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

Monthly Environmental Monitoring and Audit Report (No. 20) – Jul 2024

2024-08-12

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Meinhardt Infrastructure and Environment Ltd
邁進基建環保工程顧問有限公司

10/F Genesis
33-35 Wong Chuk Hang Road
Hong Kong
香港黃竹坑道33-35號
創協坊10樓

Tel 電話: +852 2858 0738
Fax 傳真: +852 2540 1580

mail@meinhardt.com.hk
www.meinhardt-china.com
www.meinhardtgroup.com

Our Ref.: CL/91823/1518-VES
Date: 14 August 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.20) – July 2024

I refer to Condition 3.3 under Environmental Permit No. EP-292/2007 and Further Environmental Permit No. FEP-01/292/2007 and 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.20) – July 2024" dated 12 August 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,
223 – 231 Wai Yip Street, Kwun Tong
Hong Kong

T +852 3664 6888
F +852 3664 6999
E hongkong@aurecongroup.com
w aurecongroup.com

Ref: P521530-0000-REP-NN-0093

By Email

14 August 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.20) – July 2024 r1

In accordance with the requirement specified in Condition 3.3 of Environmental Permit No. EP-292/2007 and Further Environmental Permit No. FEP-02/292/2007, we are pleased to submit the certified "Monthly Environmental Monitoring and Audit Report (No.20) – July 2024 r1" dated 12 August 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.20) – July 2024 r1

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

Document Control Record

Document prepared by:

Aurecon Hong Kong Limited
Unit 1608, 16/F, Tower B, Manulife Financial Centre,
223 – 231 Wai Yip Street, Kwun Tong, Kowloon
Hong Kong S. A. R.
T +852 3664 6888
F +852 3664 6999
E hongkong@aurecongroup.com
W aurecongroup.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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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 20th Monthly EM&A Report presents the EM&A works conducted from 1 to 31 July 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, 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	5, 11, 17, 23 & 29 July 2024
-	Construction Noise Monitoring during normal weekdays at each monitoring station	5 times	6, 11 (NM1a) [1], 17, 19 (NM2a) [1], 23 & 29 July 2024
-	Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	11 (WM2) [1] & 19 (WM1) [1] July 2024
-	Landfill Gas Monitoring during normal weekdays for Construction Works	26 times	2 to 6, 8 to 13, 15 to 20, 22 to 27, 29 to 31 July 2024
-	Joint Environmental Site Inspection	5 times	2, 8, 15, 22 & 29 July 2024

Remarks:
[1] The Noise Monitoring at NM2a and Surface Water Quality Monitoring at WM1 on 11 July 2024 was changed to 19 Jul 2024 based on the security consideration of the overgrown lawn at the access road between Lin Ma Hang Tsuen to the relevant monitoring locations.

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.

ES7. The investigation of environmental complaint regarding the water quality on 9 May 2024 had been completed during the reporting period. The summary of the investigation is mentioned in below.

Environmental Complaint on 9 May 2024

ES8. It was noted that ET received an email from EPD-RNG on 9 May 2024 regarding EPD's receipt of 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). To avoid the potential impact of construction runoff from the project, some mitigation measures are recommended & reminded to implemented & review by the contractor.

Environmental Non-Conformance/Complaint/Summons and Prosecution

ES9. No non-compliance event, complaint and summons/prosecutions were recorded during the reporting period.

Reporting Change

ES10. There was no reporting change in the reporting period.

Future Key Issues

ES11. Works to be undertaken in the next month include:

ES Table3 Major Construction Works undertaken during the Next Reporting Period

-	Material loading and unloading, 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

ES12. 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 20th 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 July 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
2.5	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
2.9	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-01/292/2007	Throughout the Contract	Permit granted on 28 April 2022
	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	5, 11, 17, 23 & 29 July 2024
-	Construction Noise Monitoring during normal weekdays at each monitoring station	5 times	6, 11 (NM1a) [1], 17, 19 (NM2a) [1], 23 & 29 July 2024
-	Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	11 (WM2) [1] & 19 (WM1) [1] July 2024
-	Landfill Gas Monitoring during normal weekdays for Construction Works	26 times	2 to 6, 8 to 13, 15 to 20, 22 to 27, 29 to 31 July 2024
-	Joint Environmental Site Inspection	5 times	2, 8, 15, 22 & 29 July 2024
-	EPD-RNG General Site Inspection	1 time	16 July 2024

Remarks:
[1] The Noise Monitoring at NM2a and Surface Water Quality Monitoring at WM1 on 11 July 2024 was changed to 19 Jul 2024 based on the security consideration of the overgrown lawn at the access road between Lin Ma Hang Tsuen to the relevant monitoring locations.

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

5 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

26 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

5 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 15 July 2024. The Contractor has generally implemented part of the mitigation measures as recommended. One general site inspection was conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG) during the reporting period.

3 Air Quality Monitoring

3.1 Construction Dust

3.1.1 Monitoring Requirement

3.1.1.1 In accordance with the 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)	25 Aug 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
July 2024	28 (24 – 30)	38 (30 – 44)	47 (39 – 56)
Action Level	**>285**	**>279**	**>285**
Limit Level	**>500**		

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

Month	Average 24-hr TSP Concentration, µg/m³ (Range)		
	Dust Monitoring Station		
	AM1	AM2	AM3
July 2024	110 (93 – 128)	111 (100 – 119)	112 (99 – 135)
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)	2 Aug 2024
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
July 2024	60.7 (58.6 – 62.4)	55.5 (50.1 – 58.4)
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 on 19 July 2024 and WM2 on 11 July 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	6.71	>7.7	>7.8	6.9	>7.6	>7.7
DO in mg/L	7.4	<7.4	<4	7.8	<5	<4
Turbidity in NTU	5.1	>9.2	>9.5	34.3	>108.3	>108.9
Electrical Conductivity in µS/cm	59	---	---	147	---	---
SS in mg/L	6.3	>9.7	>11.4	22.6	>94.5	>94.7
Alkalinity in mg/L	16	---		41	---	
COD in mg/L	9			<5		
BOD_5 in mg/L	<2			<2		
TOC in mg/L	4			2		
Ammonia-nitrogen in mg/L	0.12			0.18		
TKN in mg/L	0.6			0.4		
Nitrate in mg/L	0.02			0.27		
Sulphate in mg/L	2			25		
Sulphite in mg/L	<2			<2		
Phosphorus in mg/L	0.02			<0.01		
Chloride in mg/L	5			6		
Sodium in µg/L	6970			6320		
Magnesium in µg/L	510			1350		
Calcium in µg/L	3380			19800		
Potassium in µg/L	780			2700		
Iron in µg/L	450			1720		
Nickel in µg/L	<1			<1		
Zinc in µg/L	<10			30		
Manganese in µg/L	37			577		
Copper in µg/L	2.0			2		
Lead in µg/L	<1			2		
Cadmium in µg/L	<0.2			<0.2		
Coliform Count in cfu/100mL	Not Detected			4000		
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 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 3,676.77 tonnes of C&D materials was reused in the project site. A total of 55,948 tonnes of C&D materials was reused at alternative disposal ground (NENT Landfill) during the reporting period. A total of 248.09 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 30.1 tonnes of general refuse and A total of 28.82 tonnes of 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	2 Jul 2024	0	0	0	20.1
	3 Jul 2024	0	0	0	20.1
	4 Jul 2024	0	0	0	20.1
	5 Jul 2024	0	0	0	20.1
	6 Jul 2024	0	0	0	20.1
	8 Jul 2024	0	0	0	20.1
	9 Jul 2024	0	0	0	20.1
	10 Jul 2024	0	0	0	20.1
	11 Jul 2024	0	0	0	20.1
	12 Jul 2024	0	0	0	20.1
	13 Jul 2024	0	0	0	20.0
	15 Jul 2024	0	0	0	20.1
	16 Jul 2024	0	0	0	20.1
	17 Jul 2024	0	0	0	20.1
	18 Jul 2024	0	0	0	20.1
	19 Jul 2024	0	0	0	20.1
	20 Jul 2024	0	0	0	20.1
	22 Jul 2024	0	0	0	20.1
	23 Jul 2024	0	0	0	20.1
	24 Jul 2024	0	0	0	20.1
	25 Jul 2024	0	0	0	20.1
	26 Jul 2024	0	0	0	20.1
	27 Jul 2024	0	0	0	20.1
	29 Jul 2024	0	0	0	20.1
	30 Jul 2024	0	0	0	20.1
	31 Jul 2024	0	0	0	20.2
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 02, 08, 15, 22 & 29 July 2024. A joint environmental site inspection was carried out by the representatives of the ER, the Contractor, IEC and the ET on 15 July 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:

02 July 2024

Reminder(s):

- The Contractor was reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.
- The Contractor was reminded that the slope protection should be scheduled and maintained at Portion A and SBA.

08 July 2024

Observation(s):

- The accumulation of deposited silt and grit was observed at Portion D. The Contractor was advised to provide channel, earth bunds, or sandbag barriers to properly direct stormwater to silt removal facility and clean up the deposited silt and grit regularly at Portion D.

Reminder(s):

- The Contractor was reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.
- The Contractor was reminded that stockpiling of dusty material should be covered properly by impervious sheet to prevent dust dispersion at Portion E3-1.

15 July 2024

Observation(s):

- The unpaved access road at Portion E3-1 is dusty and fugitive dust was observed. The Contractor was reminded that the unpaved assess road at Portion E3-1 should be wetted by water spraying to prevent dust dispersion.

Reminder(s):

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

22 July 2024

Observation(s):

- The chemical container without drip tray was observed at SBA. The Contractor was reminded to provide chemical drip tray for chemical storage to prevent chemical spillage and land contamination at SBA.

Reminder(s):

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

29 July 2024

Observation(s):

- Temporary channels, earth bunds, or sandbag barriers shall be provided at the low elevation of the slope and the roadside of the access road to properly direct stormwater to silt removal facilities at SBA. The Contractor was advised that the channel, earth bunds, or sandbag barriers should be provided on site to prevent surface run-off and to properly direct stormwater to the silt removal facility at SBA.
- The general waste and C&D waste shall be collected and stored separately at SBA. The Contractor was reminded that the general waste and C&D waste should be segregated by enclosed bin and C&D waste skip to ensure general waste and C&D waste are stored separately and properly at SBA.

Reminder(s):

- The Contractor was reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94, especially the wet-sep operation.
- The Contractor has been reminded that slope protection should be maintained regularly and properly to ensure the effectiveness of the slope surface protection layer, especially at SBA.

11.1.4 One genral 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
July 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**.

12.3.3 The investigation of environmental complaint regarding the water quality on 9 May 2024 had been completed during the reporting period. The summary of the investigation is mentioned in below.

Environmental Complaint on 9 May 2024

12.3.4 It was noted that ET received an email from EPD-RNG on 9 May 2024 regarding EPD's receipt of 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). While the nearest potential sources are the Potential Source 15 – Runoff from Dumping Area Potential Source 14 – Water pipe near EPD WQM Location GR3. Among the Potential Source 15 – Runoff from Dumping Area is the exposed area. There is high potential risk to creating high amount of muddy water.

12.3.5 However, it cannot exclude the potential risk at Portion A (Potential Source 11 – Construction Runoff from Portion A). Although the construction runoff appeared cloudy under the observation, construction runoff mixed with soil surface outside boundary easy create muddy water. If the high amount of construction runoff flowed through gap at site boundary, there are high amount of muddy water would be created final affect the water quality at Ping Yuen River. Due to the runoff is a part of the potential source, which may affect the water quality of Ping Yuen River, the inspection and maintenance at the boundary of Portion A should be conducted regularly.

12.3.6 In addition, part of the muddy water from stormwater drains from NENT Landfill of Wo Keng Shan Road may increase the concentration of runoff at Ping Yuen River. The stormwater drains collected the runoff from rainfall and runoff from dust control measures of existing landfill.

12.3.7 Due to continuous rainfall occurs from 18 to 23 April 2024, the severe weather increased the risk of landslips, finally increasing the concentration of suspended solids for surface runoff. Most rivers/streams/channels were affected by high amount of rainfall. Hence, the water quality of runoff at the complaint location would be affected by runoff from Wo Keng Shan, Shui Ngau Tso (Potential Source 3, 5 to 8, 10, 12 and 13) and other area between Surface WQM Location WM2 and the complaint location.

12.3.8 Although the silt removal facilities of the project were functionable normally under the investigation, part of surface protection layers appeared cracks and part of mitigation measures for control of construction runoff are established in progress. The Contractor should enhance checking and maintained the mitigation measures regularly to avoid minimising the

effectiveness of related mitigation measures. And the progress of slope surface protection should be completed as soon as possible.

12.3.9 To avoid the potential impact of construction runoff from the project, some mitigation measures are recommended & reminded to implemented & review by the contractor.

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, 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 Five 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. The investigation of environmental complaint regarding the water quality on 9 May 2024 had been completed during the reporting period. The summary of the investigation is mentioned in below.

Environmental Complaint on 9 May 2024

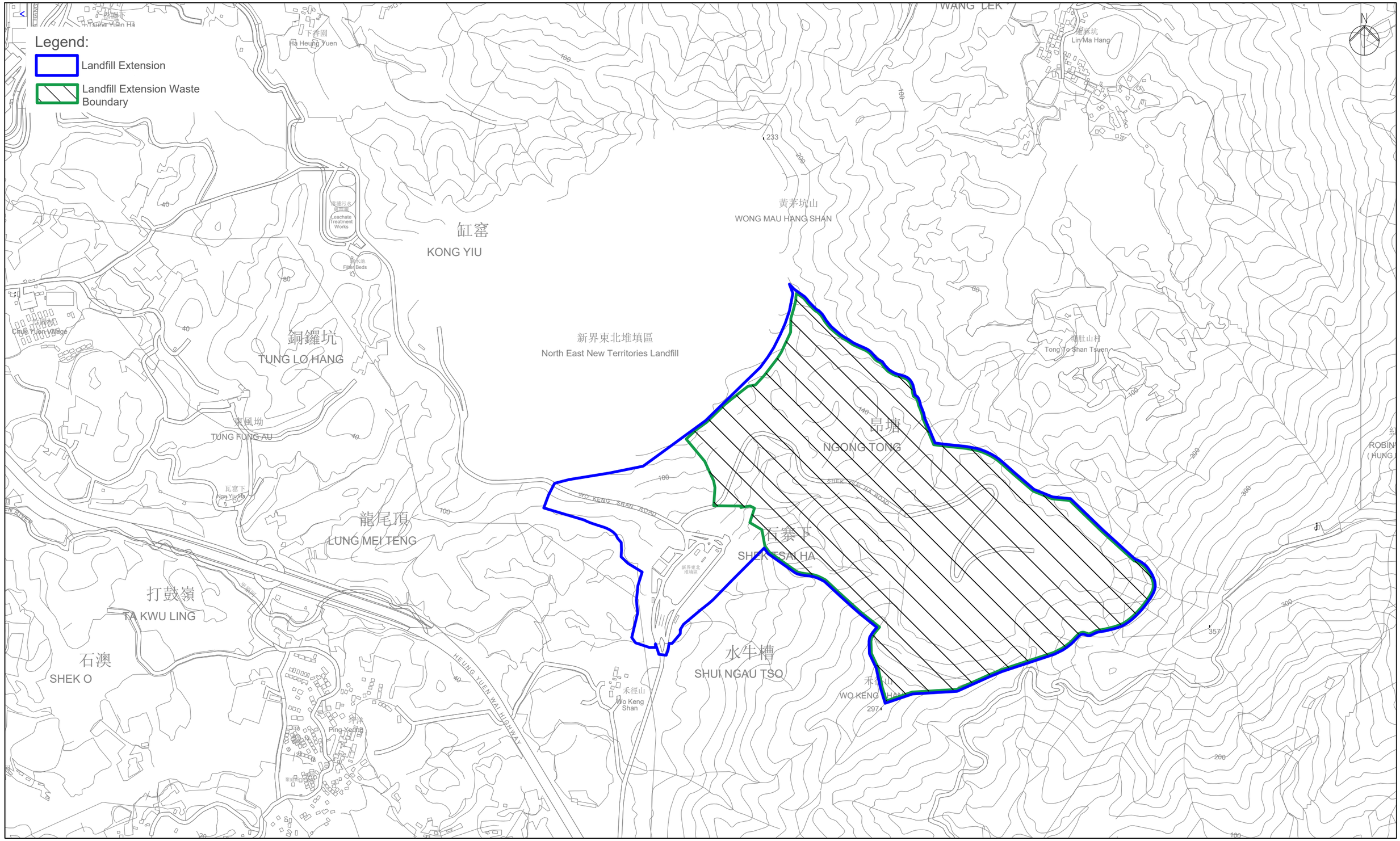
15.1.9 It was noted that ET received an email from EPD-RNG on 9 May 2024 regarding EPD's receipt of a memo from DSD/Mainland North regarding the incident of muddy water observed in Ping Yuen River, at the downstream of NENTX, on 23 April 2024. In summary of the investigation, the muddy water at the complaint 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). To avoid the potential impact of construction runoff from the project, some mitigation measures are recommended & reminded to implemented & review by the contractor.

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

15.1.11 No notification of summons and prosecution was received during the reporting period.

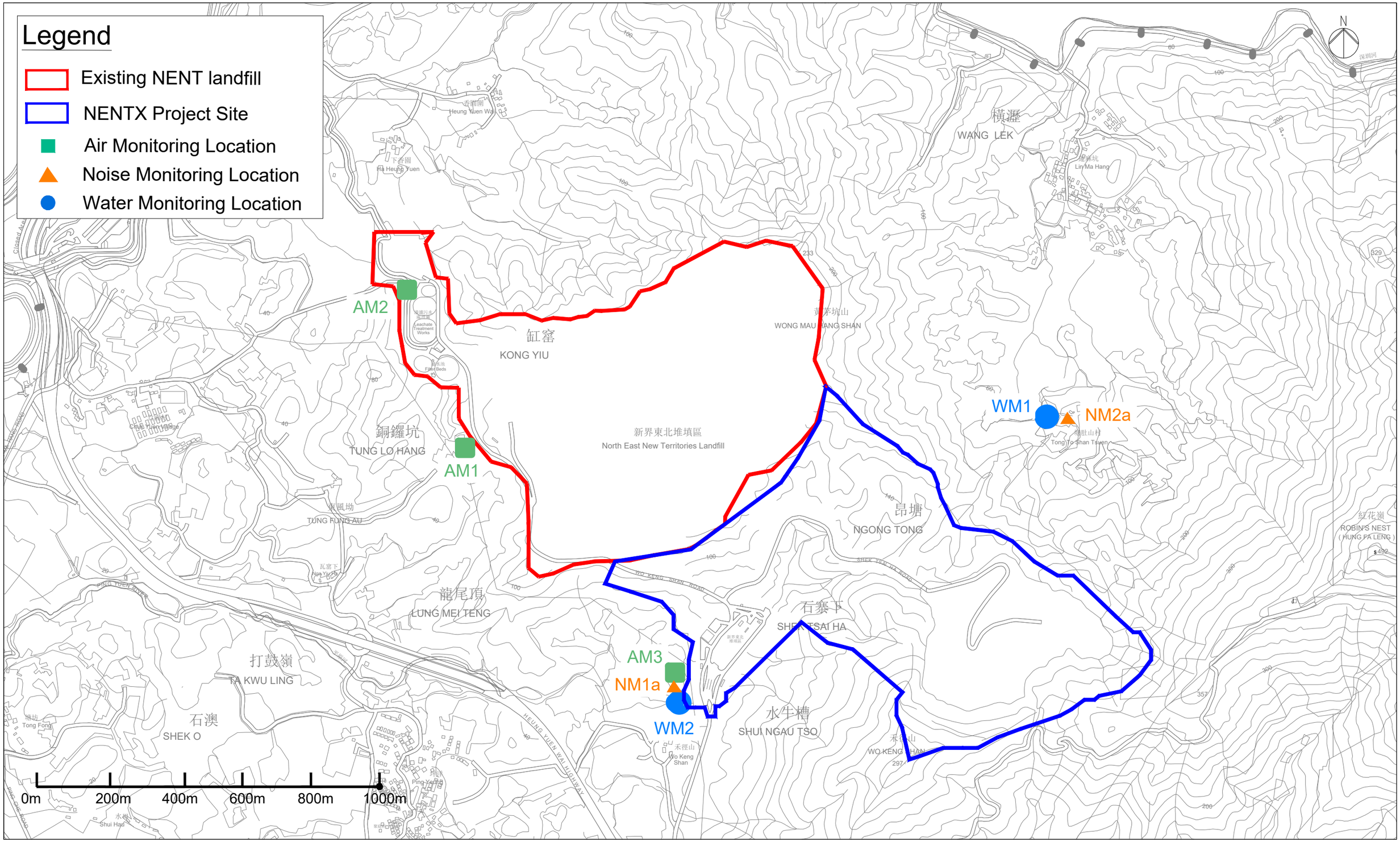
15.1.12 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

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

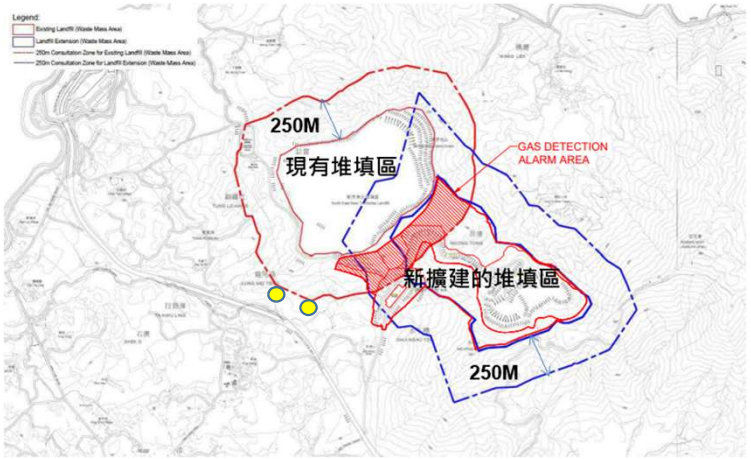


aurecon Aurecon Hong Kong Limited	North East New Territories (NENT) Landfill Extension Impact Monitoring Location	Figure 2

Figure 3 Landfill Gas Monitoring Locations

Gas Monitoring Point

Monitoring Frequency: 2 times per day



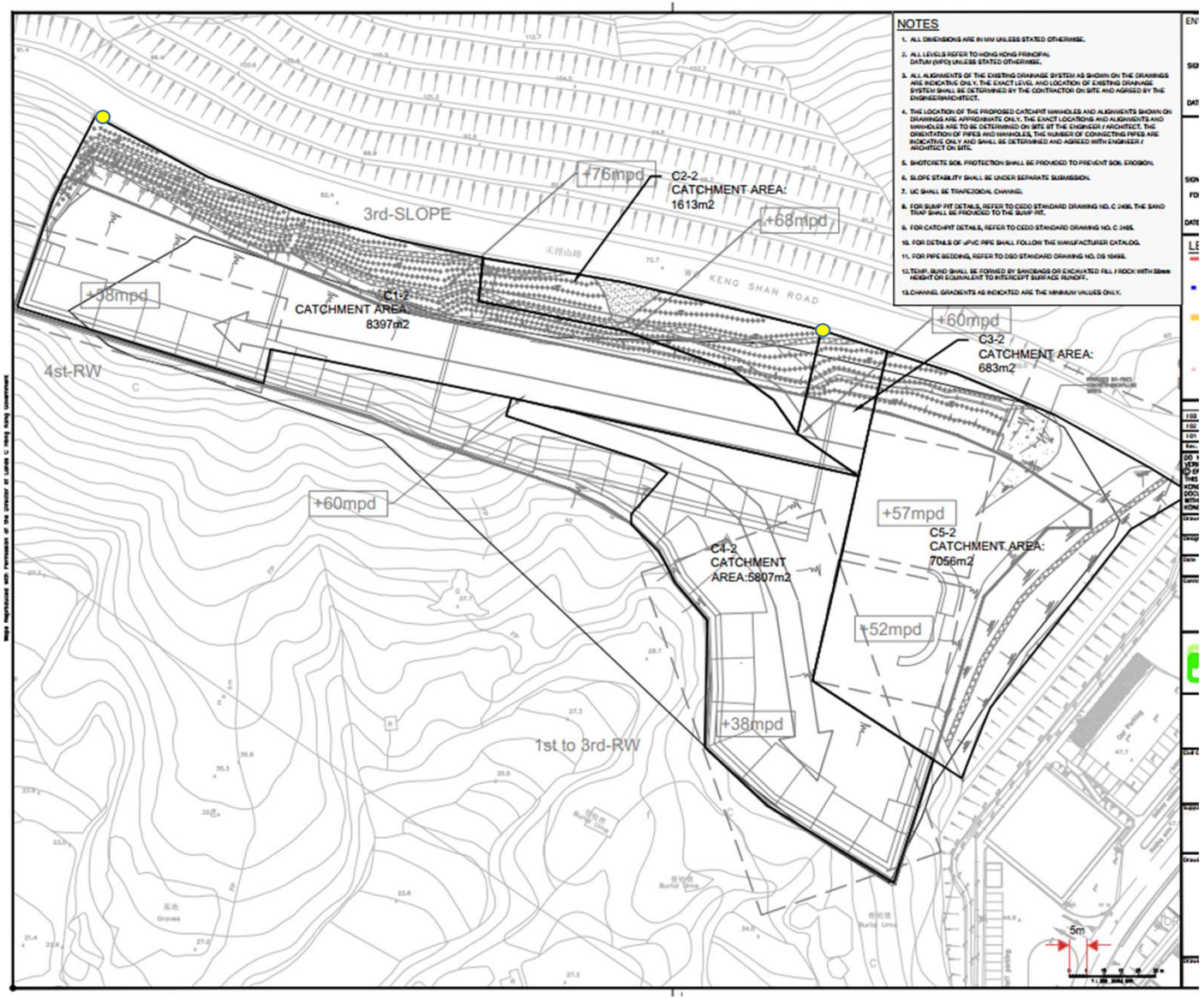
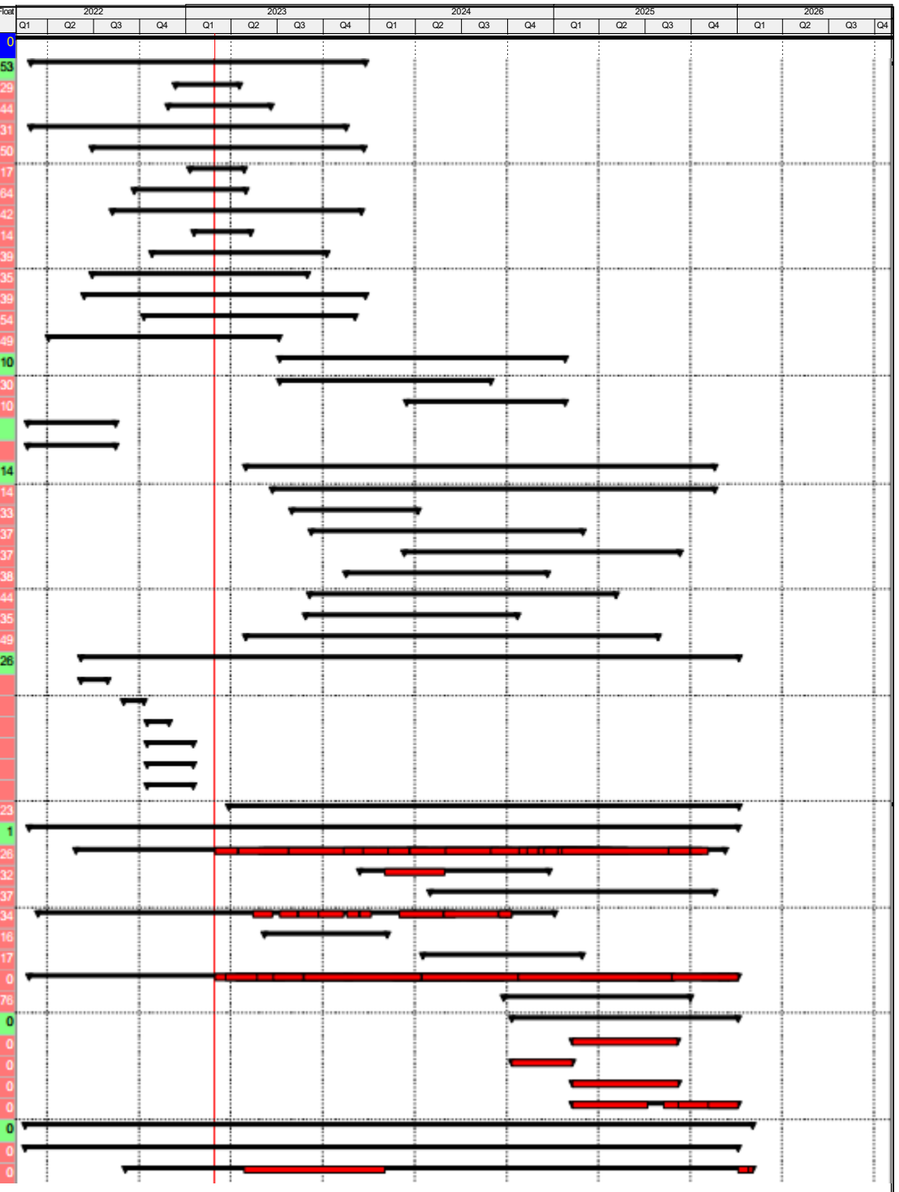


Figure 3 Landfill Gas Monitoring Locations

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)

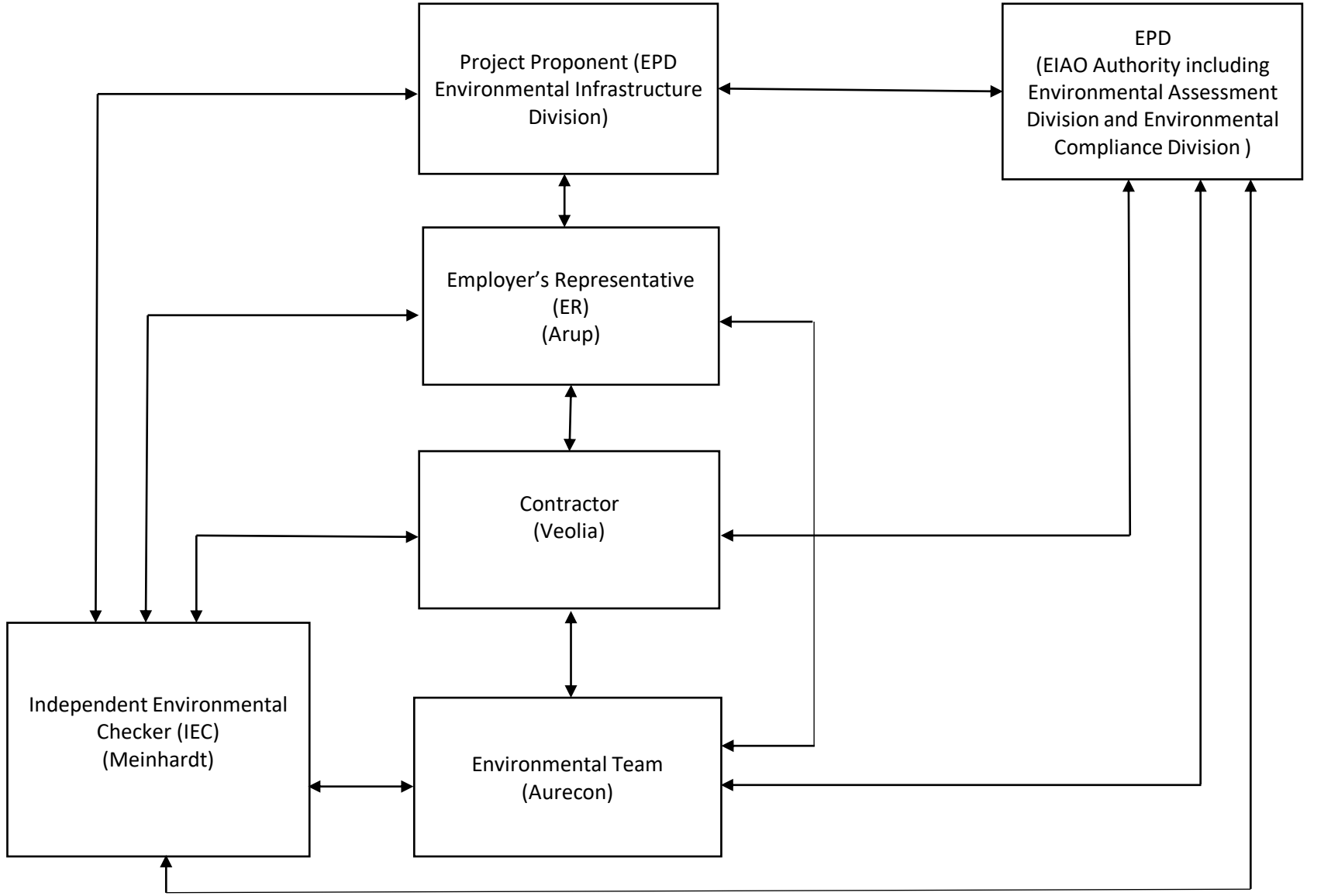
VEOLIA

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

Construction Activities	When	Where	Who	What - ENV Impacts	Mitigation Measures
Material loading and unloading, backfilling of material, site traffic	Dec 22 to Dec 23	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	Dec 22 to June 23	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	Dec 22 to June 23	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	Dec 22 to June 23	Portion A, Portion B1, Portion E4	PYE	Dust	Covering of cement storage area, enclosure of mixing area
Site formation	Dec 22 to Dec 23	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	Dec 22 to June 23	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)

Appendix D Monitoring Schedule for Reporting Month & Next Month

Impact Monitoring Schedule for NENT Landfill Extension (July 2024) (version 3.0)

7-2024						
Sun	**Mon**	**Tue**	**Wed**	**Thur**	**Fri**	**Sat**
	1	**2**	**3**	**4**	**5** Air quality monitoring at AM1, AM2 and AM3	**6** Noise monitoring at NM1a and NM2a
7	**8**	**9**	**10**	**11** Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a Surface water quality monitoring at WM2	**12**	**13**
14	**15**	**16**	**17** Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	**18**	**19** Noise monitoring at NM2a Surface water quality monitoring at WM1	**20**
21	**22**	**23** Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	**24**	**25**	**26**	**27**
28	**29** Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	**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. Noise monitoring at NM2a and Surface water quality monitoring at WM1 on 11 July 2024 changed to 19 July 2024 due to the security consideration of overgrown lawn.
5. Please arrange a Veolia staff to accompany our staff(s) to each locations for every monitoring.

Date: 27 May 2024

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.

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

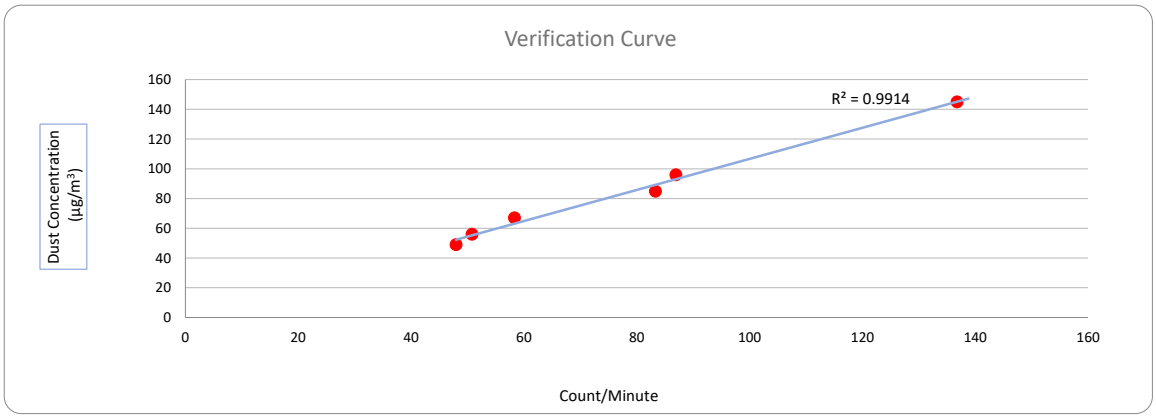
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

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

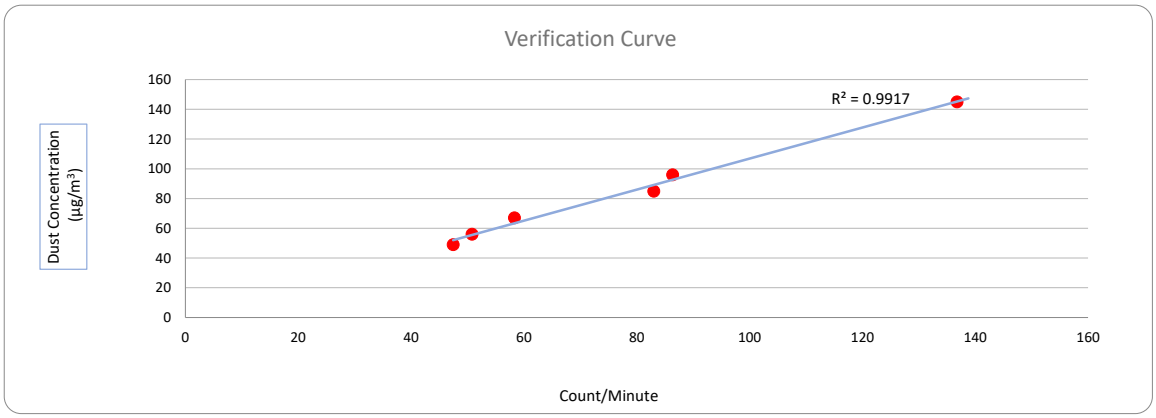
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

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

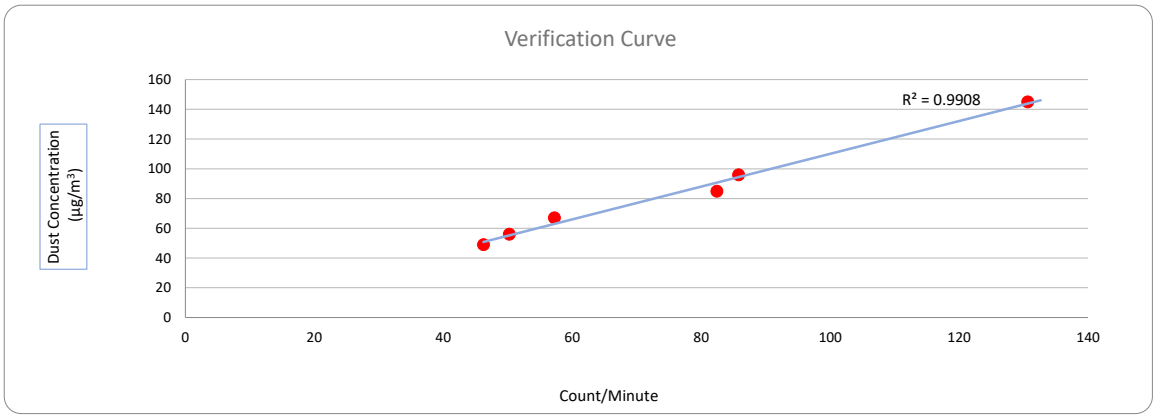
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

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

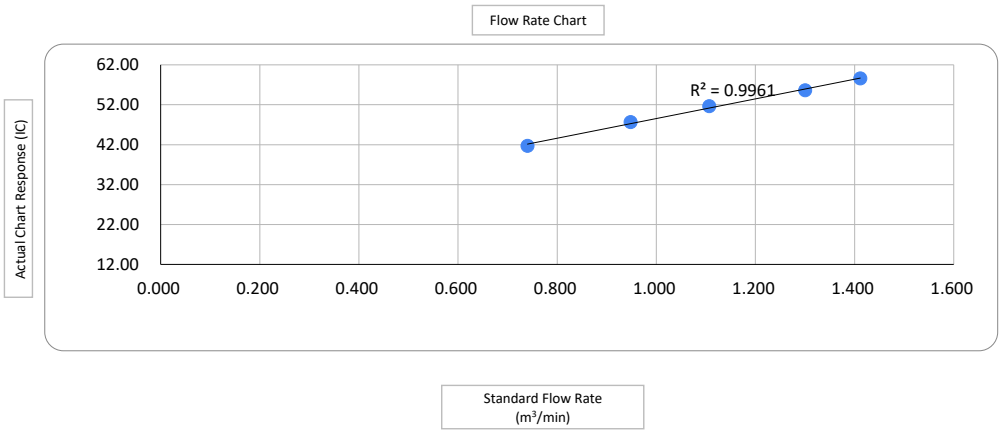
Calculations

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

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

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 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

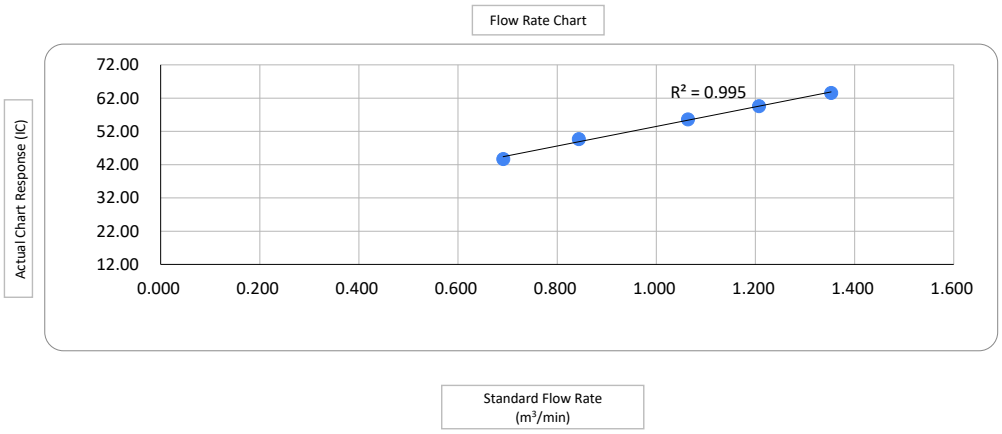
Calculations

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

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

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 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

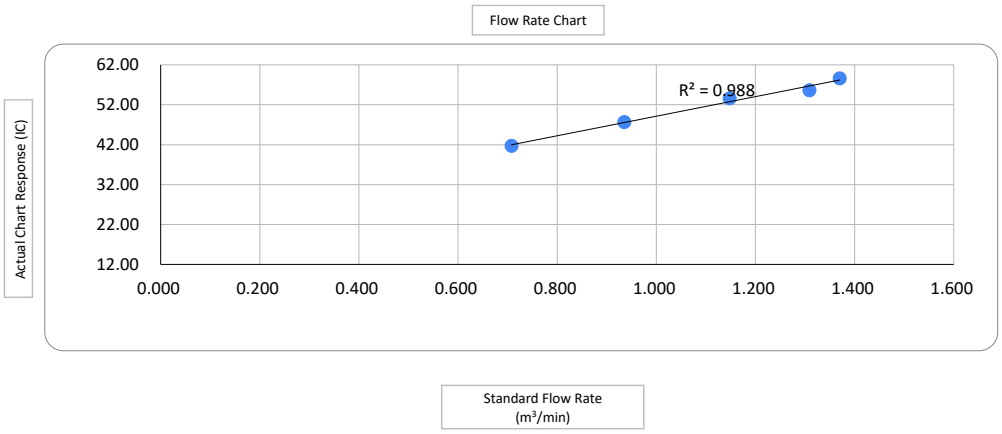
Calculations

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

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

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

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

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

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

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd.
聲學及空氣測試實驗室有限公司

Certificate of Calibration

for

Description:	***Sound Level Calibrator***
Manufacturer:	***RION***
Type No.:	***NC-75***
Serial No.:	***34724245***

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**
☐ **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: 27 July 2023

Date of calibration: 3 August 2023

Date of NEXT calibration: 2 August 2024

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: **3 August 2023**

Certificate No.: APJ23-049-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:	22.6 °C
Air Pressure:	1006 hPa
Relative Humidity:	52.9 %

4. *Calibration Equipment:*

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV220120	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.

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
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

(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
5/7/2024	Sibata LD-5R	882106	1.044	Fine	13:01	14:01	15:01	24	26	29	26	285	500
11/7/2024	Sibata LD-5R	882106	1.044	Fine	14:09	15:09	16:09	29	30	29	29		
17/7/2024	Sibata LD-5R	942532	1.102	Cloudy	14:12	15:12	16:12	30	29	26	28		
23/7/2024	Sibata LD-5R	882106	1.044	Fine	9:00	10:00	11:00	29	30	28	29		
29/7/2024	Sibata LD-5R	882106	1.044	Cloudy	9:00	10:00	11:00	25	30	29	28		
							Average	**28**					
							Max.	**30**					
							Min.	**24**					

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
5/7/2024	Sibata LD-5R	942532	1.102	Fine	13:09	14:09	15:09	41	42	40	41	279	500
11/7/2024	Sibata LD-5R	942532	1.102	Fine	14:21	15:21	16:21	39	38	39	39		
17/7/2024	Sibata LD-5R	0Z4545	1.045	Cloudy	14:22	15:22	16:22	40	41	44	42		
23/7/2024	Sibata LD-5R	0Z4545	1.045	Fine	8:31	9:31	10:31	36	30	34	33		
29/7/2024	Sibata LD-5R	0Z4545	1.045	Cloudy	8:30	9:30	10:30	30	39	37	35		
							Average	**38**					
							Max.	**44**					
							Min.	**30**					

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
5/7/2024	Sibata LD-5R	0Z4545	1.045	Fine	13:15	14:15	15:15	45	46	40	44	285	500
11/7/2024	Sibata LD-5R	0Z4545	1.045	Fine	14:31	15:31	16:31	41	40	39	40		
17/7/2024	Sibata LD-5R	882106	1.044	Cloudy	14:30	15:30	16:30	51	50	52	51		
23/7/2024	Sibata LD-5R	942532	1.102	Fine	8:45	9:45	10:45	50	51	56	52		
29/7/2024	Sibata LD-5R	942532	1.102	Cloudy	8:20	9:20	10:20	45	50	43	46		
							Average	**47**					
							Max.	**56**					
							Min.	**39**					

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)
5/7/2024	Fine	30.8	1008.5	3337.86	3361.86	1440	41	0.67	965	2.6757	2.7991	0.1234	128	164	260
11/7/2024	Fine	29.9	1005.8	3370.83	3394.83	1440	41	0.65	934	2.7156	2.8291	0.1135	122		
17/7/2024	Cloudy	29.0	1009.0	3402.72	3426.72	1440	40	0.64	916	2.7264	2.8310	0.1046	114		
23/7/2024	Fine	30.5	999.3	3435.46	3459.46	1440	44	0.76	1087	2.6922	2.7952	0.1030	95		
29/7/2024	Cloudy	27.6	1006.1	3466.24	3490.24	1440	40	0.61	885	2.6935	2.7757	0.0822	93		
												Average	**110**		
												Min	**93**		
												Max	**128**		

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)
5/7/2024	Fine	30.8	1008.5	2919.26	2943.26	1440	43	0.62	897	2.6885	2.7918	0.1033	115	164	260
11/7/2024	Fine	29.9	1005.8	2952.23	2976.23	1440	43	0.60	871	2.6948	2.7852	0.0904	104		
17/7/2024	Cloudy	29.0	1009.0	2986.10	3010.10	1440	45	0.68	977	2.7395	2.8554	0.1159	119		
23/7/2024	Fine	30.5	999.3	3019.88	3043.88	1440	43	0.61	879	2.6878	2.7887	0.1009	115		
29/7/2024	Cloudy	27.6	1006.1	3053.66	3077.66	1440	45	0.68	976	2.6971	2.7951	0.0980	100		
												Average	**111**		
												Min	**100**		
												Max	**119**		

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)
5/7/2024	Fine	30.8	1008.5	3896.21	3920.21	1440	40	0.60	870	2.6807	2.7978	0.1171	135	164	260
11/7/2024	Fine	29.9	1005.8	3929.99	3953.99	1440	42	0.66	954	2.7270	2.8277	0.1007	106		
17/7/2024	Cloudy	29.0	1009.0	3963.86	3987.86	1440	42	0.69	995	2.7298	2.8463	0.1165	117		
23/7/2024	Fine	30.5	999.3	3996.65	4020.65	1440	42	0.67	965	2.6840	2.7856	0.1016	105		
29/7/2024	Cloudy	27.6	1006.1	4030.52	4054.52	1440	41	0.63	906	2.7084	2.7977	0.0893	99		
												Average	**112**		
												Min	**99**		
												Max	**135**		

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
6/7/2024	Fine	1.7	13:13	13:43	61.4	62.4	62.6	63.2	61.7	62.8	62.4	63.2	64.5	64.9	65.2	63.6	64.4	60.2	61.3	61.9	62.4	60.3	61.9
11/7/2024	Fine	1.4	14:10	14:40	61.2	60.3	60.4	59.4	59.1	58.6	59.9	63.2	62.2	62.4	61.4	60.2	59.6	60.4	59.1	59.2	58.4	58.4	57.6
17/7/2024	Cloudy	1.2	14:30	15:00	60.2	61.4	61.9	62.4	61.4	61.8	61.6	63.2	64.1	64.9	65.6	64.3	64.9	57.2	58.6	58.8	60.3	58.9	60.4
23/7/2024	Fine	1.1	9:30	10:00	59.1	58.6	58.7	58.6	57.5	59.1	58.6	62.1	61.2	61.9	61.8	60.9	62.9	57.2	56.6	56.9	56.8	55.5	57.7
29/7/2024	Cloudy	1.3	13:02	13:32	59.5	60.1	58.3	59.3	60.4	60.9	59.8	62.3	63.8	61.3	62.9	63.3	64	54.5	55.5	55.7	54.8	55.3	55.9

Average	60.7
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
6/7/2024	Fine	1.9	14:06	14:36	47.2	48.6	49.1	49.4	51.2	52.6	50.1	49.3	50.2	51.6	51.9	53.2	54.4	45.1	46.3	47.4	47.7	49.1	49.9
17/7/2024	Cloudy	1.4	16:01	16:31	54.6	55.1	53.6	54.2	54.1	53.6	54.2	55.6	56.9	54.9	55.2	55	54.9	53.2	54.1	52.6	53.6	53	52.5
19/7/2024	Cloudy	1.2	15:10	15:40	58.7	57.6	59.2	58.2	57.6	58.9	58.4	60.3	59.4	61.2	60.5	59.3	60.9	56.2	55.4	57.6	56.9	55.4	56.1
23/7/2024	Fine	1.9	13:10	13:40	54.3	53.6	54.4	54.8	54.1	54.8	54.4	56.2	55.4	56.6	56.7	56.9	56.8	52.4	51.5	52.6	53.0	53.1	53.2
29/7/2024	Cloudy	2	15:05	15:35	56.7	57.2	57	56.2	55.6	56.4	56.5	57.8	58.4	58.1	56.7	56.9	57.8	52.8	53.6	53.1	54.1	52.4	53.7

Average	55.5
Baseline Level	54.5
Action Level	When one valid documented complaint is received
Limit Level	75

Remark:
1. Noise monitoring at NM2a on 11 July 2024 changed to 19 July 2024 due to the security consideration of overgrown lawn.

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
19-Jul-24	15:19	Cloudy	0.07	1.0	25.7	7.4	<7.4	<4	6.7	>7.7	>7.8	5.1	>9.2	>9.5	6.3	>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
11-Jul-24	8:00	Sunny	0.07	1.0	26.2	7.8	<5	<4	6.9	>7.6	>7.7	34.3	>108.3	>108.9	22.6	>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	: HK2429223
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	: 19-Jul-2024
Order number	: ----	Quote number	: HKE/2751/2022_V4	Issue Date	: 02-Aug-2024
C-O-C number	: ----			No. of samples received	: 1
Site	:			No. of samples analysed	: 1

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 19-Jul-2024 to 02-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: HK2429223

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 17:55.

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				Sample ID	WM1	----	----	----	----
				Sampling date / time	19-Jul-2024	----	----	----	----
Compound	CAS Number	LOR	Unit		HK2429223-001	-------	-------	-------	-------
EA/ED: Physical and Aggregate Properties									
EA025: Suspended Solids (SS)	----	0.1	mg/L		6.3	----	----	----	----
ED037: Total Alkalinity as CaCO3	----	1	mg/L		16	----	----	----	----
ED/EK: Inorganic Nonmetallic Parameters									
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L		2	----	----	----	----
ED045K: Chloride	16887-00-6	0.5	mg/L		5	----	----	----	----
EK055K: Ammonia as N	7664-41-7	0.01	mg/L		0.12	----	----	----	----
EK058A: Nitrate as N	14797-55-8	0.01	mg/L		0.02	----	----	----	----
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L		0.6	----	----	----	----
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L		0.02	----	----	----	----
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L		<2	----	----	----	----
EP: Aggregate Organics									
EP005: Total Organic Carbon	----	1	mg/L		4	----	----	----	----
EP020: Oil & Grease	----	5	mg/L		<5	----	----	----	----
EP026C: Chemical Oxygen Demand	----	5	mg/L		9	----	----	----	----
EP030: Biochemical Oxygen Demand	----	2	mg/L		<2	----	----	----	----
EG: Metals and Major Cations - Total									
EG020: Cadmium	7440-43-9	0.2	µg/L		<0.2	----	----	----	----
EG020: Copper	7440-50-8	1	µg/L		2	----	----	----	----
EG020: Lead	7439-92-1	1	µg/L		<1	----	----	----	----
EG020: Manganese	7439-96-5	1	µg/L		37	----	----	----	----
EG020: Nickel	7440-02-0	1	µg/L		<1	----	----	----	----
EG020: Zinc	7440-66-6	10	µg/L		<10	----	----	----	----
EG032: Calcium	7440-70-2	50	µg/L		3380	----	----	----	----
EG032: Iron	7439-89-6	10	µg/L		450	----	----	----	----
EG032: Magnesium	7439-95-4	50	µg/L		510	----	----	----	----
EG032: Potassium	7440-09-7	50	µg/L		780	----	----	----	----
EG032: Sodium	7440-23-5	50	µg/L		6970	----	----	----	----
EM: Microbiological Testing									
EM002: E. coli	----	1	CFU/100mL		NOT DETECTED	----	----	----	----

Sub-Matrix: WATER								
			Sample ID	WM1	----	----	----	----
			Sampling date / time	19-Jul-2024	----	----	----	----
Compound	CAS Number	LOR	Unit	HK2429223-001	-------	-------	-------	-------
EM: Microbiological Testing - Continued								
EM003: Total Coliforms	----	1	CFU/100mL	NOT DETECTED	----	----	----	----

-------- 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 Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 5940900)								
HK2429189-005	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	39.8	39.5	0.6
EA/ED: Physical and Aggregate Properties (QC Lot: 5943245)								
HK2428657-001	Anonymous	ED037: Total Alkalinity as CaCO3	----	1	mg/L	70	70	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5939169)								
HK2429187-021	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: 5941681)								
HK2428069-001	Anonymous	EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5941929)								
HK2429429-002	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	76	73	4.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5941930)								
HK2429123-006	Anonymous	ED045K: Chloride	16887-00-6	1	mg/L	<1	<1	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5944923)								
HK2429487-001	Anonymous	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	21.1	19.9	6.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5962931)								
HK2430072-001	Anonymous	EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	5170	5030	2.9
EP: Aggregate Organics (QC Lot: 5947662)								
HK2429187-026	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	<5	<5	0.0
EP: Aggregate Organics (QC Lot: 5956784)								
HK2429805-003	Anonymous	EP026C: Chemical Oxygen Demand	----	5	mg/L	20	20	0.0
EG: Metals and Major Cations - Total (QC Lot: 5939100)								
HK2429130-002	Anonymous	EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	210	210	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Manganese	7439-96-5	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	5	5	0.0
		EG020: Zinc	7440-66-6	10	µg/L	269	261	3.1

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: 5940900)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	10 mg/L	97.5	----	84.9	114	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 5943245)											
ED037: Total Alkalinity as CaCO3	----	1	mg/L	<1	50 mg/L	104	----	95.0	105	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5939169)											
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	94.4	----	92.4	106	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5941681)											
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	----	----	----	----	----	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5941929)											
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<1	5 mg/L	106	----	93.1	113	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5941930)											
ED045K: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	101	----	88.2	108	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5944923)											
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	98.4	----	89.3	109	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5962931)											
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	0.5 mg/L	108	----	88.9	119	----	----
EP: Aggregate Organics (QC Lot: 5937868)											
EP030: Biochemical Oxygen Demand	----	----	mg/L	----	198 mg/L	97.7	----	77.6	118	----	----
EP: Aggregate Organics (QC Lot: 5947662)											
EP005: Total Organic Carbon	----	1	mg/L	<1	5 mg/L	96.7	----	81.7	124	----	----
				<1	100 mg/L	105	----	84.8	114	----	----
EP: Aggregate Organics (QC Lot: 5956784)											
EP026C: Chemical Oxygen Demand	----	----	mg/L	----	25 mg/L	105	----	92.0	108	----	----
				----	250 mg/L	98.8	----	92.3	106	----	----
EP: Aggregate Organics (QC Lot: 5959434)											
EP020: Oil & Grease	----	2	mg/L	<2	20 mg/L	92.3	----	79.1	108	----	----
EG: Metals and Major Cations - Total (QC Lot: 5939100)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	5 µg/L	96.0	----	85.0	109	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	50 µg/L	107	----	90.0	111	----	----

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
EG: Metals and Major Cations - Total (QC Lot: 5939100) - Continued											
EG020: Lead	7439-92-1	1	µg/L	<1	50 µg/L	100	----	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	110	----	86.0	114	----	----
EG: Metals and Major Cations - Total (QC Lot: 5939101)											
EG032: Calcium	7440-70-2	50	µg/L	<50	2000 µg/L	100.0	----	85.0	115	----	----
EG032: Iron	7439-89-6	10	µg/L	<10	2000 µg/L	102	----	85.0	115	----	----
EG032: Magnesium	7439-95-4	50	µg/L	<50	2000 µg/L	101	----	85.0	115	----	----
EG032: Potassium	7440-09-7	50	µg/L	<50	2000 µg/L	97.9	----	85.0	115	----	----
EG032: Sodium	7440-23-5	50	µg/L	<50	2000 µg/L	102	----	85.0	115	----	----

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: 5939169)										
HK2429187-021	Anonymous	**EK071K: Reactive Phosphorus as P**	14265-44-2	0.5 mg/L	96.2	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5941929)										
HK2429429-002	Anonymous	**ED041K: Sulphate as SO4 - Turbidimetric**	----	50 mg/L	75.7	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5941930)										
HK2429123-006	Anonymous	**ED045K: Chloride**	16887-00-6	5 mg/L	93.4	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5944923)										
HK2429487-001	Anonymous	**EK055K: Ammonia as N**	7664-41-7	50 mg/L	111	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5962931)										
HK2430072-001	Anonymous	**EK061A: Total Kjeldahl Nitrogen as N**	----	500 mg/L	# Not Determined	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5947662)										
HK2429187-025	Anonymous	**EP005: Total Organic Carbon**	----	25 mg/L	94.7	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5956784)										
HK2429637-003	Anonymous	**EP026C: Chemical Oxygen Demand**	----	10 mg/L	94.0	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5939100)										
HK2429130-001	Anonymous	**EG020: Cadmium**	7440-43-9	5 µg/L	99.6	----	75.0	125	----	----
		EG020: Copper	7440-50-8	50 µg/L	106	----	75.0	125	----	----
		EG020: Lead	7439-92-1	50 µg/L	99.9	----	75.0	125	----	----
		EG020: Manganese	7439-96-5	50 µg/L	101	----	75.0	125	----	----
		EG020: Nickel	7440-02-0	50 µg/L	103	----	75.0	125	----	----
		EG020: Zinc	7440-66-6	50 µg/L	96.4	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5939101)										
HK2429223-001	WM1	**EG032: Calcium**	7440-70-2	2000 µg/L	102	----	75.0	125	----	----
		EG032: Iron	7439-89-6	2000 µg/L	103	----	75.0	125	----	----
		EG032: Magnesium	7439-95-4	2000 µg/L	102	----	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: 5939101) - Continued										
HK2429223-001	WM1	**EG032: Potassium**	7440-09-7	2000 µg/L	100	----	75.0	125	----	----
		EG032: Sodium	7440-23-5	2000 µg/L	107	----	75.0	125	----	----

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	: HK2428069
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	: 11-Jul-2024
Order number	: ----	Quote number	: HKE/2751/2022_V4	Issue Date	: 26-Jul-2024
C-O-C number	: ----			No. of samples received	: 1
Site	:			No. of samples analysed	: 1

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 11-Jul-2024 to 26-Jul-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: HK2428069

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 17:10.

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	WM2	---	---	---	---
				Sampling date / time	11-Jul-2024	----	----	----	----
					HK2428069-001	-------	-------	-------	-------
EA/ED: Physical and Aggregate Properties									
EA025: Suspended Solids (SS)	----	0.1	mg/L		22.6	---	---	---	---
ED037: Total Alkalinity as CaCO3	----	1	mg/L		41	---	---	---	---
ED/EK: Inorganic Nonmetallic Parameters									
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L		25	---	---	---	---
ED045K: Chloride	16887-00-6	0.5	mg/L		6	---	---	---	---
EK055K: Ammonia as N	7664-41-7	0.01	mg/L		0.18	---	---	---	---
EK058A: Nitrate as N	14797-55-8	0.01	mg/L		0.27	---	---	---	---
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L		0.4	---	---	---	---
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	---	---	---	---
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L		<2	---	---	---	---
EP: Aggregate Organics									
EP005: Total Organic Carbon	----	1	mg/L		2	---	---	---	---
EP020: Oil & Grease	----	5	mg/L		<5	---	---	---	---
EP026C: Chemical Oxygen Demand	----	5	mg/L		<5	---	---	---	---
EP030: Biochemical Oxygen Demand	----	2	mg/L		<2	---	---	---	---
EG: Metals and Major Cations - Total									
EG020: Cadmium	7440-43-9	0.2	µg/L		<0.2	---	---	---	---
EG020: Copper	7440-50-8	1	µg/L		2	---	---	---	---
EG020: Lead	7439-92-1	1	µg/L		2	---	---	---	---
EG020: Manganese	7439-96-5	1	µg/L		577	---	---	---	---
EG020: Nickel	7440-02-0	1	µg/L		<1	---	---	---	---
EG020: Zinc	7440-66-6	10	µg/L		30	---	---	---	---
EG032: Calcium	7440-70-2	50	µg/L		19800	---	---	---	---
EG032: Iron	7439-89-6	10	µg/L		1720	---	---	---	---
EG032: Magnesium	7439-95-4	50	µg/L		1350	---	---	---	---
EG032: Potassium	7440-09-7	50	µg/L		2700	---	---	---	---
EG032: Sodium	7440-23-5	50	µg/L		6320	---	---	---	---
EM: Microbiological Testing									
EM002: E. coli	----	1	CFU/100mL		3200	---	---	---	---

Sub-Matrix: WATER								
			Sample ID	WM2	----	----	----	----
			Sampling date / time	11-Jul-2024	----	----	----	----
Compound	CAS Number	LOR	Unit	HK2428069-001	-------	-------	-------	-------
EM: Microbiological Testing - Continued								
EM003: Total Coliforms	----	1	CFU/100mL	4000	----	----	----	----

-------- 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: 5923442)								
HK2427978-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.8	2.8	0.0
HK2427980-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	28.8	29.9	3.7
EA/ED: Physical and Aggregate Properties (QC Lot: 5924965)								
HK2428107-002	Anonymous	ED037: Total Alkalinity as CaCO3	----	1	mg/L	44	44	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5923604)								
HK2428075-010	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5926211)								
HK2427863-015	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<5	<5	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5926212)								
HK2428095-006	Anonymous	ED045K: Chloride	16887-00-6	1	mg/L	<1	<1	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5939181)								
HK2423093-001	Anonymous	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5941681)								
HK2428069-001	WM2	EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5945965)								
HK2428283-001	Anonymous	EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	67.8	65.5	3.4
EP: Aggregate Organics (QC Lot: 5939674)								
HK2427863-007	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	1610	1670	3.9
EP: Aggregate Organics (QC Lot: 5940858)								
HK2428018-001	Anonymous	EP026C: Chemical Oxygen Demand	----	5	mg/L	<5	<5	0.0
EG: Metals and Major Cations - Total (QC Lot: 5923576)								
HK2428069-001	WM2	EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	2	2	0.0
		EG020: Lead	7439-92-1	1	µg/L	2	2	0.0
		EG020: Manganese	7439-96-5	1	µg/L	577	560	2.9
		EG020: Nickel	7440-02-0	1	µg/L	<1	<1	0.0
		EG020: Zinc	7440-66-6	10	µg/L	30	25	17.5

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: 5923442)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	10 mg/L	95.5	----	84.9	114	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 5924965)											
ED037: Total Alkalinity as CaCO3	----	1	mg/L	<1	50 mg/L	103	----	95.0	105	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5923604)											
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	97.2	----	92.4	106	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5926211)											
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<1	5 mg/L	102	----	93.1	113	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5926212)											
ED045K: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	97.9	----	88.2	108	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5939181)											
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	93.7	----	89.3	109	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5941681)											
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	----	----	----	----	----	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5945965)											
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	0.5 mg/L	104	----	88.9	119	----	----
EP: Aggregate Organics (QC Lot: 5922469)											
EP030: Biochemical Oxygen Demand	----	----	mg/L	----	198 mg/L	91.1	----	77.6	118	----	----
EP: Aggregate Organics (QC Lot: 5939674)											
EP005: Total Organic Carbon	----	1	mg/L	<1	5 mg/L	108	----	81.7	124	----	----
				<1	100 mg/L	110	----	84.8	114	----	----
EP: Aggregate Organics (QC Lot: 5940858)											
EP026C: Chemical Oxygen Demand	----	----	mg/L	----	25 mg/L	98.8	----	92.0	108	----	----
				----	250 mg/L	98.4	----	92.3	106	----	----
EP: Aggregate Organics (QC Lot: 5947619)											
EP020: Oil & Grease	----	2	mg/L	<2	20 mg/L	98.0	----	79.1	108	----	----
EG: Metals and Major Cations - Total (QC Lot: 5923576)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	5 µg/L	104	----	85.0	109	----	----

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
EG: Metals and Major Cations - Total (QC Lot: 5923576) - Continued											
EG020: Copper	7440-50-8	1	µg/L	<1	50 µg/L	110	----	90.0	111	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	50 µg/L	103	----	89.0	111	----	----
EG020: Manganese	7439-96-5	1	µg/L	<1	50 µg/L	105	----	85.0	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	50 µg/L	109	----	87.0	110	----	----
EG020: Zinc	7440-66-6	10	µg/L	<10	50 µg/L	104	----	86.0	114	----	----
EG: Metals and Major Cations - Total (QC Lot: 5923577)											
EG032: Calcium	7440-70-2	50	µg/L	<50	2000 µg/L	99.7	----	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	103	----	85.0	115	----	----
EG032: Potassium	7440-09-7	50	µg/L	<50	2000 µg/L	98.6	----	85.0	115	----	----
EG032: Sodium	7440-23-5	50	µg/L	<50	2000 µg/L	104	----	85.0	115	----	----

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

Matrix: **WATER**

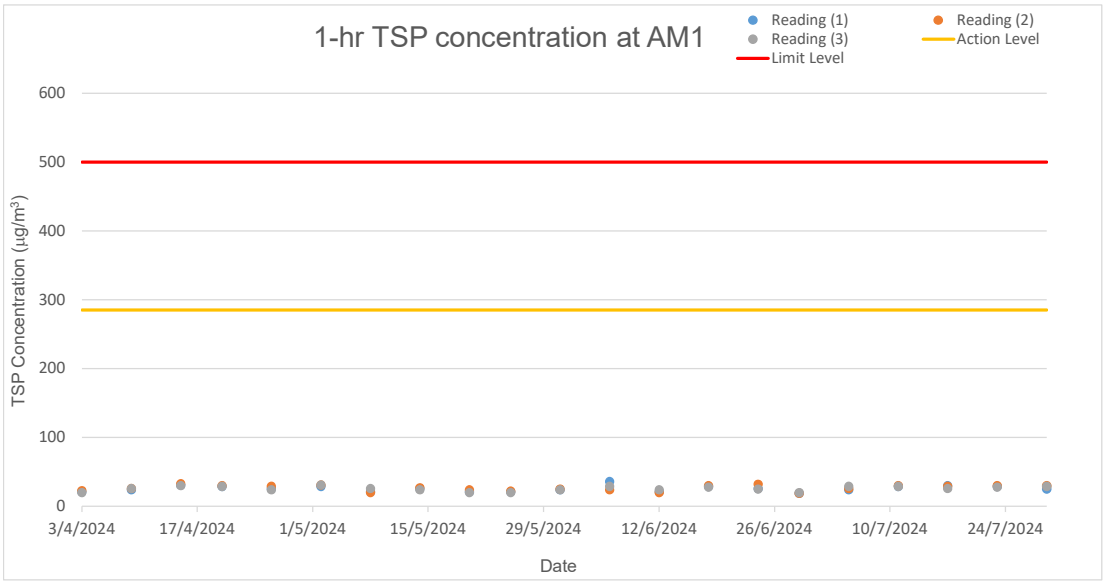
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5923604)										
HK2428075-010	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	101	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5926211)										
HK2427863-015	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric	----	5 mg/L	94.4	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5926212)										
HK2428095-006	Anonymous	ED045K: Chloride	16887-00-6	5 mg/L	85.7	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5939181)										
HK2423093-001	Anonymous	EK055K: Ammonia as N	7664-41-7	0.5 mg/L	96.2	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5945965)										
HK2428283-001	Anonymous	EK061A: Total Kjeldahl Nitrogen as N	----	50 mg/L	119	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5939674)										
HK2427863-015	Anonymous	EP005: Total Organic Carbon	----	5 mg/L	103	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5940858)										
HK2428015-001	Anonymous	EP026C: Chemical Oxygen Demand	----	10 mg/L	104	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5923576)										
HK2428006-001	Anonymous	EG020: Cadmium	7440-43-9	5 µg/L	104	----	75.0	125	----	----
		EG020: Copper	7440-50-8	50 µg/L	106	----	75.0	125	----	----
		EG020: Lead	7439-92-1	50 µg/L	102	----	75.0	125	----	----
		EG020: Manganese	7439-96-5	50 µg/L	101	----	75.0	125	----	----
		EG020: Nickel	7440-02-0	50 µg/L	105	----	75.0	125	----	----
		EG020: Zinc	7440-66-6	50 µg/L	103	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5923577)										
HK2428069-001	WM2	EG032: Calcium	7440-70-2	2000 µg/L	# Not Determined	----	75.0	125	----	----
		EG032: Iron	7439-89-6	2000 µg/L	85.2	----	75.0	125	----	----
		EG032: Magnesium	7439-95-4	2000 µg/L	102	----	75.0	125	----	----

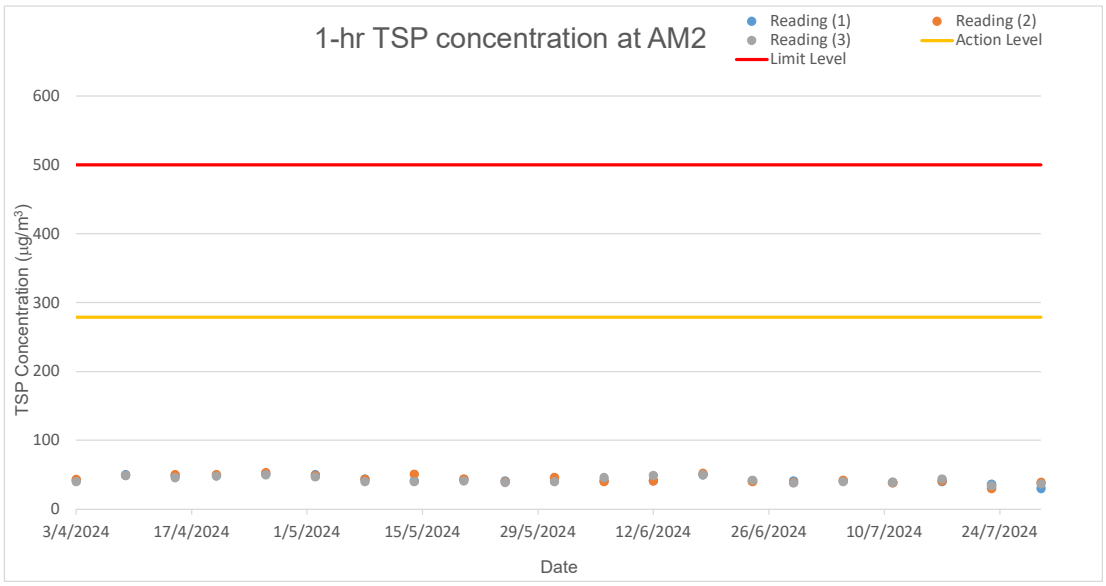
Matrix: **WATER**

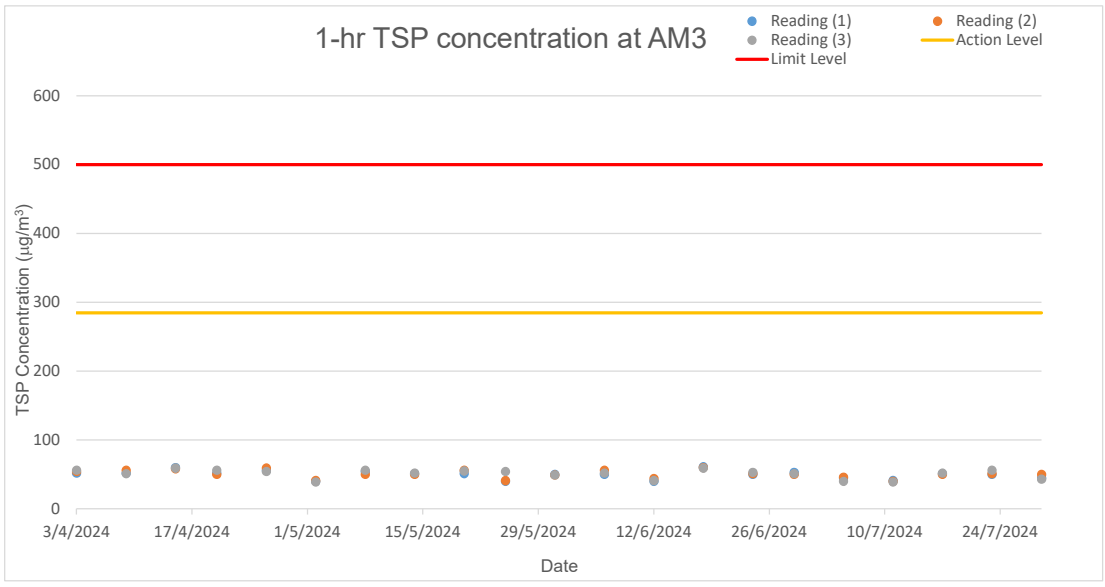
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations - Total (QC Lot: 5923577) - Continued										
HK2428069-001	WM2	**EG032: Potassium**	7440-09-7	2000 µg/L	98.4	----	75.0	125	----	----
		EG032: Sodium	7440-23-5	2000 µg/L	118	----	75.0	125	----	----

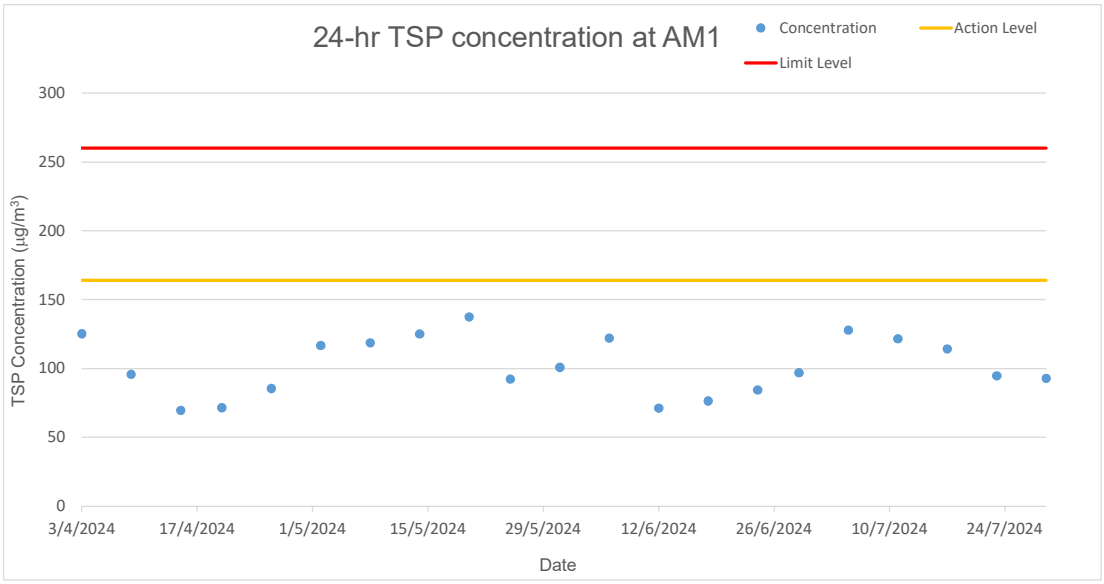
Appendix G Graphical Presentations

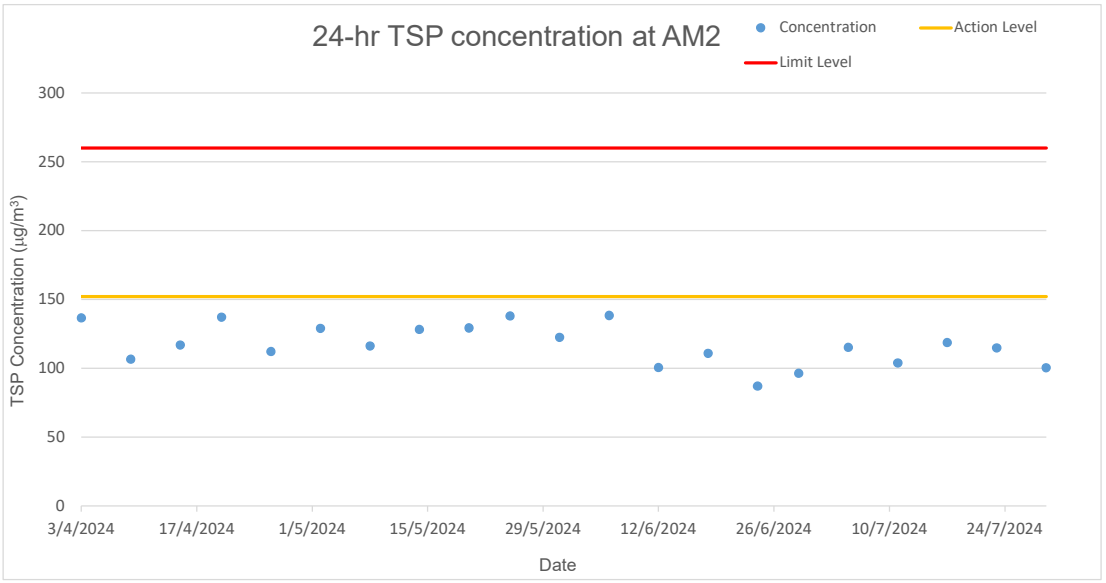
Air Quality

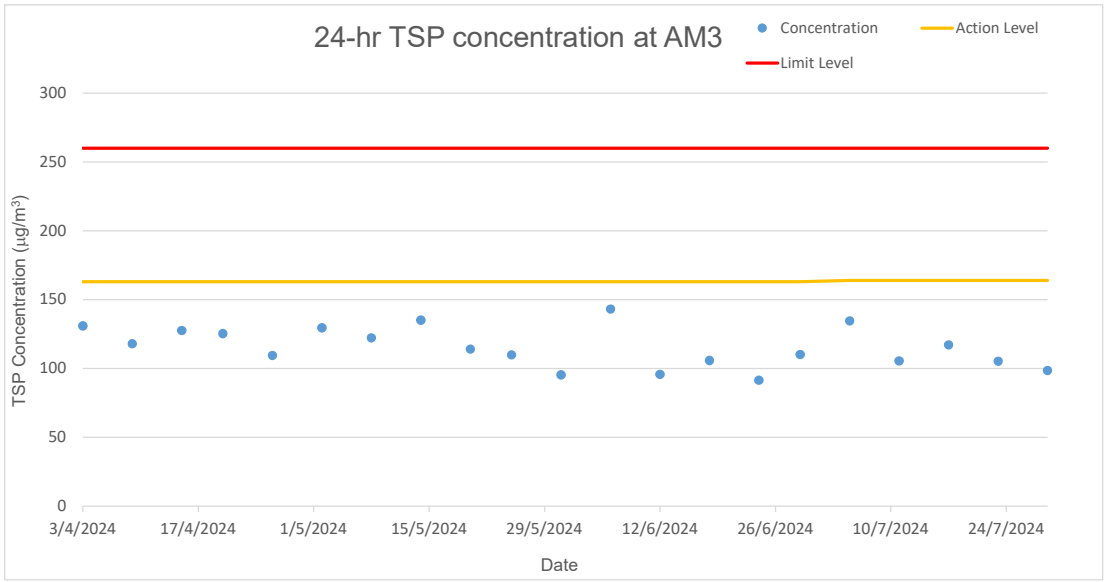

1-hr TSP concentration at AM1
Reading (1)
Reading (2)
Reading (3)
Action Level
Limit Level
600
500
400
300
200
100
0
TSP Concentration (µg/m³)
3/4/2024
17/4/2024
1/5/2024
15/5/2024
29/5/2024
12/6/2024
26/6/2024
10/7/2024
24/7/2024
Date


1-hr TSP concentration at AM2
Reading (1)
Reading (2)
Reading (3)
Action Level
Limit Level
600
500
400
300
200
100
0
TSP Concentration (µg/m³)
3/4/2024
17/4/2024
1/5/2024
15/5/2024
29/5/2024
12/6/2024
26/6/2024
10/7/2024
24/7/2024
Date

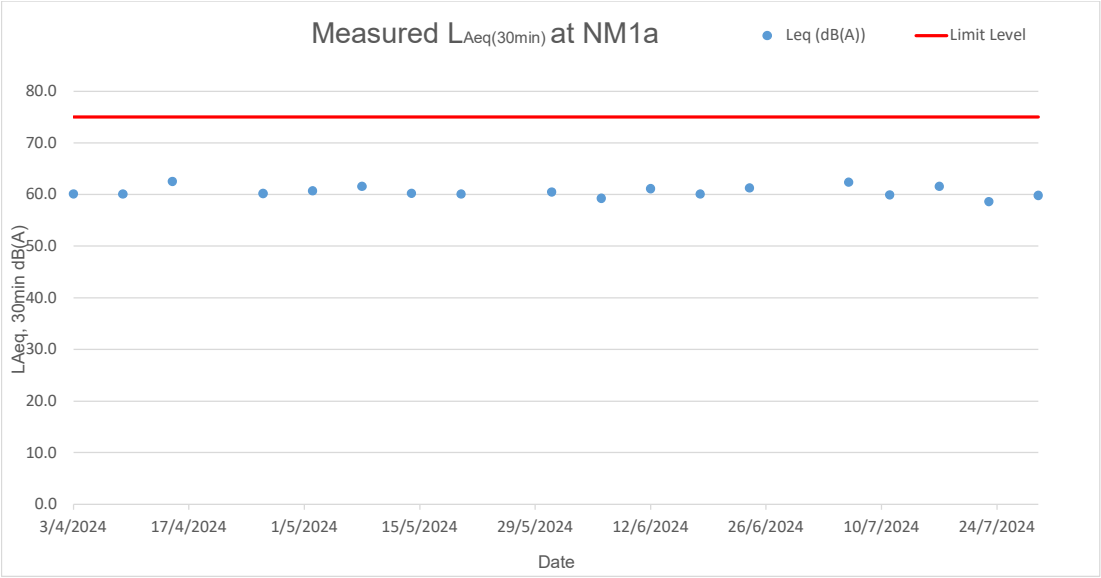

1-hr TSP concentration at AM3
Reading (1)
Reading (2)
Reading (3)
Action Level
Limit Level
600
500
400
300
200
100
0
TSP Concentration (µg/m³)
3/4/2024
17/4/2024
1/5/2024
15/5/2024
29/5/2024
12/6/2024
26/6/2024
10/7/2024
24/7/2024
Date

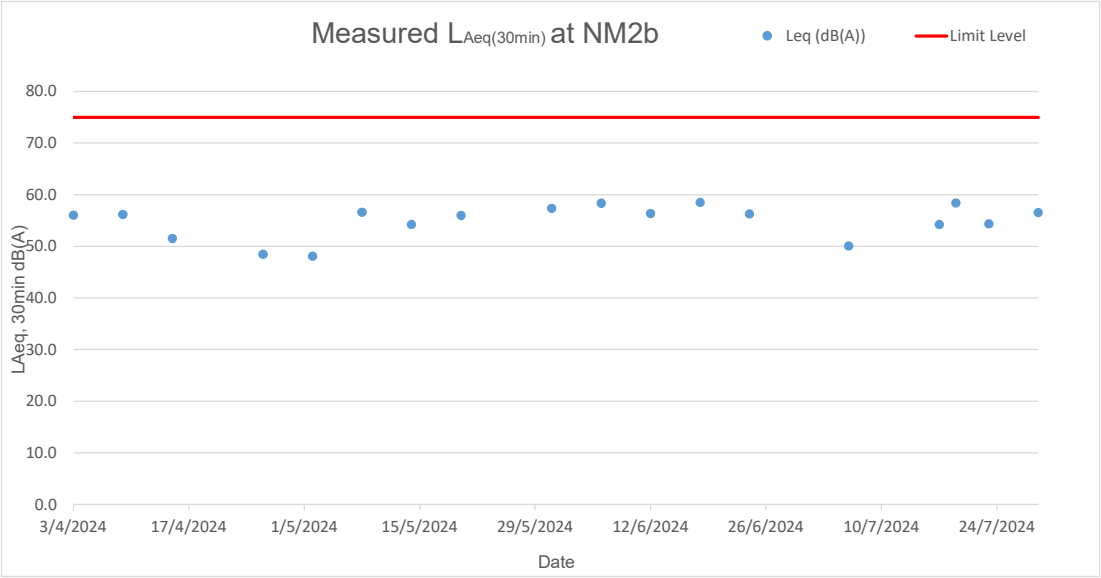

24-hr TSP concentration at AM1
Concentration
Action Level
Limit Level
TSP Concentration (μg/m³)
300
250
200
150
100
50
0
3/4/2024
17/4/2024
1/5/2024
15/5/2024
29/5/2024
12/6/2024
26/6/2024
10/7/2024
24/7/2024
Date


24-hr TSP concentration at AM2
Concentration
Action Level
Limit Level
TSP Concentration (μg/m³)
300
250
200
150
100
50
0
3/4/2024
17/4/2024
1/5/2024
15/5/2024
29/5/2024
12/6/2024
26/6/2024
10/7/2024
24/7/2024
Date


24-hr TSP concentration at AM3
Concentration
Action Level
Limit Level
TSP Concentration (μg/m³)
300
250
200
150
100
50
0
3/4/2024
17/4/2024
1/5/2024
15/5/2024
29/5/2024
12/6/2024
26/6/2024
10/7/2024
24/7/2024
Date

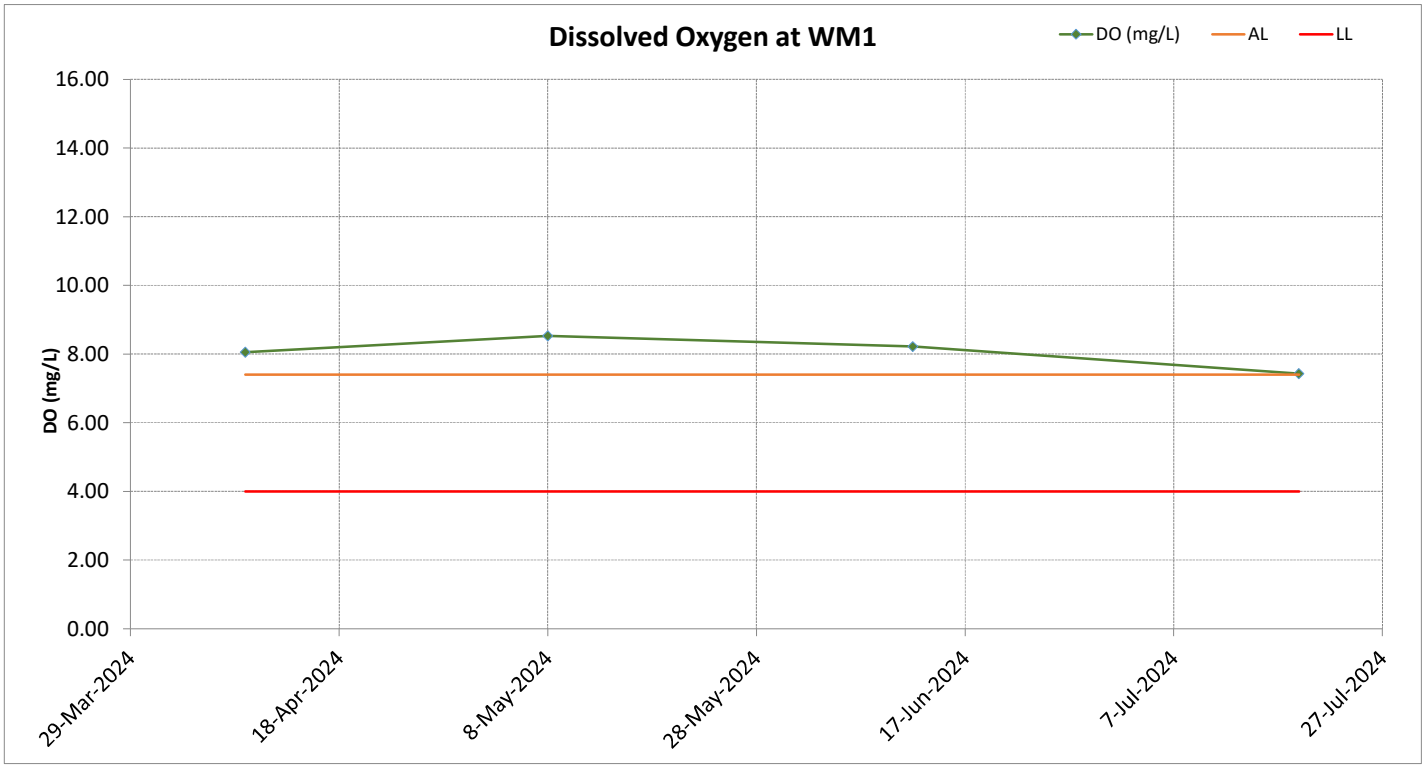
Noise

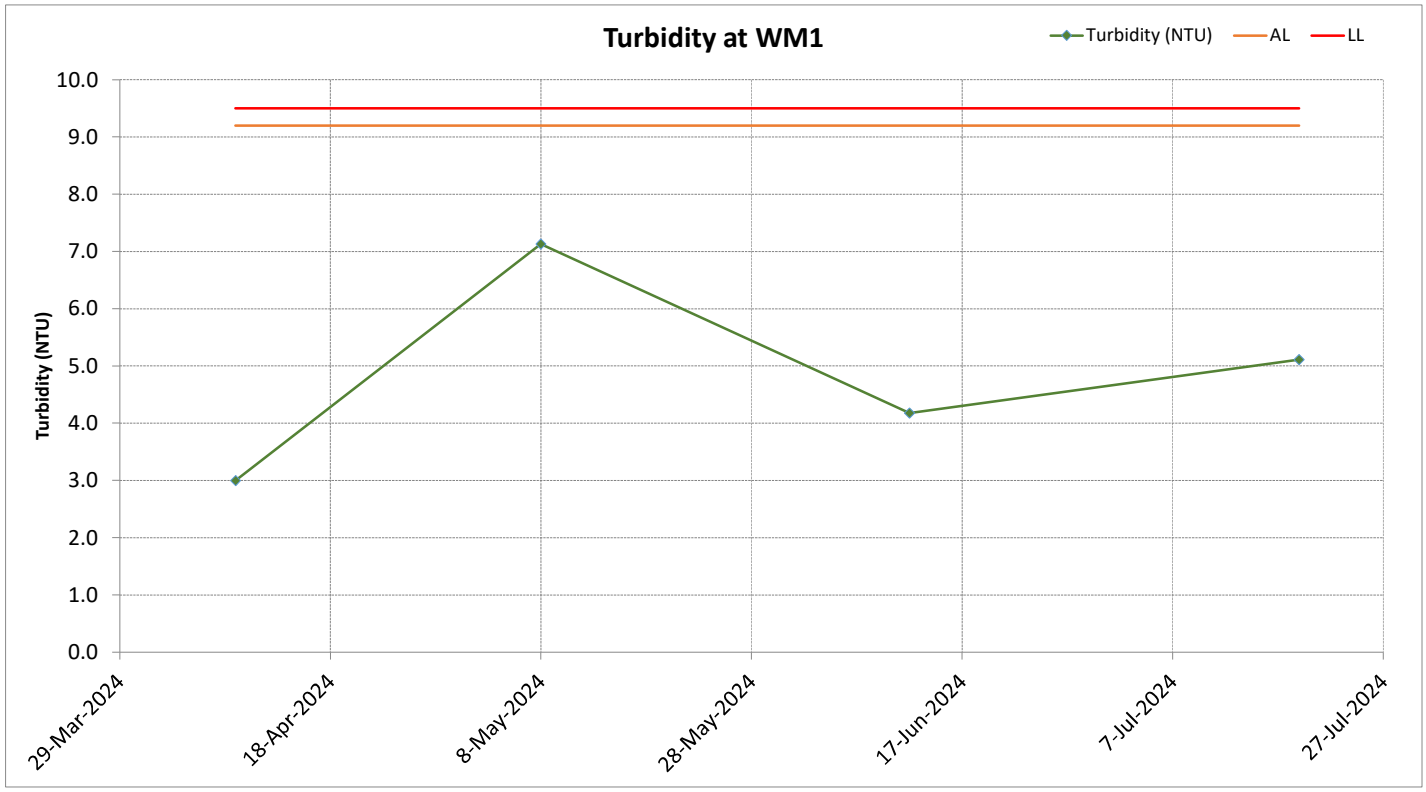

Measured LAeq(30min) at NM1a
Leq (dB(A))
Limit Level
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
LAeq, 30min dB(A)
3/4/2024
17/4/2024
1/5/2024
15/5/2024
29/5/2024
12/6/2024
26/6/2024
10/7/2024
24/7/2024
Date


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)
3/4/2024
17/4/2024
1/5/2024
15/5/2024
29/5/2024
12/6/2024
26/6/2024
10/7/2024
24/7/2024
Date

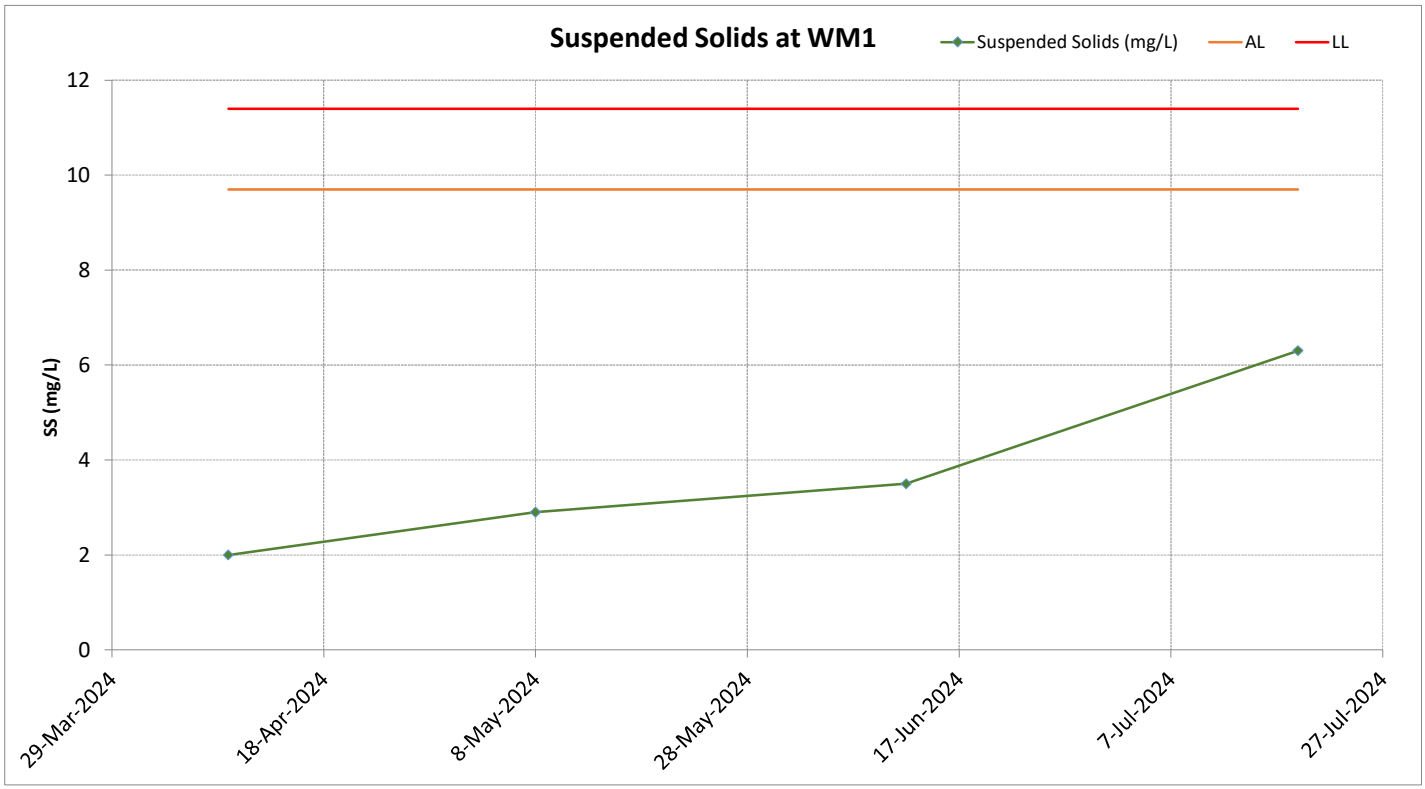
Water Quality

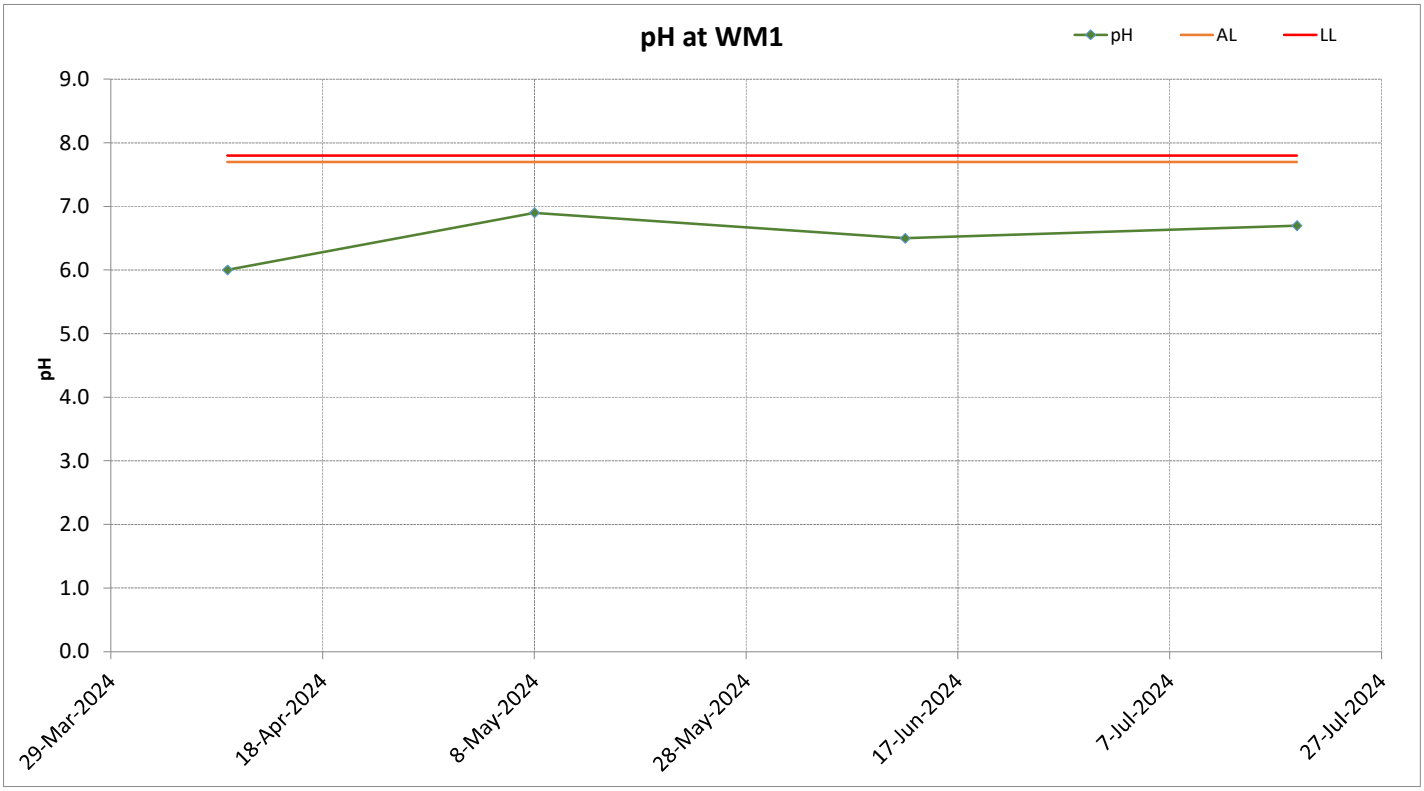
Surface Water Monitoring Results at WM1



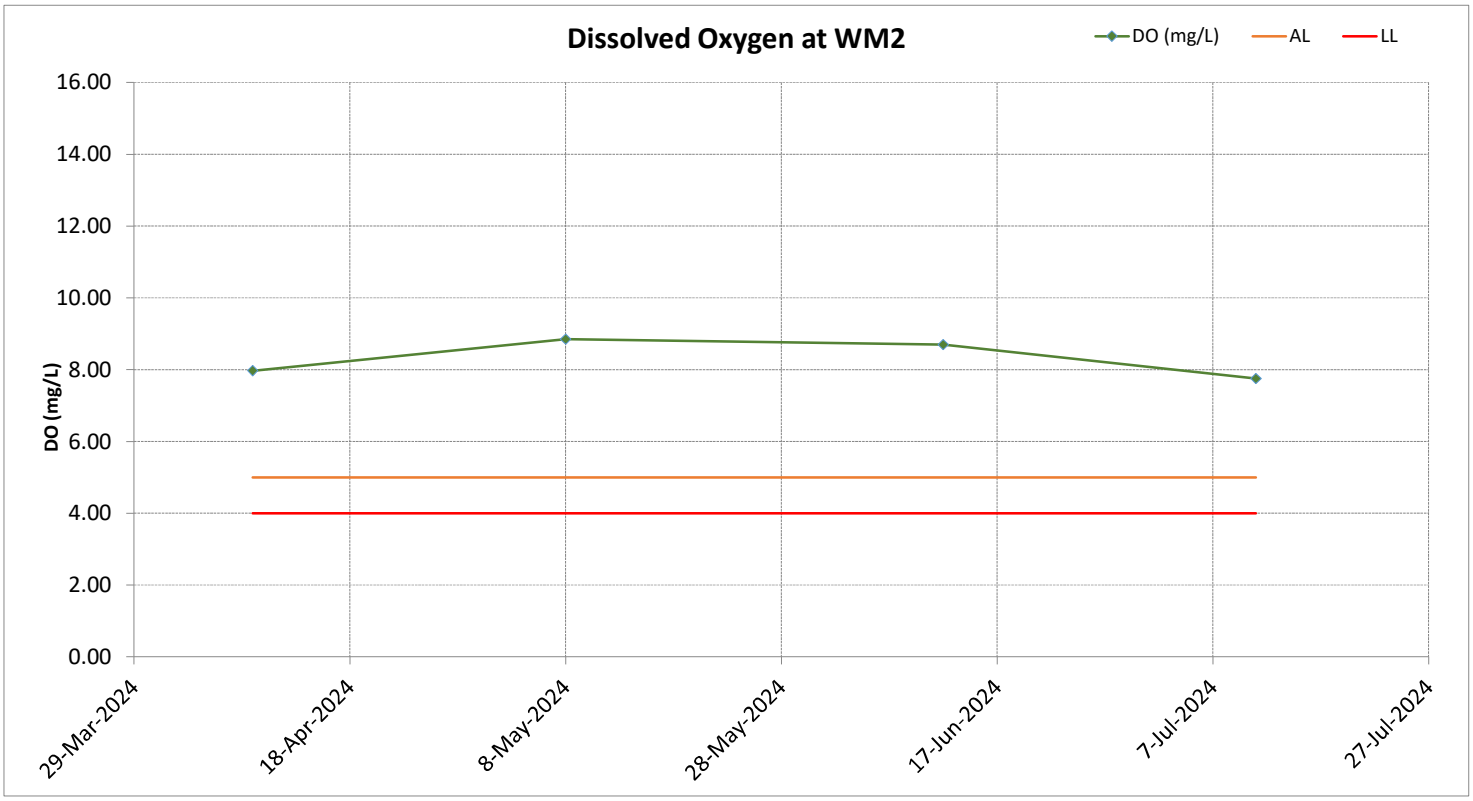


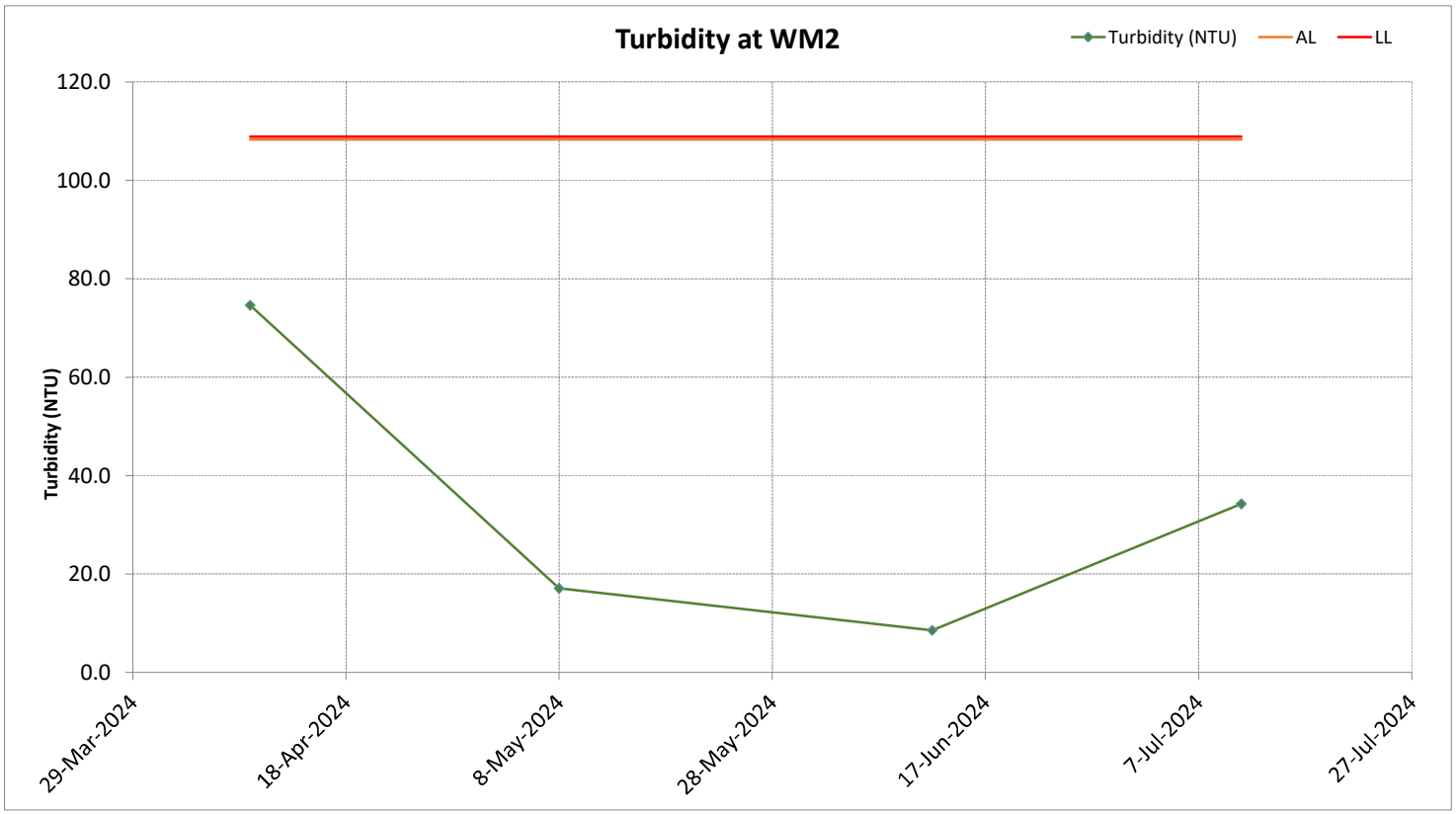
Surface Water Monitoring Results at WM1



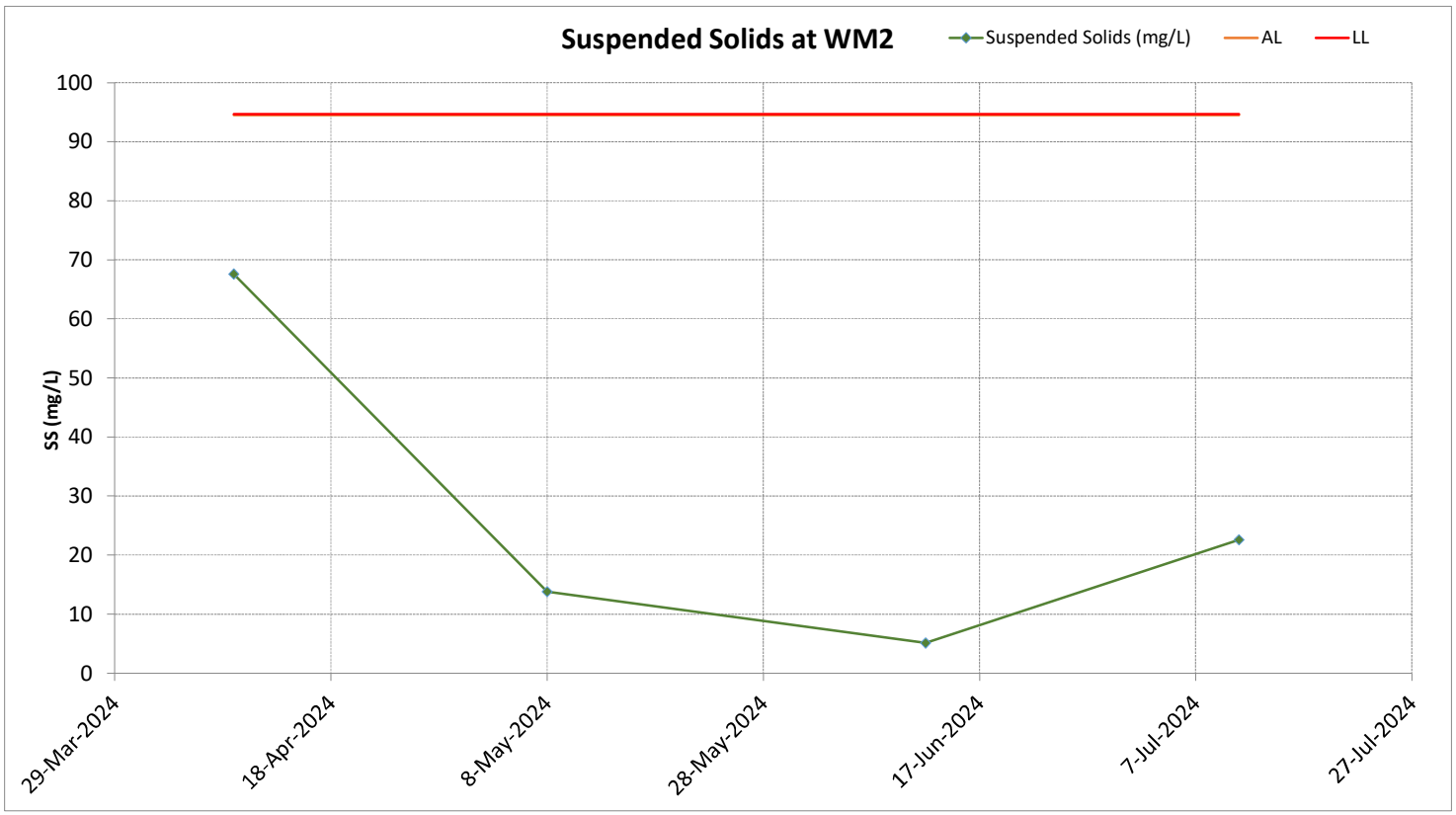


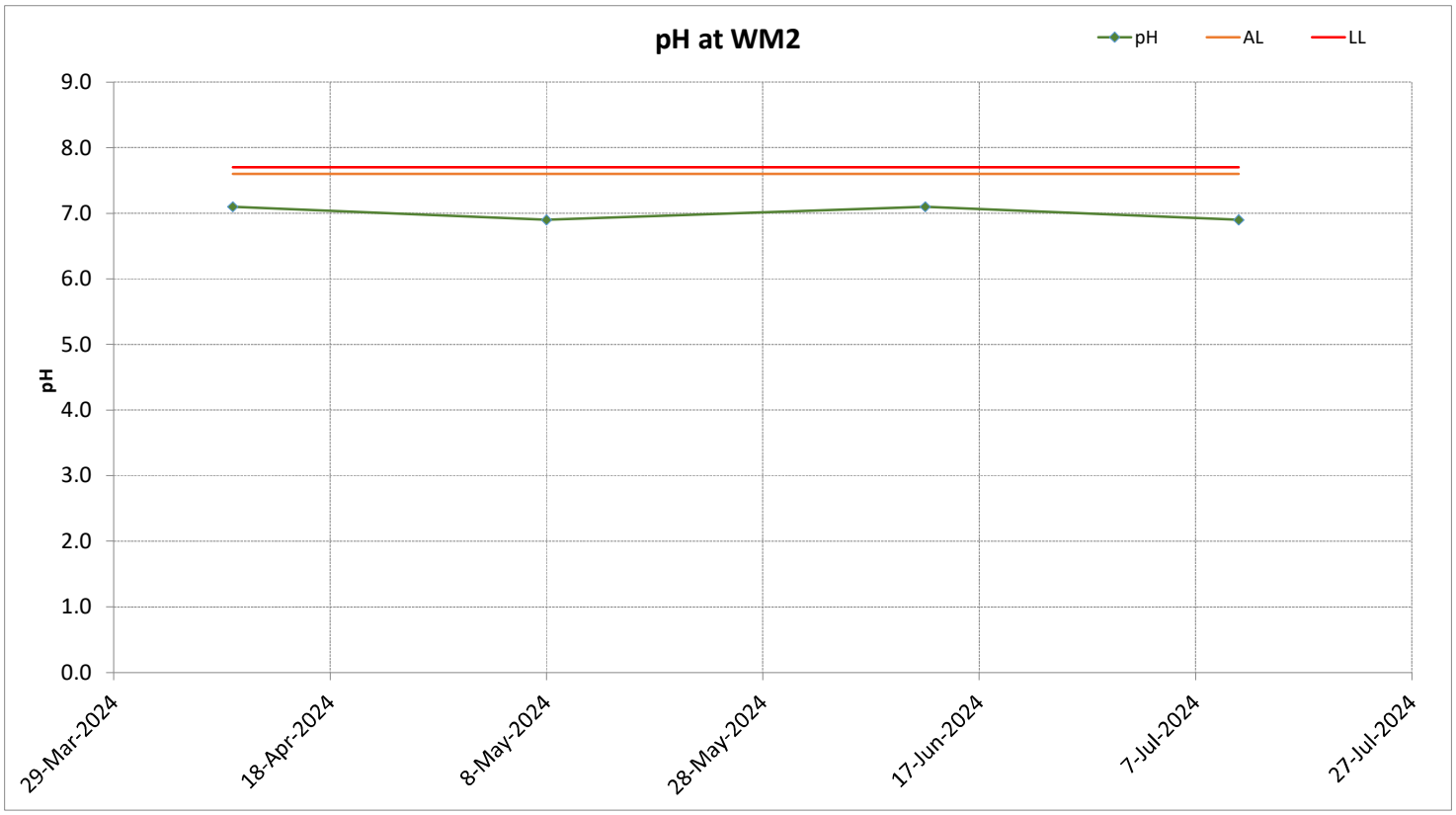
Surface Water Monitoring Results at WM2





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)
20240701_0003	0.1	58
20240701_0013	0.1	57
20240701_0023	0.1	57
20240701_0033	0.1	44
20240701_0043	0.1	344
20240701_0053	0.1	128
20240701_0103	0.1	39
20240701_0113	0.1	63
20240701_0123	0.1	11
20240701_0133	0.1	33
20240701_0143	0.1	56
20240701_0153	0.1	36
20240701_0203	0.1	55
20240701_0213	0.1	42
20240701_0223	0.1	14
20240701_0233	0.1	49
20240701_0243	0.1	72
20240701_0253	0.1	47
20240701_0303	0.1	50
20240701_0313	0.1	46
20240701_0323	0.1	50
20240701_0333	0.1	53
20240701_0343	0.5	280
20240701_0353	0.1	47
20240701_0403	0.1	31
20240701_0413	0.1	58
20240701_0423	0.1	352
20240701_0433	0.1	336
20240701_0443	0.1	50
20240701_0453	0.1	60
20240701_0503	0.1	37
20240701_0513	0.1	34
20240701_0523	0.1	66
20240701_0533	0.1	47
20240701_0543	0.1	57
20240701_0553	0.1	74
20240701_0603	0.1	56
20240701_0613	0.1	37
20240701_0623	0.1	50
20240701_0633	0.1	30
20240701_0643	0.1	65
20240701_0653	0.1	65
20240701_0703	0.1	55
20240701_0713	0.1	36
20240701_0723	0.1	53
20240701_0733	0.1	50
20240701_0743	0.1	35
20240701_0753	0.1	86
20240701_0803	0.1	60
20240701_0813	0.1	65
20240701_0823	0.1	107
20240701_0833	0.1	96
20240701_0843	0.1	148
20240701_0853	0.1	211
20240701_0903	0.2	226
20240701_0913	0.2	180
20240701_0923	0.9	147
20240701_0933	0.2	172
20240701_0943	0.2	22
20240701_0953	1.4	247
20240701_1003	0.1	224
20240701_1013	0.1	234
20240701_1023	0.1	216
20240701_1033	0.1	250
20240701_1043	0.2	333
20240701_1053	0.8	172
20240701_1103	0.1	145
20240701_1113	0.1	293
20240701_1123	0.5	221
20240701_1133	0.3	237
20240701_1143	1.6	137
20240701_1153	2.1	254

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240701_1203	0.2	212
20240701_1213	0.1	217
20240701_1223	1.4	267
20240701_1233	0.5	278
20240701_1243	0.6	151
20240701_1253	0.2	203
20240701_1303	0.1	269
20240701_1313	0.9	117
20240701_1323	0.1	121
20240701_1333	0.2	249
20240701_1343	1	154
20240701_1353	0.2	233
20240701_1403	0.6	350
20240701_1413	2.1	103
20240701_1423	0.2	152
20240701_1433	0.4	279
20240701_1443	0.2	318
20240701_1453	1.9	131
20240701_1503	1.9	110
20240701_1513	0.1	125
20240701_1523	0.1	224
20240701_1533	5.8	131
20240701_1543	0.1	267
20240701_1553	0.7	290
20240701_1603	1	178
20240701_1613	0.1	206
20240701_1623	0.1	261
20240701_1633	0.1	262
20240701_1643	0.1	247
20240701_1653	0.4	213
20240701_1703	1.2	132
20240701_1713	0.2	236
20240701_1723	0.1	223
20240701_1733	0.1	276
20240701_1743	0.1	217
20240701_1753	0.1	299
20240701_1803	0.1	184
20240701_1813	0.1	84
20240701_1823	0.1	293
20240701_1833	0.1	251
20240701_1843	0.1	159
20240701_1853	0.1	142
20240701_1903	0.1	170
20240701_1913	0.1	139
20240701_1923	0.1	155
20240701_1933	0.1	5
20240701_1943	0.1	27
20240701_1953	0.1	111
20240701_2003	0.1	84
20240701_2013	0.1	46
20240701_2023	0.1	71
20240701_2033	0.1	99
20240701_2043	0.1	82
20240701_2053	0.1	60
20240701_2103	0.1	62
20240701_2113	0.1	78
20240701_2123	0.1	158
20240701_2133	0.1	67
20240701_2143	0.1	324
20240701_2153	0.1	61
20240701_2203	0.1	64
20240701_2213	0.1	41
20240701_2223	0.1	89
20240701_2233	0.2	171
20240701_2243	0.1	147
20240701_2253	0.1	215
20240701_2303	0.1	88
20240701_2313	0.1	121
20240701_2323	0.1	134
20240701_2333	0.1	139
20240701_2343	0.1	108
20240701_2353	0.1	72

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240702_0003	0.1	0
20240702_0013	0.1	56
20240702_0023	0.1	248
20240702_0033	1.1	46
20240702_0043	0.1	147
20240702_0053	0.1	115
20240702_0103	0.1	101
20240702_0113	0.1	48
20240702_0123	0.1	51
20240702_0133	0.1	58
20240702_0143	0.1	37
20240702_0153	0.1	48
20240702_0203	0.1	71
20240702_0213	0.1	81
20240702_0223	0.1	47
20240702_0233	0.1	58
20240702_0243	0.1	37
20240702_0253	0.1	165
20240702_0303	0.1	24
20240702_0313	0.1	59
20240702_0323	0.1	80
20240702_0333	0.1	105
20240702_0343	0.1	51
20240702_0353	0.1	199
20240702_0403	0.1	300
20240702_0413	0.1	142
20240702_0423	0.1	32
20240702_0433	0.1	60
20240702_0443	0.1	119
20240702_0453	0.1	266
20240702_0503	0.1	268
20240702_0513	0.1	43
20240702_0523	0.1	64
20240702_0533	0.1	275
20240702_0543	0.1	66
20240702_0553	0.1	31
20240702_0603	0.1	287
20240702_0613	0.1	36
20240702_0623	0.1	73
20240702_0633	0.1	58
20240702_0643	0.1	99
20240702_0653	0.1	67
20240702_0703	0.1	317
20240702_0713	0.1	113
20240702_0723	0.1	341
20240702_0733	0.1	129
20240702_0743	0.1	47
20240702_0753	0.1	87
20240702_0803	0.1	45
20240702_0813	0.1	32
20240702_0823	0.1	257
20240702_0833	0.1	33
20240702_0843	0.1	295
20240702_0853	0.1	204
20240702_0903	0.1	239
20240702_0913	0.1	161
20240702_0923	0.1	247
20240702_0933	0.1	102
20240702_0943	0.3	247
20240702_0953	0.1	211
20240702_1003	0.1	222
20240702_1013	0.1	121
20240702_1023	0.1	24
20240702_1033	0.1	216
20240702_1043	0.1	150
20240702_1053	0.1	154
20240702_1103	0.1	296
20240702_1113	0.4	137
20240702_1123	0.1	123
20240702_1133	0.1	110
20240702_1143	0.1	289
20240702_1153	0.1	169

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240702_1203	0.4	249
20240702_1213	0.1	256
20240702_1223	0.2	238
20240702_1233	0.1	199
20240702_1243	0.1	161
20240702_1253	0.1	5
20240702_1303	0.1	331
20240702_1313	0.1	352
20240702_1323	0.1	135
20240702_1333	0.1	108
20240702_1343	0.1	146
20240702_1353	0.1	153
20240702_1403	0.3	194
20240702_1413	0.1	261
20240702_1423	0.1	251
20240702_1433	0.1	96
20240702_1443	0.1	135
20240702_1453	0.1	248
20240702_1503	0.1	259
20240702_1513	0.1	170
20240702_1523	0.1	341
20240702_1533	0.1	240
20240702_1543	0.1	121
20240702_1553	0.1	177
20240702_1603	0.1	128
20240702_1613	0.1	178
20240702_1623	0.1	194
20240702_1633	0.1	203
20240702_1643	0.1	350
20240702_1653	0.1	170
20240702_1703	0.1	215
20240702_1713	0.1	125
20240702_1723	0.1	237
20240702_1733	0.1	256
20240702_1743	0.1	249
20240702_1753	0.1	192
20240702_1803	0.1	143
20240702_1813	0.1	125
20240702_1823	0.1	71
20240702_1833	0.1	104
20240702_1843	0.1	72
20240702_1853	0.1	33
20240702_1903	0.1	35
20240702_1913	0.1	30
20240702_1923	0.1	62
20240702_1933	0.1	42
20240702_1943	0.1	344
20240702_1953	0.1	61
20240702_2003	0.1	91
20240702_2013	0.1	50
20240702_2023	0.1	77
20240702_2033	0.1	84
20240702_2043	0.1	128
20240702_2053	0.1	121
20240702_2103	0.1	89
20240702_2113	0.1	51
20240702_2123	0.1	116
20240702_2133	0.3	106
20240702_2143	0.1	154
20240702_2153	0.1	81
20240702_2203	0.1	13
20240702_2213	0.1	327
20240702_2223	0.1	302
20240702_2233	0.1	163
20240702_2243	0.1	81
20240702_2253	0.3	182
20240702_2303	0.1	108
20240702_2313	0.6	99
20240702_2323	0.1	146
20240702_2333	0.1	160
20240702_2343	0.5	157
20240702_2353	0.1	154

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240703_0003	0.1	64
20240703_0013	0.1	47
20240703_0023	0.1	88
20240703_0033	0.1	5
20240703_0043	0.1	77
20240703_0053	0.1	121
20240703_0103	0.1	9
20240703_0113	0.4	240
20240703_0123	0.1	327
20240703_0133	0.1	338
20240703_0143	0.1	113
20240703_0153	0.1	57
20240703_0203	0.1	68
20240703_0213	0.1	26
20240703_0223	0.1	110
20240703_0233	0.2	103
20240703_0243	0.1	120
20240703_0253	0.1	158
20240703_0303	0.1	110
20240703_0313	0.1	335
20240703_0323	0.1	56
20240703_0333	0.1	53
20240703_0343	0.1	134
20240703_0353	0.1	118
20240703_0403	0.1	31
20240703_0413	0.1	59
20240703_0423	0.1	352
20240703_0433	0.1	51
20240703_0443	0.1	34
20240703_0453	0.1	38
20240703_0503	0.1	2
20240703_0513	0.1	97
20240703_0523	0.1	97
20240703_0533	0.1	45
20240703_0543	0.1	44
20240703_0553	0.1	52
20240703_0603	0.1	53
20240703_0613	0.3	56
20240703_0623	0.1	53
20240703_0633	0.1	103
20240703_0643	0.1	141
20240703_0653	0.1	100
20240703_0703	0.1	32
20240703_0713	0.1	80
20240703_0723	0.1	70
20240703_0733	0.1	145
20240703_0743	0.1	97
20240703_0753	0.1	72
20240703_0803	0.8	143
20240703_0813	0.1	41
20240703_0823	0.2	41
20240703_0833	0.7	336
20240703_0843	0.1	32
20240703_0853	0.1	57
20240703_0903	0.1	140
20240703_0913	1	51
20240703_0923	0.1	220
20240703_0933	0.2	297
20240703_0943	0.1	31
20240703_0953	0.3	36
20240703_1003	0.1	199
20240703_1013	1.6	311
20240703_1023	0.9	301
20240703_1033	0.1	344
20240703_1043	0.2	225
20240703_1053	0.4	72
20240703_1103	0.5	257
20240703_1113	0.2	12
20240703_1123	0.3	252
20240703_1133	0.1	292
20240703_1143	1	331
20240703_1153	0.3	81

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240703_1203	0.1	10
20240703_1213	0.2	344
20240703_1223	0.1	63
20240703_1233	1	95
20240703_1243	0.2	272
20240703_1253	1	333
20240703_1303	1.4	292
20240703_1313	0.2	61
20240703_1323	0.4	26
20240703_1333	0.2	352
20240703_1343	1.2	158
20240703_1353	2.4	42
20240703_1403	0.5	337
20240703_1413	0.3	87
20240703_1423	0.1	331
20240703_1433	0.5	145
20240703_1443	0.1	270
20240703_1453	0.3	173
20240703_1503	0.2	30
20240703_1513	0.1	44
20240703_1523	0.7	346
20240703_1533	4.2	318
20240703_1543	7.4	342
20240703_1553	0.2	343
20240703_1603	0.1	237
20240703_1613	2.1	32
20240703_1623	0.2	13
20240703_1633	0.5	267
20240703_1643	2	305
20240703_1653	0.3	73
20240703_1703	0.1	324
20240703_1713	1.1	9
20240703_1723	0.3	87
20240703_1733	0.1	17
20240703_1743	0.4	354
20240703_1753	0.1	32
20240703_1803	2.3	299
20240703_1813	0.3	351
20240703_1823	0.3	197
20240703_1833	1.4	345
20240703_1843	0.1	52
20240703_1853	3.1	158
20240703_1903	0.1	80
20240703_1913	0.1	116
20240703_1923	0.2	21
20240703_1933	0.1	327
20240703_1943	0.1	163
20240703_1953	0.1	197
20240703_2003	0.1	150
20240703_2013	0.1	124
20240703_2023	0.1	123
20240703_2033	0.1	201
20240703_2043	0.1	155
20240703_2053	0.1	142
20240703_2103	0.1	123
20240703_2113	0.1	289
20240703_2123	0.1	154
20240703_2133	0.1	29
20240703_2143	0.1	256
20240703_2153	0.1	336
20240703_2203	0.1	138
20240703_2213	0.3	275
20240703_2223	0.1	32
20240703_2233	0.1	39
20240703_2243	0.1	110
20240703_2253	1.3	151
20240703_2303	0.1	58
20240703_2313	0.2	112
20240703_2323	0.1	93
20240703_2333	0.2	331
20240703_2343	0.1	339
20240703_2353	0.1	14

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240704_0003	0.1	8
20240704_0013	0.1	326
20240704_0023	2	109
20240704_0033	1.2	32
20240704_0043	0.3	25
20240704_0053	0.7	336
20240704_0103	0.2	332
20240704_0113	1.6	312
20240704_0123	0.1	64
20240704_0133	0.2	345
20240704_0143	0.1	34
20240704_0153	0.1	301
20240704_0203	0.1	57
20240704_0213	0.1	215
20240704_0223	0.9	344
20240704_0233	0.8	355
20240704_0243	0.1	272
20240704_0253	0.4	293
20240704_0303	0.1	12
20240704_0313	0.1	288
20240704_0323	0.1	352
20240704_0333	0.1	303
20240704_0343	0.3	271
20240704_0353	0.1	305
20240704_0403	0.1	314
20240704_0413	0.1	94
20240704_0423	0.1	291
20240704_0433	0.1	328
20240704_0443	0.1	142
20240704_0453	0.1	132
20240704_0503	0.1	334
20240704_0513	0.1	329
20240704_0523	0.1	275
20240704_0533	0.1	160
20240704_0543	0.1	125
20240704_0553	0.1	166
20240704_0603	0.1	180
20240704_0613	0.1	174
20240704_0623	0.1	11
20240704_0633	0.1	25
20240704_0643	0.1	8
20240704_0653	0.6	103
20240704_0703	0.1	103
20240704_0713	0.2	42
20240704_0723	0.1	323
20240704_0733	0.1	4
20240704_0743	0.4	66
20240704_0753	0.1	90
20240704_0803	0.1	70
20240704_0813	0.1	141
20240704_0823	0.1	76
20240704_0833	0.1	294
20240704_0843	0.6	241
20240704_0853	0.1	160
20240704_0903	0.1	300
20240704_0913	0.1	353
20240704_0923	0.1	15
20240704_0933	0.1	142
20240704_0943	0.1	105
20240704_0953	0.1	32
20240704_1003	0.1	277
20240704_1013	0.1	245
20240704_1023	0.1	142
20240704_1033	0.1	193
20240704_1043	0.1	68
20240704_1053	0.1	115
20240704_1103	0.9	21
20240704_1113	0.1	18
20240704_1123	0.2	49
20240704_1133	0.1	58
20240704_1143	0.1	201
20240704_1153	0.1	214

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240704_1203	1.4	35
20240704_1213	0.1	318
20240704_1223	1.9	12
20240704_1233	0.1	300
20240704_1243	0.1	330
20240704_1253	0.1	100
20240704_1303	0.8	38
20240704_1313	0.1	47
20240704_1323	0.3	167
20240704_1333	0.1	230
20240704_1343	0.1	125
20240704_1353	0.1	163
20240704_1403	0.1	294
20240704_1413	0.2	138
20240704_1423	0.1	148
20240704_1433	0.4	51
20240704_1443	0.1	66
20240704_1453	0.1	143
20240704_1503	0.1	36
20240704_1513	0.2	342
20240704_1523	0.3	298
20240704_1533	0.2	148
20240704_1543	0.1	318
20240704_1553	0.1	18
20240704_1603	0.1	7
20240704_1613	0.1	272
20240704_1623	0.1	217
20240704_1633	0.1	188
20240704_1643	0.1	99
20240704_1653	0.1	248
20240704_1703	0.1	74
20240704_1713	0.1	179
20240704_1723	0.1	343
20240704_1733	0.1	317
20240704_1743	0.1	332
20240704_1753	0.1	78
20240704_1803	0.1	182
20240704_1813	0.1	109
20240704_1823	0.1	124
20240704_1833	0.1	54
20240704_1843	0.1	137
20240704_1853	0.3	131
20240704_1903	1.4	128
20240704_1913	0.1	106
20240704_1923	0.5	116
20240704_1933	1.8	131
20240704_1943	0.1	94
20240704_1953	0.1	59
20240704_2003	0.1	79
20240704_2013	0.1	66
20240704_2023	0.7	118
20240704_2033	0.1	34
20240704_2043	0.1	114
20240704_2053	0.1	120
20240704_2103	0.1	294
20240704_2113	0.1	141
20240704_2123	0.1	51
20240704_2133	0.1	66
20240704_2143	0.1	44
20240704_2153	0.1	52
20240704_2203	0.1	47
20240704_2213	0.1	54
20240704_2223	0.1	79
20240704_2233	0.1	93
20240704_2243	0.1	68
20240704_2253	0.1	50
20240704_2303	0.1	107
20240704_2313	0.5	126
20240704_2323	0.1	11
20240704_2333	0.1	111
20240704_2343	0.1	47
20240704_2353	0.1	350

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240705_0003	0.1	83
20240705_0013	0.1	270
20240705_0023	0.1	159
20240705_0033	0.1	102
20240705_0043	0.1	283
20240705_0053	0.1	162
20240705_0103	0.1	109
20240705_0113	0.1	106
20240705_0123	0.1	142
20240705_0133	0.1	84
20240705_0143	0.1	345
20240705_0153	0.1	38
20240705_0203	0.1	328
20240705_0213	0.1	86
20240705_0223	0.1	75
20240705_0233	0.1	54
20240705_0243	0.1	24
20240705_0253	0.1	8
20240705_0303	0.1	309
20240705_0313	0.1	156
20240705_0323	0.1	153
20240705_0333	0.1	132
20240705_0343	0.1	132
20240705_0353	0.1	18
20240705_0403	0.1	51
20240705_0413	0.1	23
20240705_0423	0.1	36
20240705_0433	0.1	52
20240705_0443	0.1	56
20240705_0453	0.1	52
20240705_0503	0.1	341
20240705_0513	0.1	145
20240705_0523	0.1	326
20240705_0533	0.1	8
20240705_0543	0.1	125
20240705_0553	0.1	54
20240705_0603	0.1	54
20240705_0613	0.1	54
20240705_0623	0.1	54
20240705_0633	0.1	54
20240705_0643	0.1	298
20240705_0653	0.1	99
20240705_0703	0.1	146
20240705_0713	0.1	146
20240705_0723	0.1	139
20240705_0733	0.1	182
20240705_0743	0.1	145
20240705_0753	0.2	149
20240705_0803	0.1	127
20240705_0813	0.1	179
20240705_0823	0.1	96
20240705_0833	0.1	68
20240705_0843	0.1	76
20240705_0853	0.1	60
20240705_0903	0.1	56
20240705_0913	0.1	33
20240705_0923	0.1	79
20240705_0933	0.1	308
20240705_0943	0.1	202
20240705_0953	0.1	195
20240705_1003	0.1	149
20240705_1013	0.1	249
20240705_1023	0.1	227
20240705_1033	0.1	215
20240705_1043	0.1	104
20240705_1053	0.1	129
20240705_1103	0.9	154
20240705_1113	0.1	83
20240705_1123	0.1	328
20240705_1133	0.1	5
20240705_1143	1.7	139
20240705_1153	0.1	62

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240705_1203	0.3	89
20240705_1213	0.1	152
20240705_1223	1.3	348
20240705_1233	0.1	125
20240705_1243	0.1	313
20240705_1253	0.1	169
20240705_1303	0.1	48
20240705_1313	1.1	344
20240705_1323	0.7	328
20240705_1333	3.9	140
20240705_1343	0.1	42
20240705_1353	0.1	105
20240705_1403	1.6	12
20240705_1413	0.1	208
20240705_1423	0.1	285
20240705_1433	2.8	55
20240705_1443	0.5	283
20240705_1453	2.5	346
20240705_1503	0.1	288
20240705_1513	0.3	90
20240705_1523	0.1	49
20240705_1533	4.5	352
20240705_1543	0.5	324
20240705_1553	0.2	347
20240705_1603	1.5	333
20240705_1613	0.7	47
20240705_1623	0.5	307
20240705_1633	0.2	321
20240705_1643	1.3	340
20240705_1653	0.1	132
20240705_1703	0.1	346
20240705_1713	3	353
20240705_1723	0.2	16
20240705_1733	2.7	9
20240705_1743	1.5	30
20240705_1753	0.1	91
20240705_1803	0.1	37
20240705_1813	0.1	4
20240705_1823	0.1	246
20240705_1833	0.1	340
20240705_1843	0.8	338
20240705_1853	0.1	262
20240705_1903	0.9	139
20240705_1913	0.1	63
20240705_1923	0.6	129
20240705_1933	0.1	89
20240705_1943	0.1	174
20240705_1953	0.1	156
20240705_2003	0.1	174
20240705_2013	0.1	153
20240705_2023	0.1	129
20240705_2033	0.1	161
20240705_2043	0.1	58
20240705_2053	0.1	124
20240705_2103	0.1	107
20240705_2113	0.5	138
20240705_2123	0.1	38
20240705_2133	0.1	166
20240705_2143	0.1	128
20240705_2153	0.1	127
20240705_2203	0.1	146
20240705_2213	0.1	181
20240705_2223	0.2	67
20240705_2233	0.1	232
20240705_2243	0.1	347
20240705_2253	0.1	52
20240705_2303	3.1	165
20240705_2313	0.2	130
20240705_2323	0.1	300
20240705_2333	0.1	164
20240705_2343	0.1	15
20240705_2353	0.1	47

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240706_0003	0.1	47
20240706_0013	0.1	67
20240706_0023	0.1	272
20240706_0033	0.1	80
20240706_0043	1.9	99
20240706_0053	0.1	58
20240706_0103	0.1	301
20240706_0113	0.1	315
20240706_0123	0.1	49
20240706_0133	0.1	124
20240706_0143	0.1	142
20240706_0153	0.1	266
20240706_0203	0.1	335
20240706_0213	0.1	149
20240706_0223	0.2	334
20240706_0233	0.1	80
20240706_0243	0.1	339
20240706_0253	0.1	219
20240706_0303	0.1	319
20240706_0313	0.1	334
20240706_0323	0.1	328
20240706_0333	0.1	76
20240706_0343	0.1	150
20240706_0353	0.1	154
20240706_0403	0.1	182
20240706_0413	0.1	49
20240706_0423	0.1	112
20240706_0433	0.1	13
20240706_0443	0.1	48
20240706_0453	0.1	263
20240706_0503	0.1	172
20240706_0513	0.1	54
20240706_0523	0.1	31
20240706_0533	0.1	150
20240706_0543	0.1	47
20240706_0553	0.1	56
20240706_0603	0.1	59
20240706_0613	1.2	49
20240706_0623	1.5	117
20240706_0633	0.1	66
20240706_0643	0.3	79
20240706_0653	0.1	62
20240706_0703	0.1	103
20240706_0713	0.1	103
20240706_0723	0.1	103
20240706_0733	0.1	144
20240706_0743	0.1	120
20240706_0753	0.1	72
20240706_0803	0.1	114
20240706_0813	0.1	106
20240706_0823	0.1	81
20240706_0833	0.1	335
20240706_0843	0.1	76
20240706_0853	0.1	122
20240706_0903	0.6	284
20240706_0913	0.1	23
20240706_0923	0.1	295
20240706_0933	0.1	123
20240706_0943	0.3	320
20240706_0953	2.4	319
20240706_1003	0.1	51
20240706_1013	0.1	88
20240706_1023	0.1	40
20240706_1033	0.1	138
20240706_1043	0.1	113
20240706_1053	0.1	54
20240706_1103	0.1	73
20240706_1113	0.1	10
20240706_1123	2.2	129
20240706_1133	0.1	105
20240706_1143	0.4	8
20240706_1153	0.1	299

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240706_1203	0.1	188
20240706_1213	0.1	323
20240706_1223	0.1	2
20240706_1233	0.1	237
20240706_1243	1.3	111
20240706_1253	2.1	160
20240706_1303	1.6	336
20240706_1313	0.6	63
20240706_1323	0.1	302
20240706_1333	1.1	145
20240706_1343	0.1	58
20240706_1353	0.1	17
20240706_1403	0.1	245
20240706_1413	2.3	37
20240706_1423	0.1	208
20240706_1433	0.1	23
20240706_1443	0.1	127
20240706_1453	0.2	308
20240706_1503	1.8	73
20240706_1513	0.6	333
20240706_1523	0.1	300
20240706_1533	0.5	86
20240706_1543	0.2	49
20240706_1553	0.1	304
20240706_1603	2.8	345
20240706_1613	0.1	233
20240706_1623	0.8	30
20240706_1633	0.6	299
20240706_1643	0.2	18
20240706_1653	0.9	14
20240706_1703	0.1	62
20240706_1713	1.9	345
20240706_1723	0.9	350
20240706_1733	1	301
20240706_1743	1.2	314
20240706_1753	0.1	69
20240706_1803	0.1	272
20240706_1813	1.5	55
20240706_1823	0.1	7
20240706_1833	0.1	72
20240706_1843	0.1	343
20240706_1853	0.1	124
20240706_1903	0.1	115
20240706_1913	0.1	160
20240706_1923	0.1	119
20240706_1933	0.1	68
20240706_1943	0.1	25
20240706_1953	0.1	110
20240706_2003	0.1	180
20240706_2013	0.1	106
20240706_2023	0.1	327
20240706_2033	0.1	4
20240706_2043	0.1	351
20240706_2053	0.1	104
20240706_2103	0.2	119
20240706_2113	0.2	135
20240706_2123	0.1	154
20240706_2133	0.1	264
20240706_2143	0.1	44
20240706_2153	0.3	51
20240706_2203	0.1	16
20240706_2213	0.1	153
20240706_2223	0.4	96
20240706_2233	0.4	113
20240706_2243	0.1	84
20240706_2253	0.1	99
20240706_2303	0.8	137
20240706_2313	0.1	91
20240706_2323	0.1	131
20240706_2333	0.1	123
20240706_2343	0.2	53
20240706_2353	0.1	138

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240707_0003	0.1	202
20240707_0013	0.1	53
20240707_0023	0.1	0
20240707_0033	0.1	100
20240707_0043	0.1	161
20240707_0053	0.1	40
20240707_0103	0.3	139
20240707_0113	0.1	129
20240707_0123	0.1	65
20240707_0133	0.1	336
20240707_0143	0.1	288
20240707_0153	0.1	292
20240707_0203	0.1	309
20240707_0213	0.1	84
20240707_0223	0.4	136
20240707_0233	0.1	106
20240707_0243	0.1	272
20240707_0253	0.1	117
20240707_0303	0.1	66
20240707_0313	0.1	121
20240707_0323	0.1	151
20240707_0333	0.1	72
20240707_0343	0.1	301
20240707_0353	0.1	106
20240707_0403	0.1	109
20240707_0413	0.1	337
20240707_0423	0.1	90
20240707_0433	0.1	334
20240707_0443	0.1	100
20240707_0453	0.1	71
20240707_0503	0.1	81
20240707_0513	0.1	47
20240707_0523	0.1	41
20240707_0533	0.1	49
20240707_0543	0.1	144
20240707_0553	0.1	103
20240707_0603	0.1	77
20240707_0613	0.1	101
20240707_0623	0.1	83
20240707_0633	0.1	136
20240707_0643	0.1	89
20240707_0653	0.1	12
20240707_0703	0.1	117
20240707_0713	0.1	97
20240707_0723	0.1	137
20240707_0733	0.1	120
20240707_0743	0.1	179
20240707_0753	0.1	117
20240707_0803	0.1	123
20240707_0813	0.1	71
20240707_0823	0.1	229
20240707_0833	0.2	349
20240707_0843	0.1	267
20240707_0853	0.1	3
20240707_0903	0.9	109
20240707_0913	0.1	143
20240707_0923	1.1	76
20240707_0933	0.6	137
20240707_0943	0.1	183
20240707_0953	0.1	72
20240707_1003	0.1	274
20240707_1013	0.1	59
20240707_1023	3.4	138
20240707_1033	1.3	80
20240707_1043	0.9	8
20240707_1053	0.1	214
20240707_1103	0.4	276
20240707_1113	0.3	204
20240707_1123	0.1	310
20240707_1133	0.2	297
20240707_1143	2.3	31
20240707_1153	0.1	161

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240707_1203	0.4	15
20240707_1213	0.1	224
20240707_1223	0.9	295
20240707_1233	1	354
20240707_1243	0.5	67
20240707_1253	0.1	41
20240707_1303	1.9	24
20240707_1313	0.8	275
20240707_1323	0.8	45
20240707_1333	0.6	85
20240707_1343	0.1	9
20240707_1353	1.8	328
20240707_1403	0.1	76
20240707_1413	2	140
20240707_1423	0.5	290
20240707_1433	0.1	263
20240707_1443	0.3	324
20240707_1453	0.1	339
20240707_1503	1.2	336
20240707_1513	0.1	332
20240707_1523	0.1	337
20240707_1533	1.7	32
20240707_1543	0.1	13
20240707_1553	0.2	185
20240707_1603	0.1	311
20240707_1613	0.2	48
20240707_1623	0.8	67
20240707_1633	0.3	54
20240707_1643	0.6	318
20240707_1653	0.1	345
20240707_1703	0.2	43
20240707_1713	1.3	342
20240707_1723	0.7	12
20240707_1733	0.1	53
20240707_1743	1	345
20240707_1753	0.1	259
20240707_1803	0.3	125
20240707_1813	0.3	348
20240707_1823	0.1	334
20240707_1833	0.1	140
20240707_1843	0.1	108
20240707_1853	1.3	41
20240707_1903	0.4	323
20240707_1913	0.2	125
20240707_1923	0.3	335
20240707_1933	0.1	269
20240707_1943	0.2	345
20240707_1953	1.1	328
20240707_2003	0.1	249
20240707_2013	0.1	303
20240707_2023	0.1	49
20240707_2033	0.1	14
20240707_2043	0.1	63
20240707_2053	0.1	38
20240707_2103	0.1	82
20240707_2113	0.1	344
20240707_2123	0.1	120
20240707_2133	0.1	127
20240707_2143	0.1	143
20240707_2153	0.1	314
20240707_2203	0.1	155
20240707_2213	0.1	241
20240707_2223	0.1	110
20240707_2233	0.1	141
20240707_2243	0.1	140
20240707_2253	0.1	238
20240707_2303	0.1	66
20240707_2313	0.1	79
20240707_2323	0.1	329
20240707_2333	0.1	42
20240707_2343	0.1	60
20240707_2353	0.1	23

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240708_0003	0.1	120
20240708_0013	0.1	341
20240708_0023	0.1	64
20240708_0033	0.1	49
20240708_0043	0.1	86
20240708_0053	0.1	67
20240708_0103	0.1	138
20240708_0113	0.1	105
20240708_0123	0.1	50
20240708_0133	0.1	56
20240708_0143	0.1	148
20240708_0153	0.1	133
20240708_0203	0.1	48
20240708_0213	0.1	48
20240708_0223	0.1	57
20240708_0233	0.1	75
20240708_0243	0.1	46
20240708_0253	0.1	53
20240708_0303	0.1	3
20240708_0313	0.1	52
20240708_0323	0.1	130
20240708_0333	0.1	43
20240708_0343	0.1	50
20240708_0353	0.1	41
20240708_0403	0.1	350
20240708_0413	0.1	45
20240708_0423	0.1	96
20240708_0433	0.1	53
20240708_0443	0.1	61
20240708_0453	0.1	31
20240708_0503	0.1	55
20240708_0513	0.1	53
20240708_0523	0.1	54
20240708_0533	0.1	54
20240708_0543	0.1	9
20240708_0553	0.1	1
20240708_0603	0.1	55
20240708_0613	0.1	51
20240708_0623	0.1	52
20240708_0633	0.1	63
20240708_0643	0.1	94
20240708_0653	0.1	132
20240708_0703	0.1	106
20240708_0713	0.1	143
20240708_0723	0.1	162
20240708_0733	0.2	145
20240708_0743	0.1	147
20240708_0753	0.1	223
20240708_0803	0.1	62
20240708_0813	0.4	125
20240708_0823	0.1	48
20240708_0833	0.1	148
20240708_0843	0.1	131
20240708_0853	0.3	158
20240708_0903	0.6	155
20240708_0913	0.2	129
20240708_0923	0.1	102
20240708_0933	0.1	160
20240708_0943	0.1	124
20240708_0953	0.1	180
20240708_1003	0.1	240
20240708_1013	0.1	171
20240708_1023	0.1	257
20240708_1033	0.1	245
20240708_1043	0.1	85
20240708_1053	0.1	166
20240708_1103	0.1	182
20240708_1113	0.1	115
20240708_1123	0.1	73
20240708_1133	0.1	347
20240708_1143	1.8	93
20240708_1153	1.1	29

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240708_1203	0.1	150
20240708_1213	1	116
20240708_1223	0.1	77
20240708_1233	0.1	65
20240708_1243	0.2	68
20240708_1253	0.3	115
20240708_1303	0.2	347
20240708_1313	0.1	-1
20240708_1323	0.1	57
20240708_1333	0.1	49
20240708_1343	0.1	335
20240708_1353	0.1	89
20240708_1403	0.1	5
20240708_1413	0.1	73
20240708_1423	1.9	307
20240708_1433	0.1	313
20240708_1443	0.1	57
20240708_1453	0.2	33
20240708_1503	0.1	31
20240708_1513	0.1	120
20240708_1523	0.1	84
20240708_1533	0.1	72
20240708_1543	0.1	339
20240708_1553	0.1	50
20240708_1603	0.1	215
20240708_1613	0.1	204
20240708_1623	0.2	247
20240708_1633	0.2	236
20240708_1643	0.1	231
20240708_1653	0.4	227
20240708_1703	0.1	270
20240708_1713	0.1	212
20240708_1723	0.1	116
20240708_1733	0.1	149
20240708_1743	0.1	139
20240708_1753	0.1	53
20240708_1803	0.1	150
20240708_1813	1.6	130
20240708_1823	0.1	249
20240708_1833	0.1	176
20240708_1843	0.1	19
20240708_1853	0.1	95
20240708_1903	0.1	59
20240708_1913	0.1	21
20240708_1923	0.1	29
20240708_1933	0.1	62
20240708_1943	0.1	70
20240708_1953	0.1	46
20240708_2003	0.1	50
20240708_2013	0.1	76
20240708_2023	0.1	60
20240708_2033	0.1	73
20240708_2043	0.1	135
20240708_2053	0.1	60
20240708_2103	0.1	53
20240708_2113	0.1	29
20240708_2123	0.1	51
20240708_2133	0.1	11
20240708_2143	0.1	325
20240708_2153	0.1	66
20240708_2203	0.1	59
20240708_2213	0.1	44
20240708_2223	0.1	1
20240708_2233	0.1	63
20240708_2243	0.1	33
20240708_2253	0.1	37
20240708_2303	0.1	7
20240708_2313	0.2	45
20240708_2323	0.1	99
20240708_2333	0.1	73
20240708_2343	0.1	99
20240708_2353	0.1	107

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240709_0003	0.1	95
20240709_0013	0.1	160
20240709_0023	0.1	149
20240709_0033	0.1	94
20240709_0043	0.1	152
20240709_0053	0.1	152
20240709_0103	0.1	99
20240709_0113	0.1	53
20240709_0123	0.1	65
20240709_0133	0.1	12
20240709_0143	0.1	55
20240709_0153	0.1	37
20240709_0203	0.1	38
20240709_0213	0.1	333
20240709_0223	0.1	89
20240709_0233	0.1	94
20240709_0243	0.1	48
20240709_0253	0.1	29
20240709_0303	0.1	36
20240709_0313	0.1	56
20240709_0323	0.1	60
20240709_0333	0.1	56
20240709_0343	0.1	54
20240709_0353	0.1	54
20240709_0403	0.1	54
20240709_0413	0.1	351
20240709_0423	0.1	341
20240709_0433	0.1	344
20240709_0443	0.1	12
20240709_0453	0.1	54
20240709_0503	0.1	54
20240709_0513	0.1	132
20240709_0523	0.1	71
20240709_0533	0.1	52
20240709_0543	0.1	52
20240709_0553	0.1	38
20240709_0603	0.1	115
20240709_0613	0.1	77
20240709_0623	0.1	11
20240709_0633	0.1	106
20240709_0643	0.1	106
20240709_0653	0.1	106
20240709_0703	0.1	104
20240709_0713	0.1	121
20240709_0723	0.1	110
20240709_0733	0.1	109
20240709_0743	0.1	109
20240709_0753	0.1	112
20240709_0803	0.1	337
20240709_0813	0.1	143
20240709_0823	0.1	104
20240709_0833	0.1	95
20240709_0843	0.1	90
20240709_0853	0.1	122
20240709_0903	0.1	175
20240709_0913	0.1	156
20240709_0923	0.1	126
20240709_0933	0.1	95
20240709_0943	0.1	154
20240709_0953	0.1	299
20240709_1003	0.1	100
20240709_1013	0.7	143
20240709_1023	0.1	141
20240709_1033	0.1	22
20240709_1043	0.1	282
20240709_1053	0.1	107
20240709_1103	0.1	244
20240709_1113	0.1	241
20240709_1123	0.5	26
20240709_1133	0.1	57
20240709_1143	0.1	98
20240709_1153	0.4	53

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240709_1203	0.1	243
20240709_1213	0.1	66
20240709_1223	0.1	58
20240709_1233	0.2	27
20240709_1243	0.4	342
20240709_1253	0.1	4
20240709_1303	0.1	218
20240709_1313	0.6	22
20240709_1323	0.1	39
20240709_1333	0.1	152
20240709_1343	0.1	194
20240709_1353	0.1	94
20240709_1403	0.1	159
20240709_1413	0.1	124
20240709_1423	0.1	194
20240709_1433	0.4	143
20240709_1443	0.8	231
20240709_1453	0.1	82
20240709_1503	0.1	72
20240709_1513	1.1	82
20240709_1523	0.1	89
20240709_1533	0.4	124
20240709_1543	0.1	154
20240709_1553	0.1	21
20240709_1603	0.1	40
20240709_1613	0.1	196
20240709_1623	0.1	281
20240709_1633	0.1	0
20240709_1643	0.2	23
20240709_1653	1.3	62
20240709_1703	0.1	133
20240709_1713	0.1	103
20240709_1723	0.1	94
20240709_1733	0.1	34
20240709_1743	0.1	34
20240709_1753	0.1	181
20240709_1803	0.1	88
20240709_1813	0.1	213
20240709_1823	0.1	187
20240709_1833	0.1	169
20240709_1843	0.1	119
20240709_1853	0.1	37
20240709_1903	0.1	102
20240709_1913	0.1	66
20240709_1923	0.1	146
20240709_1933	0.1	99
20240709_1943	0.1	53
20240709_1953	0.1	63
20240709_2003	0.1	98
20240709_2013	0.1	61
20240709_2023	0.1	46
20240709_2033	0.1	64
20240709_2043	0.1	314
20240709_2053	0.1	176
20240709_2103	0.1	52
20240709_2113	0.1	174
20240709_2123	0.1	21
20240709_2133	0.1	52
20240709_2143	0.1	29
20240709_2153	0.1	53
20240709_2203	0.1	30
20240709_2213	0.1	11
20240709_2223	0.1	53
20240709_2233	0.1	57
20240709_2243	0.1	20
20240709_2253	0.1	41
20240709_2303	0.1	41
20240709_2313	0.1	54
20240709_2323	0.1	54
20240709_2333	0.1	50
20240709_2343	0.1	47
20240709_2353	0.1	73

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240710_0003	0.1	113
20240710_0013	0.1	77
20240710_0023	0.1	53
20240710_0033	0.1	244
20240710_0043	0.1	85
20240710_0053	0.1	169
20240710_0103	0.1	124
20240710_0113	0.1	52
20240710_0123	0.1	50
20240710_0133	0.1	18
20240710_0143	0.1	318
20240710_0153	0.1	59
20240710_0203	0.1	55
20240710_0213	0.1	43
20240710_0223	0.1	14
20240710_0233	0.1	8
20240710_0243	0.1	346
20240710_0253	0.1	15
20240710_0303	0.1	347
20240710_0313	0.1	45
20240710_0323	0.1	41
20240710_0333	0.1	49
20240710_0343	0.1	49
20240710_0353	0.1	61
20240710_0403	0.1	237
20240710_0413	0.1	228
20240710_0423	0.1	80
20240710_0433	0.1	64
20240710_0443	0.1	58
20240710_0453	0.1	117
20240710_0503	0.1	89
20240710_0513	0.1	59
20240710_0523	0.1	347
20240710_0533	0.1	3
20240710_0543	0.1	56
20240710_0553	0.1	10
20240710_0603	0.1	348
20240710_0613	0.1	57
20240710_0623	0.1	57
20240710_0633	0.1	64
20240710_0643	0.1	140
20240710_0653	0.1	140
20240710_0703	0.1	140
20240710_0713	0.1	140
20240710_0723	0.1	122
20240710_0733	0.1	108
20240710_0743	0.1	133
20240710_0753	0.1	149
20240710_0803	0.1	131
20240710_0813	0.1	105
20240710_0823	0.1	171
20240710_0833	0.1	82
20240710_0843	0.1	169
20240710_0853	0.1	103
20240710_0903	0.1	146
20240710_0913	0.1	317
20240710_0923	0.1	264
20240710_0933	0.1	158
20240710_0943	0.1	90
20240710_0953	0.1	109
20240710_1003	0.1	85
20240710_1013	0.1	236
20240710_1023	0.1	215
20240710_1033	0.1	301
20240710_1043	0.1	332
20240710_1053	0.1	154
20240710_1103	0.1	178
20240710_1113	0.1	134
20240710_1123	0.1	318
20240710_1133	0.1	320
20240710_1143	0.1	120
20240710_1153	0.2	163

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240710_1203	0.1	265
20240710_1213	0.2	239
20240710_1223	2	184
20240710_1233	1.8	152
20240710_1243	0.8	353
20240710_1253	0.1	103
20240710_1303	1	321
20240710_1313	2	61
20240710_1323	0.1	151
20240710_1333	0.1	321
20240710_1343	0.6	152
20240710_1353	0.5	143
20240710_1403	1.6	333
20240710_1413	2.4	132
20240710_1423	0.1	170
20240710_1433	1.4	319
20240710_1443	0.4	160
20240710_1453	0.1	66
20240710_1503	0.1	51
20240710_1513	0.1	51
20240710_1523	0.3	102
20240710_1533	0.1	194
20240710_1543	0.1	59
20240710_1553	0.1	107
20240710_1603	0.2	138
20240710_1613	0.1	262
20240710_1623	0.1	247
20240710_1633	0.1	150
20240710_1643	0.1	295
20240710_1653	0.1	6
20240710_1703	0.6	328
20240710_1713	0.1	265
20240710_1723	0.1	143
20240710_1733	0.2	40
20240710_1743	0.2	133
20240710_1753	0.1	239
20240710_1803	0.1	349
20240710_1813	1.1	344
20240710_1823	0.7	114
20240710_1833	0.1	59
20240710_1843	0.5	126
20240710_1853	0.1	78
20240710_1903	0.1	105
20240710_1913	0.1	42
20240710_1923	0.1	196
20240710_1933	0.1	204
20240710_1943	0.1	74
20240710_1953	0.2	108
20240710_2003	0.7	125
20240710_2013	0.1	60
20240710_2023	0.1	86
20240710_2033	0.1	115
20240710_2043	0.1	113
20240710_2053	0.1	181
20240710_2103	0.1	129
20240710_2113	0.1	113
20240710_2123	0.1	294
20240710_2133	0.1	89
20240710_2143	0.1	321
20240710_2153	0.1	131
20240710_2203	2.2	91
20240710_2213	0.1	128
20240710_2223	0.1	22
20240710_2233	0.2	53
20240710_2243	0.1	147
20240710_2253	0.1	48
20240710_2303	0.1	101
20240710_2313	0.1	153
20240710_2323	0.1	109
20240710_2333	0.1	62
20240710_2343	0.1	58
20240710_2353	0.1	35

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240711_0003	0.1	47
20240711_0013	0.1	45
20240711_0023	0.1	351
20240711_0033	0.1	51
20240711_0043	0.1	58
20240711_0053	0.1	55
20240711_0103	0.1	48
20240711_0113	0.1	45
20240711_0123	0.1	12
20240711_0133	0.1	179
20240711_0143	0.1	155
20240711_0153	0.1	75
20240711_0203	0.1	75
20240711_0213	0.1	56
20240711_0223	0.1	19
20240711_0233	0.1	352
20240711_0243	0.1	21
20240711_0253	0.1	143
20240711_0303	0.1	109
20240711_0313	0.1	72
20240711_0323	0.1	60
20240711_0333	0.1	54
20240711_0343	0.1	55
20240711_0353	0.1	50
20240711_0403	0.1	55
20240711_0413	0.1	61
20240711_0423	0.1	61
20240711_0433	0.1	38
20240711_0443	0.1	103
20240711_0453	0.1	60
20240711_0503	0.1	42
20240711_0513	0.1	62
20240711_0523	0.1	77
20240711_0533	0.1	110
20240711_0543	0.1	22
20240711_0553	0.1	55
20240711_0603	0.1	53
20240711_0613	0.1	47
20240711_0623	0.1	59
20240711_0633	0.1	144
20240711_0643	0.1	153
20240711_0653	0.1	144
20240711_0703	0.1	245
20240711_0713	0.1	85
20240711_0723	0.1	120
20240711_0733	0.1	146
20240711_0743	0.1	115
20240711_0753	0.1	246
20240711_0803	0.8	185
20240711_0813	0.1	129
20240711_0823	0.1	48
20240711_0833	0.1	63
20240711_0843	0.1	81
20240711_0853	0.3	108
20240711_0903	0.1	116
20240711_0913	0.1	152
20240711_0923	0.1	136
20240711_0933	0.1	84
20240711_0943	0.3	78
20240711_0953	0.1	73
20240711_1003	0.1	19
20240711_1013	0.1	157
20240711_1023	0.1	77
20240711_1033	0.1	202
20240711_1043	0.1	110
20240711_1053	0.1	225
20240711_1103	0.1	111
20240711_1113	0.1	117
20240711_1123	0.1	123
20240711_1133	0.2	55
20240711_1143	0.1	236
20240711_1153	0.1	106

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240711_1203	0.2	245
20240711_1213	0.1	244
20240711_1223	0.1	246
20240711_1233	0.1	68
20240711_1243	0.2	115
20240711_1253	0.1	261
20240711_1303	0.1	198
20240711_1313	2.1	185
20240711_1323	0.1	108
20240711_1333	0.1	59
20240711_1343	0.1	233
20240711_1353	0.1	246
20240711_1403	0.3	253
20240711_1413	0.1	329
20240711_1423	0.7	153
20240711_1433	0.1	259
20240711_1443	0.1	175
20240711_1453	0.1	48
20240711_1503	1.9	247
20240711_1513	0.1	148
20240711_1523	0.1	301
20240711_1533	0.2	109
20240711_1543	0.1	143
20240711_1553	0.3	225
20240711_1603	0.1	160
20240711_1613	0.1	152
20240711_1623	0.1	210
20240711_1633	0.1	33
20240711_1643	0.1	229
20240711_1653	0.1	317
20240711_1703	0.1	145
20240711_1713	0.1	97
20240711_1723	0.1	165
20240711_1733	0.1	129
20240711_1743	0.1	151
20240711_1753	0.1	308
20240711_1803	0.1	4
20240711_1813	0.1	119
20240711_1823	0.1	42
20240711_1833	0.1	156
20240711_1843	0.1	77
20240711_1853	0.1	126
20240711_1903	0.1	247
20240711_1913	0.1	105
20240711_1923	0.1	295
20240711_1933	0.1	135
20240711_1943	0.1	181
20240711_1953	0.1	149
20240711_2003	0.1	85
20240711_2013	0.2	44
20240711_2023	0.1	184
20240711_2033	0.1	4
20240711_2043	0.1	51
20240711_2053	0.1	19
20240711_2103	0.3	106
20240711_2113	0.1	82
20240711_2123	0.1	98
20240711_2133	0.1	57
20240711_2143	0.1	111
20240711_2153	0.1	119
20240711_2203	0.1	190
20240711_2213	0.1	339
20240711_2223	0.1	125
20240711_2233	0.1	29
20240711_2243	0.1	95
20240711_2253	0.1	77
20240711_2303	0.1	153
20240711_2313	0.1	119
20240711_2323	0.1	35
20240711_2333	0.1	69
20240711_2343	0.1	74
20240711_2353	0.1	62

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240712_0003	0.1	47
20240712_0013	0.1	64
20240712_0023	0.1	58
20240712_0033	0.1	62
20240712_0043	0.1	91
20240712_0053	0.1	49
20240712_0103	0.1	53
20240712_0113	0.1	65
20240712_0123	0.1	75
20240712_0133	0.1	46
20240712_0143	0.1	114
20240712_0153	0.1	328
20240712_0203	0.1	84
20240712_0213	0.1	178
20240712_0223	0.1	68
20240712_0233	0.1	103
20240712_0243	0.1	23
20240712_0253	0.1	62
20240712_0303	0.1	75
20240712_0313	0.1	45
20240712_0323	0.1	48
20240712_0333	0.1	60
20240712_0343	0.1	53
20240712_0353	0.1	85
20240712_0403	0.1	48
20240712_0413	0.1	48
20240712_0423	0.1	88
20240712_0433	0.1	72
20240712_0443	0.1	58
20240712_0453	0.1	5
20240712_0503	0.1	284
20240712_0513	0.1	111
20240712_0523	0.1	38
20240712_0533	0.1	51
20240712_0543	0.1	77
20240712_0553	0.1	85
20240712_0603	0.1	37
20240712_0613	0.1	79
20240712_0623	0.1	142
20240712_0633	0.1	169
20240712_0643	0.1	111
20240712_0653	0.1	303
20240712_0703	0.1	32
20240712_0713	0.1	60
20240712_0723	0.1	84
20240712_0733	0.1	151
20240712_0743	0.1	77
20240712_0753	0.1	118
20240712_0803	0.1	300
20240712_0813	0.1	310
20240712_0823	0.1	220
20240712_0833	0.6	252
20240712_0843	0.1	26
20240712_0853	0.1	106
20240712_0903	0.1	72
20240712_0913	0.1	46
20240712_0923	0.2	65
20240712_0933	0.1	155
20240712_0943	0.1	172
20240712_0953	0.1	64
20240712_1003	0.1	97
20240712_1013	0.1	185
20240712_1023	0.1	152
20240712_1033	0.1	15
20240712_1043	0.1	331
20240712_1053	0.1	311
20240712_1103	0.1	327
20240712_1113	0.1	174
20240712_1123	0.1	105
20240712_1133	0.1	350
20240712_1143	0.1	184
20240712_1153	0.2	165

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240712_1203	0.1	333
20240712_1213	0.1	229
20240712_1223	0.9	136
20240712_1233	1.2	343
20240712_1243	0.7	234
20240712_1253	0.1	152
20240712_1303	0.1	73
20240712_1313	0.1	104
20240712_1323	0.1	346
20240712_1333	0.3	256
20240712_1343	0.1	135
20240712_1353	0.1	217
20240712_1403	0.1	190
20240712_1413	1.1	151
20240712_1423	0.1	68
20240712_1433	0.1	132
20240712_1443	0.5	102
20240712_1453	0.1	67
20240712_1503	0.1	217
20240712_1513	0.1	212
20240712_1523	0.1	115
20240712_1533	0.1	170
20240712_1543	0.2	94
20240712_1553	1.8	147
20240712_1603	0.4	269
20240712_1613	2.1	153
20240712_1623	0.1	342
20240712_1633	0.1	171
20240712_1643	0.5	110
20240712_1653	0.1	128
20240712_1703	0.1	217
20240712_1713	0.1	223
20240712_1723	0.6	241
20240712_1733	0.1	263
20240712_1743	0.1	173
20240712_1753	0.1	208
20240712_1803	0.1	289
20240712_1813	0.1	143
20240712_1823	0.1	159
20240712_1833	0.1	203
20240712_1843	0.1	148
20240712_1853	0.1	56
20240712_1903	0.1	113
20240712_1913	0.1	151
20240712_1923	0.1	80
20240712_1933	0.1	63
20240712_1943	0.1	128
20240712_1953	0.1	50
20240712_2003	0.1	73
20240712_2013	0.1	97
20240712_2023	0.1	41
20240712_2033	1.4	118
20240712_2043	0.1	133
20240712_2053	0.1	138
20240712_2103	0.1	130
20240712_2113	0.1	115
20240712_2123	0.1	70
20240712_2133	0.1	306
20240712_2143	0.1	74
20240712_2153	0.1	105
20240712_2203	0.1	151
20240712_2213	0.1	29
20240712_2223	0.1	330
20240712_2233	0.1	111
20240712_2243	0.1	2
20240712_2253	0.1	350
20240712_2303	0.1	40
20240712_2313	0.1	304
20240712_2323	0.1	77
20240712_2333	0.1	78
20240712_2343	0.1	66
20240712_2353	0.1	329

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240713_0003	0.1	87
20240713_0013	0.1	175
20240713_0023	0.1	65
20240713_0033	0.1	56
20240713_0043	0.1	50
20240713_0053	0.1	4
20240713_0103	0.1	8
20240713_0113	0.1	274
20240713_0123	0.1	139
20240713_0133	0.1	130
20240713_0143	0.1	340
20240713_0153	0.1	56
20240713_0203	0.1	150
20240713_0213	0.1	61
20240713_0223	0.1	145
20240713_0233	0.1	72
20240713_0243	0.1	50
20240713_0253	0.1	340
20240713_0303	0.1	7
20240713_0313	0.1	19
20240713_0323	0.1	136
20240713_0333	0.1	118
20240713_0343	0.1	108
20240713_0353	0.1	87
20240713_0403	0.1	11
20240713_0413	0.1	133
20240713_0423	0.1	124
20240713_0433	0.1	38
20240713_0443	0.1	293
20240713_0453	0.1	348
20240713_0503	0.1	106
20240713_0513	0.1	63
20240713_0523	0.1	38
20240713_0533	0.1	7
20240713_0543	0.1	71
20240713_0553	0.1	45
20240713_0603	0.1	11
20240713_0613	0.1	110
20240713_0623	0.1	344
20240713_0633	0.1	33
20240713_0643	0.1	90
20240713_0653	0.1	146
20240713_0703	0.1	153
20240713_0713	0.1	181
20240713_0723	0.1	257
20240713_0733	0.1	141
20240713_0743	0.1	125
20240713_0753	0.1	132
20240713_0803	0.1	302
20240713_0813	0.1	129
20240713_0823	0.2	244
20240713_0833	0.2	149
20240713_0843	0.1	196
20240713_0853	0.1	143
20240713_0903	0.1	125
20240713_0913	0.1	177
20240713_0923	0.1	142
20240713_0933	0.1	108
20240713_0943	0.1	134
20240713_0953	0.1	125
20240713_1003	0.2	296
20240713_1013	0.9	233
20240713_1023	0.1	314
20240713_1033	0.1	133
20240713_1043	0.1	164
20240713_1053	0.1	223
20240713_1103	0.1	185
20240713_1113	0.1	258
20240713_1123	0.2	268
20240713_1133	0.3	227
20240713_1143	0.1	234
20240713_1153	0.1	299

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240713_1203	0.1	186
20240713_1213	0.3	154
20240713_1223	0.1	198
20240713_1233	0.1	236
20240713_1243	0.5	173
20240713_1253	2.1	271
20240713_1303	0.1	122
20240713_1313	0.1	200
20240713_1323	0.1	292
20240713_1333	0.1	276
20240713_1343	0.1	224
20240713_1353	0.1	252
20240713_1403	0.1	239
20240713_1413	0.1	216
20240713_1423	0.1	204
20240713_1433	0.2	351
20240713_1443	0.3	86
20240713_1453	1	105
20240713_1503	0.4	26
20240713_1513	0.6	179
20240713_1523	0.1	334
20240713_1533	0.1	334
20240713_1543	0.1	151
20240713_1553	0.3	221
20240713_1603	0.2	291
20240713_1613	0.1	319
20240713_1623	0.1	286
20240713_1633	0.3	300
20240713_1643	1.7	7
20240713_1653	0.7	188
20240713_1703	2.3	305
20240713_1713	0.1	155
20240713_1723	0.1	332
20240713_1733	2.6	341
20240713_1743	0.1	281
20240713_1753	0.1	124
20240713_1803	0.6	299
20240713_1813	0.1	336
20240713_1823	0.1	134
20240713_1833	0.2	123
20240713_1843	0.1	319
20240713_1853	0.1	133
20240713_1903	0.1	286
20240713_1913	0.1	91
20240713_1923	0.6	99
20240713_1933	1	154
20240713_1943	0.1	65
20240713_1953	0.1	160
20240713_2003	0.1	44
20240713_2013	0.1	104
20240713_2023	0.1	340
20240713_2033	0.1	282
20240713_2043	0.1	114
20240713_2053	0.1	160
20240713_2103	0.2	115
20240713_2113	0.1	218
20240713_2123	0.1	71
20240713_2133	0.1	47
20240713_2143	0.1	77
20240713_2153	0.1	38
20240713_2203	0.1	154
20240713_2213	0.1	80
20240713_2223	1.2	154
20240713_2233	0.1	70
20240713_2243	0.1	163
20240713_2253	0.1	125
20240713_2303	0.1	37
20240713_2313	1.1	159
20240713_2323	0.1	292
20240713_2333	0.1	64
20240713_2343	0.1	265
20240713_2353	0.1	163

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240714_0003	0.1	171
20240714_0013	0.1	293
20240714_0023	0.7	141
20240714_0033	1.6	138
20240714_0043	0.1	135
20240714_0053	0.1	311
20240714_0103	0.1	263
20240714_0113	1.7	157
20240714_0123	0.1	331
20240714_0133	0.1	42
20240714_0143	0.1	298
20240714_0153	0.1	300
20240714_0203	0.1	1
20240714_0213	0.1	15
20240714_0223	0.1	40
20240714_0233	0.1	351
20240714_0243	0.2	319
20240714_0253	0.1	179
20240714_0303	0.1	134
20240714_0313	0.1	182
20240714_0323	0.1	315
20240714_0333	0.1	284
20240714_0343	1.2	131
20240714_0353	0.5	130
20240714_0403	0.1	140
20240714_0413	0.1	152
20240714_0423	0.1	255
20240714_0433	0.1	221
20240714_0443	0.1	266
20240714_0453	0.1	0
20240714_0503	0.1	130
20240714_0513	0.1	41
20240714_0523	0.1	108
20240714_0533	0.1	2
20240714_0543	0.1	139
20240714_0553	0.1	129
20240714_0603	0.1	161
20240714_0613	0.1	148
20240714_0623	0.1	193
20240714_0633	0.1	150
20240714_0643	0.1	57
20240714_0653	0.1	108
20240714_0703	0.1	140
20240714_0713	0.1	81
20240714_0723	0.1	100
20240714_0733	0.1	314
20240714_0743	0.1	82
20240714_0753	0.1	247
20240714_0803	0.7	111
20240714_0813	0.5	90
20240714_0823	0.2	31
20240714_0833	0.8	95
20240714_0843	1.6	145
20240714_0853	0.1	335
20240714_0903	0.1	136
20240714_0913	0.1	129
20240714_0923	1.2	93
20240714_0933	0.1	225
20240714_0943	0.2	62
20240714_0953	0.1	66
20240714_1003	2.4	138
20240714_1013	0.1	161
20240714_1023	0.1	332
20240714_1033	0.1	251
20240714_1043	1.2	247
20240714_1053	0.3	114
20240714_1103	0.2	344
20240714_1113	1.6	107
20240714_1123	0.1	17
20240714_1133	0.1	36
20240714_1143	0.7	51
20240714_1153	0.1	212

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240714_1203	0.1	96
20240714_1213	0.1	212
20240714_1223	0.2	24
20240714_1233	0.1	126
20240714_1243	0.1	247
20240714_1253	1.1	312
20240714_1303	0.1	271
20240714_1313	3.2	123
20240714_1323	0.2	175
20240714_1333	0.2	85
20240714_1343	0.8	115
20240714_1353	1.4	18
20240714_1403	2.4	64
20240714_1413	0.3	4
20240714_1423	0.4	62
20240714_1433	0.7	18
20240714_1443	0.1	202
20240714_1453	0.6	180
20240714_1503	2	57
20240714_1513	1.5	334
20240714_1523	0.2	9
20240714_1533	0.1	67
20240714_1543	1.4	337
20240714_1553	1.8	21
20240714_1603	0.5	13
20240714_1613	1.5	141
20240714_1623	0.6	257
20240714_1633	0.1	166
20240714_1643	1.3	309
20240714_1653	0.2	31
20240714_1703	2.5	155
20240714_1713	0.4	309
20240714_1723	0.1	82
20240714_1733	1.2	255
20240714_1743	0.9	79
20240714_1753	0.1	320
20240714_1803	0.5	293
20240714_1813	0.1	288
20240714_1823	0.1	74
20240714_1833	1.5	48
20240714_1843	1.8	95
20240714_1853	0.7	132
20240714_1903	0.3	111
20240714_1913	0.1	17
20240714_1923	0.1	245
20240714_1933	0.1	14
20240714_1943	0.1	121
20240714_1953	0.1	144
20240714_2003	0.1	84
20240714_2013	0.1	150
20240714_2023	0.1	209
20240714_2033	0.2	91
20240714_2043	0.2	162
20240714_2053	0.1	77
20240714_2103	0.1	109
20240714_2113	0.1	125
20240714_2123	0.1	283
20240714_2133	1.1	136
20240714_2143	0.1	130
20240714_2153	1	214
20240714_2203	0.2	30
20240714_2213	1.2	132
20240714_2223	0.2	186
20240714_2233	0.3	131
20240714_2243	0.1	335
20240714_2253	0.3	84
20240714_2303	0.5	152
20240714_2313	0.1	155
20240714_2323	0.2	139
20240714_2333	0.1	306
20240714_2343	0.3	175
20240714_2353	0.1	184

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240715_0003	0.1	28
20240715_0013	0.3	210
20240715_0023	0.3	120
20240715_0033	0.6	117
20240715_0043	0.1	119
20240715_0053	1.9	38
20240715_0103	0.3	163
20240715_0113	4	3
20240715_0123	0.1	34
20240715_0133	0.1	119
20240715_0143	1.1	343
20240715_0153	0.2	177
20240715_0203	0.1	132
20240715_0213	0.1	122
20240715_0223	0.1	182
20240715_0233	0.4	187
20240715_0243	3.2	330
20240715_0253	0.6	89
20240715_0303	0.1	34
20240715_0313	2	136
20240715_0323	0.1	1
20240715_0333	0.7	51
20240715_0343	0.1	104
20240715_0353	0.7	295
20240715_0403	1.8	38
20240715_0413	1.1	157
20240715_0423	0.2	94
20240715_0433	0.4	103
20240715_0443	2.4	32
20240715_0453	5.5	59
20240715_0503	0.1	193
20240715_0513	0.1	317
20240715_0523	0.8	134
20240715_0533	1.4	73
20240715_0543	1.1	328
20240715_0553	0.5	93
20240715_0603	1.1	160
20240715_0613	0.3	128
20240715_0623	0.2	118
20240715_0633	0.1	135
20240715_0643	0.1	152
20240715_0653	1.9	100
20240715_0703	0.1	76
20240715_0713	3.2	116
20240715_0723	0.1	24
20240715_0733	1.1	124
20240715_0743	0.1	122
20240715_0753	1.2	335
20240715_0803	0.1	142
20240715_0813	0.7	154
20240715_0823	0.4	67
20240715_0833	0.3	72
20240715_0843	0.3	97
20240715_0853	0.1	17
20240715_0903	0.2	158
20240715_0913	0.2	324
20240715_0923	0.5	147
20240715_0933	0.4	128
20240715_0943	0.1	157
20240715_0953	0.1	157
20240715_1003	0.1	314
20240715_1013	0.1	163
20240715_1023	0.2	75
20240715_1033	0.1	183
20240715_1043	0.6	329
20240715_1053	0.4	29
20240715_1103	0.8	345
20240715_1113	1.1	26
20240715_1123	1.3	43
20240715_1133	0.1	29
20240715_1143	0.1	336
20240715_1153	1.7	54

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240715_1203	0.1	119
20240715_1213	2.3	70
20240715_1223	0.1	307
20240715_1233	1.2	116
20240715_1243	6.3	141
20240715_1253	0.2	214
20240715_1303	0.1	97
20240715_1313	0.1	241
20240715_1323	1.8	115
20240715_1333	1.3	275
20240715_1343	0.1	46
20240715_1353	0.1	350
20240715_1403	3.7	152
20240715_1413	1.2	320
20240715_1423	0.4	326
20240715_1433	0.4	342
20240715_1443	0.1	218
20240715_1453	2.6	53
20240715_1503	0.4	49
20240715_1513	0.1	75
20240715_1523	0.1	10
20240715_1533	0.4	338
20240715_1543	2.1	33
20240715_1553	0.1	276
20240715_1603	1.4	65
20240715_1613	0.3	318
20240715_1623	0.1	241
20240715_1633	0.1	78
20240715_1643	3.8	55
20240715_1653	1.3	61
20240715_1703	0.5	48
20240715_1713	0.3	19
20240715_1723	0.8	350
20240715_1733	2.5	307
20240715_1743	1.1	159
20240715_1753	0.9	348
20240715_1803	0.1	41
20240715_1813	0.4	29
20240715_1823	0.3	122
20240715_1833	0.1	335
20240715_1843	0.1	205
20240715_1853	0.1	61
20240715_1903	2.8	122
20240715_1913	0.2	36
20240715_1923	0.4	285
20240715_1933	0.1	95
20240715_1943	0.8	194
20240715_1953	1	109
20240715_2003	4.5	34
20240715_2013	0.6	313
20240715_2023	1.8	137
20240715_2033	0.9	83
20240715_2043	0.1	335
20240715_2053	0.1	154
20240715_2103	0.1	105
20240715_2113	0.1	152
20240715_2123	0.3	149
20240715_2133	0.9	138
20240715_2143	0.3	171
20240715_2153	0.1	162
20240715_2203	0.1	168
20240715_2213	0.5	144
20240715_2223	0.1	98
20240715_2233	0.9	12
20240715_2243	0.1	101
20240715_2253	0.1	153
20240715_2303	0.2	76
20240715_2313	0.3	129
20240715_2323	0.4	142
20240715_2333	0.1	318
20240715_2343	0.6	141
20240715_2353	0.1	70

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240716_0003	0.1	242
20240716_0013	0.1	147
20240716_0023	0.1	169
20240716_0033	0.1	131
20240716_0043	0.1	135
20240716_0053	0.1	37
20240716_0103	0.1	289
20240716_0113	0.1	141
20240716_0123	0.1	119
20240716_0133	0.1	242
20240716_0143	0.1	274
20240716_0153	0.2	145
20240716_0203	0.1	308
20240716_0213	0.1	164
20240716_0223	0.1	76
20240716_0233	0.1	160
20240716_0243	0.1	322
20240716_0253	0.1	153
20240716_0303	0.1	56
20240716_0313	0.1	26
20240716_0323	0.1	238
20240716_0333	0.1	206
20240716_0343	0.1	88
20240716_0353	0.1	142
20240716_0403	0.1	146
20240716_0413	0.1	281
20240716_0423	0.1	101
20240716_0433	0.1	295
20240716_0443	0.1	141
20240716_0453	0.1	194
20240716_0503	0.1	232
20240716_0513	0.1	320
20240716_0523	0.1	182
20240716_0533	0.1	154
20240716_0543	0.1	228
20240716_0553	0.1	160
20240716_0603	0.1	249
20240716_0613	0.1	196
20240716_0623	0.1	106
20240716_0633	0.2	273
20240716_0643	0.1	303
20240716_0653	1.1	264
20240716_0703	0.6	134
20240716_0713	0.1	77
20240716_0723	0.1	178
20240716_0733	0.1	10
20240716_0743	0.4	36
20240716_0753	0.1	50
20240716_0803	0.1	192
20240716_0813	0.9	49
20240716_0823	0.1	63
20240716_0833	0.5	74
20240716_0843	0.9	60
20240716_0853	2.4	329
20240716_0903	1	345
20240716_0913	0.1	170
20240716_0923	0.1	43
20240716_0933	0.1	96
20240716_0943	0.1	52
20240716_0953	0.1	89
20240716_1003	1.4	4
20240716_1013	1.3	347
20240716_1023	2.3	58
20240716_1033	0.1	141
20240716_1043	5	56
20240716_1053	0.4	60
20240716_1103	0.1	10
20240716_1113	4.1	19
20240716_1123	0.2	137
20240716_1133	1.9	294
20240716_1143	0.3	114
20240716_1153	1.2	31

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240716_1203	0.1	344
20240716_1213	0.1	124
20240716_1223	0.1	88
20240716_1233	0.1	140
20240716_1243	0.1	175
20240716_1253	0.5	143
20240716_1303	1.8	297
20240716_1313	0.1	82
20240716_1323	4	343
20240716_1333	0.5	69
20240716_1343	2	67
20240716_1353	2.3	39
20240716_1403	0.3	203
20240716_1413	0.2	175
20240716_1423	1	136
20240716_1433	0.6	15
20240716_1443	0.1	128
20240716_1453	2.6	352
20240716_1503	3.5	52
20240716_1513	1.3	158
20240716_1523	0.3	284
20240716_1533	0.4	46
20240716_1543	0.7	341
20240716_1553	0.1	92
20240716_1603	0.1	37
20240716_1613	0.1	67
20240716_1623	0.1	16
20240716_1633	3.8	338
20240716_1643	0.2	298
20240716_1653	0.1	326
20240716_1703	0.8	347
20240716_1713	0.2	91
20240716_1723	0.1	312
20240716_1733	2.4	6
20240716_1743	0.1	10
20240716_1753	0.1	76
20240716_1803	0.1	61
20240716_1813	0.1	126
20240716_1823	1.7	96
20240716_1833	0.1	101
20240716_1843	0.4	17
20240716_1853	0.1	169
20240716_1903	1.6	72
20240716_1913	0.1	118
20240716_1923	0.1	103
20240716_1933	0.6	124
20240716_1943	1.9	146
20240716_1953	0.1	123
20240716_2003	0.1	21
20240716_2013	1.4	103
20240716_2023	0.1	320
20240716_2033	0.4	122
20240716_2043	0.4	346
20240716_2053	0.3	143
20240716_2103	0.4	351
20240716_2113	0.1	15
20240716_2123	0.1	131
20240716_2133	0.1	47
20240716_2143	0.1	109
20240716_2153	0.1	94
20240716_2203	0.1	253
20240716_2213	0.1	145
20240716_2223	0.5	80
20240716_2233	0.7	116
20240716_2243	0.1	89
20240716_2253	0.1	76
20240716_2303	0.1	117
20240716_2313	0.1	41
20240716_2323	1	300
20240716_2333	0.1	154
20240716_2343	0.1	12
20240716_2353	0.1	318

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240717_0003	0.5	341
20240717_0013	0.7	339
20240717_0023	0.2	340
20240717_0033	1.1	76
20240717_0043	0.1	38
20240717_0053	0.1	130
20240717_0103	0.1	116
20240717_0113	0.1	115
20240717_0123	0.2	152
20240717_0133	0.1	231
20240717_0143	0.8	131
20240717_0153	0.1	68
20240717_0203	0.1	126
20240717_0213	0.1	201
20240717_0223	0.1	0
20240717_0233	0.1	64
20240717_0243	0.1	343
20240717_0253	0.1	228
20240717_0303	0.5	46
20240717_0313	0.1	31
20240717_0323	0.1	197
20240717_0333	0.1	145
20240717_0343	0.1	185
20240717_0353	0.1	269
20240717_0403	0.1	72
20240717_0413	0.1	162
20240717_0423	0.1	132
20240717_0433	0.1	267
20240717_0443	0.1	261
20240717_0453	0.1	127
20240717_0503	0.1	130
20240717_0513	0.1	173
20240717_0523	0.6	119
20240717_0533	0.1	87
20240717_0543	0.1	156
20240717_0553	0.2	17
20240717_0603	0.1	92
20240717_0613	0.1	241
20240717_0623	0.1	50
20240717_0633	0.1	228
20240717_0643	0.1	26
20240717_0653	0.1	303
20240717_0703	0.1	350
20240717_0713	0.1	76
20240717_0723	0.1	154
20240717_0733	0.1	233
20240717_0743	0.1	336
20240717_0753	0.1	103
20240717_0803	0.1	80
20240717_0813	0.1	149
20240717_0823	0.1	107
20240717_0833	0.1	237
20240717_0843	0.1	193
20240717_0853	0.1	49
20240717_0903	0.5	87
20240717_0913	1	29
20240717_0923	0.1	246
20240717_0933	0.1	349
20240717_0943	0.1	337
20240717_0953	1.1	124
20240717_1003	1.3	315
20240717_1013	5.3	126
20240717_1023	3.6	130
20240717_1033	0.4	78
20240717_1043	0.1	58
20240717_1053	0.6	70
20240717_1103	1.6	39
20240717_1113	0.1	54
20240717_1123	0.1	157
20240717_1133	2.4	353
20240717_1143	1.6	327
20240717_1153	0.3	296

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240717_1203	0.6	318
20240717_1213	1	89
20240717_1223	0.1	10
20240717_1233	0.3	47
20240717_1243	0.4	71
20240717_1253	0.6	87
20240717_1303	4.3	35
20240717_1313	0.8	76
20240717_1323	2.3	337
20240717_1333	0.2	336
20240717_1343	0.1	93
20240717_1353	0.1	36
20240717_1403	1.5	167
20240717_1413	1.1	319
20240717_1423	2.6	318
20240717_1433	3.5	346
20240717_1443	1.7	342
20240717_1453	1.9	348
20240717_1503	0.9	245
20240717_1513	0.1	85
20240717_1523	0.1	30
20240717_1533	0.5	310
20240717_1543	0.1	301
20240717_1553	1.2	49
20240717_1603	1.5	22
20240717_1613	0.6	13
20240717_1623	2.4	333
20240717_1633	0.1	204
20240717_1643	0.6	181
20240717_1653	0.1	49
20240717_1703	0.1	341
20240717_1713	0.1	351
20240717_1723	0.1	257
20240717_1733	0.4	294
20240717_1743	3.5	343
20240717_1753	0.1	321
20240717_1803	0.1	311
20240717_1813	0.1	318
20240717_1823	2.2	318
20240717_1833	4.4	322
20240717_1843	0.5	335
20240717_1853	0.5	126
20240717_1903	0.1	139
20240717_1913	0.1	333
20240717_1923	0.1	302
20240717_1933	0.1	232
20240717_1943	0.1	331
20240717_1953	0.3	257
20240717_2003	0.1	243
20240717_2013	0.1	68
20240717_2023	0.3	101
20240717_2033	0.1	123
20240717_2043	0.1	189
20240717_2053	0.1	126
20240717_2103	0.1	131
20240717_2113	0.1	196
20240717_2123	0.1	162
20240717_2133	0.1	96
20240717_2143	0.1	144
20240717_2153	0.1	137
20240717_2203	0.1	143
20240717_2213	0.1	118
20240717_2223	0.1	280
20240717_2233	0.1	55
20240717_2243	0.1	151
20240717_2253	0.1	163
20240717_2303	0.1	351
20240717_2313	0.3	130
20240717_2323	0.1	276
20240717_2333	0.5	139
20240717_2343	0.1	46
20240717_2353	0.2	131

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240718_0003	0.4	160
20240718_0013	0.1	299
20240718_0023	0.3	134
20240718_0033	0.1	103
20240718_0043	0.1	209
20240718_0053	0.1	4
20240718_0103	0.1	41
20240718_0113	0.1	136
20240718_0123	0.1	105
20240718_0133	0.1	169
20240718_0143	0.3	30
20240718_0153	0.1	350
20240718_0203	0.1	123
20240718_0213	0.1	26
20240718_0223	0.1	73
20240718_0233	1.3	328
20240718_0243	0.1	323
20240718_0253	0.1	200
20240718_0303	0.1	82
20240718_0313	1.2	69
20240718_0323	0.1	67
20240718_0333	0.9	342
20240718_0343	0.1	106
20240718_0353	5	106
20240718_0403	2.1	24
20240718_0413	0.1	109
20240718_0423	0.1	1
20240718_0433	0.1	154
20240718_0443	0.1	129
20240718_0453	0.1	308
20240718_0503	0.1	100
20240718_0513	0.1	24
20240718_0523	0.1	231
20240718_0533	0.9	119
20240718_0543	0.1	47
20240718_0553	0.2	114
20240718_0603	0.2	329
20240718_0613	0.1	324
20240718_0623	1.6	106
20240718_0633	0.1	109
20240718_0643	0.1	74
20240718_0653	0.3	139
20240718_0703	0.1	200
20240718_0713	0.4	84
20240718_0723	4.9	324
20240718_0733	2.7	50
20240718_0743	0.4	313
20240718_0753	0.2	121
20240718_0803	0.3	180
20240718_0813	0.1	48
20240718_0823	0.1	97
20240718_0833	0.2	119
20240718_0843	1.9	118
20240718_0853	2	3
20240718_0903	0.3	208
20240718_0913	0.3	347
20240718_0923	2.2	162
20240718_0933	0.3	1
20240718_0943	2.9	107
20240718_0953	6.8	94
20240718_1003	0.1	137
20240718_1013	0.1	306
20240718_1023	1.6	136
20240718_1033	0.1	151
20240718_1043	0.1	13
20240718_1053	2.1	105
20240718_1103	0.1	178
20240718_1113	2.7	105
20240718_1123	0.4	142
20240718_1133	0.1	44
20240718_1143	0.1	40
20240718_1153	0.1	33

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240718_1203	0.9	290
20240718_1213	0.1	30
20240718_1223	0.1	216
20240718_1233	1.1	328
20240718_1243	2	348
20240718_1253	0.3	224
20240718_1303	0.1	337
20240718_1313	1.6	31
20240718_1323	0.1	14
20240718_1333	0.7	323
20240718_1343	1.1	292
20240718_1353	0.1	269
20240718_1403	0.1	236
20240718_1413	0.1	175
20240718_1423	0.1	100
20240718_1433	0.3	5
20240718_1443	0.1	250
20240718_1453	0.1	177
20240718_1503	0.1	67
20240718_1513	0.1	42
20240718_1523	0.1	18
20240718_1533	0.1	54
20240718_1543	0.1	304
20240718_1553	0.1	216
20240718_1603	0.1	228
20240718_1613	0.1	321
20240718_1623	0.1	116
20240718_1633	0.1	55
20240718_1643	0.1	36
20240718_1653	0.1	75
20240718_1703	0.1	167
20240718_1713	0.1	91
20240718_1723	0.1	94
20240718_1733	0.1	212
20240718_1743	0.1	126
20240718_1753	0.1	128
20240718_1803	0.2	162
20240718_1813	0.1	91
20240718_1823	0.1	37
20240718_1833	0.1	290
20240718_1843	0.1	111
20240718_1853	0.1	350
20240718_1903	0.1	110
20240718_1913	0.1	140
20240718_1923	0.1	263
20240718_1933	0.1	76
20240718_1943	0.1	215
20240718_1953	0.1	137
20240718_2003	0.2	135
20240718_2013	2.4	41
20240718_2023	0.1	332
20240718_2033	0.1	280
20240718_2043	0.4	107
20240718_2053	0.1	204
20240718_2103	0.1	112
20240718_2113	0.1	140
20240718_2123	0.1	108
20240718_2133	0.1	94
20240718_2143	0.1	155
20240718_2153	0.1	122
20240718_2203	0.1	176
20240718_2213	0.1	142
20240718_2223	0.1	95
20240718_2233	0.1	261
20240718_2243	0.1	292
20240718_2253	0.1	193
20240718_2303	0.1	148
20240718_2313	0.1	114
20240718_2323	0.1	142
20240718_2333	0.1	331
20240718_2343	0.1	164
20240718_2353	0.1	126

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240719_0003	0.1	261
20240719_0013	0.1	62
20240719_0023	0.1	309
20240719_0033	0.1	159
20240719_0043	0.1	92
20240719_0053	0.1	190
20240719_0103	0.1	101
20240719_0113	1	142
20240719_0123	0.1	178
20240719_0133	0.3	147
20240719_0143	0.1	212
20240719_0153	0.1	250
20240719_0203	0.1	117
20240719_0213	0.1	174
20240719_0223	0.1	46
20240719_0233	0.1	164
20240719_0243	0.1	238
20240719_0253	0.1	172
20240719_0303	0.1	128
20240719_0313	0.1	249
20240719_0323	0.1	277
20240719_0333	0.1	263
20240719_0343	0.1	290
20240719_0353	0.1	154
20240719_0403	0.1	154
20240719_0413	0.1	169
20240719_0423	0.1	87
20240719_0433	0.1	87
20240719_0443	0.1	87
20240719_0453	0.1	140
20240719_0503	0.1	72
20240719_0513	0.1	72
20240719_0523	0.1	72
20240719_0533	0.1	72
20240719_0543	0.1	28
20240719_0553	0.1	28
20240719_0603	0.1	109
20240719_0613	0.1	109
20240719_0623	0.1	56
20240719_0633	0.1	56
20240719_0643	0.1	147
20240719_0653	0.1	95
20240719_0703	0.1	25
20240719_0713	0.1	32
20240719_0723	0.1	240
20240719_0733	0.1	238
20240719_0743	0.1	280
20240719_0753	0.1	240
20240719_0803	0.1	0
20240719_0813	0.1	108
20240719_0823	0.1	32
20240719_0833	0.1	129
20240719_0843	0.1	125
20240719_0853	0.1	109
20240719_0903	0.1	117
20240719_0913	0.1	168
20240719_0923	0.1	115
20240719_0933	0.1	157
20240719_0943	0.1	248
20240719_0953	0.1	218
20240719_1003	0.1	277
20240719_1013	0.1	224
20240719_1023	0.1	162
20240719_1033	0.1	223
20240719_1043	0.1	150
20240719_1053	0.1	252
20240719_1103	0.1	264
20240719_1113	0.1	124
20240719_1123	0.6	148
20240719_1133	0.4	149
20240719_1143	0.1	179
20240719_1153	0.1	162

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240719_1203	0.1	220
20240719_1213	0.1	216
20240719_1223	0.1	295
20240719_1233	0.1	258
20240719_1243	0.1	255
20240719_1253	0.1	56
20240719_1303	0.1	58
20240719_1313	0.1	25
20240719_1323	0.1	117
20240719_1333	0.1	314
20240719_1343	0.3	315
20240719_1353	0.1	117
20240719_1403	0.1	202
20240719_1413	0.1	352
20240719_1423	0.1	104
20240719_1433	0.1	131
20240719_1443	0.1	117
20240719_1453	0.1	84
20240719_1503	0.1	296
20240719_1513	0.1	281
20240719_1523	0.1	264
20240719_1533	0.5	350
20240719_1543	0.2	308
20240719_1553	0.1	172
20240719_1603	0.1	91
20240719_1613	0.1	306
20240719_1623	0.1	23
20240719_1633	0.1	53
20240719_1643	0.1	305
20240719_1653	0.1	303
20240719_1703	1.8	327
20240719_1713	0.1	331
20240719_1723	0.1	86
20240719_1733	0.1	137
20240719_1743	0.3	157
20240719_1753	0.1	125
20240719_1803	0.1	142
20240719_1813	0.1	60
20240719_1823	0.1	280
20240719_1833	0.1	96
20240719_1843	0.1	250
20240719_1853	0.1	20
20240719_1903	0.1	117
20240719_1913	0.1	95
20240719_1923	0.1	162
20240719_1933	0.2	91
20240719_1943	0.1	222
20240719_1953	0.4	142
20240719_2003	0.3	138
20240719_2013	0.1	163
20240719_2023	0.1	153
20240719_2033	0.1	102
20240719_2043	0.1	138
20240719_2053	0.1	66
20240719_2103	0.3	120
20240719_2113	1	144
20240719_2123	0.1	157
20240719_2133	0.1	122
20240719_2143	0.1	159
20240719_2153	0.1	106
20240719_2203	0.1	324
20240719_2213	0.1	169
20240719_2223	0.1	162
20240719_2233	0.1	112
20240719_2243	0.1	82
20240719_2253	0.1	113
20240719_2303	0.6	346
20240719_2313	0.1	278
20240719_2323	0.1	226
20240719_2333	0.6	133
20240719_2343	0.1	114
20240719_2353	0.1	120

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240720_0003	0.1	133
20240720_0013	0.2	66
20240720_0023	0.1	119
20240720_0033	0.2	181
20240720_0043	0.1	128
20240720_0053	0.1	1
20240720_0103	0.1	39
20240720_0113	0.1	112
20240720_0123	0.1	0
20240720_0133	0.1	145
20240720_0143	0.1	39
20240720_0153	0.3	5
20240720_0203	0.1	341
20240720_0213	0.4	23
20240720_0223	1.1	132
20240720_0233	0.3	2
20240720_0243	0.9	98
20240720_0253	0.3	153
20240720_0303	0.1	331
20240720_0313	0.4	4
20240720_0323	0.1	114
20240720_0333	0.1	84
20240720_0343	2.7	120
20240720_0353	0.1	36
20240720_0403	0.1	108
20240720_0413	0.1	134
20240720_0423	0.1	66
20240720_0433	0.1	159
20240720_0443	0.6	122
20240720_0453	0.2	96
20240720_0503	0.1	243
20240720_0513	0.1	123
20240720_0523	0.1	158
20240720_0533	0.1	278
20240720_0543	0.1	77
20240720_0553	0.5	170
20240720_0603	0.1	52
20240720_0613	0.1	112
20240720_0623	0.1	158
20240720_0633	0.1	257
20240720_0643	0.1	150
20240720_0653	0.1	135
20240720_0703	0.1	129
20240720_0713	0.9	7
20240720_0723	0.1	137
20240720_0733	0.1	163
20240720_0743	0.3	283
20240720_0753	0.1	135
20240720_0803	0.1	36
20240720_0813	0.2	48
20240720_0823	2.6	300
20240720_0833	1.5	37
20240720_0843	1.9	334
20240720_0853	0.1	155
20240720_0903	0.1	336
20240720_0913	0.2	271
20240720_0923	0.8	68
20240720_0933	0.1	196
20240720_0943	0.3	314
20240720_0953	1.4	88
20240720_1003	0.2	152
20240720_1013	0.1	142
20240720_1023	0.1	155
20240720_1033	0.1	141
20240720_1043	0.2	123
20240720_1053	0.1	233
20240720_1103	0.3	139
20240720_1113	0.1	344
20240720_1123	0.1	345
20240720_1133	0.4	59
20240720_1143	0.1	350
20240720_1153	1.4	95

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240720_1203	0.3	336
20240720_1213	0.3	341
20240720_1223	0.1	101
20240720_1233	0.1	352
20240720_1243	0.1	83
20240720_1253	0.3	122
20240720_1303	0.1	227
20240720_1313	0.8	323
20240720_1323	0.4	339
20240720_1333	1.2	70
20240720_1343	0.6	16
20240720_1353	0.1	146
20240720_1403	0.2	186
20240720_1413	2.1	318
20240720_1423	0.1	205
20240720_1433	0.6	90
20240720_1443	0.2	65
20240720_1453	0.1	109
20240720_1503	2.2	57
20240720_1513	0.6	137
20240720_1523	1.2	-1
20240720_1533	1.5	62
20240720_1543	0.1	104
20240720_1553	0.1	349
20240720_1603	0.1	235
20240720_1613	1.4	335
20240720_1623	0.3	327
20240720_1633	1.1	1
20240720_1643	0.1	310
20240720_1653	0.1	337
20240720_1703	0.1	5
20240720_1713	0.6	144
20240720_1723	0.5	143
20240720_1733	0.1	147
20240720_1743	0.1	84
20240720_1753	1.1	144
20240720_1803	0.1	139
20240720_1813	0.2	150
20240720_1823	0.1	147
20240720_1833	0.1	218
20240720_1843	0.1	288
20240720_1853	0.1	109
20240720_1903	1.7	14
20240720_1913	0.1	73
20240720_1923	0.9	58
20240720_1933	6.2	143
20240720_1943	0.1	149
20240720_1953	0.1	152
20240720_2003	0.1	303
20240720_2013	0.9	135
20240720_2023	0.1	140
20240720_2033	0.1	98
20240720_2043	0.1	31
20240720_2053	0.1	144
20240720_2103	0.1	97
20240720_2113	0.1	76
20240720_2123	0.1	86
20240720_2133	1.4	17
20240720_2143	3.5	147
20240720_2153	0.1	39
20240720_2203	0.1	74
20240720_2213	0.1	168
20240720_2223	1.1	137
20240720_2233	1.5	7
20240720_2243	1.4	230
20240720_2253	0.2	38
20240720_2303	0.4	157
20240720_2313	0.1	168
20240720_2323	0.1	16
20240720_2333	1.8	170
20240720_2343	0.1	314
20240720_2353	0.3	269

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240721_0003	0.1	159
20240721_0013	0.1	29
20240721_0023	0.1	98
20240721_0033	0.1	334
20240721_0043	0.3	148
20240721_0053	0.3	187
20240721_0103	0.1	68
20240721_0113	0.2	122
20240721_0123	0.1	299
20240721_0133	0.1	100
20240721_0143	0.1	156
20240721_0153	0.1	123
20240721_0203	0.1	242
20240721_0213	0.1	138
20240721_0223	0.3	321
20240721_0233	0.1	109
20240721_0243	0.1	346
20240721_0253	0.1	20
20240721_0303	0.1	59
20240721_0313	0.1	102
20240721_0323	0.1	66
20240721_0333	0.1	139
20240721_0343	0.3	113
20240721_0353	0.1	164
20240721_0403	0.1	155
20240721_0413	0.5	50
20240721_0423	0.1	152
20240721_0433	0.1	308
20240721_0443	0.1	41
20240721_0453	0.1	296
20240721_0503	0.1	5
20240721_0513	0.1	70
20240721_0523	0.1	160
20240721_0533	0.1	147
20240721_0543	1	316
20240721_0553	0.1	12
20240721_0603	0.5	100
20240721_0613	0.1	121
20240721_0623	0.6	22
20240721_0633	0.1	70
20240721_0643	0.3	59
20240721_0653	0.1	152
20240721_0703	0.1	176
20240721_0713	0.1	174
20240721_0723	0.1	157
20240721_0733	0.3	98
20240721_0743	0.1	146
20240721_0753	0.1	22
20240721_0803	1.5	144
20240721_0813	0.1	125
20240721_0823	0.1	15
20240721_0833	0.4	72
20240721_0843	0.1	352
20240721_0853	1.5	342
20240721_0903	0.3	142
20240721_0913	0.4	48
20240721_0923	4.1	113
20240721_0933	0.1	181
20240721_0943	0.7	347
20240721_0953	0.8	331
20240721_1003	0.1	290
20240721_1013	0.1	76
20240721_1023	0.3	97
20240721_1033	0.2	20
20240721_1043	0.2	340
20240721_1053	0.4	52
20240721_1103	0.6	327
20240721_1113	0.4	47
20240721_1123	0.2	300
20240721_1133	0.9	9
20240721_1143	0.1	89
20240721_1153	1.1	337

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240721_1203	2	43
20240721_1213	0.1	236
20240721_1223	0.3	95
20240721_1233	0.1	37
20240721_1243	1.3	39
20240721_1253	0.1	60
20240721_1303	0.2	67
20240721_1313	0.1	325
20240721_1323	0.4	83
20240721_1333	0.4	143
20240721_1343	0.1	159
20240721_1353	0.1	91
20240721_1403	0.1	101
20240721_1413	1.9	342
20240721_1423	0.2	78
20240721_1433	0.2	147
20240721_1443	1.4	53
20240721_1453	1	116
20240721_1503	1.1	196
20240721_1513	0.4	328
20240721_1523	3.6	93
20240721_1533	3.9	154
20240721_1543	0.1	70
20240721_1553	0.9	87
20240721_1603	0.9	11
20240721_1613	2.4	134
20240721_1623	1	335
20240721_1633	0.2	342
20240721_1643	0.1	104
20240721_1653	3	125
20240721_1703	0.3	345
20240721_1713	0.2	28
20240721_1723	0.5	124
20240721_1733	0.1	258
20240721_1743	0.1	327
20240721_1753	0.1	255
20240721_1803	5.9	132
20240721_1813	0.1	320
20240721_1823	0.4	104
20240721_1833	0.1	88
20240721_1843	0.1	353
20240721_1853	0.1	99
20240721_1903	0.1	137
20240721_1913	0.1	108
20240721_1923	0.2	342
20240721_1933	0.3	336
20240721_1943	0.5	105
20240721_1953	3.8	42
20240721_2003	1.4	41
20240721_2013	0.6	98
20240721_2023	0.7	100
20240721_2033	0.1	219
20240721_2043	0.3	202
20240721_2053	0.3	72
20240721_2103	0.4	36
20240721_2113	0.1	122
20240721_2123	0.1	235
20240721_2133	0.1	111
20240721_2143	0.1	148
20240721_2153	0.1	144
20240721_2203	0.4	103
20240721_2213	0.1	207
20240721_2223	0.2	153
20240721_2233	0.9	162
20240721_2243	0.5	35
20240721_2253	0.2	131
20240721_2303	0.1	263
20240721_2313	0.2	116
20240721_2323	0.1	159
20240721_2333	0.1	227
20240721_2343	0.2	81
20240721_2353	0.1	33

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240722_0003	0.1	122
20240722_0013	0.1	247
20240722_0023	3	154
20240722_0033	0.1	151
20240722_0043	0.2	33
20240722_0053	0.1	151
20240722_0103	0.1	138
20240722_0113	0.1	59
20240722_0123	0.1	141
20240722_0133	0.1	245
20240722_0143	0.1	156
20240722_0153	0.1	84
20240722_0203	0.1	174
20240722_0213	0.2	244
20240722_0223	0.1	101
20240722_0233	0.1	283
20240722_0243	0.1	144
20240722_0253	0.1	70
20240722_0303	0.1	311
20240722_0313	0.1	49
20240722_0323	0.6	108
20240722_0333	0.1	264
20240722_0343	0.1	169
20240722_0353	0.1	136
20240722_0403	0.1	48
20240722_0413	0.1	143
20240722_0423	0.1	280
20240722_0433	0.1	337
20240722_0443	0.1	281
20240722_0453	0.1	145
20240722_0503	0.1	285
20240722_0513	0.1	67
20240722_0523	0.1	109
20240722_0533	0.1	165
20240722_0543	5.1	344
20240722_0553	0.1	79
20240722_0603	0.1	156
20240722_0613	0.1	95
20240722_0623	0.1	121
20240722_0633	0.1	76
20240722_0643	0.1	183
20240722_0653	0.5	141
20240722_0703	0.1	190
20240722_0713	0.1	262
20240722_0723	0.1	244
20240722_0733	0.1	74
20240722_0743	0.1	106
20240722_0753	0.1	142
20240722_0803	0.3	328
20240722_0813	0.1	69
20240722_0823	0.1	151
20240722_0833	0.1	142
20240722_0843	0.1	109
20240722_0853	0.1	108
20240722_0903	0.1	170
20240722_0913	0.1	151
20240722_0923	0.8	33
20240722_0933	1	127
20240722_0943	0.3	306
20240722_0953	0.8	163
20240722_1003	1.8	66
20240722_1013	0.1	324
20240722_1023	0.2	71
20240722_1033	0.1	270
20240722_1043	0.1	156
20240722_1053	0.8	10
20240722_1103	0.1	345
20240722_1113	0.7	272
20240722_1123	0.1	79
20240722_1133	1.4	109
20240722_1143	0.1	85
20240722_1153	0.1	139

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240722_1203	0.1	149
20240722_1213	0.7	63
20240722_1223	0.1	44
20240722_1233	3.2	281
20240722_1243	0.3	6
20240722_1253	0.4	117
20240722_1303	3	69
20240722_1313	0.3	342
20240722_1323	0.1	201
20240722_1333	0.2	225
20240722_1343	0.1	139
20240722_1353	1.4	21
20240722_1403	3.1	336
20240722_1413	0.2	40
20240722_1423	1.3	63
20240722_1433	0.8	289
20240722_1443	0.1	308
20240722_1453	1.2	106
20240722_1503	0.1	76
20240722_1513	0.9	27
20240722_1523	1.4	13
20240722_1533	9.5	182
20240722_1543	1.9	14
20240722_1553	0.5	234
20240722_1603	0.4	339
20240722_1613	2.3	7
20240722_1623	3.8	307
20240722_1633	2.3	337
20240722_1643	1	29
20240722_1653	0.1	279
20240722_1703	0.1	9
20240722_1713	0.5	333
20240722_1723	0.1	337
20240722_1733	0.2	331
20240722_1743	0.3	294
20240722_1753	0.1	349
20240722_1803	0.1	353
20240722_1813	0.1	107
20240722_1823	3.2	347
20240722_1833	0.1	112
20240722_1843	0.1	45
20240722_1853	0.1	16
20240722_1903	0.1	344
20240722_1913	0.1	133
20240722_1923	0.2	19
20240722_1933	0.3	8
20240722_1943	0.1	349
20240722_1953	1.1	282
20240722_2003	0.1	126
20240722_2013	0.1	192
20240722_2023	0.1	339
20240722_2033	0.1	155
20240722_2043	0.1	115
20240722_2053	0.1	338
20240722_2103	0.1	354
20240722_2113	0.1	351
20240722_2123	0.1	119
20240722_2133	0.2	60
20240722_2143	0.1	17
20240722_2153	0.1	257
20240722_2203	0.1	66
20240722_2213	0.1	26
20240722_2223	0.1	99
20240722_2233	0.1	155
20240722_2243	0.1	91
20240722_2253	0.1	13
20240722_2303	0.1	349
20240722_2313	0.1	113
20240722_2323	0.1	113
20240722_2333	0.1	156
20240722_2343	0.1	97
20240722_2353	0.1	277

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240723_0003	0.1	270
20240723_0013	0.1	155
20240723_0023	0.1	326
20240723_0033	0.1	124
20240723_0043	0.1	159
20240723_0053	0.1	42
20240723_0103	0.1	48
20240723_0113	0.1	48
20240723_0123	0.1	83
20240723_0133	0.1	244
20240723_0143	0.1	64
20240723_0153	0.1	18
20240723_0203	0.1	63
20240723_0213	0.1	61
20240723_0223	0.1	48
20240723_0233	0.1	134
20240723_0243	0.1	16
20240723_0253	0.1	25
20240723_0303	0.1	141
20240723_0313	0.1	54
20240723_0323	0.1	76
20240723_0333	0.1	109
20240723_0343	0.1	64
20240723_0353	0.1	55
20240723_0403	0.1	128
20240723_0413	0.1	49
20240723_0423	0.1	35
20240723_0433	0.1	49
20240723_0443	0.1	67
20240723_0453	0.1	67
20240723_0503	0.1	67
20240723_0513	0.1	67
20240723_0523	0.1	31
20240723_0533	0.1	327
20240723_0543	0.1	327
20240723_0553	0.1	327
20240723_0603	0.1	345
20240723_0613	0.1	43
20240723_0623	0.1	25
20240723_0633	0.1	32
20240723_0643	0.1	188
20240723_0653	0.1	148
20240723_0703	0.1	145
20240723_0713	0.1	145
20240723_0723	0.1	141
20240723_0733	0.1	136
20240723_0743	0.1	156
20240723_0753	0.1	119
20240723_0803	0.1	309
20240723_0813	0.1	308
20240723_0823	0.1	155
20240723_0833	0.1	137
20240723_0843	0.1	272
20240723_0853	0.1	167
20240723_0903	0.1	35
20240723_0913	0.1	111
20240723_0923	0.1	54
20240723_0933	0.1	203
20240723_0943	0.1	100
20240723_0953	0.1	303
20240723_1003	0.3	118
20240723_1013	0.1	137
20240723_1023	0.1	152
20240723_1033	0.1	155
20240723_1043	0.1	153
20240723_1053	0.1	272
20240723_1103	0.4	149
20240723_1113	0.1	259
20240723_1123	0.1	53
20240723_1133	0.1	351
20240723_1143	0.1	98
20240723_1153	0.1	197

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240723_1203	0.2	248
20240723_1213	0.1	171
20240723_1223	0.1	233
20240723_1233	0.1	44
20240723_1243	0.1	175
20240723_1253	1	229
20240723_1303	0.1	187
20240723_1313	0.1	243
20240723_1323	0.1	231
20240723_1333	1.6	179
20240723_1343	0.1	202
20240723_1353	0.1	220
20240723_1403	0.4	243
20240723_1413	0.2	148
20240723_1423	0.6	252
20240723_1433	0.1	223
20240723_1443	0.2	159
20240723_1453	2.8	158
20240723_1503	0.1	209
20240723_1513	0.1	200
20240723_1523	0.1	160
20240723_1533	1	161
20240723_1543	0.1	207
20240723_1553	0.5	139
20240723_1603	0.1	134
20240723_1613	0.1	129
20240723_1623	0.1	131
20240723_1633	0.2	262
20240723_1643	0.1	220
20240723_1653	0.1	204
20240723_1703	0.1	96
20240723_1713	0.1	179
20240723_1723	0.1	212
20240723_1733	0.1	250
20240723_1743	0.1	236
20240723_1753	0.1	206
20240723_1803	0.1	351
20240723_1813	0.1	139
20240723_1823	0.1	139
20240723_1833	0.1	225
20240723_1843	0.1	132
20240723_1853	0.1	141
20240723_1903	0.1	141
20240723_1913	0.1	160
20240723_1923	0.1	106
20240723_1933	0.1	109
20240723_1943	0.1	109
20240723_1953	0.1	109
20240723_2003	0.1	49
20240723_2013	0.1	87
20240723_2023	0.1	92
20240723_2033	0.1	92
20240723_2043	0.1	92
20240723_2053	0.1	127
20240723_2103	0.1	127
20240723_2113	0.1	136
20240723_2123	0.1	120
20240723_2133	0.1	147
20240723_2143	0.1	149
20240723_2153	0.1	147
20240723_2203	0.1	139
20240723_2213	0.1	152
20240723_2223	0.1	97
20240723_2233	0.1	96
20240723_2243	0.1	91
20240723_2253	0.1	87
20240723_2303	0.1	87
20240723_2313	0.1	87
20240723_2323	0.1	87
20240723_2333	0.1	87
20240723_2343	0.1	64
20240723_2353	0.1	64

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240724_0003	0.1	64
20240724_0013	0.1	64
20240724_0023	0.1	64
20240724_0033	0.1	70
20240724_0043	0.1	70
20240724_0053	0.1	57
20240724_0103	0.1	57
20240724_0113	0.1	57
20240724_0123	0.1	57
20240724_0133	0.1	57
20240724_0143	0.1	57
20240724_0153	0.1	126
20240724_0203	0.1	89
20240724_0213	0.1	91
20240724_0223	0.1	169
20240724_0233	0.1	162
20240724_0243	0.1	162
20240724_0253	0.1	162
20240724_0303	0.1	157
20240724_0313	0.1	176
20240724_0323	0.1	228
20240724_0333	0.1	235
20240724_0343	0.1	216
20240724_0353	0.1	236
20240724_0403	0.1	219
20240724_0413	0.1	158
20240724_0423	0.1	142
20240724_0433	0.1	303
20240724_0443	0.1	353
20240724_0453	0.1	8
20240724_0503	0.1	13
20240724_0513	0.1	13
20240724_0523	0.1	13
20240724_0533	0.1	24
20240724_0543	0.1	19
20240724_0553	0.1	24
20240724_0603	0.1	24
20240724_0613	0.1	24
20240724_0623	0.1	24
20240724_0633	0.1	184
20240724_0643	0.1	172
20240724_0653	0.1	148
20240724_0703	0.1	148
20240724_0713	0.1	206
20240724_0723	0.1	155
20240724_0733	0.1	163
20240724_0743	0.1	157
20240724_0753	0.1	175
20240724_0803	0.1	166
20240724_0813	0.1	125
20240724_0823	0.1	167
20240724_0833	0.1	245
20240724_0843	0.1	145
20240724_0853	0.1	185
20240724_0903	0.1	247
20240724_0913	0.1	224
20240724_0923	0.1	231
20240724_0933	0.1	256
20240724_0943	0.1	105
20240724_0953	0.6	165
20240724_1003	0.1	154
20240724_1013	0.1	240
20240724_1023	0.1	315
20240724_1033	0.1	151
20240724_1043	0.1	253
20240724_1053	0.1	241
20240724_1103	0.1	234
20240724_1113	0.1	221
20240724_1123	0.5	169
20240724_1133	0.1	157
20240724_1143	0.1	280
20240724_1153	0.1	55

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240724_1203	0.1	160
20240724_1213	0.1	186
20240724_1223	1.2	133
20240724_1233	0.5	139
20240724_1243	0.2	212
20240724_1253	0.1	229
20240724_1303	0.1	233
20240724_1313	0.1	237
20240724_1323	0.1	170
20240724_1333	0.1	269
20240724_1343	0.1	139
20240724_1353	0.1	217
20240724_1403	0.1	219
20240724_1413	0.1	217
20240724_1423	0.1	112
20240724_1433	0.1	209
20240724_1443	0.2	134
20240724_1453	0.9	252
20240724_1503	0.1	53
20240724_1513	0.1	160
20240724_1523	0.1	216
20240724_1533	0.1	132
20240724_1543	0.1	220
20240724_1553	0.1	158
20240724_1603	0.3	184
20240724_1613	0.4	160
20240724_1623	0.1	257
20240724_1633	0.1	134
20240724_1643	0.1	263
20240724_1653	0.1	233
20240724_1703	0.1	177
20240724_1713	0.1	215
20240724_1723	0.1	199
20240724_1733	0.1	161
20240724_1743	0.1	135
20240724_1753	0.1	139
20240724_1803	0.1	175
20240724_1813	0.1	232
20240724_1823	0.1	170
20240724_1833	0.1	175
20240724_1843	0.1	147
20240724_1853	0.1	152
20240724_1903	0.1	162
20240724_1913	0.1	161
20240724_1923	0.1	181
20240724_1933	0.1	148
20240724_1943	0.1	146
20240724_1953	0.1	143
20240724_2003	0.1	140
20240724_2013	0.1	169
20240724_2023	0.1	155
20240724_2033	0.1	253
20240724_2043	0.1	163
20240724_2053	0.1	178
20240724_2103	0.1	165
20240724_2113	0.1	154
20240724_2123	0.1	157
20240724_2133	0.1	147
20240724_2143	0.1	169
20240724_2153	0.1	113
20240724_2203	0.1	127
20240724_2213	0.1	134
20240724_2223	0.1	147
20240724_2233	0.1	119
20240724_2243	0.1	118
20240724_2253	0.1	110
20240724_2303	0.1	125
20240724_2313	0.1	138
20240724_2323	0.1	149
20240724_2333	0.1	59
20240724_2343	0.1	59
20240724_2353	0.1	145

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240725_0003	0.1	123
20240725_0013	0.1	161
20240725_0023	0.1	176
20240725_0033	0.1	162
20240725_0043	0.1	192
20240725_0053	0.5	144
20240725_0103	0.1	171
20240725_0113	0.3	155
20240725_0123	0.2	143
20240725_0133	0.1	201
20240725_0143	0.1	168
20240725_0153	0.1	176
20240725_0203	0.1	202
20240725_0213	0.1	212
20240725_0223	0.1	245
20240725_0233	0.1	168
20240725_0243	0.1	198
20240725_0253	0.1	144
20240725_0303	0.1	177
20240725_0313	0.1	210
20240725_0323	0.1	234
20240725_0333	0.1	181
20240725_0343	0.1	173
20240725_0353	0.1	145
20240725_0403	0.1	227
20240725_0413	0.1	212
20240725_0423	0.1	188
20240725_0433	0.1	142
20240725_0443	0.1	236
20240725_0453	0.1	239
20240725_0503	0.1	155
20240725_0513	0.1	243
20240725_0523	0.1	242
20240725_0533	0.1	221
20240725_0543	0.1	236
20240725_0553	0.1	197
20240725_0603	0.1	173
20240725_0613	0.1	166
20240725_0623	0.1	167
20240725_0633	0.1	169
20240725_0643	0.1	207
20240725_0653	0.1	234
20240725_0703	0.1	224
20240725_0713	0.1	143
20240725_0723	0.1	220
20240725_0733	0.1	198
20240725_0743	0.1	128
20240725_0753	0.1	266
20240725_0803	0.1	132
20240725_0813	0.5	129
20240725_0823	0.1	93
20240725_0833	0.1	131
20240725_0843	0.1	187
20240725_0853	0.1	153
20240725_0903	0.1	141
20240725_0913	0.2	158
20240725_0923	0.6	158
20240725_0933	0.1	198
20240725_0943	0.1	198
20240725_0953	0.1	188
20240725_1003	0.4	123
20240725_1013	0.2	243
20240725_1023	0.1	160
20240725_1033	0.6	214
20240725_1043	1.1	134
20240725_1053	0.1	204
20240725_1103	0.1	228
20240725_1113	0.1	205
20240725_1123	0.1	208
20240725_1133	0.1	227
20240725_1143	0.1	278
20240725_1153	0.1	223

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240725_1203	1.3	232
20240725_1213	0.4	230
20240725_1223	0.4	143
20240725_1233	0.5	183
20240725_1243	0.5	295
20240725_1253	0.7	134
20240725_1303	0.8	215
20240725_1313	0.3	148
20240725_1323	0.1	213
20240725_1333	2	167
20240725_1343	0.4	206
20240725_1353	0.9	89
20240725_1403	0.3	208
20240725_1413	0.1	213
20240725_1423	0.4	147
20240725_1433	0.1	237
20240725_1443	0.1	112
20240725_1453	0.2	171
20240725_1503	0.5	108
20240725_1513	0.1	255
20240725_1523	0.2	77
20240725_1533	1.1	90
20240725_1543	0.2	220
20240725_1553	0.3	132
20240725_1603	0.1	215
20240725_1613	0.1	149
20240725_1623	0.1	14
20240725_1633	0.1	208
20240725_1643	0.1	198
20240725_1653	0.1	150
20240725_1703	0.1	216
20240725_1713	0.1	268
20240725_1723	0.2	265
20240725_1733	1	263
20240725_1743	0.1	240
20240725_1753	0.2	223
20240725_1803	0.1	256
20240725_1813	0.1	230
20240725_1823	0.1	176
20240725_1833	0.1	234
20240725_1843	0.1	224
20240725_1853	0.1	224
20240725_1903	0.1	261
20240725_1913	0.5	228
20240725_1923	0.1	141
20240725_1933	0.1	240
20240725_1943	0.1	126
20240725_1953	0.2	149
20240725_2003	0.1	122
20240725_2013	0.1	253
20240725_2023	0.5	161
20240725_2033	0.1	143
20240725_2043	0.1	183
20240725_2053	0.1	236
20240725_2103	0.1	142
20240725_2113	0.1	221
20240725_2123	0.1	211
20240725_2133	0.1	264
20240725_2143	0.1	6
20240725_2153	0.1	31
20240725_2203	0.1	240
20240725_2213	0.1	156
20240725_2223	0.1	270
20240725_2233	0.3	296
20240725_2243	0.1	190
20240725_2253	0.1	220
20240725_2303	0.1	240
20240725_2313	0.1	156
20240725_2323	0.1	283
20240725_2333	0.1	128
20240725_2343	0.1	96
20240725_2353	0.1	159

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240726_0003	0.1	183
20240726_0013	0.1	72
20240726_0023	0.1	32
20240726_0033	0.1	105
20240726_0043	0.1	295
20240726_0053	0.1	199
20240726_0103	0.1	281
20240726_0113	0.1	349
20240726_0123	0.1	150
20240726_0133	0.1	24
20240726_0143	3.9	132
20240726_0153	0.2	88
20240726_0203	0.1	38
20240726_0213	0.1	59
20240726_0223	0.1	352
20240726_0233	0.1	34
20240726_0243	0.1	50
20240726_0253	0.1	38
20240726_0303	0.1	346
20240726_0313	0.1	30
20240726_0323	0.2	1
20240726_0333	0.1	349
20240726_0343	0.1	14
20240726_0353	0.1	82
20240726_0403	0.1	167
20240726_0413	0.1	251
20240726_0423	0.1	294
20240726_0433	0.1	142
20240726_0443	0.1	188
20240726_0453	0.6	262
20240726_0503	0.3	153
20240726_0513	0.1	293
20240726_0523	0.1	83
20240726_0533	0.1	86
20240726_0543	0.1	276
20240726_0553	0.1	237
20240726_0603	0.1	53
20240726_0613	0.1	83
20240726_0623	0.1	271
20240726_0633	0.1	225
20240726_0643	0.1	255
20240726_0653	0.1	293
20240726_0703	0.1	303
20240726_0713	0.1	256
20240726_0723	0.1	252
20240726_0733	0.1	87
20240726_0743	0.1	43
20240726_0753	0.1	21
20240726_0803	0.1	129
20240726_0813	0.1	142
20240726_0823	0.1	177
20240726_0833	0.1	87
20240726_0843	0.1	180
20240726_0853	0.1	171
20240726_0903	0.1	207
20240726_0913	0.1	131
20240726_0923	0.1	266
20240726_0933	0.1	238
20240726_0943	0.1	231
20240726_0953	0.1	258
20240726_1003	0.1	130
20240726_1013	0.1	236
20240726_1023	0.1	130
20240726_1033	0.1	267
20240726_1043	0.1	88
20240726_1053	0.1	235
20240726_1103	0.1	207
20240726_1113	0.1	149
20240726_1123	0.1	196
20240726_1133	0.1	278
20240726_1143	0.1	279
20240726_1153	0.1	160

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240726_1203	0.1	163
20240726_1213	0.1	228
20240726_1223	0.1	174
20240726_1233	0.1	114
20240726_1243	0.1	248
20240726_1253	0.1	118
20240726_1303	0.1	142
20240726_1313	0.1	135
20240726_1323	0.1	133
20240726_1333	0.1	188
20240726_1343	0.1	102
20240726_1353	0.2	134
20240726_1403	0.1	136
20240726_1413	0.1	294
20240726_1423	3	109
20240726_1433	3.1	145
20240726_1443	1.3	146
20240726_1453	0.5	215
20240726_1503	0.5	125
20240726_1513	0.1	141
20240726_1523	0.1	137
20240726_1533	0.1	135
20240726_1543	0.1	246
20240726_1553	0.1	104
20240726_1603	0.1	168
20240726_1613	0.1	243
20240726_1623	0.3	251
20240726_1633	0.2	95
20240726_1643	0.1	238
20240726_1653	0.8	254
20240726_1703	0.3	259
20240726_1713	0.1	235
20240726_1723	0.1	230
20240726_1733	0.1	194
20240726_1743	0.1	176
20240726_1753	0.2	254
20240726_1803	0.1	240
20240726_1813	0.1	245
20240726_1823	0.1	149
20240726_1833	0.1	249
20240726_1843	0.1	112
20240726_1853	0.1	104
20240726_1903	0.1	117
20240726_1913	0.1	103
20240726_1923	0.1	9
20240726_1933	0.1	40
20240726_1943	0.1	127
20240726_1953	0.1	75
20240726_2003	0.1	72
20240726_2013	0.1	72
20240726_2023	0.1	51
20240726_2033	0.1	76
20240726_2043	0.1	61
20240726_2053	0.1	29
20240726_2103	0.1	63
20240726_2113	0.1	93
20240726_2123	0.1	91
20240726_2133	0.1	86
20240726_2143	0.1	86
20240726_2153	0.1	86
20240726_2203	0.1	86
20240726_2213	0.1	67
20240726_2223	0.1	69
20240726_2233	0.1	69
20240726_2243	0.1	69
20240726_2253	0.1	69
20240726_2303	0.1	22
20240726_2313	0.1	59
20240726_2323	0.1	50
20240726_2333	0.1	50
20240726_2343	0.1	305
20240726_2353	0.1	336

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240727_0003	0.1	25
20240727_0013	0.1	36
20240727_0023	0.1	55
20240727_0033	0.1	55
20240727_0043	0.1	68
20240727_0053	0.1	84
20240727_0103	0.1	112
20240727_0113	0.1	89
20240727_0123	0.1	313
20240727_0133	0.1	55
20240727_0143	0.1	55
20240727_0153	0.1	55
20240727_0203	0.1	55
20240727_0213	0.1	64
20240727_0223	0.1	77
20240727_0233	0.1	79
20240727_0243	0.1	151
20240727_0253	0.1	82
20240727_0303	0.1	74
20240727_0313	0.1	74
20240727_0323	0.1	118
20240727_0333	0.1	293
20240727_0343	0.1	36
20240727_0353	0.1	81
20240727_0403	0.1	29
20240727_0413	0.1	94
20240727_0423	0.1	17
20240727_0433	0.1	17
20240727_0443	0.1	17
20240727_0453	0.1	17
20240727_0503	0.1	46
20240727_0513	0.1	37
20240727_0523	0.1	107
20240727_0533	0.1	59
20240727_0543	0.1	2
20240727_0553	0.1	42
20240727_0603	0.1	42
20240727_0613	0.1	42
20240727_0623	1	108
20240727_0633	0.1	165
20240727_0643	0.1	267
20240727_0653	0.1	278
20240727_0703	0.1	277
20240727_0713	0.1	5
20240727_0723	0.1	5
20240727_0733	0.1	5
20240727_0743	0.1	5
20240727_0753	0.1	52
20240727_0803	0.1	30
20240727_0813	0.1	87
20240727_0823	0.1	-1
20240727_0833	0.1	70
20240727_0843	0.1	96
20240727_0853	0.1	79
20240727_0903	0.1	99
20240727_0913	0.1	117
20240727_0923	0.2	328
20240727_0933	0.1	41
20240727_0943	0.1	136
20240727_0953	0.1	134
20240727_1003	0.1	124
20240727_1013	0.1	105
20240727_1023	0.1	27
20240727_1033	0.1	88
20240727_1043	0.1	107
20240727_1053	0.1	110
20240727_1103	0.1	110
20240727_1113	0.1	148
20240727_1123	0.1	33
20240727_1133	0.1	329
20240727_1143	0.1	298
20240727_1153	0.1	49

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240727_1203	0.1	34
20240727_1213	0.1	94
20240727_1223	0.1	145
20240727_1233	0.1	267
20240727_1243	0.1	260
20240727_1253	0.1	348
20240727_1303	0.1	82
20240727_1313	0.8	82
20240727_1323	0.2	40
20240727_1333	0.5	48
20240727_1343	0.1	83
20240727_1353	0.1	349
20240727_1403	0.1	322
20240727_1413	0.3	118
20240727_1423	0.6	35
20240727_1433	0.1	241
20240727_1443	0.1	228
20240727_1453	0.3	82
20240727_1503	0.1	74
20240727_1513	0.1	7
20240727_1523	1.7	46
20240727_1533	0.1	49
20240727_1543	0.1	343
20240727_1553	0.1	27
20240727_1603	0.1	61
20240727_1613	0.1	118
20240727_1623	0.1	112
20240727_1633	0.1	117
20240727_1643	0.1	156
20240727_1653	0.1	285
20240727_1703	0.1	37
20240727_1713	0.1	103
20240727_1723	0.1	229
20240727_1733	0.1	329
20240727_1743	0.1	129
20240727_1753	0.8	110
20240727_1803	0.1	140
20240727_1813	1.8	160
20240727_1823	0.1	158
20240727_1833	0.1	140
20240727_1843	0.1	109
20240727_1853	0.1	65
20240727_1903	0.1	96
20240727_1913	0.1	76
20240727_1923	0.1	316
20240727_1933	0.1	229
20240727_1943	0.1	55
20240727_1953	1.2	176
20240727_2003	0.1	142
20240727_2013	0.2	105
20240727_2023	0.1	170
20240727_2033	0.1	126
20240727_2043	0.5	137
20240727_2053	0.1	277
20240727_2103	0.1	299
20240727_2113	0.1	220
20240727_2123	1.5	109
20240727_2133	0.1	89
20240727_2143	0.1	77
20240727_2153	0.1	48
20240727_2203	0.1	171
20240727_2213	0.1	49
20240727_2223	0.1	120
20240727_2233	0.1	169
20240727_2243	0.2	59
20240727_2253	0.1	182
20240727_2303	0.3	145
20240727_2313	0.1	129
20240727_2323	0.4	11
20240727_2333	0.1	132
20240727_2343	0.1	132
20240727_2353	1.2	64

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240728_0003	0.1	211
20240728_0013	0.1	58
20240728_0023	0.2	335
20240728_0033	1.9	331
20240728_0043	0.1	201
20240728_0053	0.8	43
20240728_0103	0.1	163
20240728_0113	0.1	84
20240728_0123	0.1	176
20240728_0133	0.1	136
20240728_0143	0.1	166
20240728_0153	0.1	107
20240728_0203	0.1	157
20240728_0213	0.1	45
20240728_0223	0.6	137
20240728_0233	0.3	102
20240728_0243	0.1	225
20240728_0253	0.6	147
20240728_0303	0.1	72
20240728_0313	0.1	139
20240728_0323	0.1	336
20240728_0333	0.3	119
20240728_0343	0.1	170
20240728_0353	1.8	90
20240728_0403	1.2	148
20240728_0413	0.1	197
20240728_0423	0.1	164
20240728_0433	0.1	190
20240728_0443	0.1	280
20240728_0453	0.1	152
20240728_0503	0.1	181
20240728_0513	0.4	136
20240728_0523	0.1	185
20240728_0533	0.1	206
20240728_0543	0.1	147
20240728_0553	0.1	103
20240728_0603	0.1	258
20240728_0613	0.1	247
20240728_0623	0.1	318
20240728_0633	0.1	286
20240728_0643	0.1	284
20240728_0653	0.1	329
20240728_0703	0.1	342
20240728_0713	0.7	116
20240728_0723	0.1	8
20240728_0733	0.1	311
20240728_0743	0.1	15
20240728_0753	0.1	139
20240728_0803	0.1	257
20240728_0813	0.1	145
20240728_0823	0.1	21
20240728_0833	0.1	192
20240728_0843	0.1	102
20240728_0853	0.6	76
20240728_0903	0.1	44
20240728_0913	1.3	94
20240728_0923	0.3	107
20240728_0933	0.1	184
20240728_0943	0.1	187
20240728_0953	0.1	56
20240728_1003	0.1	51
20240728_1013	0.1	227
20240728_1023	0.1	135
20240728_1033	0.1	150
20240728_1043	0.1	42
20240728_1053	0.1	287
20240728_1103	0.1	128
20240728_1113	0.1	37
20240728_1123	0.1	179
20240728_1133	0.1	102
20240728_1143	0.1	103
20240728_1153	0.1	65

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240728_1203	0.1	71
20240728_1213	0.4	37
20240728_1223	0.2	54
20240728_1233	0.1	68
20240728_1243	0.1	265
20240728_1253	0.1	27
20240728_1303	0.1	251
20240728_1313	0.1	109
20240728_1323	0.1	252
20240728_1333	0.1	39
20240728_1343	0.1	74
20240728_1353	0.1	46
20240728_1403	0.1	168
20240728_1413	0.1	199
20240728_1423	0.4	347
20240728_1433	0.1	132
20240728_1443	0.1	112
20240728_1453	0.1	45
20240728_1503	0.3	11
20240728_1513	0.7	55
20240728_1523	0.1	209
20240728_1533	0.1	271
20240728_1543	0.1	103
20240728_1553	0.1	290
20240728_1603	0.6	62
20240728_1613	1.1	64
20240728_1623	0.1	59
20240728_1633	0.2	300
20240728_1643	0.7	30
20240728_1653	0.4	54
20240728_1703	2.2	47
20240728_1713	0.1	15
20240728_1723	0.5	84
20240728_1733	1	122
20240728_1743	2.3	121
20240728_1753	0.1	30
20240728_1803	0.1	212
20240728_1813	0.2	17
20240728_1823	0.1	5
20240728_1833	0.5	17
20240728_1843	3.6	102
20240728_1853	1.1	3
20240728_1903	3.2	16
20240728_1913	0.1	60
20240728_1923	0.5	171
20240728_1933	0.1	115
20240728_1943	0.1	178
20240728_1953	2.7	106
20240728_2003	0.2	31
20240728_2013	0.1	87
20240728_2023	0.1	98
20240728_2033	0.4	329
20240728_2043	0.1	235
20240728_2053	1.9	116
20240728_2103	0.1	304
20240728_2113	0.1	347
20240728_2123	0.5	145
20240728_2133	0.1	29
20240728_2143	1.2	67
20240728_2153	0.3	139
20240728_2203	0.3	210
20240728_2213	0.3	90
20240728_2223	0.6	34
20240728_2233	1.6	30
20240728_2243	0.1	135
20240728_2253	0.3	169
20240728_2303	0.6	99
20240728_2313	0.1	3
20240728_2323	0.1	322
20240728_2333	0.7	307
20240728_2343	0.1	337
20240728_2353	0.2	146

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240729_0003	0.3	129
20240729_0013	1.4	7
20240729_0023	0.3	118
20240729_0033	0.2	111
20240729_0043	0.2	109
20240729_0053	1.6	104
20240729_0103	0.2	129
20240729_0113	0.1	60
20240729_0123	0.1	231
20240729_0133	0.2	293
20240729_0143	0.1	104
20240729_0153	0.1	4
20240729_0203	0.1	156
20240729_0213	0.1	170
20240729_0223	0.1	280
20240729_0233	0.1	128
20240729_0243	0.1	147
20240729_0253	0.5	133
20240729_0303	5.2	135
20240729_0313	0.1	221
20240729_0323	0.1	210
20240729_0333	0.2	48
20240729_0343	3.6	297
20240729_0353	0.1	269
20240729_0403	0.1	244
20240729_0413	0.1	47
20240729_0423	1.2	162
20240729_0433	0.1	132
20240729_0443	0.7	115
20240729_0453	0.1	23
20240729_0503	0.1	133
20240729_0513	0.1	319
20240729_0523	0.1	188
20240729_0533	2.6	0
20240729_0543	3.1	128
20240729_0553	0.2	145
20240729_0603	0.1	329
20240729_0613	2.4	186
20240729_0623	1.4	18
20240729_0633	0.1	159
20240729_0643	0.1	183
20240729_0653	0.1	99
20240729_0703	0.1	224
20240729_0713	0.1	335
20240729_0723	0.3	35
20240729_0733	1.5	26
20240729_0743	1.4	85
20240729_0753	0.1	49
20240729_0803	0.1	127
20240729_0813	0.7	19
20240729_0823	1	124
20240729_0833	1.1	112
20240729_0843	0.1	292
20240729_0853	0.1	100
20240729_0903	0.6	2
20240729_0913	1.1	136
20240729_0923	0.3	48
20240729_0933	0.6	103
20240729_0943	0.1	226
20240729_0953	0.1	351
20240729_1003	0.1	129
20240729_1013	0.1	13
20240729_1023	0.1	124
20240729_1033	0.1	264
20240729_1043	0.2	80
20240729_1053	0.1	97
20240729_1103	0.1	95
20240729_1113	0.1	329
20240729_1123	0.8	87
20240729_1133	0.1	202
20240729_1143	0.1	338
20240729_1153	1.7	350

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240729_1203	0.1	172
20240729_1213	0.1	296
20240729_1223	0.1	328
20240729_1233	0.1	291
20240729_1243	0.1	132
20240729_1253	0.1	260
20240729_1303	0.1	335
20240729_1313	0.2	304
20240729_1323	0.1	265
20240729_1333	0.9	12
20240729_1343	0.1	184
20240729_1353	0.1	316
20240729_1403	0.3	107
20240729_1413	0.1	147
20240729_1423	0.2	132
20240729_1433	0.3	328
20240729_1443	0.1	93
20240729_1453	0.1	93
20240729_1503	0.1	109
20240729_1513	0.1	276
20240729_1523	0.1	117
20240729_1533	0.1	121
20240729_1543	0.1	333
20240729_1553	0.2	121
20240729_1603	1.1	39
20240729_1613	0.1	55
20240729_1623	0.1	177
20240729_1633	0.6	319
20240729_1643	0.1	214
20240729_1653	0.4	67
20240729_1703	0.1	340
20240729_1713	2.8	39
20240729_1723	0.1	111
20240729_1733	1.9	318
20240729_1743	6.3	328
20240729_1753	0.1	90
20240729_1803	0.1	54
20240729_1813	0.1	314
20240729_1823	0.1	197
20240729_1833	0.1	326
20240729_1843	0.1	128
20240729_1853	0.1	155
20240729_1903	0.1	67
20240729_1913	0.1	140
20240729_1923	0.1	150
20240729_1933	0.1	172
20240729_1943	0.1	344
20240729_1953	0.1	120
20240729_2003	0.1	43
20240729_2013	0.1	258
20240729_2023	0.1	196
20240729_2033	0.1	207
20240729_2043	0.1	81
20240729_2053	0.1	157
20240729_2103	0.1	302
20240729_2113	0.1	42
20240729_2123	0.1	140
20240729_2133	1.1	35
20240729_2143	0.1	91
20240729_2153	0.1	176
20240729_2203	0.9	118
20240729_2213	0.2	132
20240729_2223	0.1	123
20240729_2233	1.2	143
20240729_2243	0.2	86
20240729_2253	0.1	259
20240729_2303	0.1	25
20240729_2313	0.1	132
20240729_2323	0.2	55
20240729_2333	2.4	44
20240729_2343	2	82
20240729_2353	0.2	115

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240730_0003	0.1	188
20240730_0013	0.2	87
20240730_0023	0.1	185
20240730_0033	1	323
20240730_0043	0.2	149
20240730_0053	0.1	301
20240730_0103	0.1	104
20240730_0113	0.3	113
20240730_0123	0.2	122
20240730_0133	0.1	332
20240730_0143	0.1	115
20240730_0153	0.1	118
20240730_0203	1.4	144
20240730_0213	0.3	349
20240730_0223	0.1	197
20240730_0233	0.1	3
20240730_0243	0.1	249
20240730_0253	0.1	338
20240730_0303	0.1	338
20240730_0313	0.1	66
20240730_0323	0.1	185
20240730_0333	0.1	157
20240730_0343	0.1	145
20240730_0353	0.1	325
20240730_0403	0.1	136
20240730_0413	0.1	91
20240730_0423	0.1	129
20240730_0433	0.1	296
20240730_0443	0.1	71
20240730_0453	0.1	44
20240730_0503	0.1	171
20240730_0513	0.1	144
20240730_0523	0.1	146
20240730_0533	0.3	26
20240730_0543	0.1	124
20240730_0553	1	110
20240730_0603	0.1	142
20240730_0613	0.1	112
20240730_0623	0.2	120
20240730_0633	0.1	175
20240730_0643	0.3	158
20240730_0653	0.1	153
20240730_0703	0.1	129
20240730_0713	0.2	130
20240730_0723	0.1	209
20240730_0733	0.1	98
20240730_0743	0.1	36
20240730_0753	0.1	176
20240730_0803	1.2	47
20240730_0813	0.1	345
20240730_0823	0.2	150
20240730_0833	0.1	100
20240730_0843	0.1	207
20240730_0853	0.1	1
20240730_0903	0.1	337
20240730_0913	0.1	69
20240730_0923	0.1	11
20240730_0933	0.2	13
20240730_0943	0.1	339
20240730_0953	0.3	287
20240730_1003	0.1	143
20240730_1013	0.2	1
20240730_1023	0.5	305
20240730_1033	0.2	125
20240730_1043	0.1	75
20240730_1053	3.2	52
20240730_1103	0.2	68
20240730_1113	0.1	44
20240730_1123	0.3	306
20240730_1133	0.1	344
20240730_1143	0.1	172
20240730_1153	0.3	55

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240730_1203	1.3	93
20240730_1213	0.1	353
20240730_1223	3.2	41
20240730_1233	1.3	23
20240730_1243	2	12
20240730_1253	0.1	29
20240730_1303	2.7	15
20240730_1313	0.1	225
20240730_1323	0.1	63
20240730_1333	0.1	2
20240730_1343	0.1	73
20240730_1353	0.1	26
20240730_1403	0.1	224
20240730_1413	0.1	352
20240730_1423	0.1	328
20240730_1433	0.1	343
20240730_1443	0.1	163
20240730_1453	1.4	267
20240730_1503	0.5	334
20240730_1513	0.1	163
20240730_1523	0.1	282
20240730_1533	1	339
20240730_1543	1.3	68
20240730_1553	0.4	293
20240730_1603	0.4	334
20240730_1613	1.9	310
20240730_1623	0.1	11
20240730_1633	0.1	6
20240730_1643	0.2	334
20240730_1653	0.1	231
20240730_1703	1.6	249
20240730_1713	0.1	36
20240730_1723	0.6	353
20240730_1733	0.1	300
20240730_1743	4.6	58
20240730_1753	0.1	131
20240730_1803	1.6	22
20240730_1813	1.7	56
20240730_1823	0.1	160
20240730_1833	0.1	57
20240730_1843	0.1	161
20240730_1853	0.1	32
20240730_1903	0.3	349
20240730_1913	0.1	337
20240730_1923	0.1	20
20240730_1933	0.6	327
20240730_1943	0.1	331
20240730_1953	0.1	71
20240730_2003	0.1	295
20240730_2013	0.1	116
20240730_2023	0.4	164
20240730_2033	0.1	0
20240730_2043	0.1	72
20240730_2053	0.1	100
20240730_2103	0.1	220
20240730_2113	0.1	139
20240730_2123	0.1	100
20240730_2133	0.1	68
20240730_2143	0.1	143
20240730_2153	0.1	330
20240730_2203	0.2	117
20240730_2213	1.8	130
20240730_2223	0.1	52
20240730_2233	0.1	351
20240730_2243	0.1	23
20240730_2253	0.1	150
20240730_2303	0.1	57
20240730_2313	0.1	175
20240730_2323	0.1	88
20240730_2333	0.1	52
20240730_2343	0.1	81
20240730_2353	0.1	39

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240731_0003	0.1	116
20240731_0013	0.1	131
20240731_0023	0.1	86
20240731_0033	0.1	153
20240731_0043	0.1	6
20240731_0053	0.1	164
20240731_0103	0.1	224
20240731_0113	0.1	278
20240731_0123	0.1	82
20240731_0133	0.1	68
20240731_0143	0.1	156
20240731_0153	0.1	292
20240731_0203	0.1	27
20240731_0213	0.1	105
20240731_0223	0.1	104
20240731_0233	0.1	89
20240731_0243	0.1	70
20240731_0253	0.1	343
20240731_0303	0.1	318
20240731_0313	0.1	231
20240731_0323	0.1	34
20240731_0333	0.1	72
20240731_0343	0.1	125
20240731_0353	0.1	70
20240731_0403	0.1	125
20240731_0413	0.1	68
20240731_0423	0.6	94
20240731_0433	0.1	69
20240731_0443	0.6	160
20240731_0453	0.1	111
20240731_0503	0.1	331
20240731_0513	0.1	89
20240731_0523	0.1	91
20240731_0533	0.1	53
20240731_0543	0.1	102
20240731_0553	0.1	126
20240731_0603	0.1	97
20240731_0613	0.1	77
20240731_0623	0.1	154
20240731_0633	0.1	291
20240731_0643	0.2	284
20240731_0653	0.1	57
20240731_0703	0.1	161
20240731_0713	0.1	81
20240731_0723	0.1	151
20240731_0733	0.1	56
20240731_0743	0.3	314
20240731_0753	0.1	95
20240731_0803	0.1	97
20240731_0813	0.1	27
20240731_0823	0.1	121
20240731_0833	0.1	138
20240731_0843	0.1	24
20240731_0853	0.3	148
20240731_0903	0.1	93
20240731_0913	0.1	206
20240731_0923	0.1	268
20240731_0933	0.1	156
20240731_0943	0.1	16
20240731_0953	0.1	176
20240731_1003	0.1	314
20240731_1013	0.1	249
20240731_1023	0.1	259
20240731_1033	0.1	250
20240731_1043	0.1	85
20240731_1053	0.1	284
20240731_1103	0.1	184
20240731_1113	0.1	252
20240731_1123	0.1	254
20240731_1133	0.1	150
20240731_1143	0.1	119
20240731_1153	0.1	133

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240731_1203	0.1	120
20240731_1213	0.1	254
20240731_1223	0.1	254
20240731_1233	0.1	239
20240731_1243	0.1	144
20240731_1253	0.1	157
20240731_1303	0.1	271
20240731_1313	0.1	244
20240731_1323	0.1	229
20240731_1333	0.1	232
20240731_1343	0.1	261
20240731_1353	0.1	146
20240731_1403	0.1	43
20240731_1413	0.1	53
20240731_1423	0.1	-1
20240731_1433	0.1	205
20240731_1443	0.1	208
20240731_1453	0.1	90
20240731_1503	0.1	225
20240731_1513	0.1	152
20240731_1523	0.1	154
20240731_1533	0.1	163
20240731_1543	0.2	137
20240731_1553	0.1	31
20240731_1603	0.1	292
20240731_1613	0.1	346
20240731_1623	0.1	346
20240731_1633	0.1	346
20240731_1643	0.1	2
20240731_1653	0.1	348
20240731_1703	0.1	337
20240731_1713	0.1	338
20240731_1723	0.1	338
20240731_1733	0.1	338
20240731_1743	0.1	44
20240731_1753	0.1	44
20240731_1803	0.1	44
20240731_1813	0.1	44
20240731_1823	0.1	44
20240731_1833	0.1	44
20240731_1843	0.1	57
20240731_1853	0.1	44
20240731_1903	0.1	66
20240731_1913	0.1	60
20240731_1923	0.1	49
20240731_1933	0.1	51
20240731_1943	0.1	56
20240731_1953	0.1	37
20240731_2003	0.1	81
20240731_2013	0.1	77
20240731_2023	0.1	78
20240731_2033	0.1	21
20240731_2043	0.1	141
20240731_2053	0.1	136
20240731_2103	0.1	75
20240731_2113	0.1	53
20240731_2123	0.1	105
20240731_2133	0.1	63
20240731_2143	0.1	87
20240731_2153	0.1	85
20240731_2203	0.1	38
20240731_2213	0.1	58
20240731_2223	0.1	57
20240731_2233	0.1	44
20240731_2243	0.1	54
20240731_2253	0.1	40
20240731_2303	0.1	97
20240731_2313	0.1	43
20240731_2323	0.1	57
20240731_2333	0.1	115
20240731_2343	0.1	57
20240731_2353	0.1	98

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	59,931.91	0	3676.77	55,948	0	248.09	0	0	0	0	0	30.1	28.82
Total	932,768.31	0.00	9,790.08	903,175.04	0.00	14,708.27	0.00	0.00	0.00	39.35	0.00	768.59	4,286.98

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. 17 & 24 June 2024 Observation 1 - The chemical containers at Portion A had been placed on the drip tray.

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.
2. The Contractor has been reminded that the slope protection should be scheduled and maintained at Portion A and 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	/	Matt Choy/~~Kristy Wong/ Kyrie Wong~~	~~Sylvia Ho~~/ Jackie Tam/ ~~Marus Tam~~
Date:	2 July 2024	/	2 July 2024	2 July 2024

Follow up action for previous Site Inspection:

Nil

Observation(s):

1. The accumulation of deposited silt and grit is observed at Portion D.

Reminder(s)

1. The Contractor has been reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.
2. The Contractor has been reminded that stockpiling of dusty material should be covered properly by impervious sheet to prevent dust dispersion at Portion E3-1.

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

1. The Contractor has been advised to provide channel, earth bunds, or sandbag barriers to properly direct stormwater to silt removal facility and clean up the deposited silt and grit regularly at Portion D.

	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~~
Date:	08 July 2024		08 July 2024	08 July 2024

Follow up action for previous Site Inspection:

08 July 2024 Observation 1 - The uneven surface of potential accumulated silt and grit was filled at Portion D.

Observation(s):

1. The unpaved access road at Portion E3-1 is dusty and fugitive dust is observed.

Reminder(s)

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

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

1. The Contractor has been reminded that the unpaved assess road at Portion E3-1 should be wetted by water spraying to prevent dust dispersion.

	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
Date:	15 July 2024	15 July 2024	15 July 2024	15 July 2024

Kenneth Lam

Follow up action for previous Site Inspection:

1. 15 July 2024 Observation 1 - The sprinkling truck was arranged for water the unpaved access road at Portion E3-1 to ensure it remained wet.

Observation(s):

1. The chemical container without drip tray is observed at SBA.

Reminder(s)

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

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

1. The contractor has been reminded to provide chemical drip tray for chemical storage to prevent chemical spillage and land contamination at SBA.

	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:	22 July 2024	/	22 July 2024	22 July 2024

Follow up action for previous Site Inspection:

1. 22 July 2024 Observation 1 - The chemical drip tray was provided for chemical storage at SBA.

Observation(s):

1. Temporary channels, earth bunds, or sandbag barriers shall be provided at the low elevation of the slope and the roadside of the access road to properly direct stormwater to silt removal facilities at SBA.
2. The general waste and C&D waste shall be collected and stored separately at SBA.

Reminder(s)

1. The Contractor has been reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.
2. The Contractor has been reminded that slope protection should be maintained regularly and properly to ensure the effectiveness of the slope surface protection layer, especially at SBA.

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

1. The Contractor has been advised that the channel, earth bunds, or sandbag barriers should be provided on site to prevent surface run-off and to properly direct stormwater to the silt removal facility at SBA.
2. The Contractor has been reminded that the general waste and C&D waste should be segregated by enclosed bin and C&D waste skip to ensure general waste and C&D waste are stored separately and properly at SBA.

	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:	29 July 2024	/	29 July 2024	29 July 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) ✓

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
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

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
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.					✓

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
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) ✓

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
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.					✓

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
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

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
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.

Prepared by:

Aurecon Hong Kong Limited

Unit 1608, 16/F, Tower B, Manulife Financial Centre,

223 – 231 Wai Yip Street, Kwun Tong,

Kowloon Hong Kong S. A. R.

T: +852 3664 6888

F: +852 3664 6999

E: hongkong@aurecongroup.com

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