240811_0003	0.1	96
20240811_0013	0.1	93
20240811_0023	0.1	93
20240811_0033	0.1	51
20240811_0043	0.1	58
20240811_0053	0.1	58
20240811_0103	0.1	58
20240811_0113	0.1	58
20240811_0123	0.1	57
20240811_0133	0.1	57
20240811_0143	0.1	54
20240811_0153	0.1	54
20240811_0203	0.1	61
20240811_0213	0.1	51
20240811_0223	0.1	53
20240811_0233	0.1	53
20240811_0243	0.1	53
20240811_0253	0.1	58
20240811_0303	0.1	58
20240811_0313	0.1	58
20240811_0323	0.1	55
20240811_0333	0.1	55
20240811_0343	0.1	58
20240811_0353	0.1	52
20240811_0403	0.1	61
20240811_0413	0.1	56
20240811_0423	0.1	56
20240811_0433	0.1	46
20240811_0443	0.1	46
20240811_0453	0.1	46
20240811_0503	0.1	46
20240811_0513	0.1	46
20240811_0523	0.1	46
20240811_0533	0.1	46
20240811_0543	0.1	47
20240811_0553	0.1	57
20240811_0603	0.1	58
20240811_0613	0.1	58
20240811_0623	0.1	58
20240811_0633	0.1	62
20240811_0643	0.1	63
20240811_0653	0.1	63
20240811_0703	0.1	63
20240811_0713	0.1	63
20240811_0723	0.1	135
20240811_0733	0.1	130
20240811_0743	0.1	124
20240811_0753	0.1	139
20240811_0803	0.1	172
20240811_0813	0.5	159
20240811_0823	0.1	264
20240811_0833	0.1	273
20240811_0843	0.1	291
20240811_0853	0.1	137
20240811_0903	0.1	186
20240811_0913	0.1	289
20240811_0923	0.1	179
20240811_0933	0.1	283
20240811_0943	0.1	249
20240811_0953	0.1	177
20240811_1003	0.1	252
20240811_1013	0.1	249
20240811_1023	0.1	230
20240811_1033	0.1	70
20240811_1043	0.1	212
20240811_1053	0.1	158
20240811_1103	0.1	181
20240811_1113	0.1	124
20240811_1123	0.1	154
20240811_1133	0.1	92
20240811_1143	0.1	166
20240811_1153	1	115

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240811_1203	0.1	111
20240811_1213	0.1	2
20240811_1223	0.6	115
20240811_1233	0.1	38
20240811_1243	0.1	99
20240811_1253	0.2	92
20240811_1303	0.9	91
20240811_1313	0.1	43
20240811_1323	0.9	175
20240811_1333	0.1	208
20240811_1343	0.1	30
20240811_1353	0.1	148
20240811_1403	0.1	348
20240811_1413	0.1	133
20240811_1423	1.1	124
20240811_1433	0.1	108
20240811_1443	0.1	114
20240811_1453	0.1	80
20240811_1503	0.2	134
20240811_1513	0.1	145
20240811_1523	0.1	85
20240811_1533	0.1	218
20240811_1543	0.1	280
20240811_1553	0.1	274
20240811_1603	0.1	19
20240811_1613	0.1	210
20240811_1623	0.1	324
20240811_1633	0.1	249
20240811_1643	0.1	214
20240811_1653	0.1	235
20240811_1703	0.1	241
20240811_1713	0.1	209
20240811_1723	0.1	149
20240811_1733	0.1	62
20240811_1743	0.1	122
20240811_1753	0.1	143
20240811_1803	0.1	128
20240811_1813	0.1	126
20240811_1823	0.1	126
20240811_1833	0.1	126
20240811_1843	0.1	124
20240811_1853	0.1	65
20240811_1903	0.1	66
20240811_1913	0.1	50
20240811_1923	0.1	50
20240811_1933	0.1	50
20240811_1943	0.1	60
20240811_1953	0.1	78
20240811_2003	0.1	153
20240811_2013	0.1	271
20240811_2023	0.1	60
20240811_2033	0.1	153
20240811_2043	0.1	71
20240811_2053	0.1	67
20240811_2103	0.1	66
20240811_2113	0.1	67
20240811_2123	0.1	66
20240811_2133	0.1	63
20240811_2143	0.1	35
20240811_2153	0.1	52
20240811_2203	0.1	52
20240811_2213	0.1	52
20240811_2223	0.1	52
20240811_2233	0.1	45
20240811_2243	0.1	45
20240811_2253	0.1	45
20240811_2303	0.1	54
20240811_2313	0.1	60
20240811_2323	0.1	60
20240811_2333	0.1	60
20240811_2343	0.1	59
20240811_2353	0.1	56

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240812_0003	0.1	56
20240812_0013	0.1	56
20240812_0023	0.1	56
20240812_0033	0.1	56
20240812_0043	0.1	56
20240812_0053	0.1	60
20240812_0103	0.1	34
20240812_0113	0.1	49
20240812_0123	0.1	60
20240812_0133	0.1	54
20240812_0143	0.1	54
20240812_0153	0.1	54
20240812_0203	0.1	54
20240812_0213	0.1	69
20240812_0223	0.1	59
20240812_0233	0.1	62
20240812_0243	0.1	62
20240812_0253	0.1	58
20240812_0303	0.1	42
20240812_0313	0.1	47
20240812_0323	0.1	47
20240812_0333	0.1	25
20240812_0343	0.1	41
20240812_0353	0.1	44
20240812_0403	0.1	54
20240812_0413	0.1	54
20240812_0423	0.1	101
20240812_0433	0.1	101
20240812_0443	0.1	48
20240812_0453	0.1	40
20240812_0503	0.1	41
20240812_0513	0.1	41
20240812_0523	0.1	91
20240812_0533	0.1	91
20240812_0543	0.1	89
20240812_0553	0.1	67
20240812_0603	0.1	63
20240812_0613	0.1	63
20240812_0623	0.1	27
20240812_0633	0.1	25
20240812_0643	0.1	17
20240812_0653	0.1	126
20240812_0703	0.1	37
20240812_0713	0.1	132
20240812_0723	0.1	152
20240812_0733	0.1	130
20240812_0743	0.1	139
20240812_0753	2.9	141
20240812_0803	1.6	147
20240812_0813	0.1	258
20240812_0823	0.1	154
20240812_0833	0.1	191
20240812_0843	0.1	344
20240812_0853	0.6	55
20240812_0903	0.1	21
20240812_0913	0.1	69
20240812_0923	0.1	86
20240812_0933	0.1	65
20240812_0943	0.1	44
20240812_0953	0.1	130
20240812_1003	0.1	69
20240812_1013	0.1	200
20240812_1023	0.1	275
20240812_1033	0.1	26
20240812_1043	0.1	344
20240812_1053	0.1	326
20240812_1103	0.1	164
20240812_1113	0.1	231
20240812_1123	0.1	134
20240812_1133	0.1	281
20240812_1143	0.1	147
20240812_1153	0.1	40

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240812_1203	0.1	275
20240812_1213	0.5	269
20240812_1223	0.1	256
20240812_1233	0.1	295
20240812_1243	0.1	237
20240812_1253	0.1	222
20240812_1303	0.1	231
20240812_1313	0.1	279
20240812_1323	0.1	143
20240812_1333	0.1	122
20240812_1343	0.1	242
20240812_1353	0.1	138
20240812_1403	0.1	127
20240812_1413	0.1	181
20240812_1423	0.1	226
20240812_1433	0.1	190
20240812_1443	0.4	134
20240812_1453	0.1	187
20240812_1503	0.1	190
20240812_1513	0.1	179
20240812_1523	0.1	118
20240812_1533	0.1	134
20240812_1543	0.1	100
20240812_1553	0.1	215
20240812_1603	0.1	338
20240812_1613	0.1	133
20240812_1623	0.1	177
20240812_1633	0.1	151
20240812_1643	0.1	161
20240812_1653	0.1	161
20240812_1703	0.1	121
20240812_1713	0.1	91
20240812_1723	0.1	129
20240812_1733	0.1	241
20240812_1743	0.1	194
20240812_1753	0.1	165
20240812_1803	0.1	141
20240812_1813	0.1	144
20240812_1823	0.1	145
20240812_1833	0.1	140
20240812_1843	0.1	96
20240812_1853	0.1	96
20240812_1903	0.1	97
20240812_1913	0.1	97
20240812_1923	0.1	96
20240812_1933	0.1	61
20240812_1943	0.1	26
20240812_1953	0.1	98
20240812_2003	0.1	97
20240812_2013	0.1	97
20240812_2023	0.1	97
20240812_2033	0.1	337
20240812_2043	0.1	338
20240812_2053	0.1	16
20240812_2103	0.1	16
20240812_2113	0.1	27
20240812_2123	0.1	53
20240812_2133	0.1	53
20240812_2143	0.1	53
20240812_2153	0.1	53
20240812_2203	0.1	59
20240812_2213	0.1	59
20240812_2223	0.1	59
20240812_2233	0.1	59
20240812_2243	0.1	59
20240812_2253	0.1	59
20240812_2303	0.1	59
20240812_2313	0.1	59
20240812_2323	0.1	59
20240812_2333	0.1	91
20240812_2343	0.1	91
20240812_2353	0.1	86

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240813_0003	0.1	86
20240813_0013	0.1	112
20240813_0023	0.1	112
20240813_0033	0.1	112
20240813_0043	0.1	117
20240813_0053	0.1	67
20240813_0103	0.1	146
20240813_0113	0.1	50
20240813_0123	0.1	19
20240813_0133	0.1	146
20240813_0143	0.1	146
20240813_0153	0.1	146
20240813_0203	0.1	146
20240813_0213	0.1	96
20240813_0223	0.1	96
20240813_0233	0.1	106
20240813_0243	0.1	77
20240813_0253	0.1	77
20240813_0303	0.1	80
20240813_0313	0.1	80
20240813_0323	0.1	80
20240813_0333	0.1	80
20240813_0343	0.1	80
20240813_0353	0.1	71
20240813_0403	0.1	64
20240813_0413	0.1	60
20240813_0423	0.1	147
20240813_0433	0.1	146
20240813_0443	0.1	147
20240813_0453	0.1	147
20240813_0503	0.1	145
20240813_0513	0.1	50
20240813_0523	0.1	51
20240813_0533	0.1	139
20240813_0543	0.1	127
20240813_0553	0.1	96
20240813_0603	0.1	70
20240813_0613	0.1	77
20240813_0623	0.1	150
20240813_0633	0.1	150
20240813_0643	0.1	150
20240813_0653	0.1	150
20240813_0703	0.1	147
20240813_0713	0.1	137
20240813_0723	0.1	137
20240813_0733	0.1	129
20240813_0743	0.1	138
20240813_0753	0.1	54
20240813_0803	0.1	111
20240813_0813	0.1	116
20240813_0823	0.1	142
20240813_0833	0.1	122
20240813_0843	0.1	152
20240813_0853	0.3	116
20240813_0903	0.1	112
20240813_0913	0.1	167
20240813_0923	0.1	166
20240813_0933	0.1	181
20240813_0943	0.1	244
20240813_0953	0.1	205
20240813_1003	0.1	325
20240813_1013	0.1	192
20240813_1023	0.1	117
20240813_1033	0.1	342
20240813_1043	0.1	146
20240813_1053	0.1	190
20240813_1103	0.1	218
20240813_1113	0.1	200
20240813_1123	1	171
20240813_1133	0.5	156
20240813_1143	0.1	200
20240813_1153	0.1	166

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240813_1203	0.1	267
20240813_1213	0.1	134
20240813_1223	1.1	150
20240813_1233	0.1	248
20240813_1243	0.1	347
20240813_1253	0.1	63
20240813_1303	0.1	99
20240813_1313	0.1	101
20240813_1323	0.1	160
20240813_1333	0.2	218
20240813_1343	0.8	163
20240813_1353	2.9	101
20240813_1403	0.1	10
20240813_1413	0.1	118
20240813_1423	0.1	43
20240813_1433	0.3	210
20240813_1443	0.1	184
20240813_1453	0.1	140
20240813_1503	0.1	317
20240813_1513	0.1	82
20240813_1523	0.7	110
20240813_1533	0.1	163
20240813_1543	0.1	227
20240813_1553	0.1	121
20240813_1603	0.7	147
20240813_1613	1.5	139
20240813_1623	0.1	85
20240813_1633	0.1	94
20240813_1643	0.4	190
20240813_1653	0.3	152
20240813_1703	0.1	21
20240813_1713	0.1	45
20240813_1723	0.1	153
20240813_1733	0.1	69
20240813_1743	0.1	139
20240813_1753	0.1	138
20240813_1803	0.1	136
20240813_1813	0.1	92
20240813_1823	0.1	92
20240813_1833	0.1	92
20240813_1843	0.1	92
20240813_1853	0.1	90
20240813_1903	0.1	99
20240813_1913	0.1	15
20240813_1923	0.1	20
20240813_1933	0.1	97
20240813_1943	0.1	50
20240813_1953	0.1	2
20240813_2003	0.1	331
20240813_2013	0.1	10
20240813_2023	0.1	323
20240813_2033	0.1	323
20240813_2043	0.1	126
20240813_2053	0.1	83
20240813_2103	0.1	72
20240813_2113	0.1	67
20240813_2123	0.1	340
20240813_2133	0.1	349
20240813_2143	0.1	87
20240813_2153	0.1	141
20240813_2203	0.1	141
20240813_2213	0.1	90
20240813_2223	0.1	69
20240813_2233	0.1	69
20240813_2243	0.1	38
20240813_2253	0.1	40
20240813_2303	0.1	44
20240813_2313	0.1	58
20240813_2323	0.1	126
20240813_2333	0.1	145
20240813_2343	0.1	145
20240813_2353	0.1	105

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240814_0003	0.1	130
20240814_0013	0.1	130
20240814_0023	0.1	130
20240814_0033	0.1	130
20240814_0043	0.1	130
20240814_0053	0.1	126
20240814_0103	0.1	126
20240814_0113	0.1	126
20240814_0123	0.1	126
20240814_0133	0.1	71
20240814_0143	0.1	124
20240814_0153	0.1	124
20240814_0203	0.1	124
20240814_0213	0.1	68
20240814_0223	0.1	136
20240814_0233	0.1	136
20240814_0243	0.1	136
20240814_0253	0.1	61
20240814_0303	0.1	61
20240814_0313	0.1	61
20240814_0323	0.1	61
20240814_0333	0.1	61
20240814_0343	0.1	61
20240814_0353	0.1	66
20240814_0403	0.1	66
20240814_0413	0.1	66
20240814_0423	0.1	66
20240814_0433	0.1	137
20240814_0443	0.1	49
20240814_0453	0.1	337
20240814_0503	0.1	224
20240814_0513	0.1	224
20240814_0523	0.1	219
20240814_0533	0.1	182
20240814_0543	0.1	123
20240814_0553	0.1	76
20240814_0603	0.1	76
20240814_0613	0.1	115
20240814_0623	0.1	117
20240814_0633	0.1	336
20240814_0643	0.1	47
20240814_0653	0.1	287
20240814_0703	0.1	196
20240814_0713	0.1	200
20240814_0723	0.1	270
20240814_0733	0.1	229
20240814_0743	0.1	24
20240814_0753	0.1	144
20240814_0803	0.1	230
20240814_0813	0.1	156
20240814_0823	0.1	207
20240814_0833	0.1	174
20240814_0843	0.1	135
20240814_0853	0.1	171
20240814_0903	0.1	143
20240814_0913	0.1	168
20240814_0923	0.1	153
20240814_0933	0.1	195
20240814_0943	0.1	114
20240814_0953	0.1	141
20240814_1003	0.1	344
20240814_1013	0.1	61
20240814_1023	0.1	87
20240814_1033	0.1	194
20240814_1043	0.1	152
20240814_1053	0.1	261
20240814_1103	0.1	167
20240814_1113	0.1	105
20240814_1123	0.1	253
20240814_1133	0.1	143
20240814_1143	0.1	135
20240814_1153	0.1	135

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240814_1203	0.1	195
20240814_1213	0.1	141
20240814_1223	0.1	174
20240814_1233	0.1	106
20240814_1243	0.1	250
20240814_1253	0.1	103
20240814_1303	0.1	160
20240814_1313	0.1	184
20240814_1323	0.1	236
20240814_1333	0.1	124
20240814_1343	0.1	159
20240814_1353	0.1	84
20240814_1403	0.1	106
20240814_1413	0.1	93
20240814_1423	0.1	77
20240814_1433	0.1	64
20240814_1443	0.1	64
20240814_1453	0.1	87
20240814_1503	0.1	87
20240814_1513	0.1	87
20240814_1523	0.1	87
20240814_1533	0.1	351
20240814_1543	0.1	352
20240814_1553	0.1	52
20240814_1603	0.1	52
20240814_1613	0.1	108
20240814_1623	0.1	106
20240814_1633	0.1	301
20240814_1643	0.1	349
20240814_1653	0.1	40
20240814_1703	0.1	17
20240814_1713	0.1	347
20240814_1723	0.1	6
20240814_1733	0.1	352
20240814_1743	0.1	349
20240814_1753	0.1	8
20240814_1803	0.1	8
20240814_1813	0.1	60
20240814_1823	0.1	60
20240814_1833	0.1	60
20240814_1843	0.1	60
20240814_1853	0.1	60
20240814_1903	0.1	49
20240814_1913	0.1	43
20240814_1923	0.1	43
20240814_1933	0.1	57
20240814_1943	0.1	57
20240814_1953	0.1	57
20240814_2003	0.1	57
20240814_2013	0.1	57
20240814_2023	0.1	57
20240814_2033	0.1	57
20240814_2043	0.1	57
20240814_2053	0.1	57
20240814_2103	0.1	316
20240814_2113	0.1	316
20240814_2123	0.1	351
20240814_2133	0.1	352
20240814_2143	0.1	352
20240814_2153	0.1	352
20240814_2203	0.1	352
20240814_2213	0.1	12
20240814_2223	0.1	12
20240814_2233	0.1	12
20240814_2243	0.1	15
20240814_2253	0.1	15
20240814_2303	0.1	15
20240814_2313	0.1	15
20240814_2323	0.1	20
20240814_2333	0.1	20
20240814_2343	0.1	20
20240814_2353	0.1	20

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240815_0003	0.1	20
20240815_0013	0.1	20
20240815_0023	0.1	20
20240815_0033	0.1	20
20240815_0043	0.1	20
20240815_0053	0.1	20
20240815_0103	0.1	20
20240815_0113	0.1	20
20240815_0123	0.1	20
20240815_0133	0.1	20
20240815_0143	0.1	37
20240815_0153	0.1	37
20240815_0203	0.1	37
20240815_0213	0.1	37
20240815_0223	0.1	37
20240815_0233	0.1	37
20240815_0243	0.1	37
20240815_0253	0.1	37
20240815_0303	0.1	37
20240815_0313	0.1	37
20240815_0323	0.1	37
20240815_0333	0.1	37
20240815_0343	0.1	37
20240815_0353	0.1	37
20240815_0403	0.1	37
20240815_0413	0.1	343
20240815_0423	0.1	343
20240815_0433	0.1	36
20240815_0443	0.1	29
20240815_0453	0.1	29
20240815_0503	0.1	29
20240815_0513	0.1	29
20240815_0523	0.1	29
20240815_0533	0.1	29
20240815_0543	0.1	29
20240815_0553	0.1	29
20240815_0603	0.1	29
20240815_0613	0.1	29
20240815_0623	0.1	29
20240815_0633	0.1	29
20240815_0643	0.1	29
20240815_0653	0.1	29
20240815_0703	0.1	29
20240815_0713	0.1	29
20240815_0723	0.1	29
20240815_0733	0.1	113
20240815_0743	0.1	130
20240815_0753	0.1	341
20240815_0803	0.1	294
20240815_0813	0.1	132
20240815_0823	0.1	194
20240815_0833	0.1	119
20240815_0843	0.1	150
20240815_0853	0.1	220
20240815_0903	0.3	116
20240815_0913	0.1	267
20240815_0923	0.1	138
20240815_0933	0.1	326
20240815_0943	0.1	289
20240815_0953	0.1	11
20240815_1003	0.1	99
20240815_1013	1.8	134
20240815_1023	0.1	88
20240815_1033	0.1	60
20240815_1043	1.7	34
20240815_1053	0.1	106
20240815_1103	0.1	161
20240815_1113	0.1	302
20240815_1123	0.1	291
20240815_1133	0.5	61
20240815_1143	0.5	128
20240815_1153	0.1	278

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240815_1203	0.1	139
20240815_1213	0.1	79
20240815_1223	0.1	327
20240815_1233	0.1	296
20240815_1243	0.1	317
20240815_1253	0.1	170
20240815_1303	0.1	133
20240815_1313	0.1	55
20240815_1323	0.1	57
20240815_1333	0.1	163
20240815_1343	0.1	54
20240815_1353	0.1	90
20240815_1403	0.1	153
20240815_1413	0.1	147
20240815_1423	0.1	141
20240815_1433	0.1	253
20240815_1443	0.1	288
20240815_1453	0.1	101
20240815_1503	0.1	108
20240815_1513	0.1	159
20240815_1523	0.1	95
20240815_1533	0.1	108
20240815_1543	0.1	119
20240815_1553	0.1	143
20240815_1603	0.1	105
20240815_1613	0.1	106
20240815_1623	0.1	237
20240815_1633	0.1	141
20240815_1643	0.1	170
20240815_1653	0.1	88
20240815_1703	0.1	93
20240815_1713	0.1	135
20240815_1723	0.1	232
20240815_1733	0.1	177
20240815_1743	0.1	143
20240815_1753	0.1	145
20240815_1803	0.1	77
20240815_1813	0.1	151
20240815_1823	0.1	128
20240815_1833	0.1	101
20240815_1843	0.1	88
20240815_1853	0.1	88
20240815_1903	0.1	88
20240815_1913	0.1	125
20240815_1923	0.1	125
20240815_1933	0.1	124
20240815_1943	0.1	125
20240815_1953	0.1	124
20240815_2003	0.1	124
20240815_2013	0.1	100
20240815_2023	0.1	85
20240815_2033	0.1	85
20240815_2043	0.1	84
20240815_2053	0.1	84
20240815_2103	0.1	85
20240815_2113	0.1	84
20240815_2123	0.1	84
20240815_2133	0.1	85
20240815_2143	0.1	85
20240815_2153	0.1	84
20240815_2203	0.1	85
20240815_2213	0.1	85
20240815_2223	0.1	85
20240815_2233	0.1	85
20240815_2243	0.1	84
20240815_2253	0.1	84
20240815_2303	0.1	84
20240815_2313	0.1	85
20240815_2323	0.1	84
20240815_2333	0.1	85
20240815_2343	0.1	84
20240815_2353	0.1	85

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240816_0003	0.1	85
20240816_0013	0.1	85
20240816_0023	0.1	84
20240816_0033	0.1	84
20240816_0043	0.1	84
20240816_0053	0.1	84
20240816_0103	0.1	85
20240816_0113	0.1	84
20240816_0123	0.1	84
20240816_0133	0.1	85
20240816_0143	0.1	85
20240816_0153	0.1	85
20240816_0203	0.1	70
20240816_0213	0.1	70
20240816_0223	0.1	45
20240816_0233	0.1	45
20240816_0243	0.1	45
20240816_0253	0.1	45
20240816_0303	0.1	45
20240816_0313	0.1	45
20240816_0323	0.1	45
20240816_0333	0.1	45
20240816_0343	0.1	45
20240816_0353	0.1	45
20240816_0403	0.1	45
20240816_0413	0.1	45
20240816_0423	0.1	45
20240816_0433	0.1	45
20240816_0443	0.1	66
20240816_0453	0.1	66
20240816_0503	0.1	66
20240816_0513	0.1	66
20240816_0523	0.1	66
20240816_0533	0.1	66
20240816_0543	0.1	66
20240816_0553	0.1	66
20240816_0603	0.1	313
20240816_0613	0.1	313
20240816_0623	0.1	313
20240816_0633	0.1	312
20240816_0643	0.1	312
20240816_0653	0.1	216
20240816_0703	0.1	216
20240816_0713	0.1	171
20240816_0723	0.1	177
20240816_0733	0.1	108
20240816_0743	0.1	152
20240816_0753	0.1	119
20240816_0803	0.1	153
20240816_0813	0.3	266
20240816_0823	0.1	148
20240816_0833	0.1	236
20240816_0843	0.1	142
20240816_0853	0.1	162
20240816_0903	0.1	114
20240816_0913	0.1	160
20240816_0923	0.1	148
20240816_0933	0.1	134
20240816_0943	0.1	121
20240816_0953	0.1	138
20240816_1003	0.1	141
20240816_1013	0.1	51
20240816_1023	0.5	153
20240816_1033	0.1	102
20240816_1043	0.1	28
20240816_1053	1.8	60
20240816_1103	0.1	122
20240816_1113	0.1	342
20240816_1123	0.1	349
20240816_1133	0.6	1
20240816_1143	0.3	100
20240816_1153	0.1	333

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240816_1203	0.1	202
20240816_1213	0.1	53
20240816_1223	1.8	121
20240816_1233	0.5	82
20240816_1243	0.1	333
20240816_1253	0.8	100
20240816_1303	0.1	313
20240816_1313	0.1	210
20240816_1323	0.1	90
20240816_1333	0.1	281
20240816_1343	0.9	114
20240816_1353	0.1	324
20240816_1403	0.1	341
20240816_1413	0.1	183
20240816_1423	0.2	153
20240816_1433	0.1	205
20240816_1443	0.2	132
20240816_1453	0.1	318
20240816_1503	0.1	155
20240816_1513	0.3	204
20240816_1523	0.1	176
20240816_1533	0.1	120
20240816_1543	0.1	260
20240816_1553	0.5	248
20240816_1603	0.1	17
20240816_1613	0.1	276
20240816_1623	0.1	262
20240816_1633	0.1	251
20240816_1643	0.1	241
20240816_1653	0.1	236
20240816_1703	0.1	241
20240816_1713	0.1	246
20240816_1723	0.1	144
20240816_1733	0.1	125
20240816_1743	0.1	165
20240816_1753	0.1	141
20240816_1803	0.2	143
20240816_1813	0.2	155
20240816_1823	0.1	200
20240816_1833	0.1	115
20240816_1843	0.1	132
20240816_1853	0.1	120
20240816_1903	0.1	144
20240816_1913	0.1	68
20240816_1923	0.1	143
20240816_1933	0.1	141
20240816_1943	0.1	110
20240816_1953	0.1	155
20240816_2003	0.1	147
20240816_2013	0.1	146
20240816_2023	0.1	146
20240816_2033	0.1	117
20240816_2043	0.1	89
20240816_2053	0.1	89
20240816_2103	0.1	89
20240816_2113	0.1	74
20240816_2123	0.1	74
20240816_2133	0.1	74
20240816_2143	0.1	74
20240816_2153	0.1	57
20240816_2203	0.1	40
20240816_2213	0.1	88
20240816_2223	0.1	122
20240816_2233	0.1	117
20240816_2243	0.1	72
20240816_2253	0.1	55
20240816_2303	0.1	66
20240816_2313	0.1	132
20240816_2323	0.1	43
20240816_2333	0.1	293
20240816_2343	0.1	105
20240816_2353	0.1	139

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240817_0003	0.1	139
20240817_0013	0.1	87
20240817_0023	0.1	40
20240817_0033	0.1	312
20240817_0043	0.1	7
20240817_0053	0.1	45
20240817_0103	0.2	48
20240817_0113	0.1	78
20240817_0123	0.5	50
20240817_0133	0.1	105
20240817_0143	0.1	56
20240817_0153	0.1	99
20240817_0203	0.1	106
20240817_0213	0.1	125
20240817_0223	0.1	47
20240817_0233	0.1	84
20240817_0243	0.1	111
20240817_0253	0.1	32
20240817_0303	0.1	69
20240817_0313	0.1	3
20240817_0323	0.1	39
20240817_0333	0.1	74
20240817_0343	0.1	132
20240817_0353	0.1	170
20240817_0403	0.1	92
20240817_0413	0.1	45
20240817_0423	0.1	69
20240817_0433	0.1	95
20240817_0443	0.1	94
20240817_0453	0.1	62
20240817_0503	0.1	8
20240817_0513	0.1	71
20240817_0523	0.1	35
20240817_0533	0.3	73
20240817_0543	0.9	139
20240817_0553	0.1	265
20240817_0603	0.1	273
20240817_0613	0.1	310
20240817_0623	0.1	309
20240817_0633	0.1	273
20240817_0643	0.1	57
20240817_0653	0.1	129
20240817_0703	0.1	172
20240817_0713	0.1	319
20240817_0723	0.1	0
20240817_0733	0.1	131
20240817_0743	0.1	331
20240817_0753	0.1	65
20240817_0803	0.1	74
20240817_0813	0.1	52
20240817_0823	0.1	55
20240817_0833	0.1	41
20240817_0843	0.1	64
20240817_0853	0.1	9
20240817_0903	0.1	202
20240817_0913	0.1	76
20240817_0923	0.1	51
20240817_0933	0.1	18
20240817_0943	0.1	37
20240817_0953	0.1	53
20240817_1003	0.1	67
20240817_1013	0.1	333
20240817_1023	0.1	12
20240817_1033	0.1	78
20240817_1043	0.1	345
20240817_1053	0.1	113
20240817_1103	0.1	115
20240817_1113	0.1	193
20240817_1123	0.1	193
20240817_1133	0.1	99
20240817_1143	0.1	99
20240817_1153	0.1	99

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240817_1203	0.1	157
20240817_1213	0.1	321
20240817_1223	0.1	171
20240817_1233	0.1	141
20240817_1243	0.1	62
20240817_1253	0.2	27
20240817_1303	0.1	59
20240817_1313	0.2	108
20240817_1323	2.1	84
20240817_1333	0.1	111
20240817_1343	0.3	68
20240817_1353	0.2	47
20240817_1403	0.3	186
20240817_1413	0.3	58
20240817_1423	0.7	36
20240817_1433	0.1	49
20240817_1443	0.2	30
20240817_1453	0.5	123
20240817_1503	0.2	108
20240817_1513	2	102
20240817_1523	0.1	113
20240817_1533	0.8	88
20240817_1543	1	84
20240817_1553	1.1	177
20240817_1603	0.6	166
20240817_1613	0.3	119
20240817_1623	0.1	120
20240817_1633	0.1	120
20240817_1643	0.1	140
20240817_1653	0.1	207
20240817_1703	0.1	289
20240817_1713	0.1	178
20240817_1723	0.1	112
20240817_1733	0.1	289
20240817_1743	0.1	272
20240817_1753	0.3	96
20240817_1803	0.1	133
20240817_1813	0.6	121
20240817_1823	3.4	120
20240817_1833	0.1	346
20240817_1843	0.1	66
20240817_1853	0.1	352
20240817_1903	0.4	118
20240817_1913	0.1	147
20240817_1923	0.1	140
20240817_1933	0.1	74
20240817_1943	0.1	28
20240817_1953	0.1	297
20240817_2003	0.1	31
20240817_2013	0.1	27
20240817_2023	0.1	349
20240817_2033	0.1	78
20240817_2043	0.1	59
20240817_2053	0.1	35
20240817_2103	0.1	295
20240817_2113	0.1	41
20240817_2123	0.1	101
20240817_2133	0.1	56
20240817_2143	0.1	207
20240817_2153	0.1	50
20240817_2203	0.1	40
20240817_2213	0.1	7
20240817_2223	0.1	61
20240817_2233	0.1	298
20240817_2243	0.1	50
20240817_2253	0.1	112
20240817_2303	0.1	84
20240817_2313	0.1	80
20240817_2323	0.1	158
20240817_2333	0.1	61
20240817_2343	0.1	269
20240817_2353	0.1	126

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240818_0003	0.1	110
20240818_0013	0.1	48
20240818_0023	0.1	174
20240818_0033	0.1	239
20240818_0043	0.1	332
20240818_0053	0.1	241
20240818_0103	0.1	308
20240818_0113	0.1	308
20240818_0123	0.1	37
20240818_0133	0.1	46
20240818_0143	0.1	46
20240818_0153	0.1	46
20240818_0203	0.1	46
20240818_0213	0.1	46
20240818_0223	0.1	46
20240818_0233	0.1	46
20240818_0243	0.1	46
20240818_0253	0.1	51
20240818_0303	0.1	46
20240818_0313	0.1	46
20240818_0323	0.1	57
20240818_0333	0.1	57
20240818_0343	0.1	57
20240818_0353	0.1	57
20240818_0403	0.1	57
20240818_0413	0.1	57
20240818_0423	0.1	57
20240818_0433	0.1	56
20240818_0443	0.1	56
20240818_0453	0.1	56
20240818_0503	0.1	56
20240818_0513	0.1	56
20240818_0523	0.1	56
20240818_0533	0.1	56
20240818_0543	0.1	56
20240818_0553	0.1	340
20240818_0603	0.1	311
20240818_0613	0.1	22
20240818_0623	0.1	22
20240818_0633	0.1	79
20240818_0643	0.1	148
20240818_0653	1.4	152
20240818_0703	0.1	261
20240818_0713	0.1	295
20240818_0723	0.1	295
20240818_0733	0.1	337
20240818_0743	0.1	337
20240818_0753	0.1	76
20240818_0803	0.1	345
20240818_0813	0.1	27
20240818_0823	0.1	37
20240818_0833	0.1	37
20240818_0843	0.1	43
20240818_0853	0.1	43
20240818_0903	0.1	43
20240818_0913	0.1	43
20240818_0923	0.1	43
20240818_0933	0.1	43
20240818_0943	0.1	56
20240818_0953	0.1	56
20240818_1003	0.1	56
20240818_1013	0.1	57
20240818_1023	0.1	57
20240818_1033	0.1	74
20240818_1043	0.1	51
20240818_1053	0.1	28
20240818_1103	0.1	152
20240818_1113	0.1	26
20240818_1123	0.1	309
20240818_1133	0.1	136
20240818_1143	0.1	237
20240818_1153	0.1	237

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240818_1203	0.1	278
20240818_1213	0.1	126
20240818_1223	0.1	233
20240818_1233	0.1	206
20240818_1243	0.1	157
20240818_1253	0.1	236
20240818_1303	0.1	129
20240818_1313	0.2	133
20240818_1323	0.1	151
20240818_1333	0.2	232
20240818_1343	0.1	222
20240818_1353	0.1	230
20240818_1403	0.3	235
20240818_1413	0.1	192
20240818_1423	0.1	218
20240818_1433	0.1	125
20240818_1443	0.1	90
20240818_1453	0.1	82
20240818_1503	0.1	97
20240818_1513	0.1	115
20240818_1523	0.1	323
20240818_1533	1.3	142
20240818_1543	0.1	151
20240818_1553	0.1	97
20240818_1603	0.1	224
20240818_1613	0.1	179
20240818_1623	0.1	324
20240818_1633	0.1	238
20240818_1643	0.1	202
20240818_1653	0.1	243
20240818_1703	0.1	289
20240818_1713	0.1	182
20240818_1723	0.1	119
20240818_1733	0.1	119
20240818_1743	0.1	119
20240818_1753	0.1	56
20240818_1803	0.1	32
20240818_1813	0.1	41
20240818_1823	0.1	12
20240818_1833	0.1	34
20240818_1843	0.1	49
20240818_1853	0.1	72
20240818_1903	0.1	328
20240818_1913	0.1	315
20240818_1923	0.1	241
20240818_1933	0.1	252
20240818_1943	0.1	239
20240818_1953	0.1	37
20240818_2003	0.1	47
20240818_2013	0.1	37
20240818_2023	0.1	47
20240818_2033	0.1	49
20240818_2043	0.1	49
20240818_2053	0.1	49
20240818_2103	0.1	49
20240818_2113	0.1	99
20240818_2123	0.1	103
20240818_2133	0.1	131
20240818_2143	0.1	51
20240818_2153	0.2	8
20240818_2203	0.1	2
20240818_2213	0.1	131
20240818_2223	0.1	131
20240818_2233	0.1	48
20240818_2243	0.1	17
20240818_2253	0.1	349
20240818_2303	0.1	279
20240818_2313	0.1	195
20240818_2323	0.1	49
20240818_2333	0.1	118
20240818_2343	0.1	118
20240818_2353	0.1	118

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240819_0003	0.1	118
20240819_0013	0.1	118
20240819_0023	0.1	118
20240819_0033	0.1	49
20240819_0043	0.1	34
20240819_0053	0.1	46
20240819_0103	0.1	62
20240819_0113	0.1	62
20240819_0123	0.1	62
20240819_0133	0.1	54
20240819_0143	0.1	54
20240819_0153	0.1	54
20240819_0203	0.1	54
20240819_0213	0.1	54
20240819_0223	0.1	54
20240819_0233	0.1	54
20240819_0243	0.1	54
20240819_0253	0.1	54
20240819_0303	0.1	54
20240819_0313	0.1	54
20240819_0323	0.1	54
20240819_0333	0.1	54
20240819_0343	0.1	54
20240819_0353	0.1	55
20240819_0403	0.1	55
20240819_0413	0.1	55
20240819_0423	0.1	55
20240819_0433	0.1	55
20240819_0443	0.1	64
20240819_0453	0.1	64
20240819_0503	0.1	64
20240819_0513	0.1	64
20240819_0523	0.1	64
20240819_0533	0.1	64
20240819_0543	0.1	64
20240819_0553	0.1	64
20240819_0603	0.1	64
20240819_0613	0.1	64
20240819_0623	0.1	260
20240819_0633	0.1	260
20240819_0643	0.1	260
20240819_0653	0.1	260
20240819_0703	0.1	260
20240819_0713	0.1	260
20240819_0723	0.1	168
20240819_0733	0.1	169
20240819_0743	0.1	145
20240819_0753	0.1	222
20240819_0803	0.1	176
20240819_0813	0.1	176
20240819_0823	0.1	149
20240819_0833	0.1	196
20240819_0843	0.1	199
20240819_0853	0.1	159
20240819_0903	0.1	238
20240819_0913	0.1	234
20240819_0923	0.1	180
20240819_0933	0.1	177
20240819_0943	0.1	246
20240819_0953	0.1	131
20240819_1003	0.1	162
20240819_1013	0.1	105
20240819_1023	0.1	135
20240819_1033	0.1	138
20240819_1043	0.1	248
20240819_1053	0.1	149
20240819_1103	0.1	179
20240819_1113	0.1	207
20240819_1123	0.1	131
20240819_1133	0.1	120
20240819_1143	0.1	219
20240819_1153	0.1	184

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240819_1203	0.1	147
20240819_1213	0.1	155
20240819_1223	0.1	155
20240819_1233	0.2	185
20240819_1243	0.1	242
20240819_1253	0.1	210
20240819_1303	0.1	320
20240819_1313	0.1	300
20240819_1323	0.1	334
20240819_1333	0.1	330
20240819_1343	0.1	12
20240819_1353	0.1	12
20240819_1403	0.1	0
20240819_1413	0.1	132
20240819_1423	0.1	117
20240819_1433	0.1	117
20240819_1443	0.1	210
20240819_1453	0.1	126
20240819_1503	0.1	126
20240819_1513	0.1	126
20240819_1523	0.1	77
20240819_1533	0.1	82
20240819_1543	0.1	74
20240819_1553	0.1	152
20240819_1603	0.1	152
20240819_1613	0.1	226
20240819_1623	0.1	166
20240819_1633	0.1	166
20240819_1643	0.1	127
20240819_1653	0.1	131
20240819_1703	0.1	107
20240819_1713	0.1	66
20240819_1723	0.1	66
20240819_1733	0.1	65
20240819_1743	0.1	65
20240819_1753	0.1	64
20240819_1803	0.1	75
20240819_1813	0.1	133
20240819_1823	0.1	46
20240819_1833	0.1	49
20240819_1843	0.1	58
20240819_1853	0.6	166
20240819_1903	0.5	40
20240819_1913	0.1	66
20240819_1923	0.1	151
20240819_1933	0.1	151
20240819_1943	0.1	151
20240819_1953	0.1	75
20240819_2003	0.1	249
20240819_2013	0.1	94
20240819_2023	0.1	35
20240819_2033	0.1	35
20240819_2043	0.1	35
20240819_2053	0.1	351
20240819_2103	0.1	351
20240819_2113	0.1	351
20240819_2123	0.1	351
20240819_2133	0.1	351
20240819_2143	0.1	13
20240819_2153	0.1	13
20240819_2203	0.1	49
20240819_2213	0.1	49
20240819_2223	0.1	49
20240819_2233	0.1	117
20240819_2243	0.1	117
20240819_2253	0.1	117
20240819_2303	0.1	78
20240819_2313	0.1	78
20240819_2323	0.1	78
20240819_2333	0.1	78
20240819_2343	0.1	78
20240819_2353	0.1	78

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240820_0003	0.1	78
20240820_0013	0.1	78
20240820_0023	0.1	52
20240820_0033	0.1	52
20240820_0043	0.1	52
20240820_0053	0.1	52
20240820_0103	0.1	52
20240820_0113	0.1	63
20240820_0123	0.1	63
20240820_0133	0.1	11
20240820_0143	0.1	46
20240820_0153	0.1	46
20240820_0203	0.1	57
20240820_0213	0.1	34
20240820_0223	0.1	57
20240820_0233	0.1	57
20240820_0243	0.1	57
20240820_0253	0.1	57
20240820_0303	0.1	57
20240820_0313	0.1	57
20240820_0323	0.1	21
20240820_0333	0.1	29
20240820_0343	0.1	29
20240820_0353	0.1	29
20240820_0403	0.1	29
20240820_0413	0.1	29
20240820_0423	0.1	29
20240820_0433	0.1	29
20240820_0443	0.1	29
20240820_0453	0.1	29
20240820_0503	0.1	29
20240820_0513	0.1	29
20240820_0523	0.1	347
20240820_0533	0.1	347
20240820_0543	0.1	347
20240820_0553	0.1	36
20240820_0603	0.1	36
20240820_0613	0.1	61
20240820_0623	0.1	283
20240820_0633	0.1	9
20240820_0643	0.1	73
20240820_0653	0.1	62
20240820_0703	0.1	107
20240820_0713	0.1	48
20240820_0723	0.1	48
20240820_0733	0.1	48
20240820_0743	0.1	74
20240820_0753	0.1	101
20240820_0803	0.1	104
20240820_0813	0.1	112
20240820_0823	0.1	123
20240820_0833	0.1	108
20240820_0843	0.1	122
20240820_0853	0.1	97
20240820_0903	0.1	125
20240820_0913	0.1	215
20240820_0923	0.1	339
20240820_0933	0.1	154
20240820_0943	0.1	238
20240820_0953	0.1	219
20240820_1003	0.1	238
20240820_1013	0.1	218
20240820_1023	0.1	285
20240820_1033	0.1	158
20240820_1043	0.1	122
20240820_1053	0.1	231
20240820_1103	0.1	141
20240820_1113	0.1	235
20240820_1123	0.1	178
20240820_1133	0.1	264
20240820_1143	0.1	138
20240820_1153	0.1	231

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240820_1203	0.1	230
20240820_1213	0.1	232
20240820_1223	0.1	144
20240820_1233	0.7	261
20240820_1243	0.1	254
20240820_1253	0.1	243
20240820_1303	0.1	257
20240820_1313	0.1	222
20240820_1323	0.1	282
20240820_1333	0.1	201
20240820_1343	0.1	132
20240820_1353	0.2	110
20240820_1403	0.1	100
20240820_1413	0.1	176
20240820_1423	1.2	118
20240820_1433	0.1	234
20240820_1443	0.1	149
20240820_1453	0.1	106
20240820_1503	0.4	78
20240820_1513	0.1	155
20240820_1523	1.4	120
20240820_1533	0.1	127
20240820_1543	0.1	260
20240820_1553	0.1	263
20240820_1603	0.5	229
20240820_1613	0.7	226
20240820_1623	0.1	106
20240820_1633	0.1	233
20240820_1643	0.1	219
20240820_1653	0.1	145
20240820_1703	0.1	201
20240820_1713	0.1	215
20240820_1723	0.1	192
20240820_1733	0.1	129
20240820_1743	0.1	194
20240820_1753	0.1	313
20240820_1803	0.1	224
20240820_1813	0.1	243
20240820_1823	0.1	242
20240820_1833	0.1	239
20240820_1843	0.1	138
20240820_1853	0.1	129
20240820_1903	0.1	145
20240820_1913	0.1	205
20240820_1923	0.1	165
20240820_1933	0.1	252
20240820_1943	0.1	189
20240820_1953	0.1	158
20240820_2003	0.1	150
20240820_2013	0.1	150
20240820_2023	0.1	167
20240820_2033	0.1	148
20240820_2043	0.1	125
20240820_2053	0.1	148
20240820_2103	0.1	162
20240820_2113	0.1	127
20240820_2123	0.1	127
20240820_2133	0.1	72
20240820_2143	0.1	72
20240820_2153	0.1	53
20240820_2203	0.1	53
20240820_2213	0.1	53
20240820_2223	0.1	53
20240820_2233	0.1	17
20240820_2243	0.1	16
20240820_2253	0.1	32
20240820_2303	0.1	32
20240820_2313	0.1	48
20240820_2323	0.1	48
20240820_2333	0.1	48
20240820_2343	0.1	48
20240820_2353	0.1	48

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240821_0003	0.1	48
20240821_0013	0.1	310
20240821_0023	0.1	310
20240821_0033	0.1	310
20240821_0043	0.1	33
20240821_0053	0.1	83
20240821_0103	0.1	271
20240821_0113	0.1	271
20240821_0123	0.1	271
20240821_0133	0.1	335
20240821_0143	0.1	335
20240821_0153	0.1	335
20240821_0203	0.1	105
20240821_0213	0.1	68
20240821_0223	0.1	68
20240821_0233	0.1	25
20240821_0243	0.1	25
20240821_0253	0.1	67
20240821_0303	0.1	67
20240821_0313	0.1	67
20240821_0323	0.1	53
20240821_0333	0.1	310
20240821_0343	0.1	329
20240821_0353	0.1	110
20240821_0403	0.9	45
20240821_0413	0.1	314
20240821_0423	0.1	319
20240821_0433	0.1	318
20240821_0443	0.1	318
20240821_0453	0.1	319
20240821_0503	0.1	22
20240821_0513	0.1	22
20240821_0523	0.1	22
20240821_0533	0.1	128
20240821_0543	0.1	128
20240821_0553	0.1	40
20240821_0603	0.1	40
20240821_0613	0.1	25
20240821_0623	0.1	25
20240821_0633	0.1	25
20240821_0643	0.1	25
20240821_0653	0.1	351
20240821_0703	0.1	72
20240821_0713	0.1	34
20240821_0723	0.1	70
20240821_0733	0.2	89
20240821_0743	0.1	138
20240821_0753	0.1	98
20240821_0803	0.1	186
20240821_0813	0.1	101
20240821_0823	0.1	57
20240821_0833	0.1	87
20240821_0843	0.1	240
20240821_0853	0.1	212
20240821_0903	0.1	249
20240821_0913	0.1	239
20240821_0923	0.1	239
20240821_0933	0.1	160
20240821_0943	0.1	286
20240821_0953	4.4	178
20240821_1003	0.1	244
20240821_1013	0.1	236
20240821_1023	0.1	144
20240821_1033	0.1	182
20240821_1043	0.7	256
20240821_1053	0.1	222
20240821_1103	0.3	251
20240821_1113	0.1	263
20240821_1123	0.1	203
20240821_1133	0.1	195
20240821_1143	0.1	164
20240821_1153	0.1	127

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240821_1203	0.1	126
20240821_1213	0.1	208
20240821_1223	0.1	228
20240821_1233	0.1	294
20240821_1243	0.1	153
20240821_1253	0.1	125
20240821_1303	0.1	295
20240821_1313	0.1	87
20240821_1323	0.1	89
20240821_1333	0.1	90
20240821_1343	0.1	90
20240821_1353	0.1	2
20240821_1403	0.1	37
20240821_1413	0.1	98
20240821_1423	0.1	128
20240821_1433	0.1	111
20240821_1443	0.1	51
20240821_1453	0.1	51
20240821_1503	0.1	61
20240821_1513	0.1	121
20240821_1523	0.1	121
20240821_1533	0.1	118
20240821_1543	0.1	115
20240821_1553	0.1	115
20240821_1603	0.1	86
20240821_1613	0.1	32
20240821_1623	0.1	33
20240821_1633	0.1	94
20240821_1643	0.1	94
20240821_1653	0.1	52
20240821_1703	0.1	86
20240821_1713	0.1	105
20240821_1723	0.1	106
20240821_1733	0.1	65
20240821_1743	0.1	65
20240821_1753	0.1	96
20240821_1803	0.1	144
20240821_1813	0.1	143
20240821_1823	0.1	143
20240821_1833	0.1	43
20240821_1843	0.1	43
20240821_1853	0.1	43
20240821_1903	0.1	43
20240821_1913	0.1	139
20240821_1923	0.1	21
20240821_1933	0.1	70
20240821_1943	0.1	326
20240821_1953	0.1	67
20240821_2003	0.1	26
20240821_2013	0.1	345
20240821_2023	0.1	25
20240821_2033	0.1	25
20240821_2043	0.1	158
20240821_2053	0.1	199
20240821_2103	0.1	253
20240821_2113	0.1	198
20240821_2123	0.1	309
20240821_2133	0.1	13
20240821_2143	0.1	13
20240821_2153	0.1	37
20240821_2203	0.1	37
20240821_2213	0.1	37
20240821_2223	0.1	56
20240821_2233	0.1	25
20240821_2243	0.1	80
20240821_2253	0.1	59
20240821_2303	0.1	112
20240821_2313	0.1	165
20240821_2323	0.1	249
20240821_2333	0.1	176
20240821_2343	0.1	165
20240821_2353	0.1	165

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240822_0003	0.1	45
20240822_0013	0.1	51
20240822_0023	0.1	3
20240822_0033	0.1	298
20240822_0043	0.1	290
20240822_0053	0.1	241
20240822_0103	0.1	241
20240822_0113	0.1	241
20240822_0123	0.1	43
20240822_0133	0.1	154
20240822_0143	0.1	209
20240822_0153	0.1	183
20240822_0203	0.1	51
20240822_0213	0.1	219
20240822_0223	0.1	152
20240822_0233	0.1	289
20240822_0243	0.1	131
20240822_0253	0.1	131
20240822_0303	0.1	72
20240822_0313	0.1	72
20240822_0323	0.2	158
20240822_0333	0.1	47
20240822_0343	0.1	42
20240822_0353	0.3	154
20240822_0403	0.1	267
20240822_0413	0.1	316
20240822_0423	0.1	7
20240822_0433	0.1	7
20240822_0443	0.1	11
20240822_0453	0.1	278
20240822_0503	0.1	278
20240822_0513	0.1	39
20240822_0523	0.1	23
20240822_0533	0.1	23
20240822_0543	0.1	24
20240822_0553	0.1	24
20240822_0603	0.1	24
20240822_0613	0.1	16
20240822_0623	0.1	15
20240822_0633	0.1	124
20240822_0643	0.1	123
20240822_0653	0.1	57
20240822_0703	0.1	126
20240822_0713	0.1	50
20240822_0723	0.1	70
20240822_0733	0.5	52
20240822_0743	0.1	109
20240822_0753	0.1	74
20240822_0803	0.1	288
20240822_0813	0.2	29
20240822_0823	0.1	337
20240822_0833	0.1	307
20240822_0843	0.2	273
20240822_0853	0.1	242
20240822_0903	0.1	244
20240822_0913	0.1	240
20240822_0923	0.1	302
20240822_0933	0.1	153
20240822_0943	0.1	143
20240822_0953	0.1	109
20240822_1003	0.1	161
20240822_1013	0.1	127
20240822_1023	0.1	9
20240822_1033	0.1	212
20240822_1043	0.1	261
20240822_1053	0.1	114
20240822_1103	0.1	147
20240822_1113	0.1	109
20240822_1123	0.1	202
20240822_1133	0.1	103
20240822_1143	0.1	42
20240822_1153	0.1	147

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240822_1203	0.2	110
20240822_1213	0.4	154
20240822_1223	0.5	153
20240822_1233	1.4	143
20240822_1243	0.1	151
20240822_1253	0.1	92
20240822_1303	0.1	53
20240822_1313	0.1	95
20240822_1323	0.1	155
20240822_1333	0.1	114
20240822_1343	0.2	74
20240822_1353	0.1	61
20240822_1403	0.7	4
20240822_1413	0.1	161
20240822_1423	0.1	116
20240822_1433	0.1	50
20240822_1443	0.1	305
20240822_1453	2.4	167
20240822_1503	0.2	73
20240822_1513	0.1	141
20240822_1523	0.1	129
20240822_1533	0.1	21
20240822_1543	0.1	20
20240822_1553	0.1	57
20240822_1603	0.1	122
20240822_1613	0.1	84
20240822_1623	0.1	129
20240822_1633	0.1	153
20240822_1643	0.1	116
20240822_1653	0.1	105
20240822_1703	0.1	105
20240822_1713	0.1	78
20240822_1723	0.1	141
20240822_1733	0.1	51
20240822_1743	0.1	69
20240822_1753	0.1	56
20240822_1803	0.1	34
20240822_1813	0.1	37
20240822_1823	0.1	17
20240822_1833	0.1	17
20240822_1843	0.1	12
20240822_1853	0.1	80
20240822_1903	0.1	80
20240822_1913	0.1	80
20240822_1923	0.1	79
20240822_1933	0.1	79
20240822_1943	0.1	13
20240822_1953	0.1	344
20240822_2003	0.1	332
20240822_2013	0.1	319
20240822_2023	0.1	4
20240822_2033	0.1	142
20240822_2043	0.1	320
20240822_2053	0.1	320
20240822_2103	0.1	349
20240822_2113	0.1	349
20240822_2123	0.1	19
20240822_2133	0.1	19
20240822_2143	0.1	19
20240822_2153	0.1	19
20240822_2203	0.1	19
20240822_2213	0.1	19
20240822_2223	0.1	21
20240822_2233	0.1	21
20240822_2243	0.1	21
20240822_2253	0.1	21
20240822_2303	0.1	21
20240822_2313	0.1	21
20240822_2323	0.1	21
20240822_2333	0.1	21
20240822_2343	0.1	21
20240822_2353	0.1	21

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240823_0003	0.1	23
20240823_0013	0.1	23
20240823_0023	0.1	23
20240823_0033	0.1	40
20240823_0043	0.1	40
20240823_0053	0.1	3
20240823_0103	0.1	28
20240823_0113	0.1	28
20240823_0123	0.1	32
20240823_0133	0.1	32
20240823_0143	0.1	32
20240823_0153	0.1	32
20240823_0203	0.1	32
20240823_0213	0.1	32
20240823_0223	0.1	32
20240823_0233	0.1	32
20240823_0243	0.1	32
20240823_0253	0.1	340
20240823_0303	0.1	323
20240823_0313	0.1	323
20240823_0323	0.1	323
20240823_0333	0.1	23
20240823_0343	0.1	68
20240823_0353	0.1	23
20240823_0403	0.1	62
20240823_0413	0.1	56
20240823_0423	0.1	56
20240823_0433	0.1	165
20240823_0443	0.1	143
20240823_0453	0.1	103
20240823_0503	0.1	103
20240823_0513	0.1	63
20240823_0523	0.1	63
20240823_0533	0.1	63
20240823_0543	0.1	63
20240823_0553	0.1	63
20240823_0603	0.1	63
20240823_0613	0.1	63
20240823_0623	0.1	63
20240823_0633	0.1	63
20240823_0643	0.1	63
20240823_0653	0.1	63
20240823_0703	0.1	63
20240823_0713	0.1	63
20240823_0723	0.1	63
20240823_0733	0.1	125
20240823_0743	0.1	116
20240823_0753	0.1	93
20240823_0803	0.1	21
20240823_0813	0.1	71
20240823_0823	0.1	288
20240823_0833	0.1	224
20240823_0843	0.1	186
20240823_0853	0.1	161
20240823_0903	0.1	143
20240823_0913	0.1	144
20240823_0923	0.8	123
20240823_0933	0.1	165
20240823_0943	0.1	179
20240823_0953	0.1	150
20240823_1003	0.1	175
20240823_1013	0.1	211
20240823_1023	0.1	170
20240823_1033	0.1	148
20240823_1043	0.1	244
20240823_1053	0.1	113
20240823_1103	0.1	161
20240823_1113	0.1	142
20240823_1123	0.1	165
20240823_1133	0.1	138
20240823_1143	0.1	198
20240823_1153	0.1	239

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240823_1203	0.1	172
20240823_1213	0.1	193
20240823_1223	0.1	183
20240823_1233	0.1	203
20240823_1243	0.1	154
20240823_1253	0.1	234
20240823_1303	4.1	147
20240823_1313	0.1	250
20240823_1323	0.6	207
20240823_1333	0.1	275
20240823_1343	0.5	160
20240823_1353	0.1	135
20240823_1403	0.9	138
20240823_1413	0.1	152
20240823_1423	0.1	99
20240823_1433	0.4	145
20240823_1443	0.1	224
20240823_1453	0.4	241
20240823_1503	0.3	129
20240823_1513	0.1	148
20240823_1523	0.1	343
20240823_1533	0.1	271
20240823_1543	0.1	238
20240823_1553	0.1	143
20240823_1603	0.1	214
20240823_1613	0.1	176
20240823_1623	0.1	165
20240823_1633	0.1	146
20240823_1643	0.1	158
20240823_1653	0.1	151
20240823_1703	0.1	129
20240823_1713	0.1	167
20240823_1723	0.1	188
20240823_1733	0.1	65
20240823_1743	0.1	127
20240823_1753	0.1	94
20240823_1803	0.1	94
20240823_1813	0.1	94
20240823_1823	0.1	83
20240823_1833	0.1	83
20240823_1843	0.1	83
20240823_1853	0.1	83
20240823_1903	0.1	83
20240823_1913	0.1	83
20240823_1923	0.1	83
20240823_1933	0.1	83
20240823_1943	0.1	83
20240823_1953	0.1	83
20240823_2003	0.1	83
20240823_2013	0.1	83
20240823_2023	0.1	83
20240823_2033	0.1	330
20240823_2043	0.1	341
20240823_2053	0.1	328
20240823_2103	0.1	336
20240823_2113	0.1	132
20240823_2123	0.1	132
20240823_2133	0.1	253
20240823_2143	0.1	251
20240823_2153	0.1	223
20240823_2203	0.1	154
20240823_2213	0.1	50
20240823_2223	0.1	50
20240823_2233	0.1	50
20240823_2243	0.1	295
20240823_2253	0.1	324
20240823_2303	0.1	84
20240823_2313	0.1	84
20240823_2323	0.1	350
20240823_2333	0.1	55
20240823_2343	0.1	42
20240823_2353	0.1	118

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240824_0003	0.1	139
20240824_0013	0.1	144
20240824_0023	0.1	150
20240824_0033	0.1	150
20240824_0043	0.1	264
20240824_0053	0.1	136
20240824_0103	0.1	66
20240824_0113	0.1	57
20240824_0123	0.1	57
20240824_0133	0.1	57
20240824_0143	0.1	57
20240824_0153	0.1	57
20240824_0203	0.1	80
20240824_0213	0.1	80
20240824_0223	0.1	80
20240824_0233	0.1	80
20240824_0243	0.1	80
20240824_0253	0.1	80
20240824_0303	0.1	66
20240824_0313	0.1	66
20240824_0323	0.1	66
20240824_0333	0.1	66
20240824_0343	0.1	59
20240824_0353	0.1	59
20240824_0403	0.1	59
20240824_0413	0.1	59
20240824_0423	0.1	54
20240824_0433	0.1	54
20240824_0443	0.1	54
20240824_0453	0.1	54
20240824_0503	0.1	55
20240824_0513	0.1	55
20240824_0523	0.1	55
20240824_0533	0.1	55
20240824_0543	0.1	50
20240824_0553	0.1	51
20240824_0603	0.1	51
20240824_0613	0.1	50
20240824_0623	0.1	50
20240824_0633	0.1	50
20240824_0643	0.1	50
20240824_0653	0.1	50
20240824_0703	0.1	57
20240824_0713	0.1	143
20240824_0723	0.1	216
20240824_0733	0.1	192
20240824_0743	0.1	126
20240824_0753	0.1	179
20240824_0803	0.1	155
20240824_0813	0.1	152
20240824_0823	0.6	115
20240824_0833	0.1	180
20240824_0843	0.2	150
20240824_0853	0.1	150
20240824_0903	0.1	199
20240824_0913	0.1	214
20240824_0923	0.1	19
20240824_0933	0.1	204
20240824_0943	0.1	219
20240824_0953	0.1	155
20240824_1003	0.1	109
20240824_1013	0.2	172
20240824_1023	0.1	162
20240824_1033	0.1	146
20240824_1043	0.1	266
20240824_1053	0.1	211
20240824_1103	0.1	249
20240824_1113	0.1	146
20240824_1123	0.1	227
20240824_1133	0.1	76
20240824_1143	0.8	141
20240824_1153	0.1	332

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240824_1203	0.1	51
20240824_1213	0.2	148
20240824_1223	0.1	34
20240824_1233	0.1	228
20240824_1243	0.1	91
20240824_1253	0.1	129
20240824_1303	0.2	177
20240824_1313	0.1	114
20240824_1323	2.1	148
20240824_1333	1.3	325
20240824_1343	0.1	132
20240824_1353	0.2	235
20240824_1403	0.1	214
20240824_1413	0.1	172
20240824_1423	0.1	83
20240824_1433	0.1	299
20240824_1443	0.2	144
20240824_1453	0.1	88
20240824_1503	0.1	188
20240824_1513	0.1	241
20240824_1523	0.1	175
20240824_1533	0.2	294
20240824_1543	0.1	349
20240824_1553	0.8	119
20240824_1603	0.1	164
20240824_1613	0.1	90
20240824_1623	0.6	323
20240824_1633	0.7	106
20240824_1643	0.2	188
20240824_1653	4.8	129
20240824_1703	0.1	16
20240824_1713	1.6	123
20240824_1723	0.1	80
20240824_1733	0.2	57
20240824_1743	0.1	35
20240824_1753	0.1	88
20240824_1803	0.1	134
20240824_1813	0.4	85
20240824_1823	0.1	131
20240824_1833	0.1	63
20240824_1843	0.2	147
20240824_1853	0.1	104
20240824_1903	1.1	116
20240824_1913	0.1	48
20240824_1923	0.1	114
20240824_1933	0.1	164
20240824_1943	0.1	293
20240824_1953	0.1	6
20240824_2003	0.1	78
20240824_2013	0.1	53
20240824_2023	0.1	239
20240824_2033	0.1	13
20240824_2043	0.1	337
20240824_2053	0.1	338
20240824_2103	0.1	161
20240824_2113	0.1	161
20240824_2123	0.1	73
20240824_2133	0.1	132
20240824_2143	0.1	51
20240824_2153	0.1	111
20240824_2203	0.1	110
20240824_2213	0.1	110
20240824_2223	0.1	110
20240824_2233	0.1	37
20240824_2243	0.1	327
20240824_2253	0.1	43
20240824_2303	0.1	46
20240824_2313	0.1	46
20240824_2323	0.1	58
20240824_2333	0.1	84
20240824_2343	0.1	67
20240824_2353	0.1	46

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240825_0003	0.1	71
20240825_0013	0.1	51
20240825_0023	0.1	5
20240825_0033	0.1	317
20240825_0043	0.1	40
20240825_0053	0.1	40
20240825_0103	0.1	40
20240825_0113	0.1	40
20240825_0123	0.1	241
20240825_0133	0.1	147
20240825_0143	0.1	147
20240825_0153	0.1	147
20240825_0203	0.1	28
20240825_0213	0.1	9
20240825_0223	0.1	35
20240825_0233	0.1	40
20240825_0243	0.1	42
20240825_0253	0.1	46
20240825_0303	0.1	46
20240825_0313	0.1	46
20240825_0323	0.1	57
20240825_0333	0.1	124
20240825_0343	0.1	69
20240825_0353	0.1	61
20240825_0403	0.1	52
20240825_0413	0.1	53
20240825_0423	0.1	46
20240825_0433	0.1	46
20240825_0443	0.1	46
20240825_0453	0.1	52
20240825_0503	0.1	62
20240825_0513	0.1	62
20240825_0523	0.1	62
20240825_0533	0.1	43
20240825_0543	0.1	48
20240825_0553	0.1	50
20240825_0603	0.1	50
20240825_0613	0.1	50
20240825_0623	0.1	55
20240825_0633	0.1	34
20240825_0643	0.1	34
20240825_0653	0.1	55
20240825_0703	0.1	64
20240825_0713	0.1	64
20240825_0723	0.1	64
20240825_0733	0.1	64
20240825_0743	0.1	64
20240825_0753	0.1	136
20240825_0803	0.1	152
20240825_0813	0.1	300
20240825_0823	0.5	153
20240825_0833	0.1	265
20240825_0843	1.6	249
20240825_0853	0.1	150
20240825_0903	0.1	258
20240825_0913	0.1	231
20240825_0923	0.1	178
20240825_0933	0.1	181
20240825_0943	0.5	240
20240825_0953	0.1	191
20240825_1003	0.8	270
20240825_1013	0.6	146
20240825_1023	0.1	201
20240825_1033	0.1	241
20240825_1043	0.1	225
20240825_1053	0.1	204
20240825_1103	0.1	191
20240825_1113	1	149
20240825_1123	0.1	272
20240825_1133	1.5	152
20240825_1143	0.1	209
20240825_1153	0.2	153

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240825_1203	0.2	150
20240825_1213	0.4	88
20240825_1223	0.1	234
20240825_1233	0.3	69
20240825_1243	0.1	154
20240825_1253	0.1	247
20240825_1303	0.1	246
20240825_1313	0.1	181
20240825_1323	0.1	274
20240825_1333	0.2	280
20240825_1343	0.9	158
20240825_1353	0.2	243
20240825_1403	0.1	271
20240825_1413	1.4	272
20240825_1423	0.1	151
20240825_1433	0.1	147
20240825_1443	1.7	178
20240825_1453	0.1	122
20240825_1503	0.1	124
20240825_1513	0.2	144
20240825_1523	0.1	135
20240825_1533	0.1	151
20240825_1543	0.1	270
20240825_1553	0.1	100
20240825_1603	0.1	144
20240825_1613	0.1	157
20240825_1623	0.1	117
20240825_1633	0.1	102
20240825_1643	0.1	102
20240825_1653	0.1	47
20240825_1703	0.1	145
20240825_1713	0.1	127
20240825_1723	0.1	143
20240825_1733	0.1	68
20240825_1743	0.1	127
20240825_1753	1.6	353
20240825_1803	0.1	47
20240825_1813	0.2	95
20240825_1823	0.1	50
20240825_1833	0.1	51
20240825_1843	0.1	172
20240825_1853	0.1	154
20240825_1903	0.1	225
20240825_1913	0.1	104
20240825_1923	0.1	349
20240825_1933	0.1	61
20240825_1943	0.1	65
20240825_1953	0.1	43
20240825_2003	0.1	51
20240825_2013	0.1	40
20240825_2023	0.1	57
20240825_2033	0.1	53
20240825_2043	0.1	52
20240825_2053	0.1	62
20240825_2103	0.1	70
20240825_2113	0.1	87
20240825_2123	0.1	64
20240825_2133	0.9	99
20240825_2143	0.1	123
20240825_2153	0.1	75
20240825_2203	0.2	118
20240825_2213	0.1	111
20240825_2223	0.1	152
20240825_2233	0.1	46
20240825_2243	0.1	273
20240825_2253	0.2	178
20240825_2303	1.6	90
20240825_2313	0.1	135
20240825_2323	0.4	144
20240825_2333	0.1	86
20240825_2343	0.1	95
20240825_2353	0.1	342

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240826_0003	0.1	293
20240826_0013	0.1	212
20240826_0023	0.1	251
20240826_0033	0.1	144
20240826_0043	0.1	152
20240826_0053	0.1	29
20240826_0103	0.1	341
20240826_0113	0.1	77
20240826_0123	0.1	69
20240826_0133	0.1	349
20240826_0143	0.1	158
20240826_0153	0.1	158
20240826_0203	0.1	158
20240826_0213	0.1	59
20240826_0223	0.1	32
20240826_0233	0.1	51
20240826_0243	0.1	49
20240826_0253	0.1	16
20240826_0303	0.1	53
20240826_0313	0.1	53
20240826_0323	0.1	50
20240826_0333	0.1	68
20240826_0343	0.1	65
20240826_0353	0.1	53
20240826_0403	0.1	53
20240826_0413	0.1	53
20240826_0423	0.1	55
20240826_0433	0.1	55
20240826_0443	0.1	55
20240826_0453	0.1	45
20240826_0503	0.1	47
20240826_0513	0.1	51
20240826_0523	0.1	25
20240826_0533	0.1	33
20240826_0543	0.1	45
20240826_0553	0.1	20
20240826_0603	0.1	20
20240826_0613	0.1	20
20240826_0623	0.1	20
20240826_0633	0.1	20
20240826_0643	0.1	20
20240826_0653	0.1	20
20240826_0703	0.1	122
20240826_0713	0.1	122
20240826_0723	0.1	122
20240826_0733	0.1	121
20240826_0743	0.1	101
20240826_0753	0.1	137
20240826_0803	0.1	119
20240826_0813	0.1	130
20240826_0823	1.3	125
20240826_0833	0.1	238
20240826_0843	0.1	243
20240826_0853	0.1	247
20240826_0903	0.1	204
20240826_0913	0.1	161
20240826_0923	0.1	165
20240826_0933	0.1	146
20240826_0943	0.1	182
20240826_0953	0.1	77
20240826_1003	0.1	350
20240826_1013	0.1	100
20240826_1023	0.1	349
20240826_1033	0.9	120
20240826_1043	0.4	281
20240826_1053	0.1	227
20240826_1103	1.2	161
20240826_1113	0.1	164
20240826_1123	0.1	62
20240826_1133	0.1	326
20240826_1143	0.1	92
20240826_1153	0.2	38

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240826_1203	0.2	87
20240826_1213	0.4	142
20240826_1223	0.4	166
20240826_1233	0.1	278
20240826_1243	0.1	79
20240826_1253	0.3	144
20240826_1303	0.4	149
20240826_1313	0.4	115
20240826_1323	0.1	35
20240826_1333	0.1	49
20240826_1343	0.1	57
20240826_1353	0.1	339
20240826_1403	0.1	35
20240826_1413	0.1	121
20240826_1423	0.8	157
20240826_1433	0.1	142
20240826_1443	0.1	86
20240826_1453	0.2	325
20240826_1503	0.5	43
20240826_1513	0.1	40
20240826_1523	0.1	229
20240826_1533	0.1	229
20240826_1543	0.1	159
20240826_1553	0.1	153
20240826_1603	0.1	242
20240826_1613	0.1	179
20240826_1623	0.1	121
20240826_1633	0.1	163
20240826_1643	0.1	90
20240826_1653	0.1	29
20240826_1703	0.1	104
20240826_1713	0.1	66
20240826_1723	0.1	128
20240826_1733	0.1	157
20240826_1743	0.1	158
20240826_1753	0.9	83
20240826_1803	0.1	148
20240826_1813	0.1	170
20240826_1823	0.1	100
20240826_1833	0.1	96
20240826_1843	0.1	87
20240826_1853	0.1	82
20240826_1903	0.1	50
20240826_1913	0.1	35
20240826_1923	0.1	51
20240826_1933	0.1	101
20240826_1943	0.1	48
20240826_1953	0.1	24
20240826_2003	0.1	52
20240826_2013	0.1	71
20240826_2023	0.1	44
20240826_2033	0.1	50
20240826_2043	0.1	57
20240826_2053	0.1	59
20240826_2103	0.1	59
20240826_2113	0.1	59
20240826_2123	0.1	44
20240826_2133	0.1	48
20240826_2143	0.1	46
20240826_2153	0.1	46
20240826_2203	0.1	8
20240826_2213	0.1	51
20240826_2223	0.1	50
20240826_2233	0.1	48
20240826_2243	0.1	348
20240826_2253	0.1	55
20240826_2303	0.1	55
20240826_2313	0.1	52
20240826_2323	0.1	50
20240826_2333	0.1	30
20240826_2343	0.1	51
20240826_2353	0.1	53

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240827_0003	0.1	35
20240827_0013	0.1	53
20240827_0023	0.1	53
20240827_0033	0.1	46
20240827_0043	0.1	53
20240827_0053	0.1	55
20240827_0103	0.1	59
20240827_0113	0.1	54
20240827_0123	0.1	38
20240827_0133	0.1	52
20240827_0143	0.1	73
20240827_0153	0.1	58
20240827_0203	0.1	51
20240827_0213	0.1	51
20240827_0223	0.1	115
20240827_0233	0.1	115
20240827_0243	0.1	99
20240827_0253	0.1	59
20240827_0303	0.1	59
20240827_0313	0.1	55
20240827_0323	0.1	55
20240827_0333	0.1	54
20240827_0343	0.1	52
20240827_0353	0.1	50
20240827_0403	0.1	54
20240827_0413	0.1	60
20240827_0423	0.1	60
20240827_0433	0.1	60
20240827_0443	0.1	60
20240827_0453	0.1	60
20240827_0503	0.1	60
20240827_0513	0.1	60
20240827_0523	0.1	60
20240827_0533	0.1	44
20240827_0543	0.1	49
20240827_0553	0.1	49
20240827_0603	0.1	54
20240827_0613	0.1	54
20240827_0623	0.1	54
20240827_0633	0.1	53
20240827_0643	0.1	52
20240827_0653	0.1	52
20240827_0703	0.1	52
20240827_0713	0.1	64
20240827_0723	0.1	98
20240827_0733	0.1	117
20240827_0743	0.1	118
20240827_0753	0.1	126
20240827_0803	0.1	161
20240827_0813	0.1	297
20240827_0823	0.1	181
20240827_0833	0.1	258
20240827_0843	0.1	150
20240827_0853	0.5	150
20240827_0903	0.1	215
20240827_0913	0.1	214
20240827_0923	0.1	156
20240827_0933	0.1	233
20240827_0943	0.1	143
20240827_0953	0.1	305
20240827_1003	0.1	257
20240827_1013	0.1	175
20240827_1023	0.1	192
20240827_1033	0.1	184
20240827_1043	0.1	208
20240827_1053	0.1	243
20240827_1103	0.1	129
20240827_1113	0.1	246
20240827_1123	0.1	231
20240827_1133	0.1	153
20240827_1143	0.1	170
20240827_1153	0.2	145

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240827_1203	0.1	220
20240827_1213	0.6	217
20240827_1223	0.2	29
20240827_1233	0.1	176
20240827_1243	0.1	210
20240827_1253	0.1	141
20240827_1303	0.1	228
20240827_1313	0.5	176
20240827_1323	1.7	148
20240827_1333	0.1	241
20240827_1343	0.1	135
20240827_1353	0.1	219
20240827_1403	0.1	240
20240827_1413	0.1	246
20240827_1423	0.1	225
20240827_1433	1.1	171
20240827_1443	0.2	143
20240827_1453	0.3	251
20240827_1503	0.3	236
20240827_1513	0.1	229
20240827_1523	0.1	163
20240827_1533	0.1	217
20240827_1543	0.1	210
20240827_1553	0.1	343
20240827_1603	0.1	240
20240827_1613	0.1	247
20240827_1623	0.1	248
20240827_1633	0.1	155
20240827_1643	0.9	258
20240827_1653	0.1	160
20240827_1703	0.1	245
20240827_1713	0.1	165
20240827_1723	0.1	122
20240827_1733	0.1	147
20240827_1743	0.1	95
20240827_1753	0.1	83
20240827_1803	0.1	56
20240827_1813	0.1	51
20240827_1823	0.1	97
20240827_1833	0.1	127
20240827_1843	0.1	16
20240827_1853	0.1	36
20240827_1903	0.1	42
20240827_1913	0.1	101
20240827_1923	0.1	61
20240827_1933	0.1	27
20240827_1943	0.1	27
20240827_1953	0.1	58
20240827_2003	0.1	72
20240827_2013	0.1	72
20240827_2023	0.1	93
20240827_2033	0.1	88
20240827_2043	0.1	32
20240827_2053	0.1	33
20240827_2103	0.1	42
20240827_2113	0.1	58
20240827_2123	0.1	42
20240827_2133	0.1	58
20240827_2143	0.1	53
20240827_2153	0.1	42
20240827_2203	0.1	57
20240827_2213	0.1	50
20240827_2223	0.1	51
20240827_2233	0.1	41
20240827_2243	0.1	58
20240827_2253	0.1	58
20240827_2303	0.1	59
20240827_2313	0.1	35
20240827_2323	0.1	351
20240827_2333	0.1	38
20240827_2343	0.1	34
20240827_2353	0.1	36

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240828_0003	0.1	40
20240828_0013	0.1	47
20240828_0023	0.1	50
20240828_0033	0.1	58
20240828_0043	0.1	58
20240828_0053	0.1	58
20240828_0103	0.1	59
20240828_0113	0.1	41
20240828_0123	0.1	66
20240828_0133	0.1	67
20240828_0143	0.1	58
20240828_0153	0.1	47
20240828_0203	0.1	44
20240828_0213	0.1	12
20240828_0223	0.1	60
20240828_0233	0.1	54
20240828_0243	0.1	51
20240828_0253	0.1	40
20240828_0303	0.1	35
20240828_0313	0.1	40
20240828_0323	0.1	44
20240828_0333	0.1	45
20240828_0343	0.1	47
20240828_0353	0.1	64
20240828_0403	0.1	64
20240828_0413	0.1	63
20240828_0423	0.1	60
20240828_0433	0.1	48
20240828_0443	0.1	58
20240828_0453	0.1	57
20240828_0503	0.1	54
20240828_0513	0.1	63
20240828_0523	0.1	64
20240828_0533	0.1	339
20240828_0543	0.1	37
20240828_0553	0.1	43
20240828_0603	0.1	43
20240828_0613	0.1	43
20240828_0623	0.1	49
20240828_0633	0.1	46
20240828_0643	0.1	47
20240828_0653	0.1	48
20240828_0703	0.1	48
20240828_0713	0.1	139
20240828_0723	0.1	132
20240828_0733	0.1	95
20240828_0743	0.1	151
20240828_0753	0.1	87
20240828_0803	0.1	125
20240828_0813	0.1	156
20240828_0823	0.1	183
20240828_0833	0.1	46
20240828_0843	0.1	148
20240828_0853	0.5	184
20240828_0903	0.3	165
20240828_0913	0.1	236
20240828_0923	0.1	122
20240828_0933	0.1	106
20240828_0943	0.1	185
20240828_0953	0.1	130
20240828_1003	0.1	219
20240828_1013	0.1	101
20240828_1023	0.1	92
20240828_1033	0.7	152
20240828_1043	0.6	168
20240828_1053	0.1	205
20240828_1103	2.2	150
20240828_1113	0.2	277
20240828_1123	0.9	150
20240828_1133	0.2	349
20240828_1143	0.1	136
20240828_1153	0.1	195

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240828_1203	0.1	212
20240828_1213	0.1	154
20240828_1223	0.1	212
20240828_1233	0.1	159
20240828_1243	1.4	145
20240828_1253	0.1	189
20240828_1303	0.5	236
20240828_1313	0.1	229
20240828_1323	0.1	202
20240828_1333	0.3	236
20240828_1343	0.1	2
20240828_1353	0.1	234
20240828_1403	0.1	154
20240828_1413	0.3	233
20240828_1423	0.1	231
20240828_1433	0.1	132
20240828_1443	0.2	211
20240828_1453	0.1	187
20240828_1503	0.5	153
20240828_1513	0.1	58
20240828_1523	0.1	71
20240828_1533	1.2	67
20240828_1543	0.1	27
20240828_1553	0.3	50
20240828_1603	0.7	102
20240828_1613	0.1	127
20240828_1623	0.8	72
20240828_1633	0.5	112
20240828_1643	0.3	134
20240828_1653	0.1	18
20240828_1703	0.1	313
20240828_1713	0.2	20
20240828_1723	0.1	141
20240828_1733	0.1	55
20240828_1743	0.1	27
20240828_1753	0.1	338
20240828_1803	0.1	72
20240828_1813	0.1	52
20240828_1823	0.1	75
20240828_1833	0.1	79
20240828_1843	0.1	41
20240828_1853	0.1	190
20240828_1903	0.1	154
20240828_1913	0.1	82
20240828_1923	0.2	58
20240828_1933	0.1	311
20240828_1943	0.1	305
20240828_1953	0.1	340
20240828_2003	0.1	51
20240828_2013	0.1	46
20240828_2023	0.1	104
20240828_2033	0.1	141
20240828_2043	0.1	166
20240828_2053	0.3	153
20240828_2103	0.7	131
20240828_2113	0.1	79
20240828_2123	0.1	345
20240828_2133	0.1	339
20240828_2143	0.1	51
20240828_2153	0.1	92
20240828_2203	0.1	315
20240828_2213	0.1	305
20240828_2223	0.1	126
20240828_2233	0.1	49
20240828_2243	0.1	2
20240828_2253	0.1	247
20240828_2303	0.1	339
20240828_2313	0.1	40
20240828_2323	0.1	128
20240828_2333	0.1	60
20240828_2343	0.1	323
20240828_2353	0.1	36

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240829_0003	0.1	318
20240829_0013	0.1	89
20240829_0023	0.1	260
20240829_0033	0.1	274
20240829_0043	0.1	88
20240829_0053	0.1	129
20240829_0103	0.1	58
20240829_0113	0.1	352
20240829_0123	0.1	137
20240829_0133	0.1	90
20240829_0143	0.1	341
20240829_0153	0.1	49
20240829_0203	0.1	49
20240829_0213	0.1	48
20240829_0223	0.1	36
20240829_0233	0.1	276
20240829_0243	0.1	104
20240829_0253	0.1	81
20240829_0303	0.1	63
20240829_0313	0.1	62
20240829_0323	0.1	63
20240829_0333	0.1	63
20240829_0343	0.1	63
20240829_0353	0.1	112
20240829_0403	0.1	74
20240829_0413	0.1	55
20240829_0423	0.2	57
20240829_0433	0.1	315
20240829_0443	0.1	101
20240829_0453	0.1	101
20240829_0503	0.1	102
20240829_0513	0.1	98
20240829_0523	0.1	82
20240829_0533	0.1	82
20240829_0543	0.1	133
20240829_0553	0.1	112
20240829_0603	0.1	337
20240829_0613	0.1	32
20240829_0623	0.1	51
20240829_0633	0.1	50
20240829_0643	0.1	146
20240829_0653	0.1	146
20240829_0703	0.1	133
20240829_0713	0.1	133
20240829_0723	0.1	156
20240829_0733	0.1	100
20240829_0743	0.1	123
20240829_0753	0.1	179
20240829_0803	0.1	139
20240829_0813	0.1	134
20240829_0823	0.1	158
20240829_0833	0.1	247
20240829_0843	0.1	169
20240829_0853	0.1	176
20240829_0903	0.1	112
20240829_0913	0.1	96
20240829_0923	0.1	163
20240829_0933	0.1	312
20240829_0943	0.5	147
20240829_0953	3.1	162
20240829_1003	0.5	110
20240829_1013	0.2	140
20240829_1023	0.1	294
20240829_1033	0.1	63
20240829_1043	0.1	212
20240829_1053	0.2	79
20240829_1103	1	170
20240829_1113	0.1	136
20240829_1123	0.7	116
20240829_1133	0.2	113
20240829_1143	2.2	163
20240829_1153	0.4	126

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240829_1203	0.1	220
20240829_1213	0.5	137
20240829_1223	0.4	330
20240829_1233	0.1	164
20240829_1243	0.7	10
20240829_1253	1.6	60
20240829_1303	0.1	134
20240829_1313	0.4	326
20240829_1323	1.8	126
20240829_1333	0.4	96
20240829_1343	2.6	208
20240829_1353	1.8	96
20240829_1403	0.2	101
20240829_1413	0.2	186
20240829_1423	0.2	309
20240829_1433	0.1	214
20240829_1443	2.8	31
20240829_1453	0.1	226
20240829_1503	0.2	131
20240829_1513	0.2	350
20240829_1523	0.1	64
20240829_1533	0.2	29
20240829_1543	0.1	295
20240829_1553	0.9	8
20240829_1603	1	350
20240829_1613	0.2	40
20240829_1623	0.1	326
20240829_1633	0.1	147
20240829_1643	0.1	116
20240829_1653	0.1	332
20240829_1703	0.1	184
20240829_1713	0.4	121
20240829_1723	0.1	259
20240829_1733	0.1	194
20240829_1743	0.1	100
20240829_1753	0.1	119
20240829_1803	0.1	159
20240829_1813	0.1	331
20240829_1823	0.1	165
20240829_1833	0.1	131
20240829_1843	0.1	104
20240829_1853	0.1	59
20240829_1903	0.1	54
20240829_1913	0.1	136
20240829_1923	0.1	105
20240829_1933	0.1	83
20240829_1943	0.1	299
20240829_1953	0.1	74
20240829_2003	0.1	93
20240829_2013	0.6	150
20240829_2023	0.6	121
20240829_2033	0.1	125
20240829_2043	0.1	345
20240829_2053	0.1	70
20240829_2103	0.1	298
20240829_2113	0.1	138
20240829_2123	0.1	83
20240829_2133	0.2	107
20240829_2143	0.1	100
20240829_2153	0.1	87
20240829_2203	0.1	80
20240829_2213	0.1	221
20240829_2223	0.1	108
20240829_2233	0.1	124
20240829_2243	0.1	144
20240829_2253	0.1	197
20240829_2303	0.1	153
20240829_2313	0.1	169
20240829_2323	0.1	85
20240829_2333	0.1	67
20240829_2343	0.1	140
20240829_2353	0.3	95

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240830_0003	0.1	232
20240830_0013	1.6	34
20240830_0023	0.1	112
20240830_0033	0.1	139
20240830_0043	0.1	137
20240830_0053	0.1	249
20240830_0103	0.1	252
20240830_0113	0.3	280
20240830_0123	0.4	101
20240830_0133	0.2	80
20240830_0143	0.6	351
20240830_0153	0.2	114
20240830_0203	1.3	324
20240830_0213	1.8	119
20240830_0223	0.7	85
20240830_0233	1	98
20240830_0243	0.1	125
20240830_0253	0.1	151
20240830_0303	0.1	53
20240830_0313	0.1	347
20240830_0323	1.2	150
20240830_0333	0.1	272
20240830_0343	0.1	16
20240830_0353	1.5	36
20240830_0403	0.2	100
20240830_0413	0.1	295
20240830_0423	0.1	55
20240830_0433	0.1	96
20240830_0443	0.1	157
20240830_0453	0.1	350
20240830_0503	0.1	212
20240830_0513	0.1	335
20240830_0523	0.1	111
20240830_0533	0.1	125
20240830_0543	0.1	121
20240830_0553	0.1	135
20240830_0603	0.1	92
20240830_0613	0.1	74
20240830_0623	0.1	138
20240830_0633	0.7	0
20240830_0643	0.1	330
20240830_0653	0.2	36
20240830_0703	0.1	338
20240830_0713	1.1	32
20240830_0723	0.3	155
20240830_0733	0.1	135
20240830_0743	0.1	56
20240830_0753	0.1	11
20240830_0803	0.1	336
20240830_0813	0.1	148
20240830_0823	0.4	73
20240830_0833	1.9	127
20240830_0843	0.1	77
20240830_0853	0.1	2
20240830_0903	1.2	73
20240830_0913	0.1	178
20240830_0923	0.1	317
20240830_0933	0.1	130
20240830_0943	0.1	257
20240830_0953	0.1	120
20240830_1003	0.2	1
20240830_1013	2.2	293
20240830_1023	0.2	67
20240830_1033	0.1	116
20240830_1043	0.6	136
20240830_1053	0.6	145
20240830_1103	0.6	48
20240830_1113	0.4	69
20240830_1123	0.1	49
20240830_1133	0.1	242
20240830_1143	1.1	319
20240830_1153	0.1	322

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240830_1203	0.1	217
20240830_1213	0.6	146
20240830_1223	0.1	164
20240830_1233	0.1	323
20240830_1243	4.1	53
20240830_1253	0.2	332
20240830_1303	2.9	47
20240830_1313	0.1	306
20240830_1323	0.2	17
20240830_1333	0.1	261
20240830_1343	1.4	54
20240830_1353	0.1	246
20240830_1403	0.4	111
20240830_1413	0.3	79
20240830_1423	0.1	71
20240830_1433	0.7	26
20240830_1443	0.1	63
20240830_1453	0.1	6
20240830_1503	1.4	39
20240830_1513	0.1	259
20240830_1523	1.4	344
20240830_1533	0.2	78
20240830_1543	0.1	111
20240830_1553	0.1	124
20240830_1603	0.1	187
20240830_1613	1.3	31
20240830_1623	0.1	275
20240830_1633	0.2	122
20240830_1643	8.5	322
20240830_1653	0.6	349
20240830_1703	3.3	314
20240830_1713	0.2	64
20240830_1723	0.1	159
20240830_1733	0.8	350
20240830_1743	0.1	312
20240830_1753	0.9	69
20240830_1803	0.3	98
20240830_1813	0.3	157
20240830_1823	0.1	147
20240830_1833	0.3	63
20240830_1843	1.5	149
20240830_1853	0.1	99
20240830_1903	0.8	53
20240830_1913	1.9	99
20240830_1923	2.1	142
20240830_1933	0.1	131
20240830_1943	0.2	77
20240830_1953	2.6	148
20240830_2003	1.1	97
20240830_2013	2.6	154
20240830_2023	0.1	56
20240830_2033	0.1	202
20240830_2043	0.1	83
20240830_2053	1	42
20240830_2103	0.2	30
20240830_2113	0.2	234
20240830_2123	1.2	155
20240830_2133	0.1	188
20240830_2143	0.5	307
20240830_2153	0.1	22
20240830_2203	0.1	137
20240830_2213	0.1	28
20240830_2223	0.1	149
20240830_2233	0.1	309
20240830_2243	0.3	347
20240830_2253	0.2	147
20240830_2303	0.1	80
20240830_2313	0.1	136
20240830_2323	0.1	58
20240830_2333	0.1	155
20240830_2343	1	62
20240830_2353	0.1	208

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240831_0003	0.1	131
20240831_0013	0.1	118
20240831_0023	0.1	330
20240831_0033	0.1	213
20240831_0043	0.1	83
20240831_0053	0.1	277
20240831_0103	0.1	105
20240831_0113	0.1	109
20240831_0123	0.1	324
20240831_0133	0.3	121
20240831_0143	0.1	135
20240831_0153	0.1	59
20240831_0203	0.1	152
20240831_0213	0.1	103
20240831_0223	0.1	146
20240831_0233	0.1	67
20240831_0243	0.1	119
20240831_0253	0.1	89
20240831_0303	0.1	109
20240831_0313	0.1	71
20240831_0323	0.1	85
20240831_0333	0.1	68
20240831_0343	0.1	129
20240831_0353	0.1	160
20240831_0403	0.1	155
20240831_0413	0.1	144
20240831_0423	0.1	52
20240831_0433	0.1	56
20240831_0443	0.1	316
20240831_0453	0.1	31
20240831_0503	0.1	94
20240831_0513	0.1	142
20240831_0523	0.1	135
20240831_0533	0.1	160
20240831_0543	0.1	224
20240831_0553	0.1	87
20240831_0603	0.1	140
20240831_0613	0.1	130
20240831_0623	0.1	304
20240831_0633	0.1	333
20240831_0643	0.1	35
20240831_0653	0.1	84
20240831_0703	0.1	337
20240831_0713	0.1	105
20240831_0723	0.1	86
20240831_0733	0.1	142
20240831_0743	0.1	86
20240831_0753	0.1	268
20240831_0803	0.1	40
20240831_0813	0.1	134
20240831_0823	0.1	282
20240831_0833	0.1	11
20240831_0843	0.1	187
20240831_0853	0.3	310
20240831_0903	0.1	22
20240831_0913	0.1	41
20240831_0923	1.4	67
20240831_0933	0.5	317
20240831_0943	0.8	16
20240831_0953	0.1	119
20240831_1003	0.3	342
20240831_1013	0.8	127
20240831_1023	0.1	66
20240831_1033	2.2	66
20240831_1043	11.9	43
20240831_1053	0.3	4
20240831_1103	0.1	328
20240831_1113	0.4	103
20240831_1123	0.1	92
20240831_1133	0.1	12
20240831_1143	2.7	241
20240831_1153	0.3	94

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240831_1203	0.2	127
20240831_1213	0.9	55
20240831_1223	0.1	348
20240831_1233	1.9	160
20240831_1243	0.5	71
20240831_1253	0.1	134
20240831_1303	0.8	336
20240831_1313	2.2	121
20240831_1323	0.1	83
20240831_1333	0.1	326
20240831_1343	0.1	119
20240831_1353	1	16
20240831_1403	0.1	72
20240831_1413	0.6	33
20240831_1423	0.1	322
20240831_1433	0.1	67
20240831_1443	1.7	152
20240831_1453	2.3	324
20240831_1503	0.3	218
20240831_1513	0.7	8
20240831_1523	0.1	89
20240831_1533	0.1	319
20240831_1543	0.3	48
20240831_1553	0.6	148
20240831_1603	0.9	137
20240831_1613	2	103
20240831_1623	0.2	346
20240831_1633	0.3	6
20240831_1643	0.2	312
20240831_1653	0.5	84
20240831_1703	3.7	335
20240831_1713	0.6	331
20240831_1723	0.3	32
20240831_1733	0.3	237
20240831_1743	0.9	5
20240831_1753	0.4	312
20240831_1803	0.3	147
20240831_1813	2.2	233
20240831_1823	1.3	75
20240831_1833	2.2	133
20240831_1843	0.3	173
20240831_1853	0.1	31
20240831_1903	0.1	66
20240831_1913	0.1	124
20240831_1923	0.3	140
20240831_1933	0.1	172
20240831_1943	0.7	82
20240831_1953	0.3	20
20240831_2003	0.1	141
20240831_2013	0.1	156
20240831_2023	0.1	128
20240831_2033	0.1	103
20240831_2043	0.1	95
20240831_2053	0.3	139
20240831_2103	0.1	116
20240831_2113	0.1	147
20240831_2123	0.1	350
20240831_2133	0.1	86
20240831_2143	0.1	130
20240831_2153	0.1	156
20240831_2203	0.1	44
20240831_2213	0.1	115
20240831_2223	0.1	152
20240831_2233	0.1	68
20240831_2243	0.1	22
20240831_2253	0.1	127
20240831_2303	0.1	134
20240831_2313	0.3	126
20240831_2323	0.1	10
20240831_2333	0.1	119
20240831_2343	0.3	108
20240831_2353	0.1	44

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)
Dec-22	84.77	0	0	0	0	0	0	0	0	11.49	0	7.53	65.75
Jan-23	24.51	0	0	0	0	0	0	0	0	0	0	24.51	0
Feb-23	506.45	0	0	0	0	0	0	0	0	3.16	0	5.85	497.44
Mar-23	9,581.15	0	0	9,187	0	0	0	0	0	3.69	0	6.96	383.5
Apr-23	18,532.07	0	0	18,466	0	0	0	0	0	1.97	0	5.81	58.29
May-23	28,889.61	0	0	28,473	0	0	0	0	0	0	0	7.45	409.16
Jun-23	11,574.89	0	0	11,211	0	0	0	0	0	2.38	0	14.69	346.82
Jul-23	50,595.49	0	0	50,307	0	0	0	0	0	0	0	25.54	262.95
Aug-23	63,178.52	0	0	63,076	0	0	0	0	0	0	0	30.77	71.75
Sep-23	42,709.75	0	0	42,676	0	0	0	0	0	0	0	33.38	0
Oct-23	55,551.68	0	0	55,405	0	0	0	0	0	2.56	0	28.05	116.07
Nov-23	76,127.24	0	0	73,352	0	2629.37	0	0	0	0	0	35.13	110.74
Dec-23	63,389.25	0	0	57,681	0	5296.17	0	0	0	2.48	0	34.26	375.34
Jan-24	125,840.50	0	0	125,010	0	0	0	0	0	5.59	0	71.13	753.78
Feb-24	108,176.42	0	0	106,218	0	1771.16	0	0	0	0	0	53.76	133.17
Mar-24	70,683.04	0	0	68,989	0	1324.13	0	0	0	3.26	0	108.43	258.01
Apr-24	77,385.12	0	0	75,092	0	1883.87	0	0	0	0	0	112.54	296.71
May-24	45,429.31	0	1396.88	42,809	0	1022.68	0	0	0	0	0	90.72	110.1
Jun-24	24,576.63	0	4716.43	19,274	0	532.8	0	0	0	2.77	0	41.98	8.58
Jul-24	60,797.99	0	3676.77	55,948	0	1114.17	0	0	0	0	0	30.1	28.82
Aug-24	69,055.60	0	16982.92	51,327	0	712.8	0	0	0	0	0	33.16	0
Total	725,445.34	0.00	0.00	710,052	0.00	11,020.83	0.00	0.00	0.00	36.58	0.00	493.25	3,842.77

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:

1. 29 July 2024 Observation 1 – The discharge point was refilled to mitigate the risk of surface runoff at SBA.
2. 29 July 2024 Observation 2 – The enclosed bin was provided for waste segregation between general waste and C&D waste at SBA.

Observation(s):

Nil

Reminder(s)

1. The Contractor has been reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.

   The precautions to be taken at any time of year when rainstorms are likely
   i. Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly.
   ii. Temporarily exposed slope surfaces should be cover by tarpaulin.
   iii. Temporary access roads should be protected by crushed stone or gravel.
   iv. Intercepting channels should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces.
   v. Trenches should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.

   The actions to be taken when a rainstorm is imminent or forecast
   i. Silt removal facilities, channels and manholes should be checked to ensure that they can function properly.
   ii. Open stockpiles of construction materials (e.g. aggregates, sand and fill materials) on site should be covered with tarpaulin or similar fabric.
   iii. All temporary covers to slopes and stockpiles should be secured.

   The actions to be taken during or after rainstorms
   Silt removal facilities, channels and manholes should be checked and maintained to ensure satisfactory working conditions. Attention should be given to safety when carrying out this work.

2. The Contractor has been reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.
3. The Contractor has been instructed that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.

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

Nil

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/~~Kristy Wong/ Kyrie Wong~~	~~Sylvia Ho~~/ Jackie Tam/ ~~Marus Tam/Kenneth Lam~~
Date:	05 Aug 2024	/	05 Aug 2024	05 Aug 2024

Follow up action for previous Site Inspection:

Nil

Observation(s):

1. The generator without NRMM label is observed at Portion E3-1.
2. The general wastes are identified on the floor without proper disposal and collection at Portion E3-1.

Reminder(s)

1. The Contractor has been reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.

   The precautions to be taken at any time of year when rainstorms are likely
   i. Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly.
   ii. Temporarily exposed slope surfaces should be cover by tarpaulin.
   iii. Temporary access roads should be protected by crushed stone or gravel.
   iv. Intercepting channels should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces.
   v. Trenches should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.

   The actions to be taken when a rainstorm is imminent or forecast
   i. Silt removal facilities, channels and manholes should be checked to ensure that they can function properly.
   ii. Open stockpiles of construction materials (e.g. aggregates, sand and fill materials) on site should be covered with tarpaulin or similar fabric.
   iii. All temporary covers to slopes and stockpiles should be secured.

   The actions to be taken during or after rainstorms
   Silt removal facilities, channels and manholes should be checked and maintained to ensure satisfactory working conditions. Attention should be given to safety when carrying out this work.

2. The Contractor has been reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.

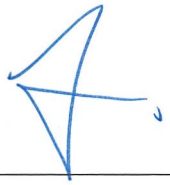
3. The Contractor has been reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.

4. The Contractor has been reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.

5. The Contractor has been reminded that the chemical drip tray should be kept clean at Portion E3-1 to prevent chemical leakage and land contamination.

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

1. The Contractor has been reminded that NRMM label should be affixed on the generator at Portion E3-1.
2. The Contractor has been advised that sufficient of enclosed bin should be provided for proper general waste collection and storage at Portion E3-1.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/Kristy Wong/ Kyrie Wong	Sylvia Ho/ Jackie Tam/ Marus Tam/Kenneth Lam
Date:	12 August 2024	/	12 August 2024	12 August 2024

Follow up action for previous Site Inspection:

1. The NRMM label was affixed on the generator at Portion E3-1.
2. The general wastes were cleaned at Portion E3-1.

Observation(s):

Nil

Reminder(s)

1. The Contractor has been reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.

   The precautions to be taken at any time of year when rainstorms are likely
   i. Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly.
   ii. Temporarily exposed slope surfaces should be cover by tarpaulin.
   iii. Temporary access roads should be protected by crushed stone or gravel.
   iv. Intercepting channels should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces.
   v. Trenches should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.

   The actions to be taken when a rainstorm is imminent or forecast
   i. Silt removal facilities, channels and manholes should be checked to ensure that they can function properly.
   ii. Open stockpiles of construction materials (e.g. aggregates, sand and fill materials) on site should be covered with tarpaulin or similar fabric.
   iii. All temporary covers to slopes and stockpiles should be secured.

   The actions to be taken during or after rainstorms
   Silt removal facilities, channels and manholes should be checked and maintained to ensure satisfactory working conditions. Attention should be given to safety when carrying out this work.

2. The Contractor has been reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.

3. The Contractor has been reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.

4. The Contractor has been reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.

5. The Contractor has been reminded that the exposed slope should be covered by tarpaulin sheet instead of green net after earthwork at Portion A.

6. The Contractor has been reminded that any breaks in the slope protection should be maintained and covered properly by impervious sheeting for short-term and should be shotcrete for long-term slope protection at SBA.

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

Nil

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:				
Name:	Joan Lo	Echo Hung	Matt Choy/~~Kristy Wong/ Kyrie Wong~~	~~Sylvia Ho/ Jackie Tam/ Marus Tam~~/ Saga Lam
Date:	19 August 2024	19 August 2024	19 August 2024	19 August 2024

Follow up action for previous Site Inspection:

Nil

Observation(s):

1. The chemical containers without drip tray are observed at Portion E3-1.

Reminder(s)

1. The Contractor has been reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.

   The precautions to be taken at any time of year when rainstorms are likely
   i. Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly.
   ii. Temporarily exposed slope surfaces should be cover by tarpaulin.
   iii. Temporary access roads should be protected by crushed stone or gravel.
   iv. Intercepting channels should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces.
   v. Trenches should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.

   The actions to be taken when a rainstorm is imminent or forecast
   i. Silt removal facilities, channels and manholes should be checked to ensure that they can function properly.
   ii. Open stockpiles of construction materials (e.g. aggregates, sand and fill materials) on site should be covered with tarpaulin or similar fabric.
   iii. All temporary covers to slopes and stockpiles should be secured.

   The actions to be taken during or after rainstorms
   Silt removal facilities, channels and manholes should be checked and maintained to ensure satisfactory working conditions. Attention should be given to safety when carrying out this work.

2. The Contractor has been reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.

3. The Contractor has been reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.

4. The Contractor has been reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.

5. The Contractor has been reminded that the exposed slope should be covered by tarpaulin sheet instead of green net after earthwork at Portion A.

6. The Contractor has been reminded that any breaks in the slope protection should be maintained and covered properly by impervious sheeting for short-term and should be shotcrete for long-term slope protection at SBA.

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

1. The contractor has been reminded that the chemical drip tray should be provided for chemical storage at Portion E3-1 to minimize the risk of chemical spillage and land contamination.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/~~Kristy Wong/ Kyrie Wong~~	~~Sylvia Ho~~/ Jackie Tam/ ~~Marus Tam/Kenneth Lam/ Saga Lam~~
Date:	27 August 2024	/	27 August 2024	27 August 2024

Appendix L Environmental Mitigation Implementation Schedule (EMIS)

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) ✓

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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 DSD Technical Circular TC01/2017 Water Pollution Control Ordinance	(a) ✓ (b) ✓
		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.					(a) ✓ (b) ✓ (c) ✓
		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.					(a) ✓ (b) ✓
		D8	• Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50 m^3 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.					✓
		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.					(a) ✓ (b) ✓
		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 silly surface runoff during storm events, especially for areas located near steep slopes.					✓
		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 silly water to public roads and drains.					(a) ✓ (b) ✓ (c) ✓ (d) ✓ (e) ✓
		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) N/A (b) N/A (c) N/A
		D13	• 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.					✓
		D14	• 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.					✓
		D15	• To prevent pollution risks arising from works area (waste reception area) and haul roads, intercepting bund or barrier along the roadside should be constructed.					✓
		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.					(a) ✓ (b) ✓
		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.					N/A

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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 DSD Technical Circular TC01/2017 Water Pollution Control Ordinance Waste Disposal Ordinance	(a) ✓ (b) ✓
		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.					N/A
		-	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.					✓
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 Water Pollution Control Ordinance Waste Disposal Ordinance	(a) N/A (b) N/A
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 Water Pollution Control Ordinance	✓
		-	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.					✓
		-	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 Sheeting Plastic Sheeting 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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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)	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.				F&IU (Confined Spaces) Regulations	✓
	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.				Code of Practice on Safety and Health at Work in Confined Spaces	✓
	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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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 Code of Practice on Safety and Health at Work in Confined Spaces	✓
	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.					(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.					✓

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.

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
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) Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes, EPD (1992) ETWB TC(W)) No. 33/2002 Management of Construction and Demolition Material Including Rock DEVB TC(W) No. 6/2010 Trip Ticket System for Disposal of Construction and Demolition Materials ETWB TC(W)No.19/2005 Environmental Management on Construction Sites	✓
	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.					✓
	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.					✓
	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.					✓
	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.					✓
	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 reposited 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/A	Not 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

SITE BOUNDARY

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 ay 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

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"

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
NA	NA	NA	NA	NA	NA	NA	NA

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	6(1*)	0	6(1*)
Waste Management	0	0	0
Total	7(2*)	0	7(2*)

Remarks:

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

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