

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

Monthly Environmental  
Monitoring and Audit Report  
(No. 14) – January 2024

2024-02-14

Our Ref.: CL/91823/1029-VES  
Date: 14 February 2024

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

**By Email**

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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.14) –  
January 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.14) – January 2024" dated 14 February 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

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The Aurecon logo features a green square above the letter 'a' in the word 'aurecon', which is written in a bold, dark grey sans-serif font.

Ref: P521530-0000-REP-NN-0083

14 February 2024

**By Email**

**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.14) – January**  
**2024**

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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.14) – January 2024” dated 14 February 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

A handwritten signature in blue ink, appearing to read 'Fredrick Leong', is positioned above the printed name and title.

Fredrick Leong  
Environmental Team Leader

Encl.

1. Monthly Environmental Monitoring and Audit Report (No.14) – January 2024

cc.

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

# Document Control Record

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Name	Keith Chau	Name	Fredrick Leong
Title	Associate, Environmental	Title	Environmental Team Leader



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## Executive Summary

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.

The construction phase and EM&A programme of the Project commenced on 1 December 2022.

This 14<sup>th</sup> Monthly EM&A Report presents the EM&A works conducted from 1 to 31 January 2024 in accordance with the EM&A Manual.

### Summary of Construction Works undertaken during Report Period

The major construction works undertaken during the reporting period include:

-	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 & E3-1
-	Tree felling at Portion B2/E1, E3-1 & E4
-	Shotcreting (Permanent and Temporary)
-	Soil Nail Installation at Portion A, B2/E1 & E4

### Environmental Monitoring and Audit Progress

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

Items	Times	Date
- Air Quality Monitoring during normal weekdays at each monitoring station	6 times	4, 10, 16, 22, 27 & 29 January 2024
- Construction Noise Monitoring during normal weekdays at each monitoring station	5 times	4, 10, 16, 22 & 29 January 2024
- Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	4 January 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 January 2024
- Joint Environmental Site Inspection	5 times	2, 8, 15, 22 & 29 January 2024
- General Site Inspection by EPD-RNG	1 time	25 January 2024

## Environmental Exceedance

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

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

## Environmental Non-Conformance/Complaint/Summons and Prosecution

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

## Reporting Change

There was no reporting change in the reporting period.

## Future Key Issues

Works to be undertaken in the next month include:

- 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 & E3-1
- Tree felling at Portion B2/E1, E3-1 & E4
- Shotcreting (Permanent and Temporary)
- Soil Nail Installation at Portion A, B2/E1 & E4

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 (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	<p>The Project mainly consists of the followings: -</p> <p>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: -</p> <ol style="list-style-type: none"> <li>i. Site formation and preparation;</li> <li>ii. Installation of liner system;</li> <li>iii. Installation of leachate collection, treatment and disposal facilities;</li> <li>iv. Installation of gas collection, utilization and management facilities;</li> <li>v. Utilities provisions and drainage diversion;</li> <li>vi. Landfilling operation;</li> <li>vii. Restoration and aftercare in subsequent stages; and</li> <li>viii. Measures to mitigate environmental impacts as well as environmental monitoring and auditing to be implemented.</li> </ol>

## **1.3 Purpose of this Report**

- 1.3.1 This is the 14<sup>th</sup> 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 January 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

## 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
Further Environmental Permit (FEP)	FEP-02/292/2007	Throughout the Contract	Permit granted on 23 August 2023
Notification of Construction Works as required under Air Pollution Control (Construction Dust) Regulation	479809	Throughout the Construction Phase	Notified on 13 May 2022
Registration of Waste Producer under Waste Disposal Ordinance	7043692	Throughout the Contract	Registered on 13 April 2022
Registration as Chemical Waste Producer	5213-642-P1034-18	Throughout the Contract	Registered on 11 July 2022
Effluent Discharge License under Water Pollution Control Ordinance	WT00042301-2022	31 October 2027	Permit granted on 18 October 2022 Variation of Licence (Permit granted on 7 February 2023)



## 2.5 Environmental Monitoring and Audit Progress

2.5.1 A summary of the monitoring activities in this reporting period is presented in **Table 2-4**.

**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	6 times	4, 10, 16, 22, 27 & 29 January 2024
- Construction Noise Monitoring during normal weekdays at each monitoring station	5 times	4, 10, 16, 22 & 29 January 2024
- Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	4 January 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 January 2024
- Joint Environmental Site Inspection	5 times	2, 8, 15, 22 & 29 January 2024
- General Site Inspection by EPD-RNG	1 time	25 January 2024

### Air Quality

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

### Noise

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

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

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

### 3.1.3 Monitoring Equipment

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

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

**Table 3-3 Dust Monitoring Equipment**

Equipment	Model	Expiry Date	Monitoring Station
High Volume Sampler (HVS)	TE-5170X (S/N: 1105)	3 Mar 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-5028A (S/N: 3702)	31 Mar 2024	AM1 to AM3

**Remarks:**

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

### 3.1.4 Monitoring Methodology

#### 1-hr TSP Monitoring

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

## Measuring Procedures

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

### Procedure of starting monitoring

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

### Procedure of setting measurement timer

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

## Calibration & Maintenance

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

## Quality Audit

- 3.1.4.5 Checklist of regular checking for digital dust meter will be conducted bi-weekly by environmental technician to ensure the all-digital dust meter are in good condition and submitted to supervisors. All checklists will be kept by supervisors.

- 3.1.4.6 Logbook is provided to environmental technician record the transferal of equipment to other colleagues, reporting to supervisors is required.

#### 24-hr TSP Monitoring

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

#### **Measuring Procedures**

- 3.1.4.8 The HVS has been set-up at the monitoring location with a fixed power supply for operation. The measuring procedures of the 24-hr TSP measurements has been undertaken in accordance with the specifications listed in the EM&A Manual. Each HVS includes a motor, a filter holder, a flow controller and a sampling inlet in accordance with the performance specification of the USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50), Appendix B. The measuring procedures of the 24-hr dust meter was undertaken in accordance with the Manufacturer's Instruction Manual as follows:

- The power supply will be checked to ensure the HVS works properly;
- The filter holder and the area surrounding the filter will be cleaned;
- The filter holder will be removed by loosening the four bolts and a new filter on a supporting screen will be aligned carefully;
- The filter will be properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;
- The swing bolts will be fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
- The shelter lid will be closed and secured with the aluminium strip;
- The HVS will be warmed-up to establish run-temperature conditions;
- A new flowrate record sheet will be set into the flow recorder;
- The programmable timer will be set for a sampling period of 24 hour, and the starting time, weather condition and the filter number will be recorded;
- The initial elapsed time will be recorded;
- At the end of sampling, the sampled filter will be removed carefully and folded in half-length so that only surfaces with collected particulate matter will be in contact;
  
- The sample will be placed in a clean plastic envelope and sealed;
- All monitoring information will be recorded on a standard data sheet; and
- The filters will be taken back to HOKLAS accredited laboratory for analysis.

- 3.1.4.9 In addition, site conditions and dust sources were recorded in a standard form for direct input into a database.

#### **Calibration & Maintenance**

- 3.1.4.10 The high volume motors and their accessories should be properly maintained, including routine motor brushes replacement and electrical wiring checking, to ensure that the equipment and a continuous power supply were in good working condition.

3.1.4.11 Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually.

The detail procedure of calibration of HVS is listed below:

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

3.1.4.12 The Calibration process shall eyewitness with the representative of ET & IEC.

### 3.1.5 Monitoring Results

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

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

Month	Average 1-hr TSP Concentration, $\mu\text{g}/\text{m}^3$ (Range)		
	Dust Monitoring Station		
	AM1	AM2	AM3
Jan 2024	33 (21 – 59)	50 (40 – 65)	58 (48 – 70)
<b>Action Level</b>	<b>&gt;285</b>	<b>&gt;279</b>	<b>&gt;285</b>
<b>Limit Level</b>	<b>&gt;500</b>		

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

Month	Average 24-hr TSP Concentration, $\mu\text{g}/\text{m}^3$ (Range)		
	Dust Monitoring Station		
	AM1	AM2	AM3
Jan 2024	84 (70 – 112)	103 (84 – 119)	105 (80 – 119)
<b>Action Level</b>	<b>&gt;164</b>	<b>&gt;152</b>	<b>&gt;163</b>
<b>Limit Level</b>	<b>&gt;260</b>		

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	
Level Exceedance		Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
Parameters		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	<ul style="list-style-type: none"> <li>• Identify source</li> <li>• Prepare Notification of Exceedance</li> <li>• Inform IEC and Contractor</li> <li>• Repeat measurement to confirm findings</li> <li>• Increase monitoring frequency to daily if exceedance is due to the Project and continue until the monitoring results reduce to below action level</li> </ul>	<ul style="list-style-type: none"> <li>• Verify the Notification of Exceedance</li> <li>• Check monitoring data submitted by ET and Contractor's working methods</li> <li>• Discuss with ET and Contractor on proposed remedial measures</li> </ul>	<ul style="list-style-type: none"> <li>• Rectify any unacceptable practice</li> <li>• Amend working methods if appropriate</li> </ul>
Exceedance for two or more consecutive samples	<ul style="list-style-type: none"> <li>• Identify source</li> <li>• Prepare Notification of Exceedance</li> <li>• Inform Contractor and IEC</li> <li>• Repeat measurements to confirm findings</li> <li>• Increase monitoring frequency to daily if exceedance is due to the Project and continue until the monitoring results reduce to below action level</li> <li>• Discuss with IEC for remedial action required</li> <li>• Ensure remedial measures are properly implemented</li> <li>• Continue monitoring at daily intervals if exceedance is due to the Project</li> <li>• If no exceedance for 3 consecutive days, cease additional monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Verify the Notification of Exceedance</li> <li>• Check monitoring data submitted by ET and Contractor's working methods</li> <li>• Discuss with ET and Contractor on proposed remedial measures</li> <li>• Review with analysed results submitted by ET</li> <li>• Review the proposed remedial measures by Contractor</li> <li>• Supervise the implementation of remedial measures</li> </ul>	<ul style="list-style-type: none"> <li>• Submit proposals for remedial actions to IEC within 3 working days of notification</li> <li>• Implement the agreed proposals</li> <li>• Amend proposal if appropriate</li> </ul>

Event	ET	IEC	Contractor
Exceedance of Limit Level			
Exceedance for one sample	<ul style="list-style-type: none"> <li>• Identify source</li> <li>• Prepare Notification of Exceedance</li> <li>• Inform IEC and Contractor</li> <li>• Repeat measurement to confirm findings</li> <li>• Increase monitoring frequency to daily if exceedance is due to the Project and continue until the monitoring results reduce to below limit level</li> <li>• Assess effectiveness of Contractor's remedial actions and keep EPD and IEC informed of the results</li> </ul>	<ul style="list-style-type: none"> <li>• Verify the Notification of Exceedance</li> <li>• Check monitoring data submitted by ET and Contractor's working methods</li> <li>• Discuss with ET and Contractor potential remedial actions</li> <li>• Supervise the implementation of remedial measures</li> </ul>	<ul style="list-style-type: none"> <li>• Take immediate action to avoid further exceedance</li> <li>• Submit proposals for remedial actions to IEC within 3 working days of notification</li> <li>• Implement the agreed proposals</li> <li>• Amend proposal if appropriate</li> </ul>
Exceedance for two or more consecutive samples	<ul style="list-style-type: none"> <li>• Identify source</li> <li>• Prepare Notification of Exceedance</li> <li>• Inform IEC and EPD the causes and actions taken for the exceedances</li> <li>• Discuss with IEC for remedial action required</li> <li>• Ensure remedial measures are properly implemented</li> <li>• Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and informed of the results</li> <li>• Increase monitoring frequency to confirm findings</li> <li>• If exceedance stops, cease additional monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Verify the Notification of Exceedance</li> <li>• Check monitoring data submitted by ET and Contractor's working methods</li> <li>• Discuss amongst ET and Contractor on the potential remedial actions.</li> <li>• Review Contractor's remedial actions whenever necessary to assure their effectiveness</li> <li>• Supervise the implementation of remedial measures</li> </ul>	<ul style="list-style-type: none"> <li>• Take immediate action to avoid further exceedance</li> <li>• Submit proposals for remedial actions to IEC of notification</li> <li>• Implement the agreed proposals</li> <li>• Resubmit proposals if problem still not under control</li> <li>• Stop the relevant activity of works until the exceedance is abated</li> </ul>

## 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 <sub>Aeq</sub> (30mins) average of 6 consecutive L <sub>eq</sub> (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-09696-E0)	3 Apr 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
Jan 2024	62.2 (59.6 – 63.2)	54.0 (53.3 – 55.3)
<b>Action Level</b>	<b>When one documented complaint is received</b>	
<b>Limit Level</b>	<b>&gt;75dB(A)</b>	

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 <sub>eq</sub> (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	<ul style="list-style-type: none"> <li>• Identify source, investigate the causes of exceedance</li> <li>• Prepare Notification of Exceedance</li> <li>• Inform IEC and Contractor</li> <li>• Report the results of investigation to IEC, and Contractor</li> <li>• Discuss with Contractor and IEC for formulate remedial measures</li> <li>• Ensure remedial measures are properly implemented</li> <li>• Have additional monitoring if exceedance is due to the Project. If exceedance stops, cease additional monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Verify the Notification of Exceedance</li> <li>• Review the analysed results submitted by ET</li> <li>• Discuss with ET, and Contractor on the potential remedial actions</li> <li>• Review the proposed remedial measures</li> <li>• Supervise the implementation of remedial measures</li> </ul>	<ul style="list-style-type: none"> <li>• Submit noise mitigation proposals to IEC</li> <li>• Implement the agreed noise mitigation proposals</li> </ul>
Exceedance of Limit Level	<ul style="list-style-type: none"> <li>• Identify source, investigate the causes of exceedance</li> <li>• Prepare Notification of Exceedance</li> <li>• Inform IEC and Contractor</li> <li>• Repeat measurements to confirm findings</li> <li>• Discuss with Contractor and IEC for remedial measures</li> <li>• Ensure remedial measures are properly implemented</li> <li>• Assess effectiveness of Contractor's remedial actions and keep IEC and EPD informed of the results</li> <li>• Have additional monitoring if exceedance is due to the Project. If exceedance stops, cease additional monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Verify the Notification of Exceedance</li> <li>• Review the analysed results submitted by ET</li> <li>• Discuss with ET, and Contractor on the potential remedial actions</li> <li>• Review the proposed remedial measures</li> <li>• Supervise the implementation of remedial measures</li> </ul>	<ul style="list-style-type: none"> <li>• Take immediate action to avoid further exceedance</li> <li>• Submit proposals for remedial actions to IEC of notification</li> <li>• Implement the agreed proposals</li> <li>• Resubmit proposals if problem still not under control</li> <li>• Stop the relevant portion of works as determined by project proponent until the exceedance is abated.</li> </ul>



## 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. 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 <sub>5</sub> , 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	HORIBA U-53 (S/N: PPHNOMXY)	3 Mar 2024
Water Flow Meter	Global Water FP211 (S/N: 22K100858)	26 Mar 2024

### 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 <sub>5</sub>	3 mg/L	2 mg/L	APHA 5210 B
TOC	1 mg/L	1 mg/L	APHA 5310 B
SS	0.1 mg/L	0.1 mg/L	APHA 2540 D
Ammonia-nitrogen	0.2 mg/L	0.01 mg/L	APHA 4500 NH <sub>3</sub> G
TKN	0.4 mg/L	0.1 mg/L	APHA 4500Norg: D
Nitrate	0.5 mg/L	0.01 mg/L	APHA 4500 NO <sub>3</sub> I
Sulphate	5 mg/L	1 mg/L	USEPA 375.4
Sulphite	2 mg/L	2 mg/L	APHA 4500 SO <sub>3</sub> B
Phosphate	0.01 mg/L	0.01 mg/L	APHA 4500-P B & F
Chloride	0.5 mg/L	0.5 mg/L	USEPA 325.1
Sodium	50 mg/L	50 mg/L	USEPA 6010C
Mg	50 mg/L	50 mg/L	USEPA 6010C
Ca	50 mg/L	50 mg/L	USEPA 6010C
K	50 mg/L	50 mg/L	USEPA 6010C
Fe	50 mg/L	10 mg/L	USEPA 6010C
Ni	1 mg/L	1 mg/L	USEPA 6020A
Zn	10 mg/L	10 mg/L	USEPA 6020A
Mn	1 mg/L	1 mg/L	USEPA 6020A
Cu	1 mg/L	1 mg/L	USEPA 6020A
Pb	1 mg/L	1 mg/L	USEPA 6020A
Cd	0.2 mg/L	0.2 mg/L	USEPA 6020A
Coliform Count	1 cfu/ 100mL	1 cfu/ 100mL	DoE section 7.8, 7.9.4.1 & 3
Oil and Grease	5 mg/L	5 mg/L	APHA 5520 B

#### QA/ QC Requirements

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

### Decontamination Procedures

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

### Sampling Management and Supervision

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

### Quality Control Measures for Sample Testing

5.2.4.7 The samples testing was performed by ALS Technichem (HK) Pty Ltd. The following quality control programme was performed by the laboratory:

- One method blank; and
- One sample duplicate.

### 5.2.5 Monitoring Results

5.2.5.1 Impact surface water quality monitoring was conducted at WM1 and WM2 on 4 January 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	7.5	>7.7	>7.8	7.5	>7.6	>7.7
DO in mg/L	7.7	<7.4	<4	7.8	<5	<4
Turbidity in NTU	6.0	>9.2	>9.5	18.5	>108.3	>108.9
Electrical Conductivity in $\mu\text{S}/\text{cm}$	93	---	---	225	---	---
SS in mg/L	8.2	>9.7	>11.4	14.7	>94.5	>94.7
Alkalinity in mg/L	16	---	---	56	---	---
COD in mg/L	6			7		
BOD <sub>5</sub> in mg/L	<2			<2		
TOC in mg/L	<1			1		
Ammonia-nitrogen in mg/L	0.02			0.23		
TKN in mg/L	0.3			0.5		
Nitrate in mg/L	0.03			0.22		
Sulphate in mg/L	4			24		
Sulphite in mg/L	<2			<2		
Phosphorus in mg/L	0.0			<0.01		
Chloride in mg/L	6			15		
Sodium in $\mu\text{g}/\text{L}$	8060			8850		
Magnesium in $\mu\text{g}/\text{L}$	450			1600		
Calcium in $\mu\text{g}/\text{L}$	3130			27400		
Potassium in $\mu\text{g}/\text{L}$	400			3840		
Iron in $\mu\text{g}/\text{L}$	900			1920		
Nickel in $\mu\text{g}/\text{L}$	<1			5		
Zinc in $\mu\text{g}/\text{L}$	<10			18		
Manganese in $\mu\text{g}/\text{L}$	52			836		
Copper in $\mu\text{g}/\text{L}$	<1			2		
Lead in $\mu\text{g}/\text{L}$	<1			1		
Cadmium in $\mu\text{g}/\text{L}$	<2			<2		
Coliform Count in cfu/100mL	1400			12000		
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	<ul style="list-style-type: none"> <li>• Repeat in situ measurement to confirm findings</li> <li>• Identify source(s) of impact</li> <li>• Prepare Notification of Exceedance</li> <li>• Inform IEC and Contractor</li> <li>• Check monitoring data, all plant, equipment and Contractor's working methods</li> <li>• Repeat measurement on next day of exceedance</li> </ul>	<ul style="list-style-type: none"> <li>• Verify Notification of Exceedance</li> <li>• Check monitoring data and Contractor's working methods</li> </ul>	<ul style="list-style-type: none"> <li>• Rectify unacceptable practice</li> <li>• Amend working methods if appropriate</li> </ul>
Action level being exceeded by two or more consecutive sampling days	<ul style="list-style-type: none"> <li>• Repeat in situ measurement to confirm findings</li> <li>• Identify source(s) of impact</li> <li>• Prepare Notification of Exceedance</li> <li>• Inform IEC and Contractor</li> <li>• Check monitoring data, all plant, equipment and Contractor's working methods</li> <li>• Discuss with Contractor and IEC for remedial measures</li> <li>• Ensure mitigation measures are implemented</li> <li>• Increase the monitoring frequency to daily until no exceedance of Action level</li> <li>• Repeat measurement on next day of exceedance</li> </ul>	<ul style="list-style-type: none"> <li>• Verify Notification of Exceedance</li> <li>• Check monitoring data and Contractor's working method</li> <li>• Discuss with ET and Contractor on possible remedial actions</li> <li>• Review the proposed mitigation measures</li> <li>• Supervise the implementation of mitigation measures</li> </ul>	<ul style="list-style-type: none"> <li>• Submit proposal of additional mitigation measures to IEC of notification</li> <li>• Implement the agreed mitigation measures</li> <li>• Amend proposal if appropriate</li> </ul>



Event	ET	IEC	Contractor
Limit Level being exceeded by one sampling day	<ul style="list-style-type: none"> <li>• Repeat in situ measurement to confirm findings</li> <li>• Identify source(s) of impact</li> <li>• Prepare Notification of Exceedance</li> <li>• Inform IEC and Contractor;</li> <li>• Check monitoring data, all plant, equipment and Contractor's working methods</li> <li>• Discuss mitigation measures with IEC and Contractor</li> <li>• Ensure mitigation measure are implemented</li> </ul>	<ul style="list-style-type: none"> <li>• Verify Notification of Exceedance</li> <li>• Check monitoring data submitted By ET and Contractor's working method</li> <li>• Discuss with ET and Contractor on possible remedial actions</li> <li>• Review the proposed mitigation measures</li> <li>• Supervise the implementation of mitigation measures</li> </ul>	<ul style="list-style-type: none"> <li>• Critically review the working method</li> <li>• Rectify unacceptable practice</li> <li>• Take immediate corrective actions to avoid further exceedance</li> <li>• Submit proposal of mitigation measures to IEC</li> <li>• Implement the agreed mitigation measures</li> <li>•</li> </ul>
Limit level being exceeded by two or more consecutive sampling days	<ul style="list-style-type: none"> <li>• Repeat in situ measurement to confirm findings</li> <li>• Identify source(s) of impact</li> <li>• Prepare Notification of Exceedance</li> <li>• Inform IEC, contractor and EPD</li> <li>• Check monitoring data, all plant, equipment and Contractor's working methods</li> <li>• Discuss mitigation measures with IEC and Contractor</li> <li>• Ensure mitigation measure are implemented</li> </ul>	<ul style="list-style-type: none"> <li>• Verify Notification of Exceedance</li> <li>• Check monitoring data submitted by ET and Contractor's working method</li> <li>• Discuss with ET and Contractor on possible remedial actions</li> <li>• Review the proposed mitigation measures</li> <li>• Supervise the implementation of mitigation measures</li> </ul>	<ul style="list-style-type: none"> <li>• Critically review the working method</li> <li>• Rectify unacceptable practice</li> <li>• Take immediate corrective actions to avoid further exceedance</li> <li>• Submit proposal of mitigation measures to IEC</li> <li>• Implement the agreed mitigation measures</li> <li>• Resubmit proposals if problem still not under control</li> <li>• Slow down or to stop relevant activity until exceedance is abated</li> </ul>

## 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 125,010 tonnes of C&D materials was reused at alternative disposal ground (NENT Landfill) during the reporting period. A total of 5.59 tonnes of Yard waste (collected to Y-Park) was generated during the reporting period. A total of 71.13 tonnes of general refuse and A total of 753.78 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<sub>4</sub>: >10% Lower Explosion Limit (LEL);
- CO<sub>2</sub>: >0.5%; and
- O<sub>2</sub>: <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 <sub>4</sub> , CO <sub>2</sub> & O <sub>2</sub>	Gas Analyser	GEM5000 (S/N: G505207)	30 Aug 2024

**Table 7-3 Landfill Gas Monitoring Detection Limits**

Parameters	Detection Limit
CH <sub>4</sub>	1% LEL
O <sub>2</sub>	0.1%
CO <sub>2</sub>	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 <sub>2</sub> )	Action Level <19% O <sub>2</sub>	Ventilate trench/void to restore O <sub>2</sub> to >19%
	Limit Level <18% O <sub>2</sub>	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore O <sub>2</sub> to >19%
Methane (CH <sub>4</sub> )	Action Level >10% LEL *	Prohibit hot works Increase ventilation to restore CH <sub>4</sub> to <10% LEL
	Limit Level >20% LEL *	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore CH <sub>4</sub> to <10% LEL
Carbon dioxide (CO <sub>2</sub> )	Action Level** >0.5%** CO <sub>2</sub>	Ventilate to restore CO <sub>2</sub> to <0.5%
	Limit Level >1.5% CO <sub>2</sub>	Stop works Evacuate personnel / prohibit entry Increase ventilation to restore CO <sub>2</sub> 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<sub>2</sub> at 0.5% is set for reference only, assuming no CO<sub>2</sub> emission from a particular location.

Depending on the baseline CO<sub>2</sub> 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 <sub>4</sub> in %	LEL in %/v	CO <sub>2</sub> in %	O <sub>2</sub> in %
		Average Monitoring Results			
Portion A +50 mpD to 70 mpD Platform	2 Jan 2024	0	0	0	20.2
	3 Jan 2024	0	0	0	20.1
	4 Jan 2024	0	0	0	20.1
	5 Jan 2024	0	0	0	20.1
	6 Jan 2024	0	0	0	20.1
	8 Jan 2024	0	0	0	20.2
	9 Jan 2024	0	0	0	20.0
	10 Jan 2024	0	0	0	20.1
	11 Jan 2024	0	0	0	20.1
	12 Jan 2024	0	0	0	20.0
	13 Jan 2024	0	0	0	20.1
	15 Jan 2024	0	0	0	20.1
	16 Jan 2024	0	0	0	20.2
	17 Jan 2024	0	0	0	20.2
	18 Jan 2024	0	0	0	20.1
	19 Jan 2024	0	0	0	20.2
	20 Jan 2024	0	0	0	20.2
	22 Jan 2024	0	0	0	20.2
	23 Jan 2024	0	0	0	20.2
	24 Jan 2024	0	0	0	20.2
	25 Jan 2024	0	0	0	20.2
26 Jan 2024	0	0	0	20.2	
27 Jan 2024	0	0	0	20.2	
29 Jan 2024	0	0	0	20.2	
30 Jan 2024	0	0	0	20.2	
31 Jan 2024	0	0	0	20.1	
<b>Action Level</b>		>10% LEL	---	>0.5%** CO <sub>2</sub>	<19%
<b>Limit Level</b>		>20% LEL	---	>1.5% CO <sub>2</sub>	<18%

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

\*\* This Limit Level of CO<sub>2</sub> at 0.5% is set for reference only, assuming no CO<sub>2</sub> 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	
Level Exceedance		Action Level	Limit Level
Parameters			
CH <sub>4</sub>	Exceedance Date	-	-
	Exceedance Count	0	0
CO <sub>2</sub>	Exceedance Date	-	-
	Exceedance Count	0	0
O <sub>2</sub>	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	1 <sup>st</sup>	24 Nov 2022
	2 <sup>nd</sup>	9 Dec 2022
	3 <sup>rd</sup>	21 Dec 2022
	4 <sup>th</sup>	13 Jan 2023
	5 <sup>th</sup>	26 Jan 2023
	6 <sup>th</sup>	8 Feb 2023
	7 <sup>th</sup>	24 Feb 2023
	8 <sup>th</sup>	20 Mar 2023
	9 <sup>th</sup>	21 Apr 2023
	10 <sup>th</sup>	12 May 2023
	11 <sup>th</sup>	16 Jun 2023
	12 <sup>th</sup>	18 Jul 2023
	13 <sup>th</sup>	11 Aug 2023
	14 <sup>th</sup>	15 Sep 2023
	15 <sup>th</sup>	13 Oct 2023
Post-translocation Monitoring	1 <sup>st</sup> (Aug 2022)	29 Aug 2022
	2 <sup>nd</sup> (Sep 2022)	28 Sep 2022
	3 <sup>rd</sup> (Oct 2022)	28 Oct 2022
	4 <sup>th</sup> (Nov 2022)	22 Nov 2022
	5 <sup>th</sup> (Dec 2022)	29 Dec 2022
	6 <sup>th</sup> (Jan 2023)	30 Jan 2023
	7 <sup>th</sup> (Feb 2023)	24 Feb 2023
	8 <sup>th</sup> (Mar 2023)	20 Mar 2023
	9 <sup>th</sup> (Apr 2023)	19 Apr 2023
	10 <sup>th</sup> (May 2023)	17 May 2023
	11 <sup>th</sup> (Jun 2023)	7 Jun 2023
	12 <sup>th</sup> (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 January 2024. A joint environmental site inspection was carried out by the representatives of the ER, the Contractor, IEC and the ET on 15 January 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 January 2024

Observation(s):

- Unpaved main haul road was dry and fugitive dust was observed, especially at Portion E4. The Contractor was advised to provide enough water sprayers for short-term dust control to ensure that all unpaved roads are wetted and also implement other measurements like shotcrete to pave all main haul road for long term dust control.

### 08 January 2024

Observation(s):

- The unpaved main haul road at SBA was dry and fugitive dust was observed. The Contractor was advised to regularly water the unpaved main haul road to ensure it stays moist and to pave it for long-term dust control.

### 15 January 2024

Observation(s):

- Dusty material (Cement) at SBA without covered by impervious sheet properly or placed in an area sheltered on the top and the 3 side was observed. The Contractor was recommended that the loading, unloading or transfer, handing or storage of cement should be cover entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides to prevent dust suppression or sprayed with water to maintain the entire surface wet. They had also been recommended to provide training courses on dust control during the shotcrete process.
- The exposed slope surface at SBA without covered by impervious sheet properly was found. The Contractor was reminded that the exposed slope surface should be properly covered with impervious sheet.
- Damaged silt fence around the stockpile area at SBA was observed. The Contractor was advised to provide maintenance for the silt fence.

22 January 2024

Reminder(s):

- The Contractor was reminded to provide temporary slope surface protection for the exposed slope surface at Portion B2 before completing the concrete surface protection by February.

29 January 2024

Observation(s):

- Stockpiling of dusty material without covered by impervious sheet at SBA was found. The Contractor was recommended that dusty materials should be covered by impervious sheet to prevent dust dispersion.
- Insufficient silt fence around the soil stockpiling area at SBA was observed. The Contractor was advised to provide sufficient silt fence around the soil stockpiling area to prevent sediment from entering the system.
- The oil drum and chemical containers without chemical drip tray at Portion E4 was found. The Contractor was reminded to provide the sufficient drip tray for chemical storage to avoid chemical spillage and land contamination.

Reminder(s):

- The Contractor was reminded that activities of loading, unloading, transfer, handing or storage of bulk cement or dry PFA shall be carried out in a totally enclosed system or facility at Portion E4 to prevent dust dispersion.
- The Contractor was reminded to ensure that the door of the generator shall be closed while it is operating to reduce the noise produced.

11.1.4 One general 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 <sub>eq</sub> (30mins)	Exceedance Date	-	-	-
Exceedance Count		0	0	0	0

Remarks: \* equal to non-project related

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

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

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

Remarks: \* equal to non-project related

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

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

Landfill Gas Monitoring Station		Portion A +50 mpD to 70 mpD Platform	
Level Exceedance		Action Level	Limit Level
Parameters			
CH <sub>4</sub>	Exceedance Date	-	-
	Exceedance Count	0	0
CO <sub>2</sub>	Exceedance Date	-	-
	Exceedance Count	0	0
O <sub>2</sub>	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
Jan 2024	Complaint Date	-	-	-	-	-
	No. of Complaint	0	0	0	0	0
Reporting Period Total		0	0	0	0	0
Accumulate of project		1*	0	5(1*)	0	0

Remarks: \* equal to non-project related after the investigation.

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

## 12.4 Summary of Environmental Summons and Successful Prosecution

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

## 13 Implementation Status on Environmental Mitigation Measures

### 13.1 General

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

## 14 Future Key Issues

### 14.1 Key Issues for the Coming Month

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

- 
- Material loading and unloading, 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 & E3-1

---

  - Tree felling at Portion B2/E1, E3-1 & E4

---

  - Shotcreting (Permanent and Temporary)

---

  - 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

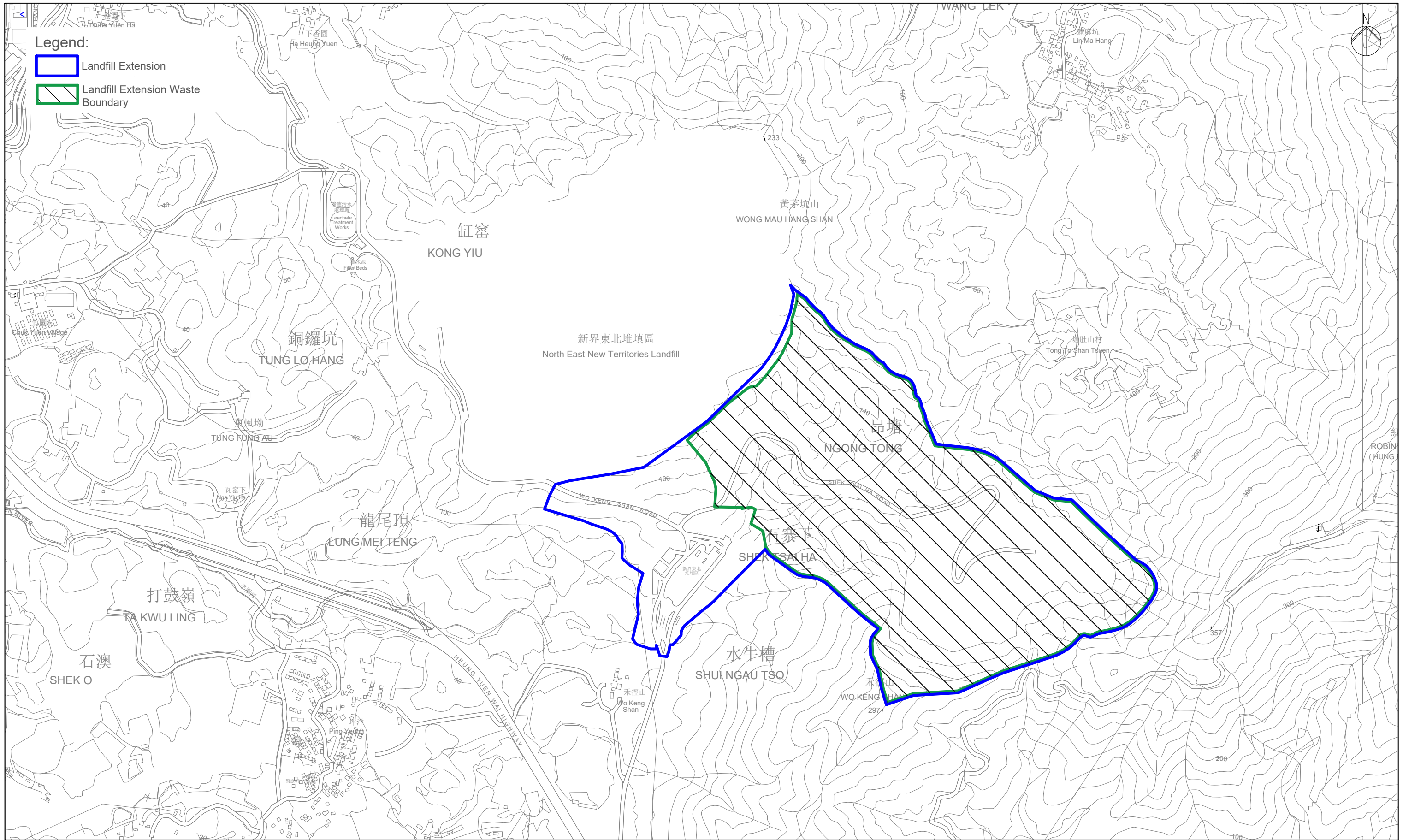
14.3.1 The most updated construction programme for the Project is presented in **Appendix A**.



## 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.
- 15.1.9 No non-compliance event was recorded during the reporting period.
- 15.1.10 No notification of summons and prosecution was received during the reporting period.
- 15.1.11 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

## Figure 1 Location of the Project Site

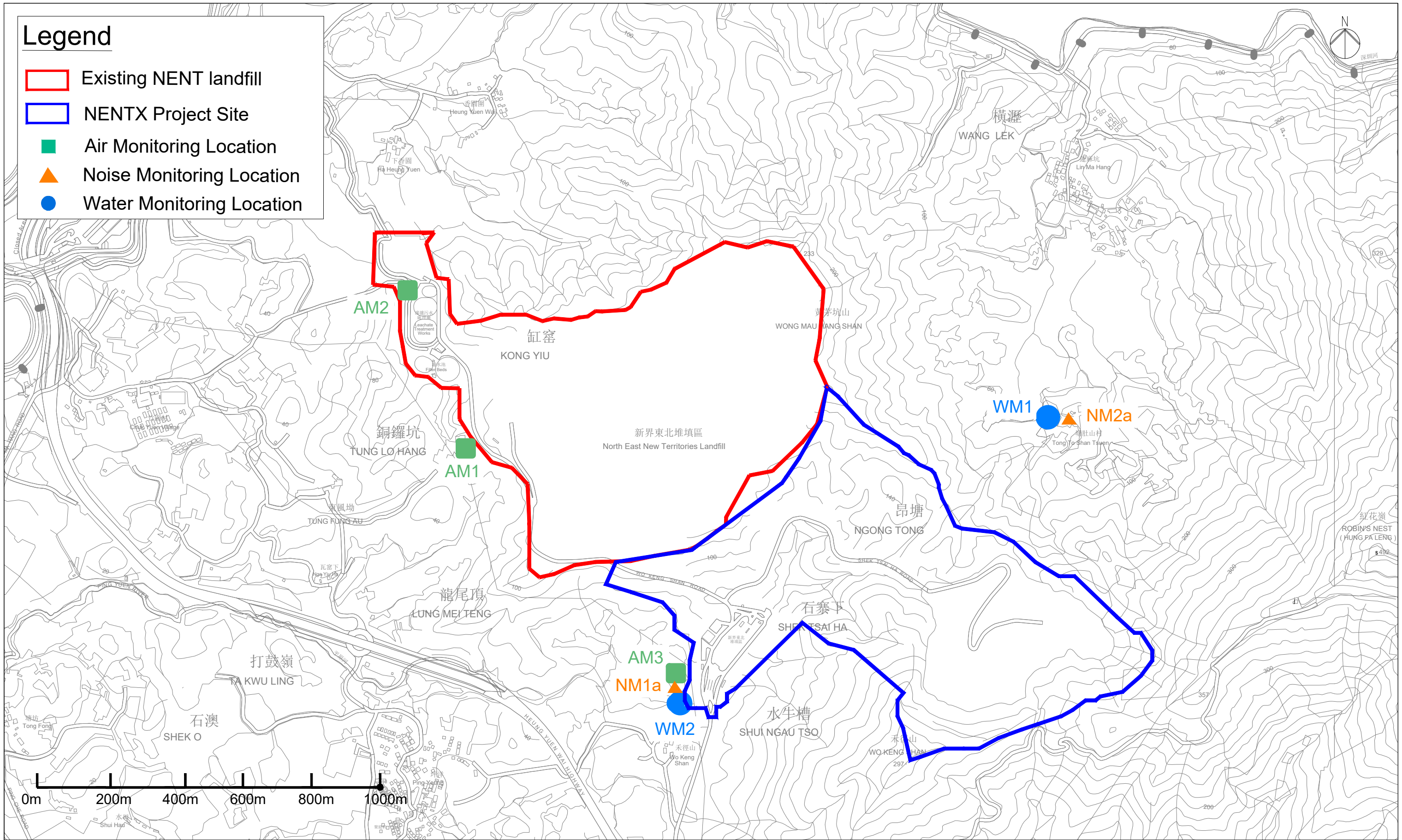


## Figure 2 Impact Air Quality, Noise & Surface Water Quality Monitoring Locations



# Legend

- Existing NENT landfill
- NENTX Project Site
- Air Monitoring Location
- Noise Monitoring Location
- Water Monitoring Location



## Figure 3 Landfill Gas Monitoring Locations



Gas Monitoring Point ●

Monitoring Frequency: 2 times per day

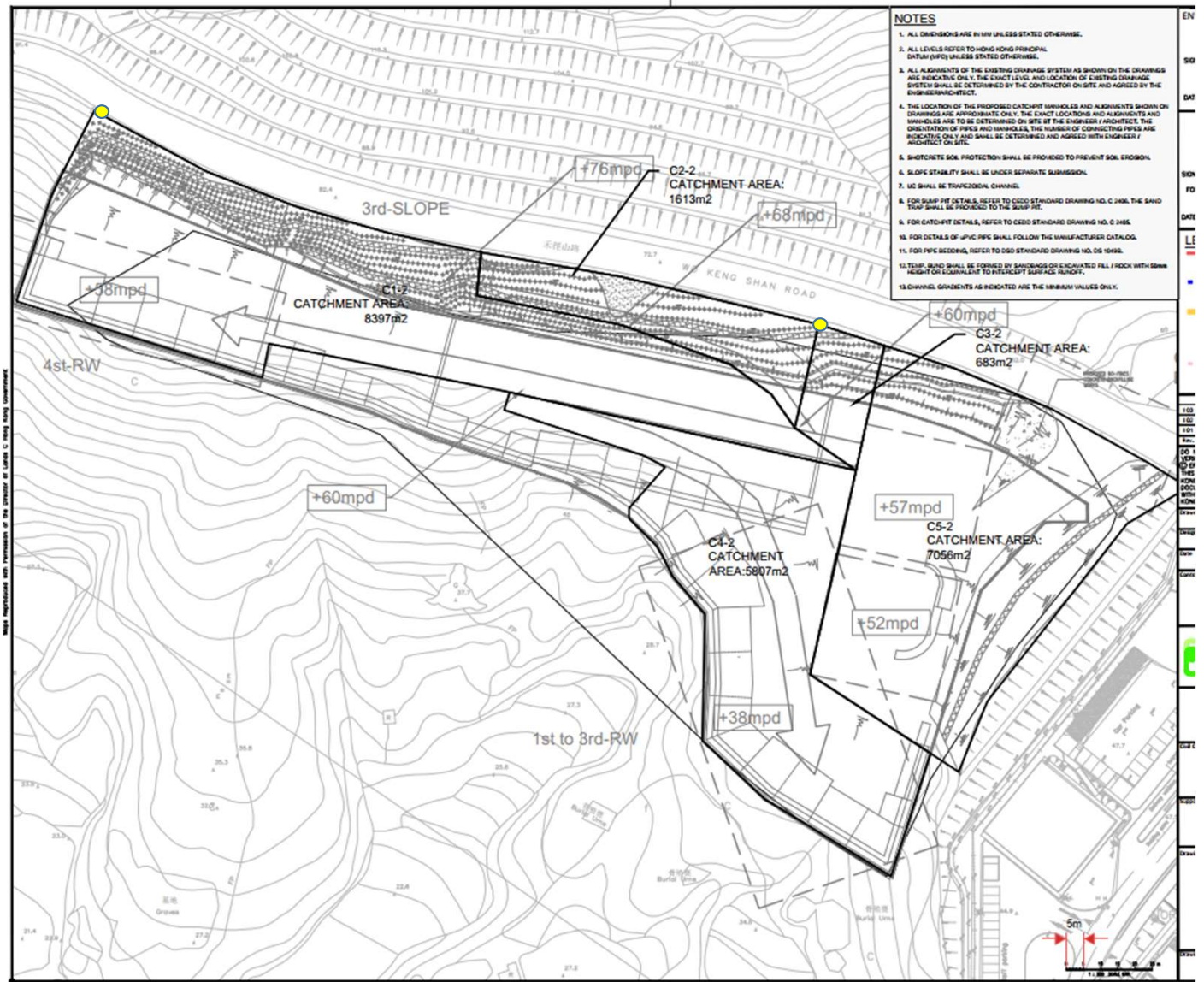
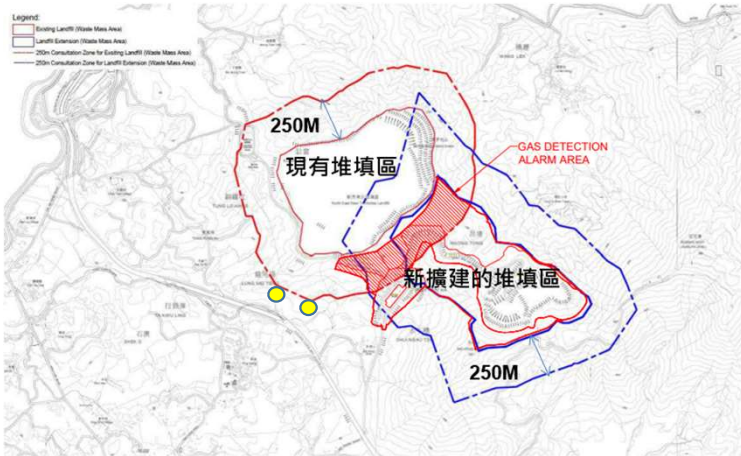


Figure 3 Landfill Gas Monitoring Locations

# 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	2022				2023				2024				2025				2026								
												Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
<b>NENTX_Updated Baseline Programme (Rev.4)</b>																																				
<b>DESIGN DEVELOPMENT</b>																																				
Portion A - Site Formation																																				
Portion A & D Architectural Design																																				
Portion A - Leachate Treatment Works & LFG Treatment Plant																																				
Portion A - Process Building																																				
Portion D Site Formation																																				
Portion A and D Preliminary Utilities Arrangement																																				
Site services detailed design for Portion A and D																																				
Permanent Drainage - Portion A, C & D																																				
Sewerage Management Plan - Portion A, C & D																																				
Pavement Road and Traffic Design for Portion A & D																																				
Accommodation Buildings (Portion D)																																				
Existing Structures (Portion C)																																				
Landfill Area																																				
<b>FS Submission and FSD Consent</b>																																				
Preliminary FS Submission																																				
Process Building and Fire Services Building Detailed Design FS Submission																																				
<b>TECHNICAL SUBMISSION</b>																																				
Project Control Plan and Report																																				
<b>PROCUREMENT / FABRICATION / DELIVERY</b>																																				
General Material																																				
LIFT																																				
LTW - GFS and GRP Tanks																																				
LTW - Lamella Settlers																																				
LTW - Sludge Thickening																																				
LTW - Ammonia Stripper																																				
Process Building(Electrical equipments)																																				
LFG Plant																																				
<b>EPD REQUIREMENT - GI WORKS</b>																																				
PORTION D																																				
PORTION A																																				
PORTION E3-1																																				
PORTION E4																																				
PORTION E3-1-A																																				
PORTION E1																																				
ENVIRONMENTAL MONITORING																																				
<b>CONSTRUCTION - INITIAL WORKS PHASE 1</b>																																				
PORTION A																																				
SITEWIDE Underground UTILITIES (Portion A to Portion D)																																				
Waste Reception Area (PORTION C) Construct by Others																																				
PORTION D																																				
PORTION D - Underground Drainage / UG Utilities and Pipe Laying Works																																				
PORTION D - EVA Road Road Pavement Works																																				
Landfill Area (Portion E3-1, E4, E1, B1-1 & B2)																																				
Landscape Works (Landfill)																																				
<b>FS INSPECTION</b>																																				
Portion A - Readiness for FS Inspection (Process Building)																																				
Portion D : Readiness for FS inspection																																				
2nd Inspection																																				
FS Inspection Certificate																																				
<b>STATUTORY SUBMISSION</b>																																				
Obtain Licences & Permits for Construction																																				
Obtain Licences & Permits for Operation																																				



- ▬ Remaining Level of Effort
- ▬ Remaining Work
- ▬ Critical Remaining Work
- ◆ Milestone
- ▬ Summary

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



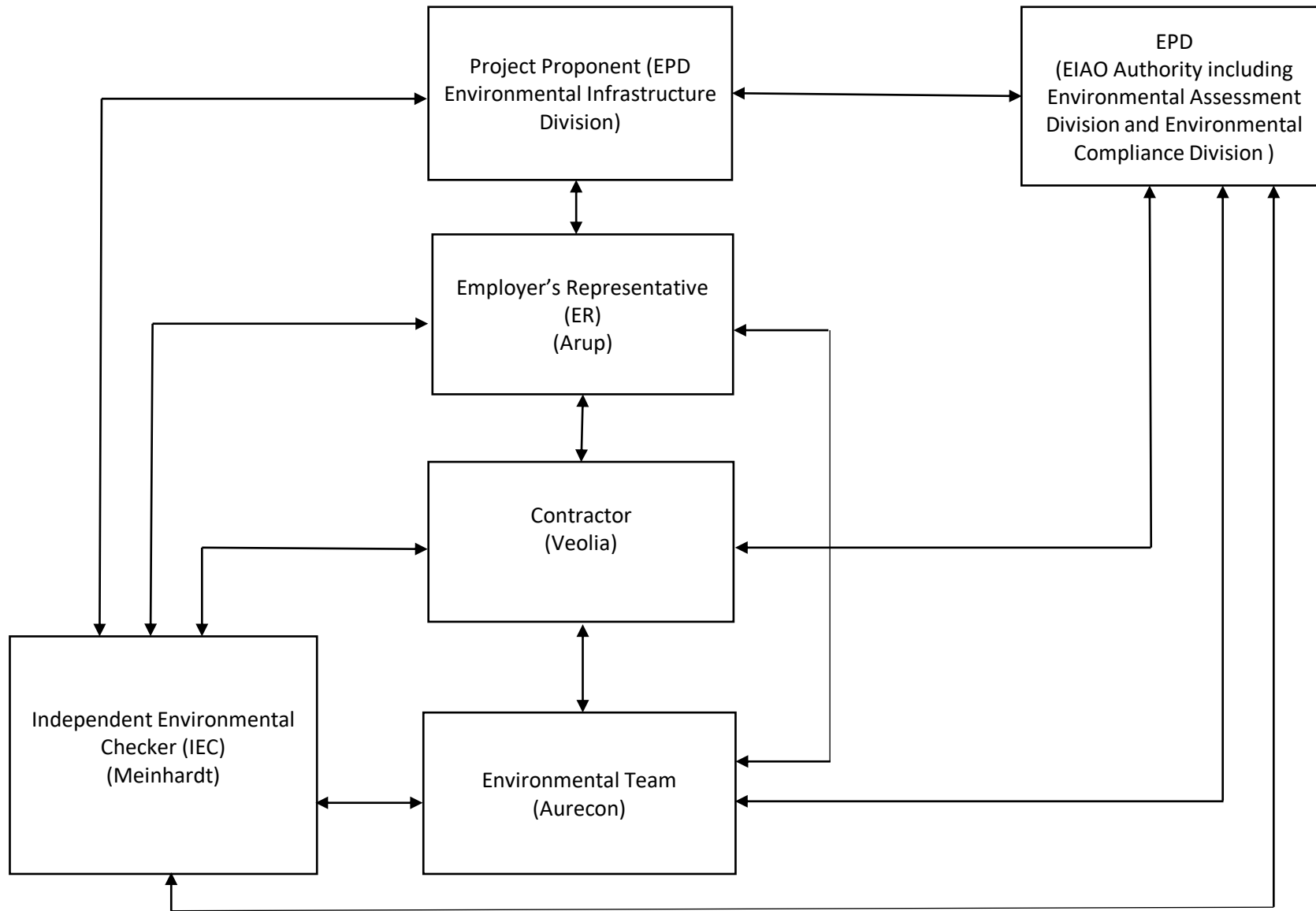
Date	Revision	Ch...	Appr...
22-Jun-22	GENERAL REVISION		
31-Mar-23	GENERAL REVISION		

Construction Activities	Where	Who	What - ENV Impacts	Mitigation Measures
Material loading and unloading, site traffic	Portion A, SBA to Alternative Disposal Ground	PYE	Dust, bringing mud to the common haul road	Speed limit, covering of materials and water spraying, lorry washing at the exit of the site
Construction of Site buildings	Portion D	PYE	Washout flowing to site water discharge point, dust emissions	Avoid the spillage of concrete, lorry washing at designated area, operation and maintenance of water treatment facility at discharge point
Site clearance	Portion A, Portion E3-1, Portion E4, Portion E1/B2	PYE	Wash out going to surface water channel and site water discharge point, generation of yard waste	Cover exposed slope by tarpaulin, diversion of surface water, operation and maintenance of water treatment facility at discharge point, implementation of trip ticket system
Installation of permanent fencing	Portion A, Portion B1, Portion E4	PYE	Dust	Covering of cement storage area, enclosure of mixing area
Site formation	Portion A, Portion E3-1	PYE	Generation of C&D waste	Implementation of trip ticket system, waste recycling, internal waste transfer
Tree Felling	Portion E3-1, E4, E1/B2	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:

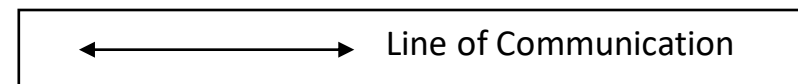
EPD - Environmental Protection Department

Arup – Ove Arup & Partners Limited

Veolia - Veolia Environmental Services Hong Kong Limited

Meinhardt - Meinhardt Infrastructure And Environment Limited

Aurecon - Aurecon Hong Kong Limited



## Appendix C Detail Status of FEP & EP Submission

## Detail Status of Submissions required under the FEP & EP

FEP Condition	EP Condition	Submission / Measures	Status
2.1	2.3	Management Organization of Main Construction Companies	Submission Date (12 Oct 2022)
2.2	2.4	Setting up of Community Liaison Group (CLG)	Submission Date (12 Oct 2022) 1 <sup>st</sup> 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) 1 <sup>st</sup> monitoring (24 Nov 2022) 2 <sup>nd</sup> monitoring (9 Dec 2022) 3 <sup>rd</sup> monitoring (21 Dec 2022) 4 <sup>th</sup> monitoring (13 Jan 2023) 5 <sup>th</sup> monitoring (26 Jan 2023) 6 <sup>th</sup> monitoring (8 Feb 2023) 7 <sup>th</sup> monitoring (24 Feb 2023) 8 <sup>th</sup> monitoring (20 Mar 2023) 9 <sup>th</sup> monitoring (21 Apr 2023) 10 <sup>th</sup> monitoring (12 May 2023) 11 <sup>th</sup> monitoring (16 Jun 2023) 12 <sup>th</sup> monitoring (18 Jul 2023) 13 <sup>th</sup> monitoring (11 Aug 2023) 14 <sup>th</sup> monitoring (15 Sep 2023) 15 <sup>th</sup> monitoring (13 Oct 2023)

FEP Condition	EP Condition	Submission / Measures	Status
2.8	2.10	Submission of Translocation Report and Post-Translocation Monitoring	<p>Translocation was carried out in July 2022</p> <p>Submission Date (27 December 2022)</p> <p>1<sup>st</sup> monitoring (29 Aug 2022)</p> <p>2<sup>nd</sup> monitoring (28 Sep 2022)</p> <p>3<sup>rd</sup> monitoring (28 Oct 2022)</p> <p>4<sup>th</sup> monitoring (22 Nov 2022)</p> <p>5<sup>th</sup> monitoring (29 Dec 2022)</p> <p>6<sup>th</sup> monitoring (30 Jan 2023)</p> <p>7<sup>th</sup> monitoring (24 Feb 2023)</p> <p>8<sup>th</sup> monitoring (20 Mar 2023)</p> <p>9<sup>th</sup> monitoring (19 Apr 2023)</p> <p>10<sup>th</sup> monitoring (17 May 2023)</p> <p>11<sup>th</sup> monitoring (7 Jun 2023)</p> <p>12<sup>th</sup> monitoring (12 Jul 2023)</p>
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	<p>1<sup>st</sup> report (Dec 2022)</p> <p>2<sup>nd</sup> report (Jan 2023)</p> <p>3<sup>rd</sup> report (Feb 2023)</p> <p>4<sup>th</sup> report (Mar 2023)</p> <p>5<sup>th</sup> report (Apr 2023)</p> <p>6<sup>th</sup> report (May 2023)</p> <p>7<sup>th</sup> report (Jun 2023)</p> <p>8<sup>th</sup> report (Jul 2023)</p> <p>9<sup>th</sup> report (Aug 2023)</p> <p>10<sup>th</sup> report (Sep 2023)</p> <p>11<sup>th</sup> report (Oct 2023)</p> <p>12<sup>th</sup> report (Nov 2023)</p> <p>13<sup>th</sup> report (Dec 2023)</p> <p>14<sup>th</sup> report (Jan 2024)</p>

# Appendix D Monitoring Schedule for Reporting Month & Next Month



**Impact Monitoring Schedule for NENT Landfill Extension (January 2024) (version 2.0)**

1-2024						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1	2	3	4 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a Surface water quality monitoring at WM1 and WM2	5	6
7	8	9	10 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	11	12	13
14	15	16 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	17	18	19	20
21	22 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	23	24	25	26	27 Air quality monitoring at AM1, AM2 and AM3
28	29 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	30	31	1	2	3 Air quality monitoring at AM1, AM2 and AM3

**Remark:**

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

**Impact Monitoring Schedule for NENT Landfill Extension (February 2024) (version 2.0)**

2-2024						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
	29 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	30	31	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	10
11	12	13	14	15 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a Surface water quality monitoring at WM1 and WM2	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	1	2	3

**Remark:**

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

## Appendix E Calibration Certificates

# Air Quality

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

**Information of Calibrated Equipment**

Verification Test Date:	<u>28-Nov-23</u>	to	<u>30-Nov-23</u>	Next Verification Test Date:	<u>27-Nov-24</u>
Unit-under-Test- Model No.:	<u>Sibata LD-5R</u>				
Unit-under-Test Serial No.:	<u>024545</u>				
Our Report Reference No.:	<u>RPT-23-HVS-0023</u>				
Calibration Location:	<u>AM2, location near the Leachate Treatment Works within the NENTX Landfill</u>				

**Standard Equipment Information**

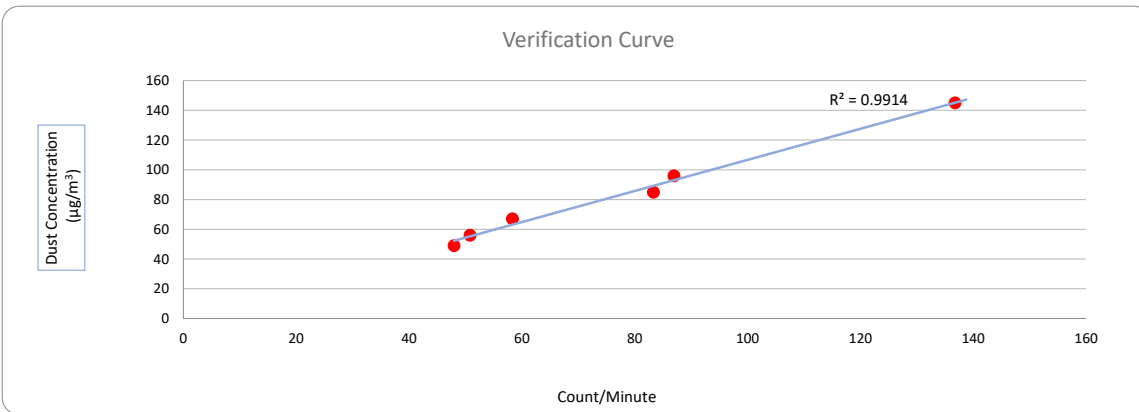
Verification Equipment Type:	<u>Tisch TSP HVS</u>	<u>Tisch HVS Calibrator</u>
Standard Equipment Model No.:	<u>TE-5170X</u>	<u>TE-5028A</u>
Equipment serial no.:	<u>1106</u>	<u>3702</u>
Last Calibration Date:	<u>04-Nov-23</u>	<u>31-Mar-23</u>
Next Calibration Date:	<u>04-Jan-24</u>	<u>30-Mar-24</u>


**Equipment Verification Result**

Verification Test No.	Date	Duration			Results from Calibrated Equipment		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration ( $\mu\text{g}/\text{m}^3$ ) y-axis
1	28/11/2023	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:	<u>1.0451</u>	Intercept:	<u>2.1545</u>	*Correlation Coefficient, R:	<u>0.9957</u>
Verification Test Result:	<u>Strong Correlation. Results were accepted.</u>			* If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.	



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 Equipment**

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

**Standard Equipment Information**

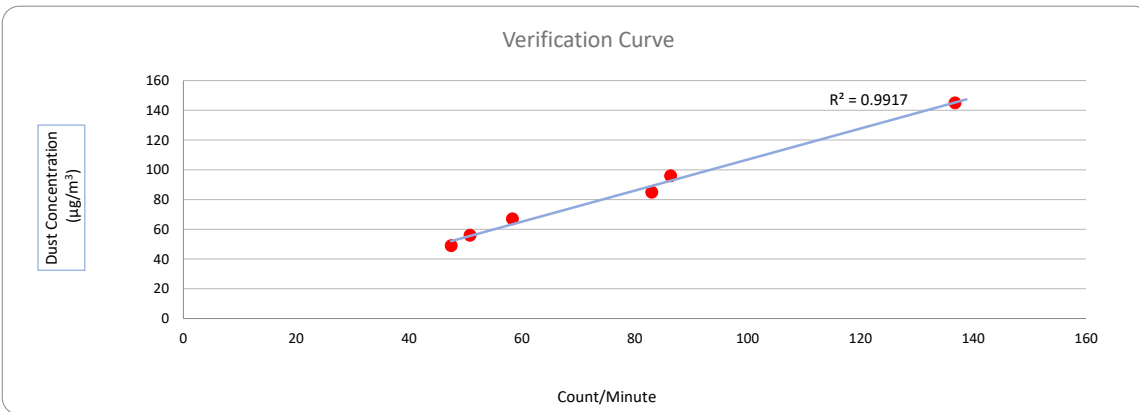
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24


**Equipment Verification Result**

Verification Test No.	Date	Duration			Results from Calibrated Equipment		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration ( $\mu\text{g}/\text{m}^3$ ) y-axis
1	28/11/2023	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:	<b><u>1.0437</u></b>	Intercept:	<b><u>2.4993</u></b>	*Correlation Coefficient, R:	<b><u>0.9958</u></b>
Verification Test Result:	<b><u>Strong Correlation. Results were accepted.</u></b>			* 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 Equipment**

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

**Standard Equipment Information**

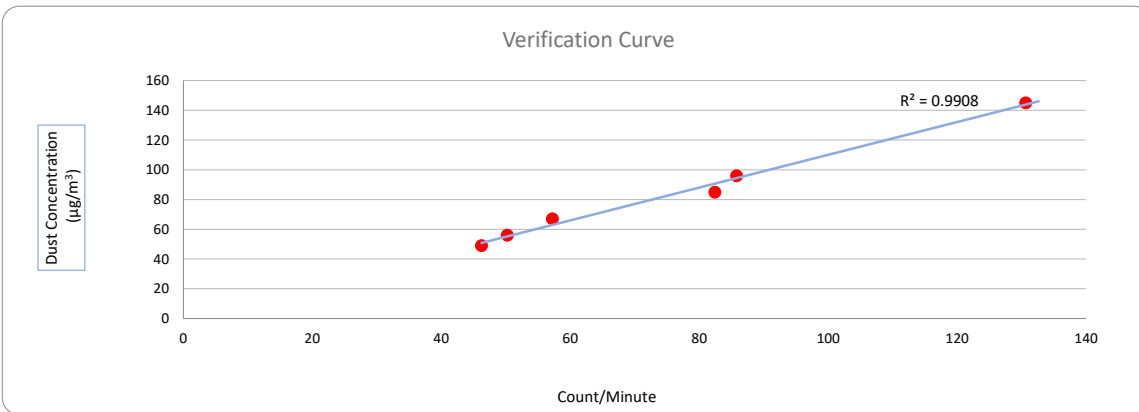
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

**Equipment Verification Result**

Verification Test No.	Date	Duration			Results from Calibrated Equipment		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration ( $\mu\text{g}/\text{m}^3$ ) y-axis
1	28/11/2023	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:	<b><u>1.1020</u></b>	Intercept:	<b><u>-0.1223</u></b>	*Correlation Coefficient, R:	<b><u>0.9954</u></b>
Verification Test Result:	<b><u>Strong Correlation. Results were accepted.</u></b>			* 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 Wo Keng Shan Tsuen	Site ID:	AM3	Date:	04-Jan-2024
Serial No:	1856	Model:	TE-5170X	Operator:	Andy Li

### Ambient Condition

Actual Pressure during Calibration ( $P_a$ ) (mm Hg):	757.2	Actual Temperature during Calibration ( $T_a$ ) (deg K):	234.0
---	-------	--	-------

### Calibration Orifice

Model:	TE-5028A	Slope ( $m_c$ ):	1.68024
Serial No.:	3702	Intercept ( $b_c$ ):	-0.04353
Calibration Due Date:	31-Mar-24	Corr. Coeff:	0.99994

### Calibration Data

Plate or Test #	$\Delta H_2O$ (in)	Qa, X-Axis (m <sup>3</sup> /min)	I, CFM (chart)	IC, Y-Axis (corrected)
1	8.90	2.026	60.0	67.58
2	7.00	1.800	54.0	60.83
3	6.40	1.722	50.0	56.32
4	4.80	1.495	45.0	50.69
5	3.40	1.262	40.0	45.06

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

$m = \underline{\underline{29.6458}}$                        $b = \underline{\underline{6.8595}}$                       Corr. Coeff =  $\underline{\underline{0.9931}}$

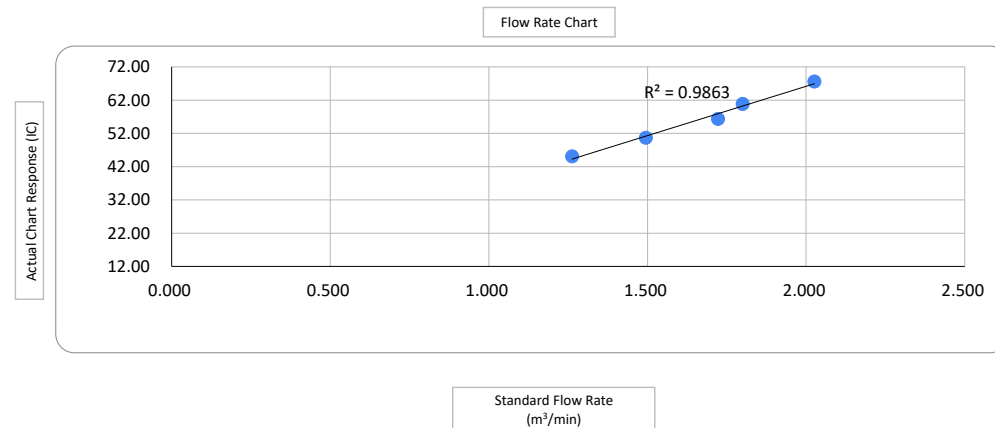
#### Calculations

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

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

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  
 Environmental Team Leader

Date: 04-Jan-2024



## HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

### Site Information

Location:	Representative For Tung Lo Hang	Site ID:	AM1	Date:	04-Jan-2024
Serial No:	1105	Model:	TE-5170X	Operator:	Andy Li

### Ambient Condition

Actual Pressure during Calibration ( $P_a$ ) (mm Hg):	757.2	Actual Temperature during Calibration ( $T_a$ ) (deg K):	234.0
---	-------	--	-------

### Calibration Orifice

Model:	TE-5028A	Slope ( $m_c$ ):	1.68024
Serial No.:	3702	Intercept ( $b_c$ ):	-0.04353
Calibration Due Date:	31-Mar-24	Corr. Coeff:	0.99994

### Calibration Data

Plate or Test #	$\Delta H_2O$ (in)	Qa, X-Axis (m <sup>3</sup> /min)	I, CFM (chart)	IC, Y-Axis (corrected)
1	9.80	2.125	56.0	63.08
2	8.80	2.015	54.0	60.83
3	7.60	1.874	51.0	57.45
4	6.40	1.722	48.0	54.07
5	4.20	1.400	40.0	45.06

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

$m = \underline{\hspace{2cm} 24.9080 \hspace{2cm}}$ 
 $b = \underline{\hspace{2cm} 10.5891 \hspace{2cm}}$ 
 $\text{Corr. Coeff} = \underline{\hspace{2cm} 0.9982 \hspace{2cm}}$

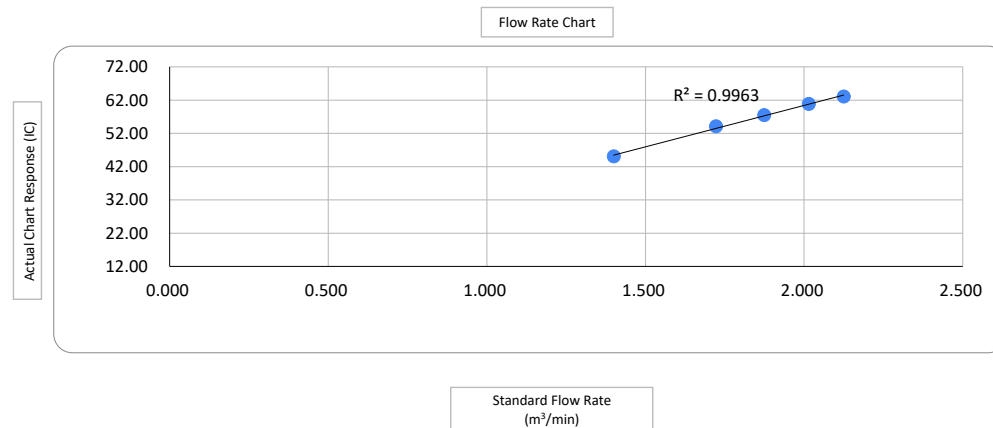
#### Calculations

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

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

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  
 Environmental Team Leader

Date: 04-Jan-2024

## HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

### Site Information

Location:	Representative For Heung YuenWai	Site ID:	AM2	Date:	04-Jan-2024
Serial No:	1106	Model:	TE-5170X	Operator:	Andy Li

### Ambient Condition

Actual Pressure during Calibration ( $P_a$ ) (mm Hg):	757.2	Actual Temperature during Calibration ( $T_a$ ) (deg K):	234.0
---	-------	--	-------

### Calibration Orifice

Model:	TE-5028A	Slope ( $m_c$ ):	1.68024
Serial No.:	3702	Intercept ( $b_c$ ):	-0.04353
Calibration Due Date:	31-Mar-24	Corr. Coeff:	0.99994

### Calibration Data

Plate or Test #	$\Delta H_2O$ (in)	Qa, X-Axis (m <sup>3</sup> /min)	I, CFM (chart)	IC, Y-Axis (corrected)
1	7.90	1.910	59.0	66.46
2	5.70	1.626	54.0	60.83
3	4.90	1.510	51.0	57.45
4	2.30	1.043	43.0	48.44
5	2.00	0.974	40.0	45.06

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

$m = \underline{\underline{22.1113}}$                        $b = \underline{\underline{24.4102}}$                       Corr. Coeff = 0.9966

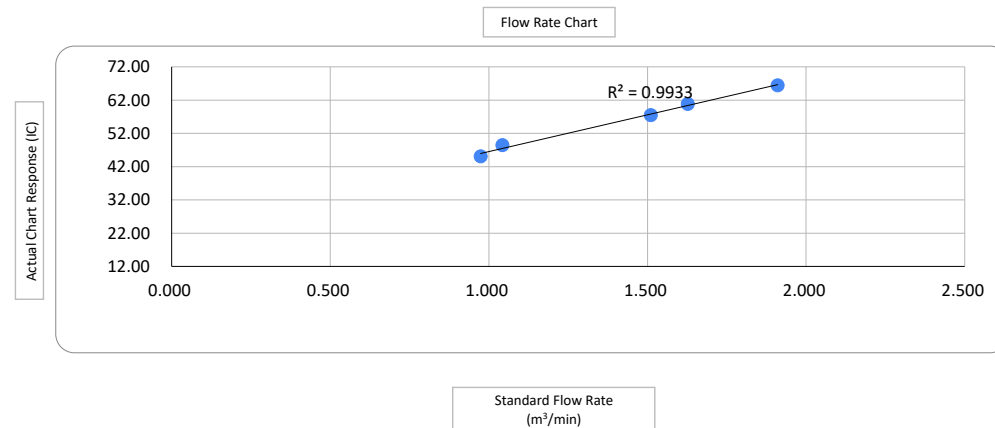
#### Calculations

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

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

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  
 Environmental Team Leader

Date: 04-Jan-2024



# Certificate of Calibration

Calibration Certification Information			
Cal. Date: March 31, 2023	Rootsmeter S/N: 438320	Ta: 294	°K
Operator: Jim Tisch		Pa: 748.54	mm Hg
Calibration Model #: TE-5028A	Calibrator S/N: <b>3702</b>		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.3110	4.1	1.50
2	3	4	1	1.0280	6.7	2.50
3	5	6	1	0.9340	8.1	3.00
4	7	8	1	0.8680	9.4	3.50
5	9	10	1	0.6580	16.2	6.00

Data Tabulation					
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left( \frac{Ta}{Pa} \right)}$ (y-axis)
0.9929	0.7573	1.2237	0.9945	0.7586	0.7676
0.9894	0.9624	1.5798	0.9910	0.9641	0.9909
0.9875	1.0573	1.7306	0.9892	1.0591	1.0855
0.9858	1.1357	1.8693	0.9874	1.1376	1.1725
0.9767	1.4844	2.4474	0.9784	1.4869	1.5351
<b>QSTD</b>	m=	<b>1.68024</b>	<b>QA</b>	m=	<b>1.05214</b>
	b=	<b>-0.04353</b>		b=	<b>-0.02731</b>
	r=	<b>0.99994</b>		r=	<b>0.99994</b>

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

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

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

Noise

# Certificate of Calibration

for

**Description:** Sound Level Meter  
**Manufacturer:** NTi Audio  
**Type No.:** XL2 (Serial No.: A2A-09696-E0)  
**Microphone:** ACO 7052 (Serial No.:68914)  
**Preamplifier:** NTi Audio MA220 (Serial No.:10390)

**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 – 4kHz)  
 Outside

the allowable tolerance.


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

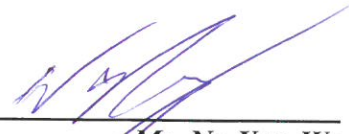
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

**Date of receipt:** 30 March 2023

**Date of calibration:** 04 April 2023

**Date of NEXT calibration:** 03 April 2024

**Calibrated by:**   
Calibration Technician

**Certified by:**   
Mr. Ng Yan Wa  
Laboratory Manager

**Date of issue:** 04 April 2023

**Certificate No.:** APJ22-164-CC002



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### 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: 21.5 °C  
 Air Pressure: 1005 hPa  
 Relative Humidity: 71.4 %

### 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	94.1	±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	94.1	Ref
				104		104.1	±0.3
				114		114.1	±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	94.1	Ref
			Slow			94.1	±0.3

Certificate No.: APJ22-164-CC002



Page 2 of 4

Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB	
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz			
30-130	dB	SPL	Fast	94	31.5	94.3	±2.0
					63	94.3	±1.5
					125	94.3	±1.5
					250	94.2	±1.4
					500	94.2	±1.4
					1000	94.1	Ref
					2000	93.8	±1.6
					4000	93.1	±1.6

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	55.0	-39.4±2.0
					63	68.2	-26.2±1.5
					125	78.2	-16.1±1.5
					250	85.6	-8.6±1.4
					500	91.0	-3.2±1.4
					1000	94.1	Ref
					2000	95.0	+1.2±1.6
					4000	94.1	+1.0±1.6

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	91.3	-3.0±2.0
					63	93.5	-0.8±1.5
					125	94.1	-0.2±1.5
					250	94.2	-0.0±1.4
					500	94.2	-0.0±1.4
					1000	94.1	Ref
					2000	93.6	-0.2±1.6
					4000	92.3	-0.8±1.6



Certificate No.: APJ22-164-CC002

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### 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	± 0.15
	63 Hz	± 0.10
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

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



# Certificate 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



**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.



AI

# 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:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
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



# Calibration Certificate

Certificate No. 300737

Page 2 of 2 Pages

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

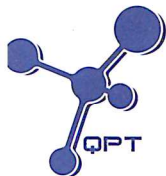
2. Uncertainty : ± (0.9 % + 0.16 m/s) for Velocity, ± 0.1 °C for Temperature, for a confidence probability of not less than 95 %.

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-BC120001  
Date of Issue : 05 December 2023  
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 : HORIBA U-53  
Manufacturer : HORIBA  
Serial Number : PPHNOMXY  
Date of Received : 30 November 2023  
Date of Calibration : 04 December 2023  
Date of Next Calibration : 03 March 2024  
Request No. : D-BC120001

### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H <sup>+</sup> B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure
Salinity	APHA 21c 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21c 2130 B (Nephelometric Method)

### PART D - CALIBRATION RESULT

#### (1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.10	0.10	Satisfactory
7.42	7.44	0.02	Satisfactory
10.01	9.92	-0.09	Satisfactory

Tolerance of pH value should be less than  $\pm 0.2$  (pH unit)

#### (2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
36	36.77	0.77	Satisfactory
25	26.77	1.77	Satisfactory
15	16.26	1.26	Satisfactory

Tolerance of Temperature should be less than  $\pm 2.0$  (°C)

#### (3) Salinity

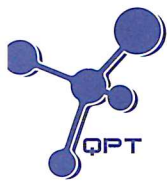
Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.00	0.00	Satisfactory
20	21.07	5.35	Satisfactory
30	32.30	7.67	Satisfactory

Tolerance of Salinity should be less than  $\pm 10.0$  (%)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED  
SIGNATORY:

  
LEE Chun-ning  
Assistant Manager



## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC120001  
Date of Issue : 05 December 2023  
Page No. : 2 of 2

### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
7.99	7.66	-0.33	Satisfactory
5.00	4.68	-0.32	Satisfactory
2.58	2.21	-0.37	Satisfactory
0.10	0.07	-0.03	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

### (5) Turbidity

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance ( % )	Result
0	0.62	--	Satisfactory
10	9.29	-7.1	Satisfactory
20	21.30	6.5	Satisfactory
100	105.00	5.0	Satisfactory
800	850.00	6.3	Satisfactory

Tolerance of Turbidity should be less than  $\pm 10.0$  ( % )

### Remark(s)

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

--- END OF REPORT ---



# Calibration Certificate

Certificate No. **300745**

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 :** Global Flow Probe

**Manufacturer :** Global Water

**Model :** FP111

**I.D. :** --

**Serial No. :** 22K100858

## Test Conditions

**Date of Test :** 27-Mar-23

**Ambient Temperature :** 20°C

**Supply Voltage :** --

**Relative Humidity :** 75%

## 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:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S179	Std. Tape	301321	NIM-PRC
S136A	Stop Watch	201878	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 :**   
Alan Chu

**Date:** 27-Mar-23





# Calibration Certificate

Certificate No. 300745

Page 2 of 2 Pages

Results :

Applied Value (m/s)	UUT Reading (m/s)	Mfr's Spec.
0.78	0.8	$\pm 0.1$ m/s

Remarks : 1. UUT : Unit-Under-Test

2. Uncertainty :  $\pm 1$  %, for a confidence probability of not less than 95%.

----- END -----

# Landfill Gas

# CERTIFICATION OF CALIBRATION



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 <sub>4</sub> )		
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 <sub>2</sub> )		
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 <sub>2</sub> )		
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<sub>4</sub>, CO<sub>2</sub> readings recorded at : 33.2 °C ± 2.5 °C

O<sub>2</sub> 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

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:117 IGC Instance:117

Page 1 of 2 | LP015GIUKAS-2.5

[www.qedenv.com](http://www.qedenv.com) +44 (0) 333 800 0088 [sales@qedenv.co.uk](mailto: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



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

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:117 IGC Instance:117

Page 2 of 2 | LP015GIUKAS-2.5

[www.qedenv.com](http://www.qedenv.com) +44 (0) 333 800 0088 [sales@qedenv.co.uk](mailto: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 ( $\mu\text{g}/\text{m}^3$ ) at Location AM1**

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
4/1/2024	Sibata LD-5R	882106	1.0437	Fine	13:02	14:02	15:02	51	59	50	53	285	500
10/1/2024	Sibata LD-5R	942532	1.1020	Fine	13:05	14:05	15:05	21	26	24	24		
16/1/2024	Sibata LD-5R	882106	1.0437	Fine	9:18	10:18	11:18	29	33	28	30		
22/1/2024	Sibata LD-5R	882106	1.0437	Fine	13:03	14:03	15:03	34	39	32	35		
27/1/2024	Sibata LD-5R	882106	1.04370	Fine	8:12	9:12	10:12	26	27	24	26		
29/1/2024	Sibata LD-5R	882106	1.04370	Fine	13:10	14:10	15:10	30	31	29	30		
<b>Average</b>								<b>33</b>					
<b>Max.</b>								<b>59</b>					
<b>Min.</b>								<b>21</b>					

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

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
4/1/2024	Sibata LD-5R	0Z4545	1.0451	Fine	13:30	14:30	15:30	61	65	60	62	279	500
10/1/2024	Sibata LD-5R	882106	1.0437	Fine	13:15	14:15	15:15	51	56	50	52		
16/1/2024	Sibata LD-5R	0Z4545	1.0451	Fine	9:02	10:02	11:02	41	44	41	42		
22/1/2024	Sibata LD-5R	942532	1.1020	Fine	13:16	14:16	15:16	41	43	40	41		
27/1/2024	Sibata LD-5R	0Z4545	1.04510	Fine	8:26	9:26	10:26	51	54	50	52		
29/1/2024	Sibata LD-5R	0Z4545	1.04510	Fine	13:31	14:31	15:31	52	54	51	52		
<b>Average</b>								<b>50</b>					
<b>Max.</b>								<b>65</b>					
<b>Min.</b>								<b>40</b>					

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

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
4/1/2024	Sibata LD-5R	942532	1.1020	Fine	13:45	14:45	15:45	70	61	69	67	285	500
10/1/2024	Sibata LD-5R	0Z4545	1.0451	Fine	13:25	14:25	15:25	61	63	60	61		
16/1/2024	Sibata LD-5R	942532	1.1020	Fine	9:25	10:25	11:25	51	52	53	52		
22/1/2024	Sibata LD-5R	0Z4545	1.0451	Fine	13:26	14:26	15:26	49	50	48	49		
27/1/2024	Sibata LD-5R	942532	1.10200	Fine	8:40	9:40	10:40	56	60	59	58		
29/1/2024	Sibata LD-5R	942532	1.10200	Fine	13:21	14:21	15:21	62	59	60	60		
<b>Average</b>								<b>58</b>					
<b>Max.</b>								<b>70</b>					
<b>Min.</b>								<b>48</b>					

The Summary of TSP 24-hour Concentration (µg/m<sup>3</sup>) at Location AM1

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Averaged Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level
		(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
4/1/2024	Fine	20.8	1020.6	2386.04	2410.04	1440	37	1.06	1528	2.6844	2.7941	0.1097	72	164	260
10/1/2024	Fine	19.6	1019.3	2412.38	2436.38	1440	40	1.18	1706	2.7209	2.8859	0.1650	97		
16/1/2024	Fine	19.0	1021.3	2438.76	2462.76	1440	39	1.17	1684	2.7017	2.8896	0.1879	112		
22/1/2024	Fine	14.5	1025.9	2465.97	2489.97	1440	39	1.17	1682	2.6986	2.8272	0.1286	76		
27/1/2024	Fine	19.9	1021.3	2493.61	2517.61	1440	40	1.21	1739	2.7587	2.8805	0.1218	70		
29/1/2024	Fine	17.8	1020.9	2521.17	2545.17	1440	39	1.17	1688	2.6718	2.7988	0.1270	75		
												Average	84		
												Min	70		
												Max	112		

The Summary of 24-hour TSP Concentration (µg/m<sup>3</sup>) at Location AM2

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level
		(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
4/1/2024	Fine	20.8	1020.6	1928.36	1952.36	1440	41	0.78	1119	2.6746	2.7979	0.1233	110	152	260
10/1/2024	Fine	19.6	1019.3	1954.89	1978.89	1440	41	0.76	1088	2.7209	2.8249	0.1040	96		
16/1/2024	Fine	19.0	1021.3	1981.03	2005.03	1440	40	0.72	1030	2.7069	2.8158	0.1089	106		
22/1/2024	Fine	14.5	1025.9	2008.57	2032.57	1440	40	0.76	1096	2.7227	2.8146	0.0919	84		
27/1/2024	Fine	19.9	1021.3	2036.25	2060.25	1440	42	0.80	1158	2.7611	2.8805	0.1194	103		
29/1/2024	Fine	17.8	1020.9	2064.23	2088.23	1440	39	0.70	1001	2.7611	2.8804	0.1193	119		
												Average	103		
												Min	84		
												Max	119		

The Summary of 24-hour TSP Concentration (µg/m<sup>3</sup>) at Location AM3

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level
		(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
4/1/2024	Fine	20.8	1020.6	2931.94	2955.94	1440	42	1.19	1712	2.6807	2.8662	0.1855	108	163	260
10/1/2024	Fine	19.6	1019.3	2959.55	2983.55	1440	41	1.17	1689	2.7169	2.9059	0.1890	112		
16/1/2024	Fine	19.0	1021.3	2987.19	3011.19	1440	41	1.18	1695	2.6674	2.8346	0.1672	99		
22/1/2024	Fine	14.5	1025.9	3014.64	3038.64	1440	42	1.23	1770	2.7237	2.9352	0.2115	119		
27/1/2024	Fine	19.9	1021.3	3042.22	3066.22	1440	39	1.11	1593	2.7723	2.8991	0.1268	80		
29/1/2024	Fine	17.8	1020.9	3070.09	3094.09	1440	42	1.21	1748	2.7650	2.9563	0.1913	109		
												Average	105		
												Min	80		
												Max	119		

- 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
4/1/2024	Fine	2.1	14:06	14:36	57.6	61.2	62.6	63.9	64.1	65.2	63.0	58.6	63.2	64.1	64.9	65.4	66.3	56.1	60.3	60.2	60.3	61.2	64.1
10/1/2024	Fine	1.7	10:51	11:21	61.2	59.3	62.4	63.1	62.2	64.2	62.3	63.1	61.4	63.6	65.4	63.6	65.4	58.9	57.6	60.3	62.2	60.3	62.1
16/1/2024	Fine	1.7	8:15	8:45	62.9	63.2	62.6	63.2	64.5	62.4	63.2	63.6	64.2	64.6	64.2	65.5	64.1	61.2	62.1	62.3	61.4	62.2	61.4
22/1/2024	Fine	2.6	13:10	13:40	61.2	60.3	59.4	58.6	58.1	59.3	59.6	62.6	62.4	61.2	60.2	60.1	61.4	60.2	59.4	58.1	57.6	57.8	58.1
29/1/2024	Fine	1.2	13:06	13:36	60.2	61.3	61.9	62.6	62.1	61.9	61.7	62.6	63.2	63.9	64.5	63.6	63.6	58.2	59.2	59.3	60.2	60.4	60.3
<b>Average</b>											62.2												
<b>Baseline Level</b>											55.4												
<b>Action Level</b>											When one valid documented complaint is received												
<b>Limit Level</b>											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
4/1/2024	Fine	2.6	11:30	12:00	51.2	52.4	51.4	52.5	54.3	56.1	53.4	53.2	54.1	53.2	54.1	55.4	57.2	50.2	51.5	50.3	50.9	52.1	53.2
10/1/2024	Fine	1.9	13:03	13:33	51.3	50.4	57.3	53.4	53.1	56.4	54.4	53.6	52.4	53.6	54.9	54.6	57.3	50.1	49.1	50.4	52.1	51.9	53.1
16/1/2024	Fine	1.9	14:00	14:30	51.2	52.3	52.4	53.4	54.2	55.2	53.3	53.2	53.6	53.6	54.6	56.3	56.4	50.2	51.2	51.4	51.6	52.2	53.2
22/1/2024	Fine	2.1	10:30	11:00	54.3	55.1	54.4	55.6	55.9	56.1	55.3	56.2	60.3	59.2	59.3	59.4	57.2	52.1	52.4	52.6	52.8	53.1	52.1
29/1/2024	Fine	1.7	10:00	10:30	54.2	53.6	53.2	52.6	53.1	54.1	53.5	56.4	55.4	55.6	54.5	56.2	55.6	52.1	51.6	51.2	50.2	51.6	51.2
<b>Average</b>											54.0												
<b>Baseline Level</b>											54.5												
<b>Action Level</b>											When one valid documented complaint is received												
<b>Limit Level</b>											75												

# Water Quality

Monitoring Location: WM1

Date	Time	Weather	Water Depth (m)	Water Flow (L/s)	Water Temperature (°C)	DO (mg/L)			pH			Turbidity (NTU)			SS (mg/L)		
						Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level
4-Jan-24	13:12	Sunny	0.3	0.1	17.5	7.7	<7.4	<4	7.5	>7.7	>7.8	6.0	>9.2	>9.5	8.2	>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
4-Jan-24	8:12	Sunny	0.20	0.2	19.2	7.8	<5	<4	7.5	>7.6	>7.7	18.5	>108.3	>108.9	14.7	>94.5	>94.7

Remarks

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






### CERTIFICATE OF ANALYSIS

Client	: ACUMEN LABORATORY AND TESTING LIMITED	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 9
Contact	: HUNTINGTON HUI	Contact	: Richard Fung	Work Order	: HK2400778
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		
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Telephone	: ---	Telephone	: +852 2610 1044		
Facsimile	: ---	Facsimile	: +852 2610 2021		
Project	: NENTX			Date Samples Received	: 04-Jan-2024
Order number	: ---	Quote	: HKE/2751/2022_V3	Issue Date	: 18-Jan-2024
		number			
C-O-C number	: ---			No. of samples received	: 2
Site	:			No. of samples analysed	: 2

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

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



## General Comments

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

Testing period is from 04-Jan-2024 to 16-Jan-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: HK2400778

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 13:25.

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.

EA002 - pH value is reported as at 25°C. Calibration range of pH value is 4.0 - 10.0. Results exceeding this range is for reference only.

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	WM2	---	---	---
				Sampling date / time	04-Jan-2024	04-Jan-2024	---	---	---
Compound	CAS Number	LOR	Unit	HK2400778-001	HK2400778-002	-----	-----	-----	
<b>EA/ED: Physical and Aggregate Properties</b>									
EA002: pH Value	----	0.1	pH Unit	6.6	7.3	---	---	---	
EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	59	214	---	---	---	
EA025: Suspended Solids (SS)	----	0.1	mg/L	8.2	14.7	---	---	---	
ED037: Total Alkalinity as CaCO3	----	1	mg/L	16	56	---	---	---	
<b>ED/EK: Inorganic Nonmetallic Parameters</b>									
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	4	24	---	---	---	
ED045K: Chloride	16887-00-6	0.5	mg/L	6	15	---	---	---	
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	0.02	0.23	---	---	---	
EK058A: Nitrate as N	14797-55-8	0.01	mg/L	0.03	0.22	---	---	---	
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.3	0.5	---	---	---	
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.01	<0.01	---	---	---	
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	---	---	---	
<b>EP: Aggregate Organics</b>									
EP005: Total Organic Carbon	----	1	mg/L	<1	1	---	---	---	
EP020: Oil & Grease	----	5	mg/L	<5	<5	---	---	---	
EP026C: Chemical Oxygen Demand	----	5	mg/L	6	7	---	---	---	
EP030: Biochemical Oxygen Demand	----	2	mg/L	<2	<2	---	---	---	
<b>EG: Metals and Major Cations - Total</b>									
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	---	---	---	
EG020: Copper	7440-50-8	1	µg/L	<1	2	---	---	---	
EG020: Lead	7439-92-1	1	µg/L	<1	1	---	---	---	
EG020: Manganese	7439-96-5	1	µg/L	52	836	---	---	---	
EG020: Nickel	7440-02-0	1	µg/L	<1	5	---	---	---	
EG020: Zinc	7440-66-6	10	µg/L	<10	18	---	---	---	
EG032: Calcium	7440-70-2	50	µg/L	3130	27400	---	---	---	
EG032: Iron	7439-89-6	10	µg/L	900	1920	---	---	---	
EG032: Magnesium	7439-95-4	50	µg/L	450	1600	---	---	---	
EG032: Potassium	7440-09-7	50	µg/L	400	3840	---	---	---	
EG032: Sodium	7440-23-5	50	µg/L	8060	8850	---	---	---	



Sub-Matrix: WATER				Sample ID	WM1	WM2	---	---	---
				Sampling date / time	04-Jan-2024	04-Jan-2024	---	---	---
Compound	CAS Number	LOR	Unit	HK2400778-001	HK2400778-002	-----	-----	-----	
<b>EM: Microbiological Testing</b>									
EM002: E. coli	----	1	CFU/100mL	1100	8000	---	---	---	
EM003: Total Coliforms	----	1	CFU/100mL	1400	12000	---	---	---	





### 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 (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5529247)</b>								
HK2400673-015	Anonymous	ED037: Total Alkalinity as CaCO3	----	1	mg/L	<1	<1	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5529250)</b>								
HK2400550-001	Anonymous	EA002: pH Value	----	0.1	pH Unit	8.0	7.9	0.0
HK2400673-015	Anonymous	EA002: pH Value	----	0.1	pH Unit	5.5	5.6	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5529251)</b>								
HK2400778-001	WM1	EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	59	59	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5530150)</b>								
HK2400586-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	26.8	26.2	2.3
HK2400778-002	WM2	EA025: Suspended Solids (SS)	----	0.5	mg/L	14.7	15.6	5.6
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5529312)</b>								
HK2400778-001	WM1	EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.01	0.01	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5529314)</b>								
HK2400862-001	Anonymous	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	24.5	24.4	0.2
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5531149)</b>								
HK2400673-015	Anonymous	ED045K: Chloride	16887-00-6	1	mg/L	<1	<1	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5531150)</b>								
HK2400673-015	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<5	<5	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5536061)</b>								
HK2400778-001	WM1	EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.3	0.2	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5541525)</b>								
HK2400778-001	WM1	EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	0.0
<b>EP: Aggregate Organics (QC Lot: 5535165)</b>								
HK2400888-005	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	<1	<1	0.0
<b>EP: Aggregate Organics (QC Lot: 5535232)</b>								
HK2400904-001	Anonymous	EP026C: Chemical Oxygen Demand	----	5	mg/L	<5	<5	0.0
<b>EG: Metals and Major Cations - Total (QC Lot: 5529099)</b>								
HK2400778-002	WM2	EG032: Iron	7439-89-6	10	µg/L	1920	1930	0.8
		EG032: Calcium	7440-70-2	50	µg/L	27400	27800	1.3



Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EG: Metals and Major Cations - Total (QC Lot: 5529099) - Continued</b>								
HK2400778-002	WM2	EG032: Magnesium	7439-95-4	50	µg/L	1600	1610	0.9
		EG032: Potassium	7440-09-7	50	µg/L	3840	3840	0.0
		EG032: Sodium	7440-23-5	50	µg/L	8850	8800	0.5
<b>EG: Metals and Major Cations - Total (QC Lot: 5529100)</b>								
HK2400778-002	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	1	1	0.0
		EG020: Manganese	7439-96-5	1	µg/L	836	864	3.3
		EG020: Nickel	7440-02-0	1	µg/L	5	5	0.0
		EG020: Zinc	7440-66-6	10	µg/L	18	17	0.0

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

Matrix: WATER				Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
						LCS	DCS	Low	High	Value	Control Limit
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5529247)</b>											
ED037: Total Alkalinity as CaCO3	----	1	mg/L	<1	50 mg/L	104	----	95.0	105	----	----
				<1	2000 mg/L	100	----	95.0	105	----	----
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5529251)</b>											
EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	<1	146.9 µS/cm	100	----	93.5	106	----	----
				<1	1412 µS/cm	98.0	----	94.3	105	----	----
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5530150)</b>											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	10 mg/L	94.0	----	86.6	113	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5529312)</b>											
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	96.5	----	92.4	106	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5529314)</b>											
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	103	----	89.3	109	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5531149)</b>											
ED045K: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	97.1	----	88.2	108	----	----



Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
		LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
Method: Compound	CAS Number					LCS	DCS	Low	High	Value	Control Limit
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5531150)</b>											
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<1	5 mg/L	102	----	91.4	109	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5536061)</b>											
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	0.5 mg/L	93.2	----	89.0	120	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5541525)</b>											
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	----	----	----	----	----	----	----
<b>EP: Aggregate Organics (QC Lot: 5527970)</b>											
EP030: Biochemical Oxygen Demand	----	----	mg/L	----	198 mg/L	92.5	----	77.6	118	----	----
<b>EP: Aggregate Organics (QC Lot: 5535165)</b>											
EP005: Total Organic Carbon	----	1	mg/L	<1	5 mg/L	110	----	87.3	120	----	----
				<1	100 mg/L	104	----	88.8	120	----	----
<b>EP: Aggregate Organics (QC Lot: 5535232)</b>											
EP026C: Chemical Oxygen Demand	----	----	mg/L	----	25 mg/L	101	----	92.0	108	----	----
				----	250 mg/L	99.6	----	92.3	106	----	----
<b>EP: Aggregate Organics (QC Lot: 5540325)</b>											
EP020: Oil & Grease	----	2	mg/L	<2	20 mg/L	94.2	----	81.7	105	----	----
<b>EG: Metals and Major Cations - Total (QC Lot: 5529099)</b>											
EG032: Calcium	7440-70-2	50	µg/L	<50	2000 µg/L	99.2	----	85.0	115	----	----
EG032: Iron	7439-89-6	10	µg/L	<10	2000 µg/L	107	----	85.0	115	----	----
EG032: Magnesium	7439-95-4	50	µg/L	<50	2000 µg/L	105	----	85.0	115	----	----
EG032: Potassium	7440-09-7	50	µg/L	<50	2000 µg/L	96.6	----	85.0	115	----	----
EG032: Sodium	7440-23-5	50	µg/L	<50	2000 µg/L	109	----	85.0	115	----	----
<b>EG: Metals and Major Cations - Total (QC Lot: 5529100)</b>											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	5 µg/L	104	----	85.0	109	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	50 µg/L	106	----	90.0	111	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	50 µg/L	104	----	89.0	111	----	----
EG020: Manganese	7439-96-5	1	µg/L	<1	50 µg/L	109	----	85.0	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	50 µg/L	94.8	----	87.0	110	----	----
EG020: Zinc	7440-66-6	10	µg/L	<10	50 µg/L	104	----	86.0	114	----	----



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

Matrix: WATER					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5529312)										
HK2400778-001	WM1	EK071K: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	106	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5529314)										
HK2400862-001	Anonymous	EK055K: Ammonia as N	7664-41-7	50 mg/L	102	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5531149)										
HK2400673-015	Anonymous	ED045K: Chloride	16887-00-6	5 mg/L	86.8	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5531150)										
HK2400673-015	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric	----	5 mg/L	109	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5536061)										
HK2400778-001	WM1	EK061A: Total Kjeldahl Nitrogen as N	----	0.5 mg/L	78.8	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5535165)										
HK2400888-005	Anonymous	EP005: Total Organic Carbon	----	5 mg/L	106	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5535232)										
HK2400902-001	Anonymous	EP026C: Chemical Oxygen Demand	----	10 mg/L	100	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5529099)										
HK2400778-001	WM1	EG032: Calcium	7440-70-2	2000 µg/L	97.7	----	75.0	125	----	----
		EG032: Iron	7439-89-6	2000 µg/L	110	----	75.0	125	----	----
		EG032: Magnesium	7439-95-4	2000 µg/L	107	----	75.0	125	----	----
		EG032: Potassium	7440-09-7	2000 µg/L	96.7	----	75.0	125	----	----
		EG032: Sodium	7440-23-5	2000 µg/L	# Not Determined	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5529100)										
HK2400778-001	WM1	EG020: Cadmium	7440-43-9	5 µg/L	107	----	75.0	125	----	----
		EG020: Copper	7440-50-8	50 µg/L	97.0	----	75.0	125	----	----
		EG020: Lead	7439-92-1	50 µg/L	98.8	----	75.0	125	----	----
		EG020: Manganese	7439-96-5	50 µg/L	104	----	75.0	125	----	----



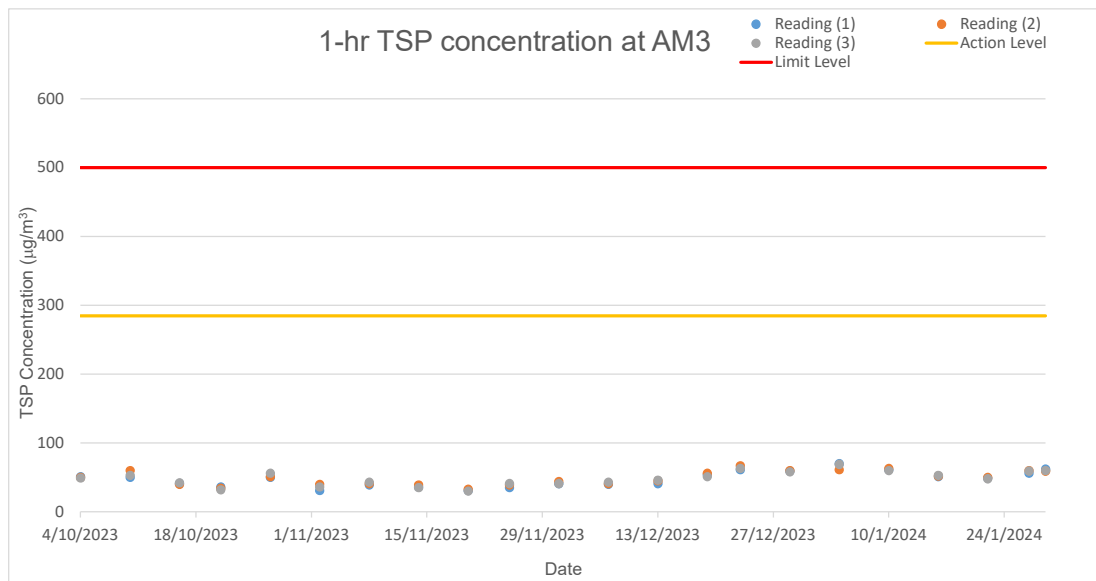
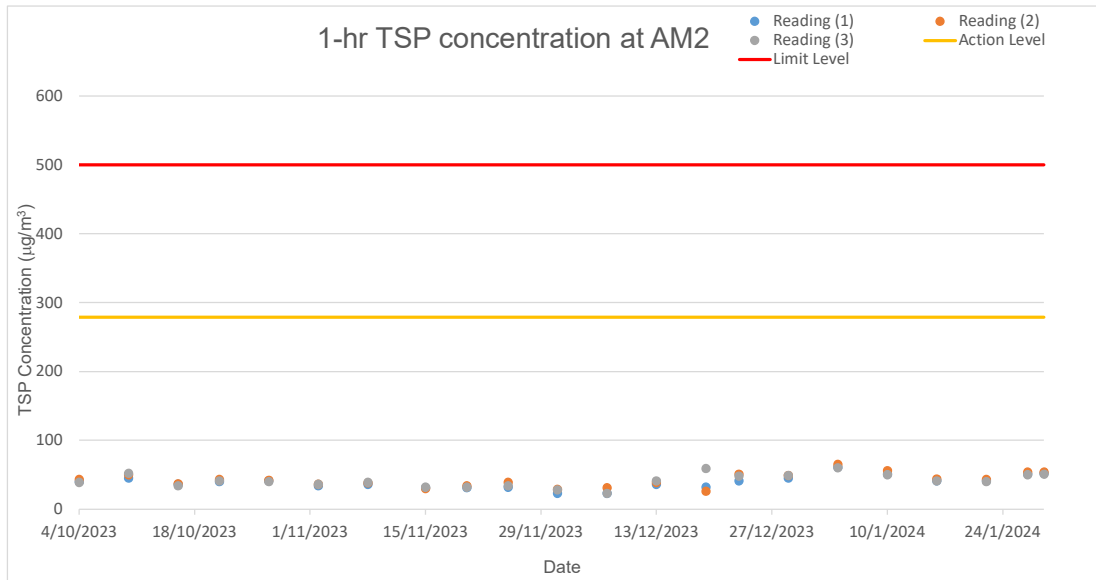
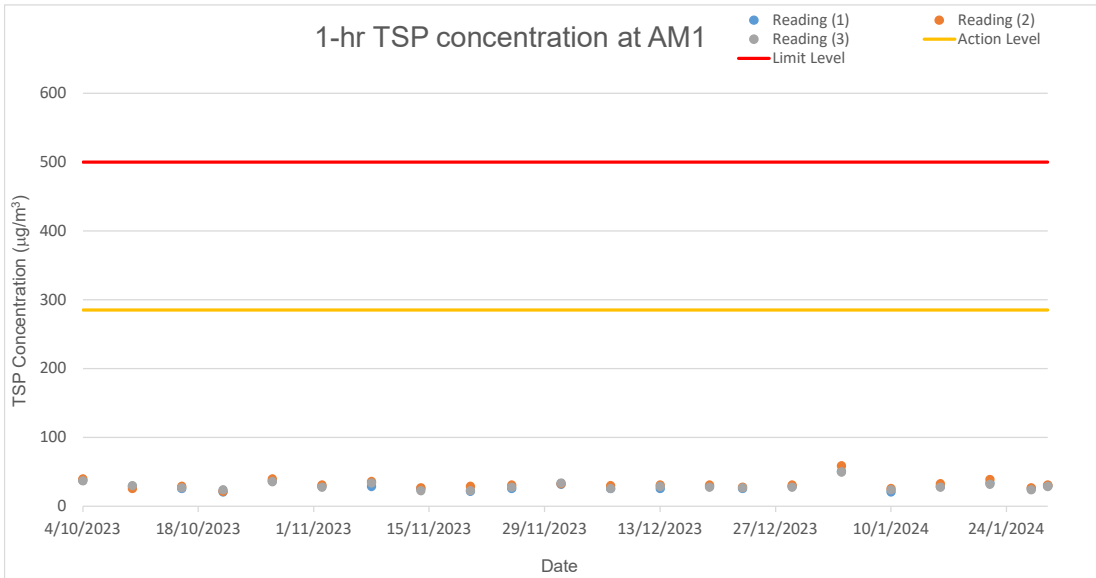
Matrix: WATER

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

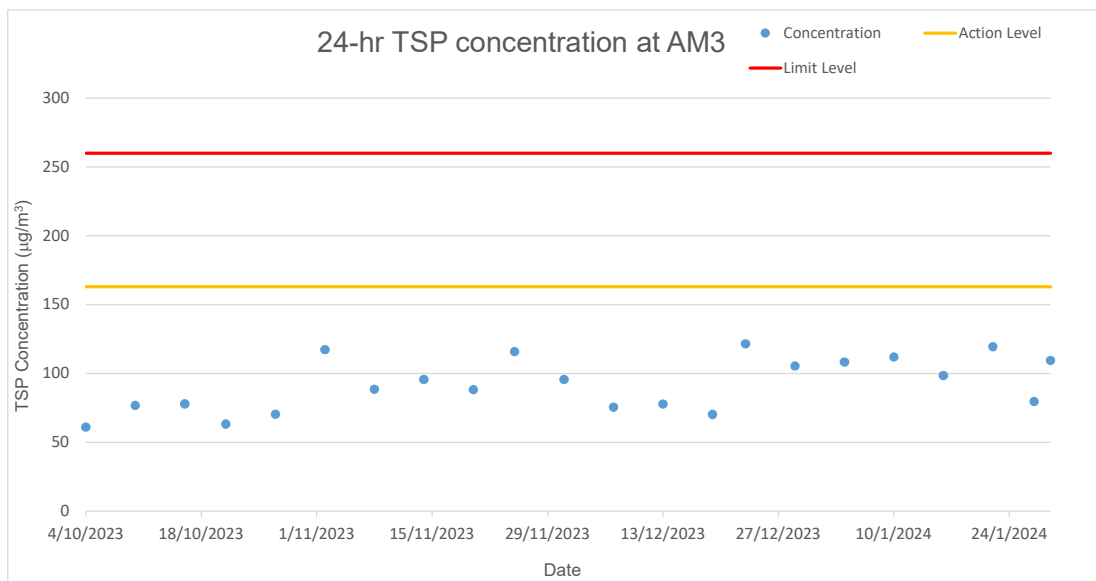
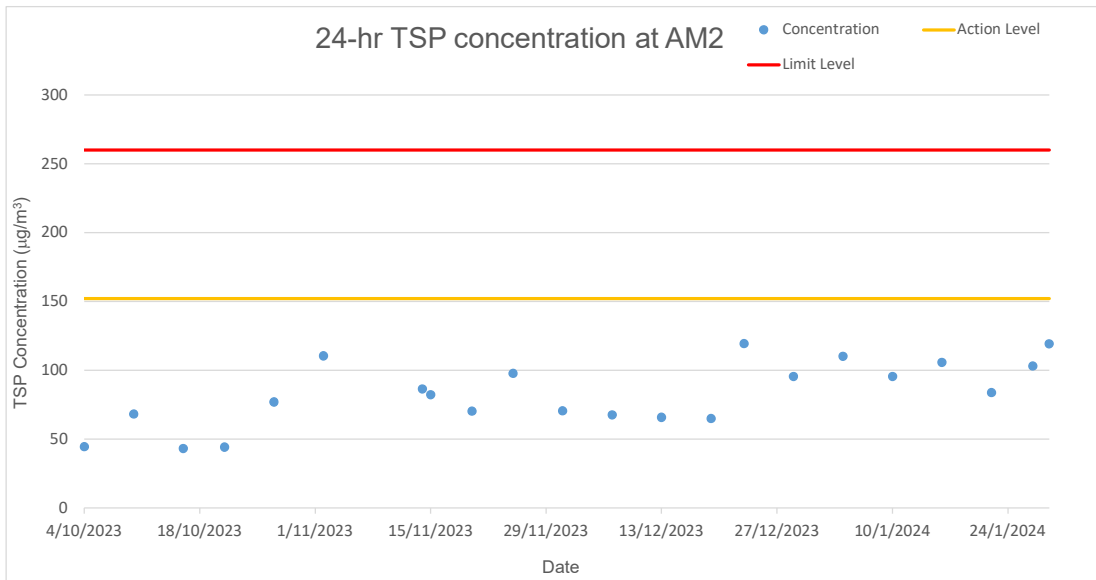
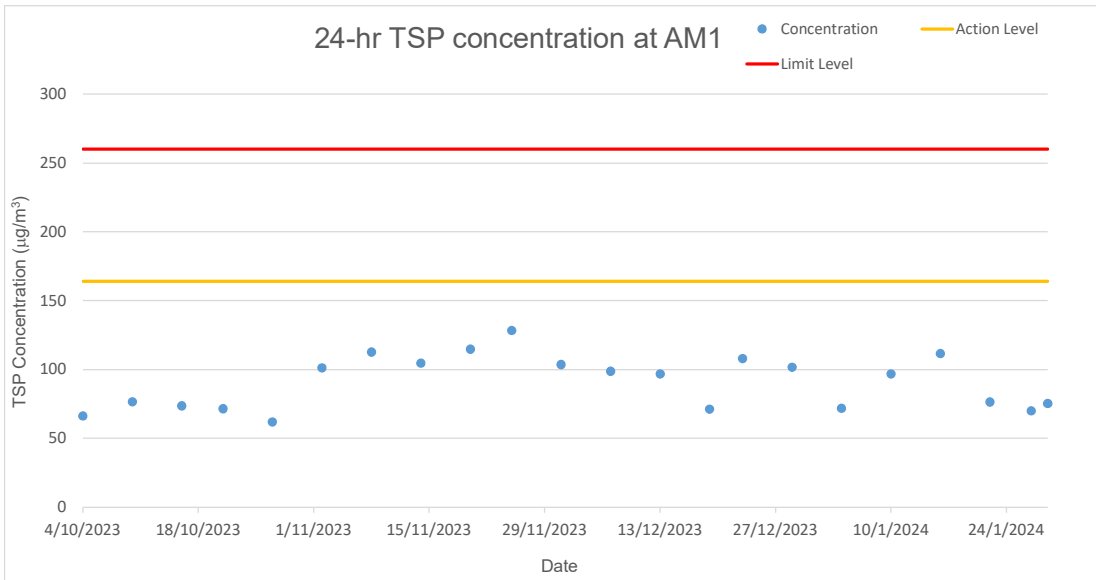
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
<b>EG: Metals and Major Cations - Total (QC Lot: 5529100) - Continued</b>										
HK2400778-001	WM1	EG020: Nickel	7440-02-0	50 µg/L	92.1	----	75.0	125	----	----
		EG020: Zinc	7440-66-6	50 µg/L	99.2	----	75.0	125	----	----

## Appendix G Graphical Presentations

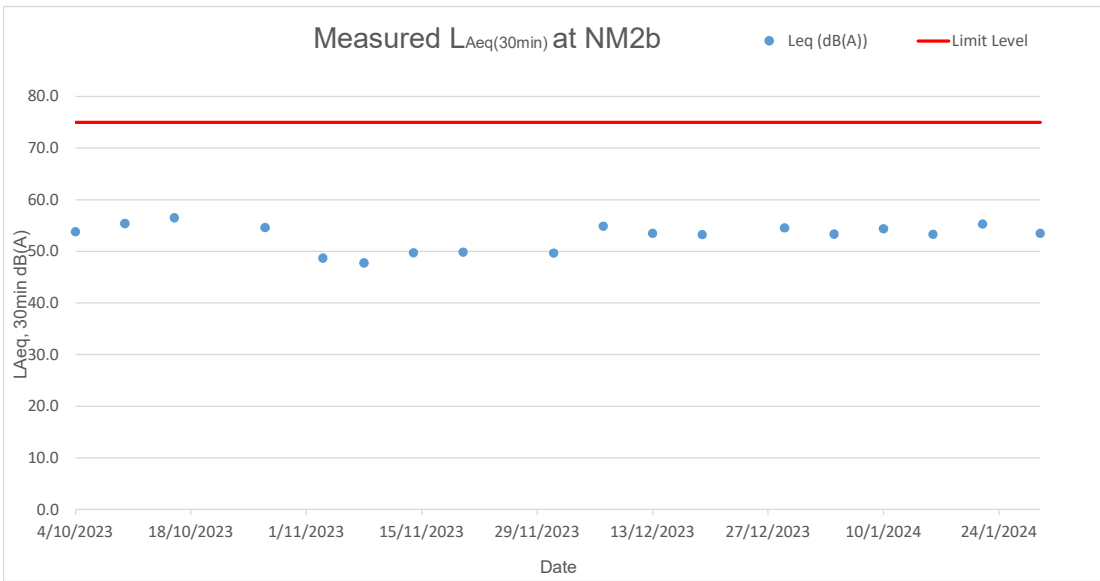
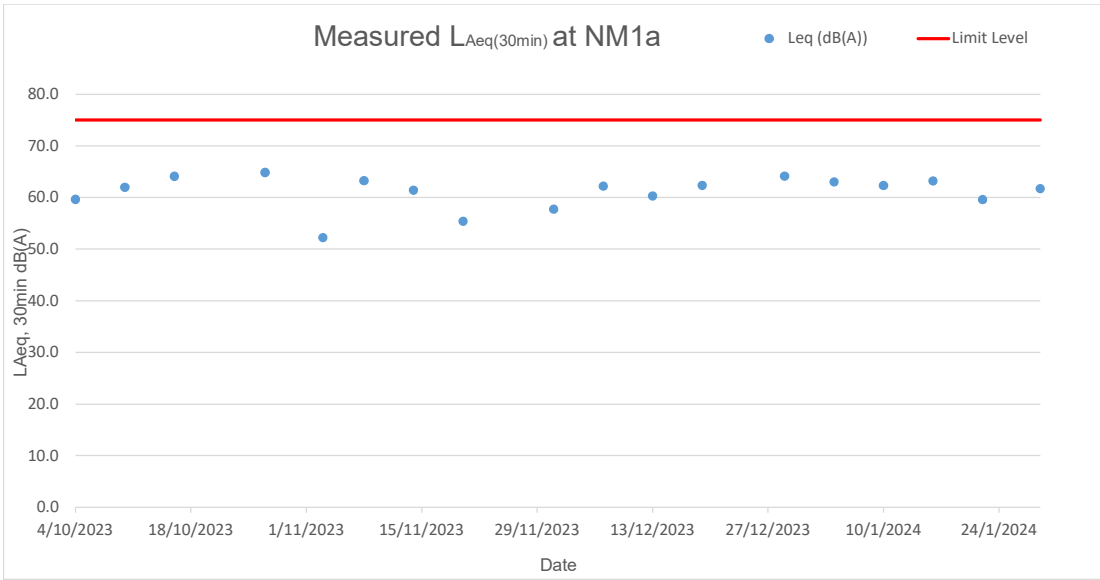
# Air Quality





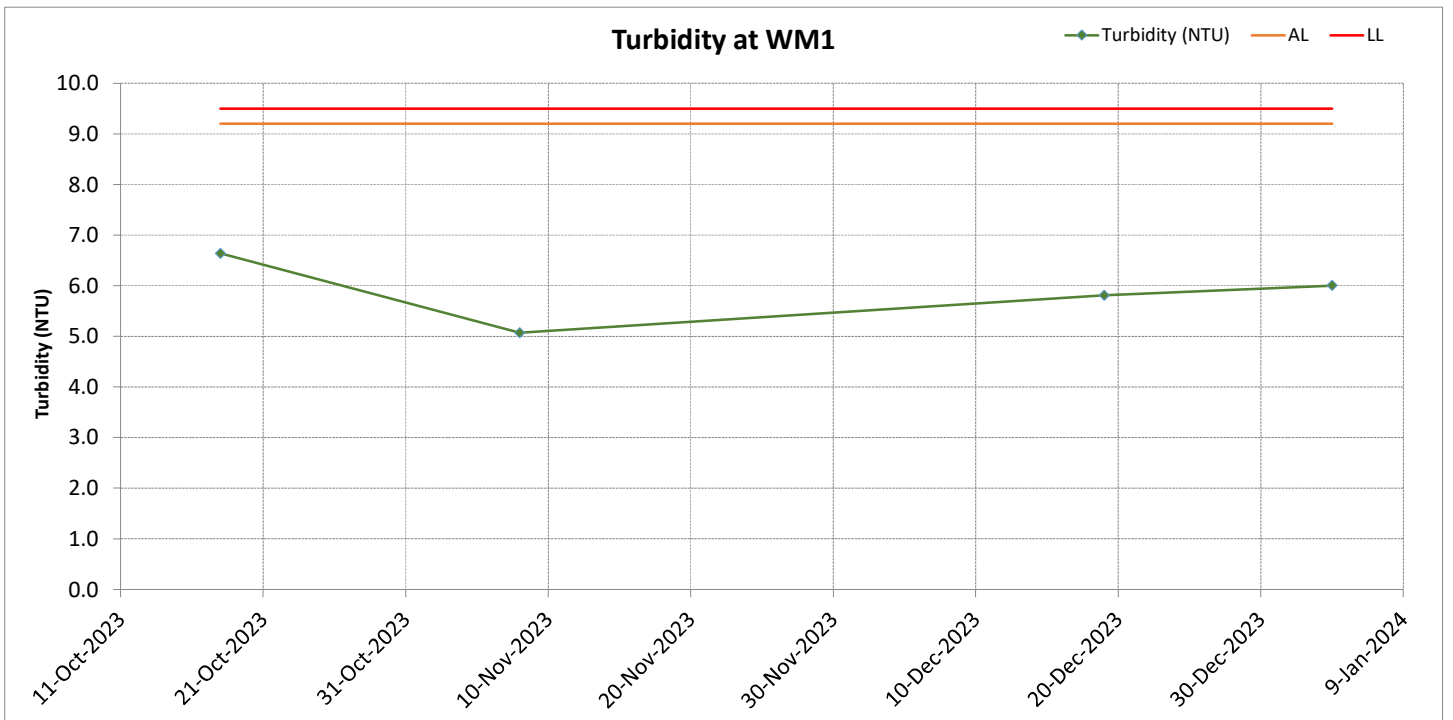
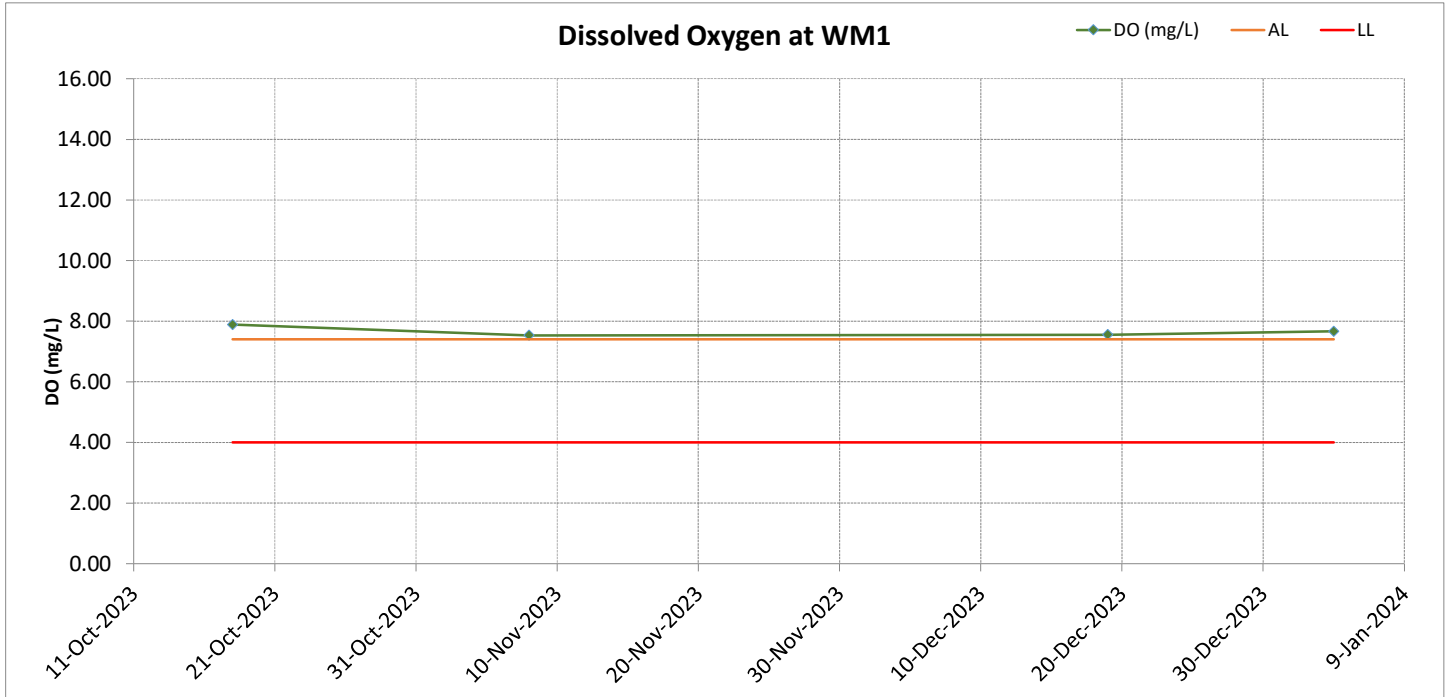


# Noise

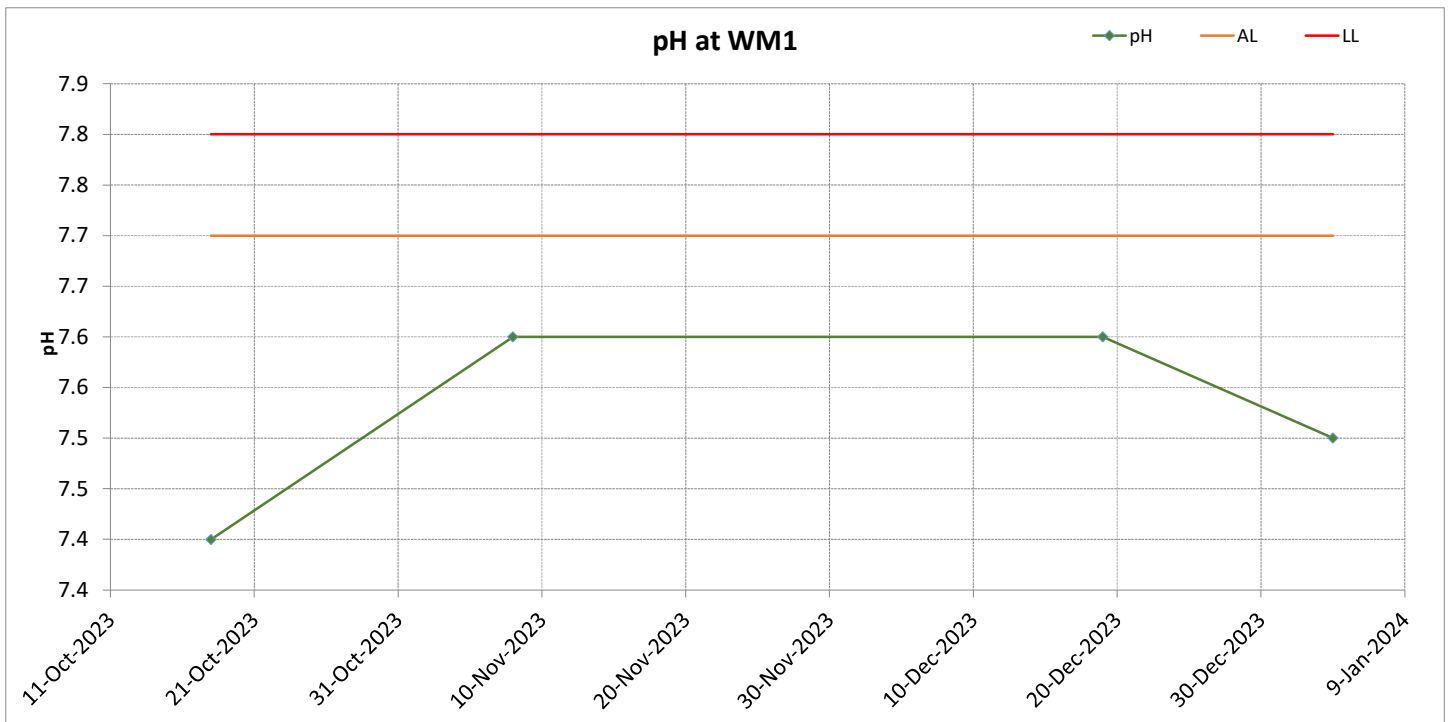
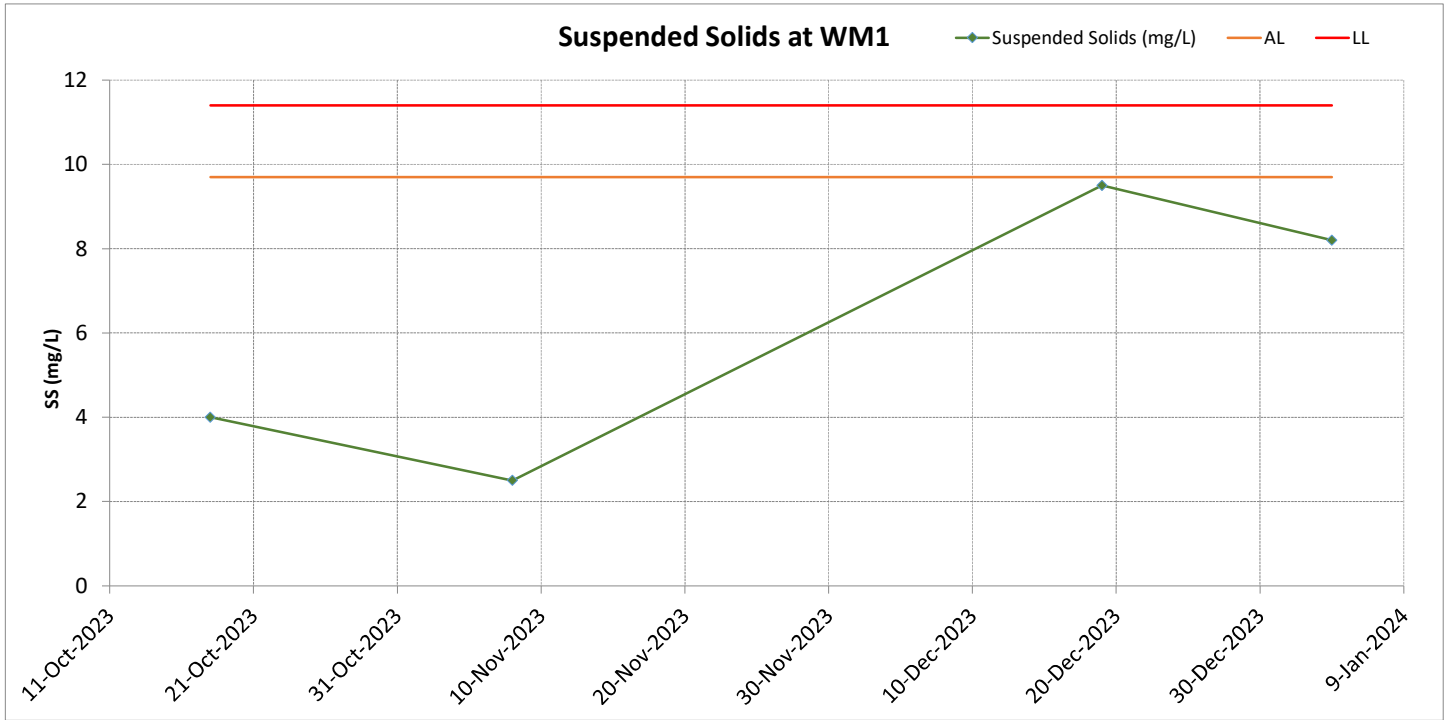


# Water Quality

# Surface Water Monitoring Results at WM1

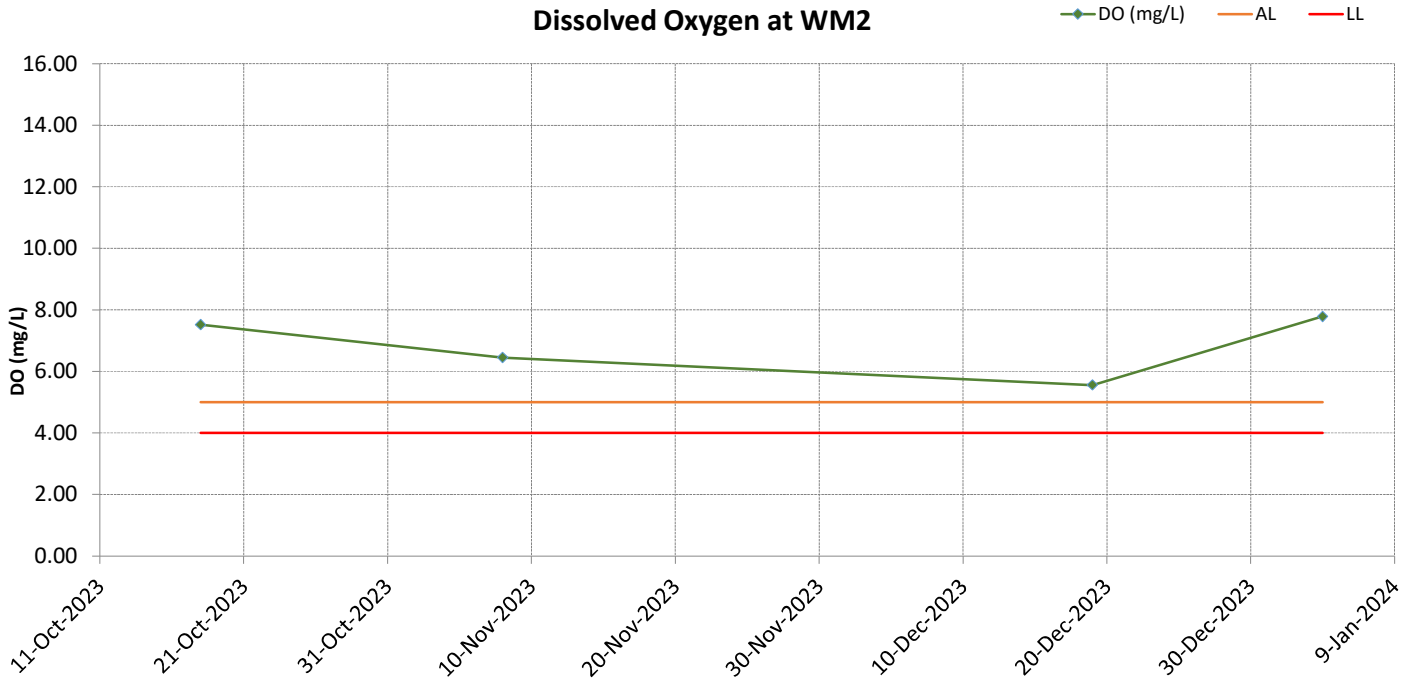


# Surface Water Monitoring Results at WM1

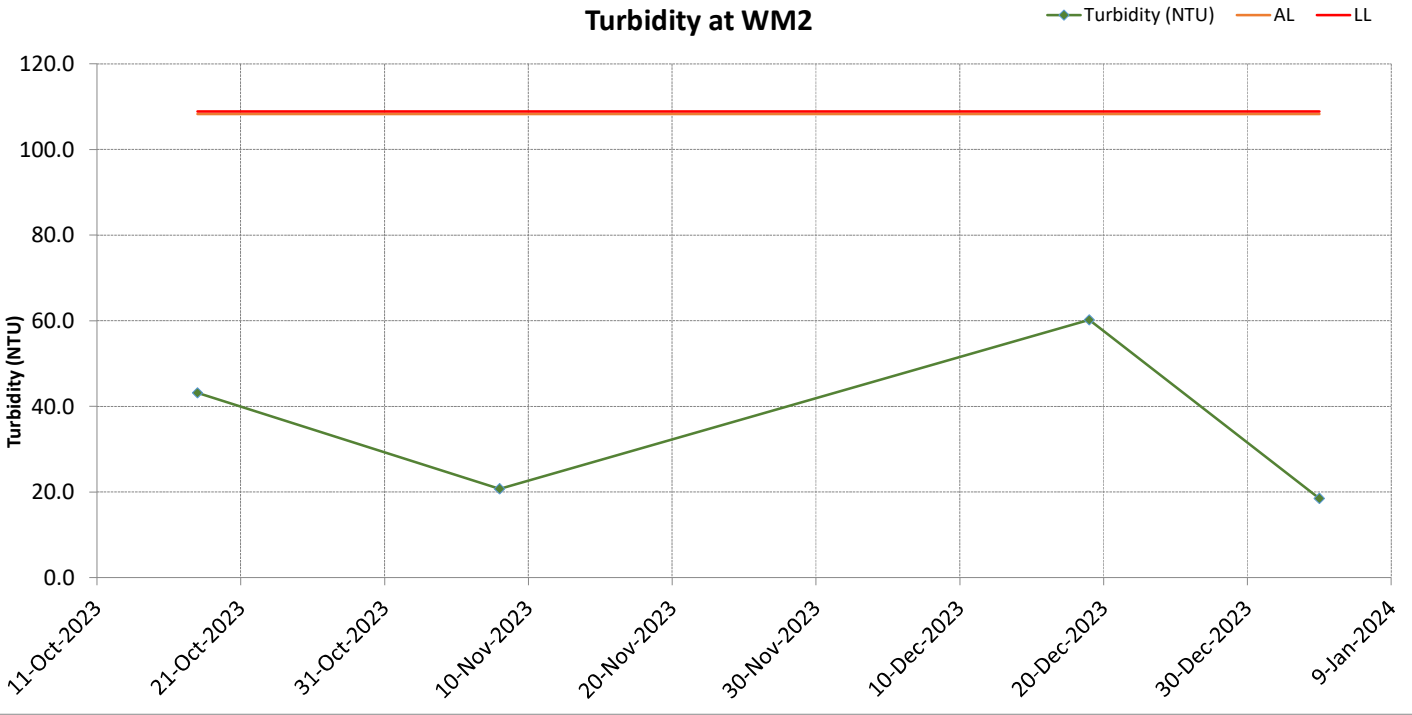


# Surface Water Monitoring Results at WM2

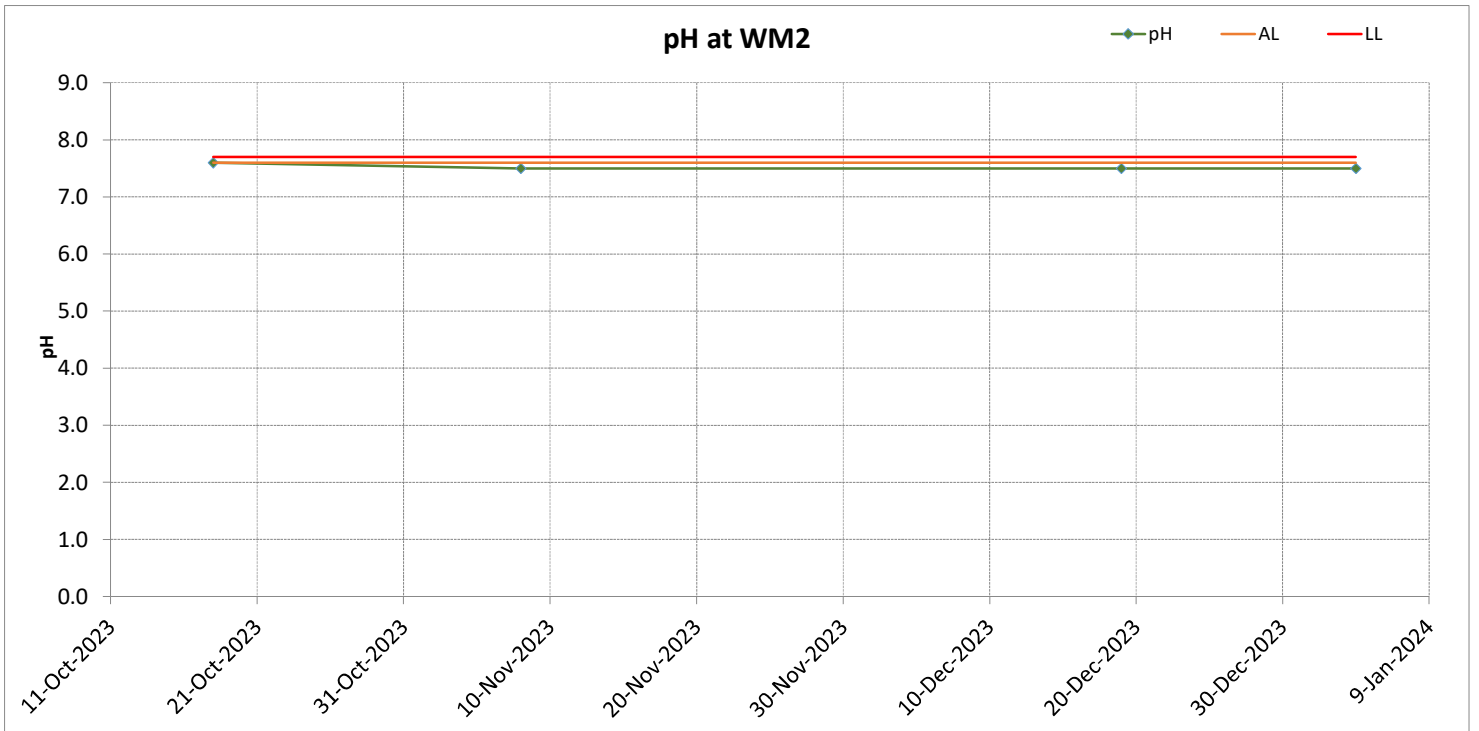
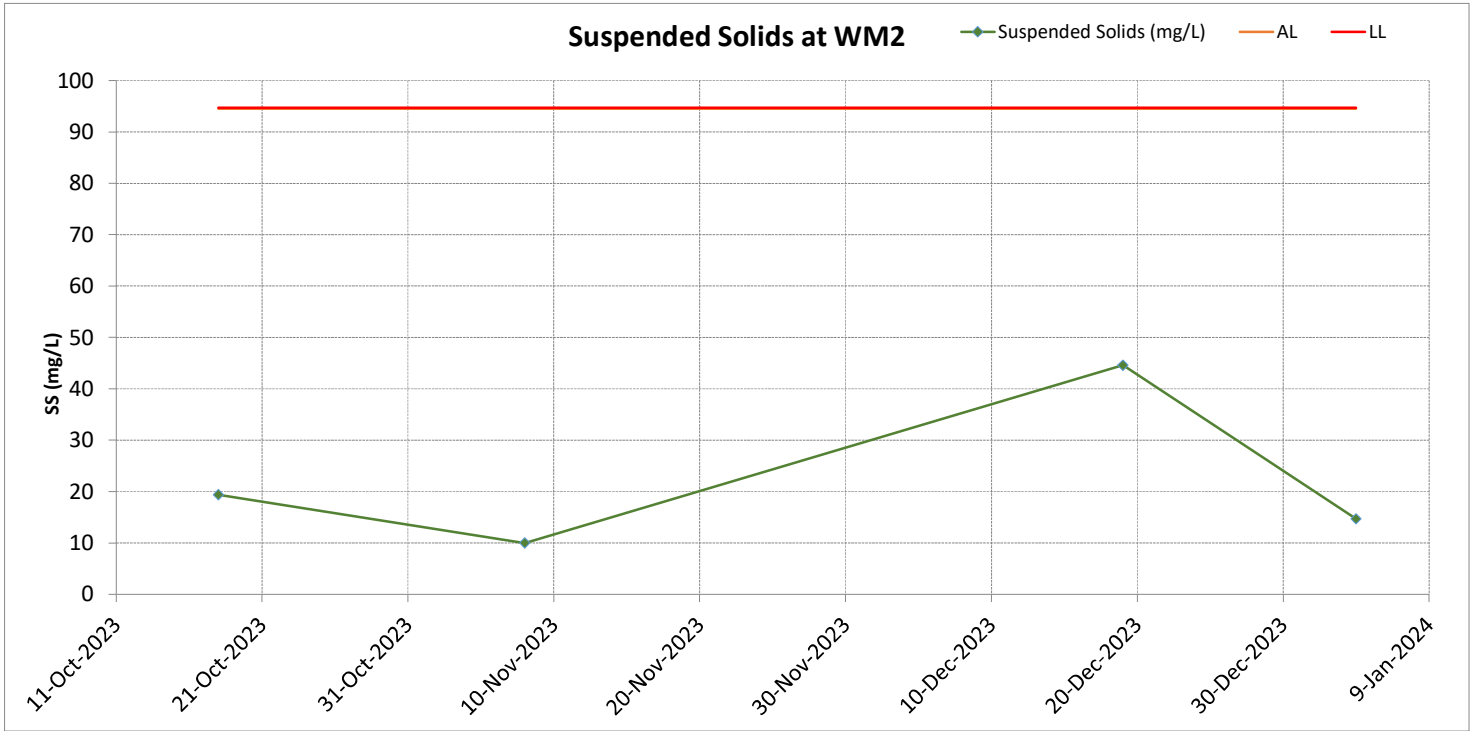
## Dissolved Oxygen at WM2



## Turbidity at WM2



# Surface Water Monitoring Results at WM2





# Appendix H Notification of Environmental Quality Limits Exceedance

## Notification of Environmental Quality Limits Exceedance

### Air Quality Monitoring - Construction Dust

Dust Monitoring Station	Level Exceedance	1-hr TSP Exceedance Count				24-hr TSP Exceedance Count			
		Reporting period		Accumulate project to date		Reporting period		Accumulate project to date	
		Project related	Non-project related	Project related	Non-project related	Project related	Non-project related	Project related	Non-project related
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



# Appendix I Wind Data

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240101 0003	2.4	40
20240101 0013	1.7	10
20240101 0023	0.2	342
20240101 0033	1.2	132
20240101 0043	0.2	86
20240101 0053	0.1	197
20240101 0103	7.7	111
20240101 0113	0.2	334
20240101 0123	0.1	333
20240101 0133	2.9	336
20240101 0143	3	45
20240101 0153	1.5	348
20240101 0203	0.1	314
20240101 0213	0.6	7
20240101 0223	0.2	138
20240101 0233	1.9	315
20240101 0243	0.1	8
20240101 0253	0.1	26
20240101 0303	0.1	72
20240101 0313	0.1	17
20240101 0323	1	17
20240101 0333	0.1	319
20240101 0343	0.1	53
20240101 0353	0.1	274
20240101 0403	0.1	78
20240101 0413	0.1	228
20240101 0423	0.1	71
20240101 0433	0.6	96
20240101 0443	0.3	54
20240101 0453	0.1	54
20240101 0503	0.1	64
20240101 0513	0.1	310
20240101 0523	0.2	26
20240101 0533	4.9	0
20240101 0543	0.1	108
20240101 0553	0.2	348
20240101 0603	1.6	355
20240101 0613	1	31
20240101 0623	0.1	101
20240101 0633	0.1	103
20240101 0643	0.1	110
20240101 0653	0.1	352
20240101 0703	0.1	33
20240101 0713	0.1	223
20240101 0723	0.1	76
20240101 0733	0.4	86
20240101 0743	0.1	135
20240101 0753	0.1	155
20240101 0803	0.8	150
20240101 0813	0.2	0
20240101 0823	0.1	330
20240101 0833	0.1	177
20240101 0843	0.1	346
20240101 0853	0.1	107
20240101 0903	0.2	47
20240101 0913	3.5	104
20240101 0923	0.3	105
20240101 0933	0.1	156
20240101 0943	0.3	163
20240101 0953	0.2	102
20240101 1003	0.1	142
20240101 1013	0.1	286
20240101 1023	1.1	153
20240101 1033	2.8	147
20240101 1043	1.5	109
20240101 1053	0.1	29
20240101 1103	1.1	5
20240101 1113	0.1	93
20240101 1123	0.1	46
20240101 1133	1.6	188
20240101 1143	0.4	124
20240101 1153	2.6	113

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240101 1203	0.8	118
20240101 1213	0.1	23
20240101 1223	1.5	180
20240101 1233	2.5	104
20240101 1243	0.8	289
20240101 1253	1.2	337
20240101 1303	4.2	125
20240101 1313	1.2	348
20240101 1323	0.1	122
20240101 1333	2.7	91
20240101 1343	0.8	114
20240101 1353	1.5	129
20240101 1403	0.1	17
20240101 1413	3.7	151
20240101 1423	0.6	123
20240101 1433	0.5	169
20240101 1443	0.1	204
20240101 1453	1.9	172
20240101 1503	4	187
20240101 1513	2.2	108
20240101 1523	0.3	191
20240101 1533	0.1	17
20240101 1543	1.8	53
20240101 1553	0.5	53
20240101 1603	1.6	85
20240101 1613	0.6	108
20240101 1623	2.9	163
20240101 1633	1.8	134
20240101 1643	0.6	112
20240101 1653	0.3	90
20240101 1703	1.5	38
20240101 1713	0.7	80
20240101 1723	0.1	136
20240101 1733	0.1	193
20240101 1743	1.9	162
20240101 1753	2.5	137
20240101 1803	1	78
20240101 1813	3.5	152
20240101 1823	0.1	242
20240101 1833	0.4	183
20240101 1843	0.1	142
20240101 1853	0.1	330
20240101 1903	0.1	33
20240101 1913	0.2	311
20240101 1923	3.2	5
20240101 1933	0.8	129
20240101 1943	0.1	30
20240101 1953	0.1	352
20240101 2003	0.1	80
20240101 2013	1.6	348
20240101 2023	0.1	261
20240101 2033	0.2	272
20240101 2043	0.1	77
20240101 2053	0.1	133
20240101 2103	0.1	339
20240101 2113	0.1	355
20240101 2123	0.8	49
20240101 2133	0.3	351
20240101 2143	0.1	319
20240101 2153	0.1	46
20240101 2203	0.5	122
20240101 2213	0.3	10
20240101 2223	0.1	281
20240101 2233	0.1	81
20240101 2243	1.5	188
20240101 2253	0.4	144
20240101 2303	1.5	343
20240101 2313	0.1	132
20240101 2323	0.3	301
20240101 2333	0.5	55
20240101 2343	0.1	37
20240101 2353	0.2	347

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240102 0003	0.6	22
20240102 0013	0.4	46
20240102 0023	0.1	8
20240102 0033	0.3	348
20240102 0043	0.1	300
20240102 0053	0.1	29
20240102 0103	0.1	208
20240102 0113	0.4	339
20240102 0123	0.8	349
20240102 0133	0.1	323
20240102 0143	0.2	2
20240102 0153	0.4	290
20240102 0203	0.7	331
20240102 0213	0.5	0
20240102 0223	0.5	253
20240102 0233	0.2	79
20240102 0243	0.3	28
20240102 0253	0.2	6
20240102 0303	0.2	10
20240102 0313	0.3	44
20240102 0323	0.2	352
20240102 0333	1.4	13
20240102 0343	0.7	117
20240102 0353	0.1	63
20240102 0403	2.1	106
20240102 0413	0.1	306
20240102 0423	0.1	3
20240102 0433	1.5	174
20240102 0443	0.1	186
20240102 0453	0.3	303
20240102 0503	0.2	57
20240102 0513	0.3	82
20240102 0523	0.2	344
20240102 0533	0.4	318
20240102 0543	0.1	344
20240102 0553	0.1	166
20240102 0603	0.1	185
20240102 0613	0.1	20
20240102 0623	0.1	113
20240102 0633	0.5	124
20240102 0643	0.1	113
20240102 0653	0.1	30
20240102 0703	1.8	150
20240102 0713	0.1	122
20240102 0723	0.1	7
20240102 0733	0.1	330
20240102 0743	0.1	286
20240102 0753	0.2	30
20240102 0803	0.1	60
20240102 0813	0.1	330
20240102 0823	0.9	333
20240102 0833	0.5	255
20240102 0843	0.2	50
20240102 0853	0.3	66
20240102 0903	0.1	31
20240102 0913	0.1	44
20240102 0923	0.1	344
20240102 0933	0.2	51
20240102 0943	0.1	284
20240102 0953	0.1	308
20240102 1003	0.8	100
20240102 1013	0.1	11
20240102 1023	0.1	13
20240102 1033	0.2	184
20240102 1043	0.7	62
20240102 1053	1.3	17
20240102 1103	0.1	310
20240102 1113	0.2	190
20240102 1123	0.4	76
20240102 1133	1.2	6
20240102 1143	0.1	185
20240102 1153	0.1	215

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240102 1203	0.1	86
20240102 1213	0.1	302
20240102 1223	1.3	56
20240102 1233	2	17
20240102 1243	1	64
20240102 1253	0.1	47
20240102 1303	0.1	71
20240102 1313	0.1	303
20240102 1323	0.8	139
20240102 1333	0.1	3
20240102 1343	2.6	12
20240102 1353	0.4	137
20240102 1403	1	150
20240102 1413	0.1	81
20240102 1423	1.3	173
20240102 1433	0.7	162
20240102 1443	2.4	84
20240102 1453	0.1	331
20240102 1503	0.7	355
20240102 1513	3.2	91
20240102 1523	0.4	146
20240102 1533	0.1	189
20240102 1543	0.1	266
20240102 1553	1.6	62
20240102 1603	0.1	85
20240102 1613	0.1	160
20240102 1623	0.2	214
20240102 1633	0.4	86
20240102 1643	0.1	161
20240102 1653	0.1	351
20240102 1703	1.6	96
20240102 1713	0.1	64
20240102 1723	0.1	95
20240102 1733	0.1	317
20240102 1743	0.5	58
20240102 1753	0.1	101
20240102 1803	0.1	38
20240102 1813	0.1	81
20240102 1823	0.2	106
20240102 1833	0.1	81
20240102 1843	2.7	49
20240102 1853	0.1	71
20240102 1903	1.1	108
20240102 1913	0.1	100
20240102 1923	0.2	66
20240102 1933	0.3	97
20240102 1943	0.2	46
20240102 1953	0.1	282
20240102 2003	0.1	131
20240102 2013	0.1	329
20240102 2023	0.1	302
20240102 2033	0.1	343
20240102 2043	0.1	9
20240102 2053	0.1	5
20240102 2103	0.1	48
20240102 2113	0.1	76
20240102 2123	0.1	70
20240102 2133	0.1	72
20240102 2143	0.1	44
20240102 2153	0.1	50
20240102 2203	0.1	63
20240102 2213	0.1	56
20240102 2223	0.1	107
20240102 2233	0.1	22
20240102 2243	0.1	54
20240102 2253	0.1	50
20240102 2303	0.1	139
20240102 2313	0.1	66
20240102 2323	0.1	29
20240102 2333	0.1	64
20240102 2343	0.1	68
20240102 2353	0.1	61

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240103 0003	0.1	71
20240103 0013	0.1	71
20240103 0023	0.1	116
20240103 0033	0.1	20
20240103 0043	0.1	77
20240103 0053	0.1	55
20240103 0103	0.1	42
20240103 0113	0.1	81
20240103 0123	0.1	139
20240103 0133	0.1	10
20240103 0143	0.1	219
20240103 0153	0.1	89
20240103 0203	0.1	325
20240103 0213	0.1	221
20240103 0223	0.1	194
20240103 0233	0.1	160
20240103 0243	0.1	259
20240103 0253	0.1	308
20240103 0303	0.1	110
20240103 0313	0.1	139
20240103 0323	0.1	160
20240103 0333	0.1	332
20240103 0343	0.1	144
20240103 0353	0.1	90
20240103 0403	0.1	340
20240103 0413	0.1	265
20240103 0423	0.1	18
20240103 0433	0.1	113
20240103 0443	0.1	58
20240103 0453	0.1	0
20240103 0503	0.1	204
20240103 0513	0.1	238
20240103 0523	0.1	83
20240103 0533	0.1	117
20240103 0543	0.1	62
20240103 0553	0.1	317
20240103 0603	0.1	319
20240103 0613	0.1	322
20240103 0623	0.1	355
20240103 0633	0.3	9
20240103 0643	0.2	334
20240103 0653	0.1	303
20240103 0703	0.1	80
20240103 0713	0.4	20
20240103 0723	0.1	35
20240103 0733	0.1	159
20240103 0743	0.1	6
20240103 0753	0.6	26
20240103 0803	0.1	332
20240103 0813	0.5	57
20240103 0823	0.1	167
20240103 0833	0.2	314
20240103 0843	0.1	291
20240103 0853	0.1	76
20240103 0903	0.1	78
20240103 0913	0.1	159
20240103 0923	0.2	215
20240103 0933	0.3	161
20240103 0943	1.3	8
20240103 0953	0.1	250
20240103 1003	0.1	239
20240103 1013	1.3	308
20240103 1023	0.2	22
20240103 1033	0.9	125
20240103 1043	2.3	321
20240103 1053	0.2	3
20240103 1103	0.4	327
20240103 1113	0.7	16
20240103 1123	0.1	53
20240103 1133	0.8	79
20240103 1143	1	96
20240103 1153	2.2	91

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240103 1203	3.1	70
20240103 1213	0.1	349
20240103 1223	0.3	184
20240103 1233	3.3	48
20240103 1243	1	45
20240103 1253	0.2	349
20240103 1303	6.3	248
20240103 1313	0.3	133
20240103 1323	2.4	81
20240103 1333	3.1	46
20240103 1343	1.5	71
20240103 1353	1.1	73
20240103 1403	2.3	95
20240103 1413	0.8	49
20240103 1423	0.1	105
20240103 1433	2.5	9
20240103 1443	1.4	152
20240103 1453	0.6	252
20240103 1503	0.1	242
20240103 1513	0.5	80
20240103 1523	1.7	115
20240103 1533	1.1	6
20240103 1543	0.4	261
20240103 1553	5.4	250
20240103 1603	0.2	335
20240103 1613	0.1	130
20240103 1623	0.4	55
20240103 1633	0.3	91
20240103 1643	0.5	6
20240103 1653	0.5	59
20240103 1703	0.2	19
20240103 1713	0.2	57
20240103 1723	0.7	54
20240103 1733	0.2	44
20240103 1743	0.1	99
20240103 1753	1.3	15
20240103 1803	0.3	19
20240103 1813	0.1	348
20240103 1823	0.1	89
20240103 1833	0.1	52
20240103 1843	0.8	309
20240103 1853	0.5	41
20240103 1903	3.9	309
20240103 1913	0.1	49
20240103 1923	0.1	332
20240103 1933	0.5	7
20240103 1943	0.2	331
20240103 1953	0.1	47
20240103 2003	0.1	32
20240103 2013	0.1	350
20240103 2023	0.1	91
20240103 2033	0.4	289
20240103 2043	2.3	335
20240103 2053	0.1	348
20240103 2103	0.1	102
20240103 2113	0.1	349
20240103 2123	0.1	111
20240103 2133	0.1	99
20240103 2143	0.1	2
20240103 2153	0.1	93
20240103 2203	0.6	334
20240103 2213	0.1	272
20240103 2223	0.1	313
20240103 2233	0.1	98
20240103 2243	0.2	265
20240103 2253	0.1	348
20240103 2303	0.1	323
20240103 2313	0.1	324
20240103 2323	0.1	134
20240103 2333	0.1	325
20240103 2343	0.1	143
20240103 2353	0.1	353

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240104 0003	0.1	81
20240104 0013	0.1	94
20240104 0023	0.1	325
20240104 0033	0.1	5
20240104 0043	0.1	153
20240104 0053	0.1	95
20240104 0103	0.1	74
20240104 0113	0.1	98
20240104 0123	0.1	156
20240104 0133	0.1	101
20240104 0143	0.1	98
20240104 0153	0.1	68
20240104 0203	0.1	110
20240104 0213	0.1	101
20240104 0223	0.1	64
20240104 0233	0.1	68
20240104 0243	0.1	77
20240104 0253	0.1	41
20240104 0303	0.1	75
20240104 0313	0.1	168
20240104 0323	0.1	172
20240104 0333	0.1	82
20240104 0343	0.1	48
20240104 0353	0.1	71
20240104 0403	0.1	117
20240104 0413	0.1	84
20240104 0423	0.1	86
20240104 0433	0.1	63
20240104 0443	0.1	65
20240104 0453	0.1	53
20240104 0503	0.1	95
20240104 0513	0.1	69
20240104 0523	0.1	85
20240104 0533	0.1	29
20240104 0543	0.1	123
20240104 0553	0.1	75
20240104 0603	0.1	71
20240104 0613	0.1	89
20240104 0623	0.1	101
20240104 0633	0.1	91
20240104 0643	0.1	65
20240104 0653	0.1	128
20240104 0703	0.1	113
20240104 0713	0.1	114
20240104 0723	0.1	134
20240104 0733	0.1	148
20240104 0743	0.1	140
20240104 0753	0.1	142
20240104 0803	0.1	16
20240104 0813	0.1	126
20240104 0823	0.1	151
20240104 0833	0.1	144
20240104 0843	0.1	139
20240104 0853	0.1	197
20240104 0903	0.2	142
20240104 0913	0.2	119
20240104 0923	0.1	96
20240104 0933	0.1	100
20240104 0943	0.1	222
20240104 0953	0.1	105
20240104 1003	0.1	350
20240104 1013	0.2	348
20240104 1023	0.1	351
20240104 1033	0.4	193
20240104 1043	1	38
20240104 1053	1.3	167
20240104 1103	1.1	4
20240104 1113	0.8	127
20240104 1123	0.2	129
20240104 1133	2.6	2
20240104 1143	0.4	18
20240104 1153	0.3	17

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240104 1203	3.7	63
20240104 1213	0.1	56
20240104 1223	1.2	71
20240104 1233	0.1	135
20240104 1243	0.1	73
20240104 1253	0.3	330
20240104 1303	0.4	187
20240104 1313	0.1	217
20240104 1323	0.1	69
20240104 1333	0.1	316
20240104 1343	1.1	147
20240104 1353	0.1	169
20240104 1403	1	198
20240104 1413	1.1	147
20240104 1423	0.1	343
20240104 1433	0.1	16
20240104 1443	0.3	128
20240104 1453	0.1	338
20240104 1503	2.1	221
20240104 1513	0.8	219
20240104 1523	0.3	46
20240104 1533	0.1	184
20240104 1543	0.1	326
20240104 1553	0.4	52
20240104 1603	0.1	85
20240104 1613	0.6	150
20240104 1623	1.8	88
20240104 1633	2.6	89
20240104 1643	0.1	164
20240104 1653	0.1	177
20240104 1703	0.4	127
20240104 1713	0.3	96
20240104 1723	0.2	76
20240104 1733	0.2	111
20240104 1743	0.1	104
20240104 1753	0.3	125
20240104 1803	0.1	74
20240104 1813	0.1	15
20240104 1823	0.3	47
20240104 1833	0.4	43
20240104 1843	0.1	307
20240104 1853	0.4	133
20240104 1903	0.3	29
20240104 1913	0.1	107
20240104 1923	0.1	99
20240104 1933	0.1	103
20240104 1943	0.1	142
20240104 1953	0.1	100
20240104 2003	0.1	62
20240104 2013	0.1	186
20240104 2023	0.1	96
20240104 2033	0.1	166
20240104 2043	0.1	106
20240104 2053	0.1	100
20240104 2103	0.1	148
20240104 2113	0.1	89
20240104 2123	0.1	62
20240104 2133	0.1	313
20240104 2143	0.1	3
20240104 2153	0.1	332
20240104 2203	0.1	98
20240104 2213	0.1	2
20240104 2223	0.4	177
20240104 2233	0.1	305
20240104 2243	1.2	327
20240104 2253	0.2	104
20240104 2303	0.3	291
20240104 2313	0.3	6
20240104 2323	0.1	336
20240104 2333	0.1	283
20240104 2343	1.1	40
20240104 2353	0.1	78



Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240105 0003	0.3	347
20240105 0013	0.6	307
20240105 0023	0.2	228
20240105 0033	0.1	83
20240105 0043	0.1	266
20240105 0053	0.1	119
20240105 0103	0.1	116
20240105 0113	0.1	126
20240105 0123	0.1	221
20240105 0133	0.1	269
20240105 0143	0.1	185
20240105 0153	0.1	205
20240105 0203	0.1	168
20240105 0213	0.1	162
20240105 0223	0.1	8
20240105 0233	0.1	115
20240105 0243	0.1	131
20240105 0253	0.1	56
20240105 0303	0.1	162
20240105 0313	0.1	322
20240105 0323	0.1	130
20240105 0333	0.1	331
20240105 0343	0.1	102
20240105 0353	0.1	81
20240105 0403	0.1	162
20240105 0413	0.1	261
20240105 0423	0.1	349
20240105 0433	0.1	119
20240105 0443	0.1	346
20240105 0453	0.1	172
20240105 0503	0.1	150
20240105 0513	0.1	290
20240105 0523	0.1	22
20240105 0533	0.1	179
20240105 0543	0.1	109
20240105 0553	0.1	36
20240105 0603	0.1	170
20240105 0613	0.1	127
20240105 0623	0.1	97
20240105 0633	0.1	42
20240105 0643	0.1	114
20240105 0653	0.1	301
20240105 0703	0.1	105
20240105 0713	0.1	258
20240105 0723	0.1	76
20240105 0733	0.1	110
20240105 0743	0.1	100
20240105 0753	0.1	230
20240105 0803	0.1	26
20240105 0813	0.1	116
20240105 0823	0.1	187
20240105 0833	0.1	106
20240105 0843	0.1	117
20240105 0853	0.1	300
20240105 0903	0.1	68
20240105 0913	0.1	133
20240105 0923	0.1	307
20240105 0933	0.1	188
20240105 0943	0.1	170
20240105 0953	0.1	198
20240105 1003	0.1	134
20240105 1013	0.1	184
20240105 1023	0.2	271
20240105 1033	0.1	73
20240105 1043	0.1	100
20240105 1053	0.8	155
20240105 1103	0.1	4
20240105 1113	0.1	117
20240105 1123	0.1	154
20240105 1133	0.1	164
20240105 1143	0.1	31
20240105 1153	0.1	108

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240105 1203	0.1	122
20240105 1213	0.3	165
20240105 1223	1.8	126
20240105 1233	1.6	242
20240105 1243	0.1	129
20240105 1253	0.1	253
20240105 1303	0.1	314
20240105 1313	0.1	110
20240105 1323	2.9	133
20240105 1333	0.5	79
20240105 1343	0.1	52
20240105 1353	0.1	40
20240105 1403	0.1	23
20240105 1413	1.2	97
20240105 1423	0.5	58
20240105 1433	0.2	91
20240105 1443	2.3	162
20240105 1453	0.3	121
20240105 1503	1.8	109
20240105 1513	1.7	131
20240105 1523	0.2	67
20240105 1533	0.3	112
20240105 1543	0.1	98
20240105 1553	0.5	94
20240105 1603	0.1	265
20240105 1613	2.1	137
20240105 1623	0.3	112
20240105 1633	0.5	124
20240105 1643	2.1	83
20240105 1653	0.1	100
20240105 1703	0.1	103
20240105 1713	0.4	1
20240105 1723	0.8	54
20240105 1733	0.1	30
20240105 1743	0.2	62
20240105 1753	0.1	64
20240105 1803	0.1	353
20240105 1813	0.5	55
20240105 1823	0.1	7
20240105 1833	0.1	170
20240105 1843	0.1	329
20240105 1853	0.1	301
20240105 1903	0.1	281
20240105 1913	0.1	80
20240105 1923	0.1	62
20240105 1933	0.1	45
20240105 1943	0.1	58
20240105 1953	0.1	307
20240105 2003	0.1	96
20240105 2013	0.1	61
20240105 2023	0.1	68
20240105 2033	0.1	87
20240105 2043	0.1	272
20240105 2053	0.1	3
20240105 2103	0.1	11
20240105 2113	0.1	27
20240105 2123	0.1	14
20240105 2133	0.1	161
20240105 2143	0.1	348
20240105 2153	0.1	345
20240105 2203	0.1	212
20240105 2213	0.1	91
20240105 2223	0.1	102
20240105 2233	0.1	78
20240105 2243	0.1	71
20240105 2253	0.1	58
20240105 2303	0.1	57
20240105 2313	0.1	41
20240105 2323	0.1	45
20240105 2333	0.1	66
20240105 2343	0.1	33
20240105 2353	0.1	63

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240106 0003	0.1	47
20240106 0013	0.1	50
20240106 0023	0.1	135
20240106 0033	0.1	91
20240106 0043	0.1	58
20240106 0053	0.1	85
20240106 0103	0.1	54
20240106 0113	0.1	64
20240106 0123	0.1	63
20240106 0133	0.1	104
20240106 0143	0.1	36
20240106 0153	0.1	33
20240106 0203	0.1	133
20240106 0213	0.1	170
20240106 0223	0.1	61
20240106 0233	0.1	62
20240106 0243	0.1	40
20240106 0253	0.1	161
20240106 0303	0.1	53
20240106 0313	0.1	56
20240106 0323	0.1	62
20240106 0333	0.1	342
20240106 0343	0.1	66
20240106 0353	0.1	52
20240106 0403	0.1	60
20240106 0413	0.1	18
20240106 0423	0.1	81
20240106 0433	0.1	23
20240106 0443	0.1	158
20240106 0453	0.1	96
20240106 0503	0.1	87
20240106 0513	0.1	60
20240106 0523	0.1	76
20240106 0533	0.1	82
20240106 0543	0.1	64
20240106 0553	0.1	45
20240106 0603	0.1	42
20240106 0613	0.1	42
20240106 0623	0.1	68
20240106 0633	0.1	68
20240106 0643	0.1	62
20240106 0653	0.1	66
20240106 0703	0.1	66
20240106 0713	0.1	65
20240106 0723	0.1	54
20240106 0733	0.1	78
20240106 0743	0.1	179
20240106 0753	0.1	194
20240106 0803	0.1	144
20240106 0813	0.1	263
20240106 0823	0.1	101
20240106 0833	0.1	80
20240106 0843	0.1	158
20240106 0853	0.1	105
20240106 0903	0.1	73
20240106 0913	0.1	142
20240106 0923	0.1	119
20240106 0933	0.1	123
20240106 0943	0.6	143
20240106 0953	0.1	149
20240106 1003	0.1	146
20240106 1013	0.1	217
20240106 1023	0.1	145
20240106 1033	0.1	161
20240106 1043	0.2	171
20240106 1053	0.3	167
20240106 1103	1.2	137
20240106 1113	0.4	204
20240106 1123	0.3	157
20240106 1133	0.1	316
20240106 1143	0.2	207
20240106 1153	1.6	167

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240106 1203	0.2	177
20240106 1213	1.1	290
20240106 1223	0.1	231
20240106 1233	1.6	316
20240106 1243	0.1	133
20240106 1253	0.7	158
20240106 1303	2.6	175
20240106 1313	0.1	145
20240106 1323	0.1	279
20240106 1333	0.2	338
20240106 1343	0.1	288
20240106 1353	0.5	347
20240106 1403	0.1	148
20240106 1413	0.2	156
20240106 1423	0.1	92
20240106 1433	0.1	161
20240106 1443	1.5	166
20240106 1453	0.2	21
20240106 1503	0.1	266
20240106 1513	0.1	20
20240106 1523	0.3	161
20240106 1533	0.1	344
20240106 1543	0.1	46
20240106 1553	1	119
20240106 1603	0.2	118
20240106 1613	0.1	105
20240106 1623	0.1	341
20240106 1633	0.1	36
20240106 1643	0.1	33
20240106 1653	0.1	353
20240106 1703	0.1	186
20240106 1713	0.1	261
20240106 1723	0.8	142
20240106 1733	0.1	50
20240106 1743	0.1	95
20240106 1753	0.1	339
20240106 1803	0.1	34
20240106 1813	0.1	10
20240106 1823	0.1	57
20240106 1833	0.1	39
20240106 1843	0.1	13
20240106 1853	0.1	53
20240106 1903	0.1	36
20240106 1913	0.1	36
20240106 1923	0.1	17
20240106 1933	0.1	14
20240106 1943	0.1	9
20240106 1953	0.1	317
20240106 2003	0.1	300
20240106 2013	0.1	204
20240106 2023	0.1	148
20240106 2033	0.1	108
20240106 2043	0.1	354
20240106 2053	0.1	326
20240106 2103	0.1	17
20240106 2113	0.1	329
20240106 2123	0.1	17
20240106 2133	0.1	333
20240106 2143	0.1	29
20240106 2153	0.1	94
20240106 2203	0.1	355
20240106 2213	0.1	15
20240106 2223	0.1	28
20240106 2233	0.1	71
20240106 2243	0.1	255
20240106 2253	0.1	5
20240106 2303	0.1	346
20240106 2313	0.1	290
20240106 2323	0.1	46
20240106 2333	0.1	34
20240106 2343	0.1	43
20240106 2353	0.1	322

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240107 0003	0.1	44
20240107 0013	0.1	354
20240107 0023	0.1	56
20240107 0033	0.1	30
20240107 0043	0.1	3
20240107 0053	0.1	39
20240107 0103	0.1	62
20240107 0113	0.1	106
20240107 0123	0.1	81
20240107 0133	0.1	83
20240107 0143	0.1	142
20240107 0153	0.1	67
20240107 0203	0.1	69
20240107 0213	0.1	50
20240107 0223	0.1	26
20240107 0233	0.1	50
20240107 0243	0.1	133
20240107 0253	0.1	6
20240107 0303	0.1	340
20240107 0313	0.1	88
20240107 0323	0.1	24
20240107 0333	0.1	55
20240107 0343	0.1	118
20240107 0353	1.7	104
20240107 0403	0.3	107
20240107 0413	0.1	114
20240107 0423	0.2	32
20240107 0433	0.1	21
20240107 0443	0.1	344
20240107 0453	0.1	48
20240107 0503	0.8	83
20240107 0513	0.1	329
20240107 0523	0.1	104
20240107 0533	0.1	74
20240107 0543	0.1	58
20240107 0553	0.1	53
20240107 0603	0.1	45
20240107 0613	0.1	105
20240107 0623	0.1	57
20240107 0633	0.1	83
20240107 0643	0.1	95
20240107 0653	0.1	74
20240107 0703	0.1	72
20240107 0713	0.1	49
20240107 0723	0.1	73
20240107 0733	0.1	172
20240107 0743	0.1	45
20240107 0753	0.1	142
20240107 0803	0.1	125
20240107 0813	0.1	144
20240107 0823	0.1	135
20240107 0833	0.1	260
20240107 0843	0.1	21
20240107 0853	0.2	140
20240107 0903	0.1	121
20240107 0913	0.1	190
20240107 0923	0.1	255
20240107 0933	1.4	240
20240107 0943	0.1	355
20240107 0953	0.1	0
20240107 1003	0.1	61
20240107 1013	0.1	44
20240107 1023	4.8	123
20240107 1033	0.4	47
20240107 1043	4.7	324
20240107 1053	1.7	154
20240107 1103	0.3	228
20240107 1113	1.8	339
20240107 1123	0.8	211
20240107 1133	3.6	136
20240107 1143	0.1	346
20240107 1153	0.5	46

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240107 1203	0.9	153
20240107 1213	0.1	192
20240107 1223	2.9	92
20240107 1233	0.6	68
20240107 1243	0.7	286
20240107 1253	0.1	321
20240107 1303	0.1	60
20240107 1313	3.9	91
20240107 1323	0.3	75
20240107 1333	3.3	43
20240107 1343	1.8	128
20240107 1353	2.2	139
20240107 1403	0.1	345
20240107 1413	0.2	252
20240107 1423	0.2	54
20240107 1433	1.2	164
20240107 1443	0.4	61
20240107 1453	0.2	313
20240107 1503	0.2	3
20240107 1513	0.3	249
20240107 1523	0.2	43
20240107 1533	0.1	56
20240107 1543	0.1	164
20240107 1553	0.1	312
20240107 1603	0.5	81
20240107 1613	0.9	342
20240107 1623	1.6	337
20240107 1633	0.2	356
20240107 1643	1.6	6
20240107 1653	0.1	58
20240107 1703	0.1	79
20240107 1713	0.6	337
20240107 1723	0.2	69
20240107 1733	0.2	269
20240107 1743	3.2	108
20240107 1753	0.1	352
20240107 1803	0.1	3
20240107 1813	1.4	12
20240107 1823	2.4	79
20240107 1833	3.5	339
20240107 1843	0.1	135
20240107 1853	1	342
20240107 1903	0.1	352
20240107 1913	0.2	30
20240107 1923	0.3	34
20240107 1933	0.9	55
20240107 1943	3.7	164
20240107 1953	1.6	28
20240107 2003	0.1	50
20240107 2013	0.9	351
20240107 2023	2.7	70
20240107 2033	1.5	69
20240107 2043	2.7	301
20240107 2053	4.9	101
20240107 2103	0.1	35
20240107 2113	4.1	79
20240107 2123	5.2	58
20240107 2133	0.1	43
20240107 2143	0.1	187
20240107 2153	0.4	23
20240107 2203	0.5	41
20240107 2213	0.1	127
20240107 2223	0.1	53
20240107 2233	0.8	308
20240107 2243	2.8	42
20240107 2253	0.1	11
20240107 2303	1	158
20240107 2313	7.3	322
20240107 2323	0.9	220
20240107 2333	8.6	48
20240107 2343	0.1	37
20240107 2353	1.1	348

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240108 0003	0.9	145
20240108 0013	3.1	301
20240108 0023	10.7	48
20240108 0033	3.1	44
20240108 0043	7.3	15
20240108 0053	0.1	34
20240108 0103	2.3	24
20240108 0113	0.2	321
20240108 0123	0.1	233
20240108 0133	0.5	329
20240108 0143	0.9	89
20240108 0153	0.4	346
20240108 0203	0.8	132
20240108 0213	0.7	39
20240108 0223	0.3	68
20240108 0233	2.6	7
20240108 0243	0.1	154
20240108 0253	0.1	255
20240108 0303	0.2	326
20240108 0313	0.1	138
20240108 0323	0.1	2
20240108 0333	1.1	335
20240108 0343	0.1	307
20240108 0353	0.1	203
20240108 0403	0.2	297
20240108 0413	0.4	31
20240108 0423	0.1	243
20240108 0433	0.1	250
20240108 0443	0.1	110
20240108 0453	1.2	39
20240108 0503	0.1	321
20240108 0513	0.1	193
20240108 0523	1.4	47
20240108 0533	1.3	354
20240108 0543	5.4	313
20240108 0553	0.1	348
20240108 0603	1.7	353
20240108 0613	0.1	290
20240108 0623	7.4	353
20240108 0633	0.1	16
20240108 0643	0.4	338
20240108 0653	0.5	328
20240108 0703	0.6	28
20240108 0713	0.3	323
20240108 0723	0.2	345
20240108 0733	0.2	60
20240108 0743	0.1	302
20240108 0753	0.1	95
20240108 0803	0.1	136
20240108 0813	0.1	212
20240108 0823	0.1	14
20240108 0833	0.1	136
20240108 0843	1.4	180
20240108 0853	0.1	140
20240108 0903	0.3	218
20240108 0913	0.7	335
20240108 0923	0.5	343
20240108 0933	0.1	201
20240108 0943	0.9	141
20240108 0953	0.1	43
20240108 1003	0.3	75
20240108 1013	0.1	44
20240108 1023	0.4	49
20240108 1033	1.4	2
20240108 1043	0.1	124
20240108 1053	0.9	128
20240108 1103	0.4	75
20240108 1113	0.2	302
20240108 1123	2.9	143
20240108 1133	1.6	124
20240108 1143	3.9	242
20240108 1153	0.1	243

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240108 1203	0.1	166
20240108 1213	0.4	179
20240108 1223	0.3	264
20240108 1233	0.2	327
20240108 1243	0.1	19
20240108 1253	0.4	32
20240108 1303	0.5	345
20240108 1313	2.2	13
20240108 1323	1.4	155
20240108 1333	0.1	254
20240108 1343	0.6	101
20240108 1353	1.6	333
20240108 1403	0.1	137
20240108 1413	0.4	84
20240108 1423	0.1	37
20240108 1433	0.1	111
20240108 1443	0.2	70
20240108 1453	4.3	140
20240108 1503	0.2	61
20240108 1513	0.6	11
20240108 1523	0.5	95
20240108 1533	0.4	322
20240108 1543	0.1	55
20240108 1553	0.9	182
20240108 1603	0.6	328
20240108 1613	0.1	115
20240108 1623	0.1	49
20240108 1633	1.2	140
20240108 1643	0.6	100
20240108 1653	0.1	24
20240108 1703	5.1	111
20240108 1713	0.1	89
20240108 1723	0.1	19
20240108 1733	0.1	252
20240108 1743	0.2	342
20240108 1753	0.1	95
20240108 1803	0.1	294
20240108 1813	0.3	100
20240108 1823	1.8	135
20240108 1833	2.1	77
20240108 1843	0.1	68
20240108 1853	0.2	321
20240108 1903	0.1	38
20240108 1913	0.1	74
20240108 1923	0.1	339
20240108 1933	0.1	247
20240108 1943	0.9	117
20240108 1953	0.8	122
20240108 2003	0.2	151
20240108 2013	0.1	51
20240108 2023	0.3	128
20240108 2033	2.3	28
20240108 2043	0.3	325
20240108 2053	0.1	136
20240108 2103	0.1	188
20240108 2113	0.5	88
20240108 2123	0.1	232
20240108 2133	0.1	199
20240108 2143	0.1	276
20240108 2153	0.6	299
20240108 2203	0.1	259
20240108 2213	0.2	189
20240108 2223	0.1	36
20240108 2233	0.2	113
20240108 2243	0.1	145
20240108 2253	0.1	169
20240108 2303	0.2	346
20240108 2313	0.1	147
20240108 2323	0.1	293
20240108 2333	0.2	170
20240108 2343	0.1	83
20240108 2353	0.2	42

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240109 0003	0.1	343
20240109 0013	0.1	32
20240109 0023	0.1	282
20240109 0033	0.1	264
20240109 0043	0.1	316
20240109 0053	0.1	10
20240109 0103	0.1	353
20240109 0113	0.2	31
20240109 0123	0.1	353
20240109 0133	0.1	86
20240109 0143	0.1	144
20240109 0153	1.3	130
20240109 0203	3.3	129
20240109 0213	0.4	129
20240109 0223	0.2	215
20240109 0233	0.1	163
20240109 0243	0.1	18
20240109 0253	0.8	127
20240109 0303	0.1	49
20240109 0313	0.1	146
20240109 0323	0.7	164
20240109 0333	0.1	134
20240109 0343	0.1	211
20240109 0353	0.1	21
20240109 0403	0.1	112
20240109 0413	0.1	225
20240109 0423	0.1	258
20240109 0433	0.1	79
20240109 0443	0.1	141
20240109 0453	0.1	323
20240109 0503	0.1	3
20240109 0513	0.1	202
20240109 0523	0.1	238
20240109 0533	0.1	77
20240109 0543	0.1	38
20240109 0553	0.1	3
20240109 0603	0.1	319
20240109 0613	0.1	320
20240109 0623	0.1	79
20240109 0633	0.1	3
20240109 0643	0.1	195
20240109 0653	0.1	240
20240109 0703	0.1	151
20240109 0713	0.1	169
20240109 0723	0.1	39
20240109 0733	0.1	34
20240109 0743	0.1	148
20240109 0753	0.2	270
20240109 0803	0.1	83
20240109 0813	0.1	323
20240109 0823	0.1	122
20240109 0833	0.1	184
20240109 0843	0.1	86
20240109 0853	0.1	351
20240109 0903	0.3	98
20240109 0913	2.1	140
20240109 0923	0.2	83
20240109 0933	0.1	282
20240109 0943	0.1	209
20240109 0953	0.1	278
20240109 1003	0.1	72
20240109 1013	0.3	191
20240109 1023	0.5	215
20240109 1033	0.8	198
20240109 1043	0.1	125
20240109 1053	0.1	12
20240109 1103	0.1	149
20240109 1113	0.1	127
20240109 1123	0.3	132
20240109 1133	0.1	83
20240109 1143	0.8	119
20240109 1153	0.4	191

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240109 1203	0.6	277
20240109 1213	0.1	106
20240109 1223	1.3	109
20240109 1233	0.1	274
20240109 1243	1	108
20240109 1253	0.5	64
20240109 1303	0.1	240
20240109 1313	0.1	45
20240109 1323	0.1	204
20240109 1333	1.2	15
20240109 1343	0.9	167
20240109 1353	0.1	107
20240109 1403	0.1	223
20240109 1413	1.7	134
20240109 1423	0.2	208
20240109 1433	0.1	187
20240109 1443	0.3	78
20240109 1453	1.4	50
20240109 1503	0.1	149
20240109 1513	0.1	33
20240109 1523	0.5	110
20240109 1533	1	282
20240109 1543	0.4	154
20240109 1553	0.1	165
20240109 1603	0.1	161
20240109 1613	0.4	110
20240109 1623	0.1	44
20240109 1633	0.1	84
20240109 1643	0.1	103
20240109 1653	0.2	61
20240109 1703	0.1	39
20240109 1713	0.1	323
20240109 1723	0.1	94
20240109 1733	0.1	244
20240109 1743	0.1	146
20240109 1753	0.1	50
20240109 1803	0.1	328
20240109 1813	0.1	11
20240109 1823	0.1	81
20240109 1833	0.1	15
20240109 1843	0.1	105
20240109 1853	0.1	140
20240109 1903	0.1	90
20240109 1913	0.1	176
20240109 1923	0.1	123
20240109 1933	0.1	82
20240109 1943	0.1	22
20240109 1953	0.1	282
20240109 2003	0.1	128
20240109 2013	0.1	112
20240109 2023	0.1	105
20240109 2033	0.1	132
20240109 2043	0.1	86
20240109 2053	0.1	74
20240109 2103	0.1	329
20240109 2113	0.1	94
20240109 2123	0.1	116
20240109 2133	0.1	74
20240109 2143	0.1	334
20240109 2153	0.1	17
20240109 2203	0.1	140
20240109 2213	0.1	38
20240109 2223	0.1	6
20240109 2233	0.1	154
20240109 2243	0.1	147
20240109 2253	0.1	147
20240109 2303	0.1	59
20240109 2313	0.1	82
20240109 2323	0.1	107
20240109 2333	0.1	127
20240109 2343	0.1	110
20240109 2353	0.1	125

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240110 0003	0.1	0
20240110 0013	0.1	42
20240110 0023	0.1	63
20240110 0033	0.1	45
20240110 0043	0.1	328
20240110 0053	0.1	110
20240110 0103	0.1	44
20240110 0113	0.1	141
20240110 0123	0.1	94
20240110 0133	0.1	86
20240110 0143	0.1	95
20240110 0153	0.1	348
20240110 0203	0.1	344
20240110 0213	0.1	103
20240110 0223	0.1	113
20240110 0233	0.1	63
20240110 0243	0.1	47
20240110 0253	0.1	28
20240110 0303	0.1	83
20240110 0313	0.1	45
20240110 0323	0.1	62
20240110 0333	0.1	127
20240110 0343	0.1	52
20240110 0353	0.1	26
20240110 0403	0.1	89
20240110 0413	0.1	228
20240110 0423	0.1	350
20240110 0433	0.1	150
20240110 0443	0.1	86
20240110 0453	0.1	64
20240110 0503	0.4	312
20240110 0513	0.1	17
20240110 0523	0.1	60
20240110 0533	0.1	92
20240110 0543	0.1	5
20240110 0553	0.1	87
20240110 0603	0.1	28
20240110 0613	0.1	217
20240110 0623	0.1	327
20240110 0633	0.6	334
20240110 0643	0.4	333
20240110 0653	0.1	141
20240110 0703	0.1	311
20240110 0713	0.1	19
20240110 0723	0.1	110
20240110 0733	0.1	266
20240110 0743	0.1	166
20240110 0753	0.1	354
20240110 0803	0.1	99
20240110 0813	0.1	142
20240110 0823	0.1	174
20240110 0833	0.1	330
20240110 0843	0.1	214
20240110 0853	0.2	161
20240110 0903	0.1	121
20240110 0913	0.1	118
20240110 0923	0.2	100
20240110 0933	0.4	248
20240110 0943	0.1	126
20240110 0953	0.3	135
20240110 1003	2	158
20240110 1013	0.1	162
20240110 1023	0.2	177
20240110 1033	0.1	296
20240110 1043	0.1	273
20240110 1053	0.1	238
20240110 1103	2	15
20240110 1113	0.1	61
20240110 1123	0.1	97
20240110 1133	0.2	5
20240110 1143	0.4	106
20240110 1153	0.6	157

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240110 1203	2.9	298
20240110 1213	0.1	318
20240110 1223	2.7	100
20240110 1233	2.3	119
20240110 1243	0.1	101
20240110 1253	0.6	43
20240110 1303	0.1	3
20240110 1313	0.2	63
20240110 1323	1.8	46
20240110 1333	1.6	108
20240110 1343	1.4	27
20240110 1353	1.8	75
20240110 1403	0.1	62
20240110 1413	0.1	68
20240110 1423	1.5	87
20240110 1433	3.6	327
20240110 1443	0.6	128
20240110 1453	0.1	174
20240110 1503	0.8	77
20240110 1513	1	258
20240110 1523	2.3	54
20240110 1533	3.4	307
20240110 1543	1	26
20240110 1553	1.1	79
20240110 1603	0.7	99
20240110 1613	1	32
20240110 1623	0.1	318
20240110 1633	1.7	344
20240110 1643	0.1	54
20240110 1653	0.1	31
20240110 1703	0.1	48
20240110 1713	0.1	266
20240110 1723	0.1	324
20240110 1733	0.1	299
20240110 1743	0.1	99
20240110 1753	0.1	112
20240110 1803	0.1	104
20240110 1813	0.1	79
20240110 1823	0.1	0
20240110 1833	0.1	83
20240110 1843	0.1	46
20240110 1853	0.1	60
20240110 1903	0.1	10
20240110 1913	0.1	30
20240110 1923	0.1	327
20240110 1933	0.1	84
20240110 1943	0.1	352
20240110 1953	0.1	62
20240110 2003	0.1	349
20240110 2013	0.1	43
20240110 2023	0.1	10
20240110 2033	0.1	350
20240110 2043	0.1	334
20240110 2053	0.1	68
20240110 2103	0.1	135
20240110 2113	0.1	75
20240110 2123	0.1	53
20240110 2133	0.1	52
20240110 2143	0.1	59
20240110 2153	0.1	46
20240110 2203	0.1	56
20240110 2213	0.1	40
20240110 2223	0.1	43
20240110 2233	0.1	291
20240110 2243	0.1	77
20240110 2253	0.1	50
20240110 2303	0.1	56
20240110 2313	0.1	80
20240110 2323	0.1	45
20240110 2333	0.1	238
20240110 2343	0.1	44
20240110 2353	0.1	21

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240111 0003	0.1	77
20240111 0013	0.1	198
20240111 0023	0.1	279
20240111 0033	0.1	91
20240111 0043	0.1	52
20240111 0053	0.1	43
20240111 0103	0.1	62
20240111 0113	0.1	128
20240111 0123	0.1	51
20240111 0133	0.1	144
20240111 0143	0.1	136
20240111 0153	0.1	2
20240111 0203	0.1	96
20240111 0213	0.1	67
20240111 0223	0.1	347
20240111 0233	0.1	349
20240111 0243	0.1	257
20240111 0253	0.1	349
20240111 0303	0.1	36
20240111 0313	0.1	76
20240111 0323	0.1	114
20240111 0333	0.1	143
20240111 0343	0.1	82
20240111 0353	0.1	182
20240111 0403	0.1	55
20240111 0413	0.1	274
20240111 0423	0.1	294
20240111 0433	0.1	150
20240111 0443	0.1	216
20240111 0453	0.1	54
20240111 0503	0.1	161
20240111 0513	0.1	65
20240111 0523	0.1	40
20240111 0533	0.1	117
20240111 0543	0.1	181
20240111 0553	0.1	245
20240111 0603	0.1	133
20240111 0613	0.1	114
20240111 0623	0.1	92
20240111 0633	0.1	41
20240111 0643	0.1	73
20240111 0653	0.1	38
20240111 0703	0.1	144
20240111 0713	0.1	148
20240111 0723	0.1	86
20240111 0733	0.1	95
20240111 0743	0.1	76
20240111 0753	0.1	54
20240111 0803	0.1	130
20240111 0813	0.1	119
20240111 0823	0.1	157
20240111 0833	0.1	146
20240111 0843	0.1	123
20240111 0853	0.1	124
20240111 0903	0.1	147
20240111 0913	0.1	131
20240111 0923	0.2	150
20240111 0933	0.1	133
20240111 0943	0.1	278
20240111 0953	0.1	122
20240111 1003	0.1	120
20240111 1013	0.1	19
20240111 1023	0.3	157
20240111 1033	0.4	109
20240111 1043	0.2	28
20240111 1053	0.7	43
20240111 1103	0.2	211
20240111 1113	0.4	313
20240111 1123	0.1	48
20240111 1133	2.8	238
20240111 1143	0.2	27
20240111 1153	0.9	20

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240111 1203	0.1	126
20240111 1213	0.1	76
20240111 1223	0.2	124
20240111 1233	0.2	341
20240111 1243	0.1	310
20240111 1253	0.5	62
20240111 1303	0.1	85
20240111 1313	0.1	53
20240111 1323	0.4	183
20240111 1333	0.2	184
20240111 1343	0.8	64
20240111 1353	1.1	125
20240111 1403	2.9	60
20240111 1413	3	81
20240111 1423	1.7	110
20240111 1433	0.1	177
20240111 1443	0.4	95
20240111 1453	0.1	352
20240111 1503	0.1	77
20240111 1513	1.8	153
20240111 1523	0.1	77
20240111 1533	0.1	144
20240111 1543	0.5	191
20240111 1553	0.1	126
20240111 1603	0.1	87
20240111 1613	0.6	104
20240111 1623	0.1	232
20240111 1633	0.1	99
20240111 1643	1.1	118
20240111 1653	0.6	85
20240111 1703	1.7	89
20240111 1713	1.4	121
20240111 1723	0.6	95
20240111 1733	1.1	130
20240111 1743	0.3	117
20240111 1753	0.9	112
20240111 1803	0.8	138
20240111 1813	0.5	102
20240111 1823	0.1	156
20240111 1833	0.1	122
20240111 1843	0.3	16
20240111 1853	0.1	94
20240111 1903	0.1	11
20240111 1913	0.1	309
20240111 1923	0.1	108
20240111 1933	0.1	96
20240111 1943	0.4	164
20240111 1953	0.1	146
20240111 2003	0.1	112
20240111 2013	0.1	78
20240111 2023	0.1	117
20240111 2033	0.1	50
20240111 2043	0.1	174
20240111 2053	0.2	145
20240111 2103	0.1	121
20240111 2113	0.1	143
20240111 2123	0.1	10
20240111 2133	0.1	96
20240111 2143	0.1	60
20240111 2153	0.1	272
20240111 2203	0.1	263
20240111 2213	0.1	234
20240111 2223	0.3	5
20240111 2233	0.1	150
20240111 2243	0.3	135
20240111 2253	0.1	15
20240111 2303	0.1	250
20240111 2313	0.2	114
20240111 2323	0.4	89
20240111 2333	0.4	154
20240111 2343	0.2	55
20240111 2353	0.1	125

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240112 0003	0.1	113
20240112 0013	0.1	149
20240112 0023	0.1	229
20240112 0033	0.1	118
20240112 0043	0.1	51
20240112 0053	0.1	95
20240112 0103	0.1	177
20240112 0113	0.1	178
20240112 0123	0.1	100
20240112 0133	0.1	91
20240112 0143	0.1	141
20240112 0153	0.1	95
20240112 0203	0.1	162
20240112 0213	0.1	58
20240112 0223	0.1	201
20240112 0233	0.1	103
20240112 0243	0.1	69
20240112 0253	0.1	4
20240112 0303	0.1	68
20240112 0313	0.1	16
20240112 0323	0.1	112
20240112 0333	0.1	74
20240112 0343	0.1	69
20240112 0353	0.1	20
20240112 0403	0.1	83
20240112 0413	0.1	85
20240112 0423	0.1	69
20240112 0433	0.1	30
20240112 0443	0.1	3
20240112 0453	0.1	59
20240112 0503	0.1	76
20240112 0513	0.1	38
20240112 0523	0.1	95
20240112 0533	0.1	243
20240112 0543	0.2	95
20240112 0553	0.1	55
20240112 0603	0.2	39
20240112 0613	0.1	131
20240112 0623	0.1	148
20240112 0633	0.1	40
20240112 0643	0.1	347
20240112 0653	0.1	129
20240112 0703	0.1	164
20240112 0713	0.1	5
20240112 0723	0.1	98
20240112 0733	0.1	18
20240112 0743	0.1	13
20240112 0753	0.1	48
20240112 0803	0.1	129
20240112 0813	0.1	330
20240112 0823	0.1	33
20240112 0833	0.1	176
20240112 0843	0.1	101
20240112 0853	0.1	341
20240112 0903	0.1	137
20240112 0913	0.6	153
20240112 0923	0.2	85
20240112 0933	0.1	154
20240112 0943	0.1	156
20240112 0953	0.2	170
20240112 1003	0.1	45
20240112 1013	0.1	142
20240112 1023	0.1	296
20240112 1033	0.1	33
20240112 1043	1.3	127
20240112 1053	0.2	36
20240112 1103	2.5	124
20240112 1113	1.2	109
20240112 1123	0.4	49
20240112 1133	0.1	150
20240112 1143	0.1	21
20240112 1153	0.1	37

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240112 1203	0.3	52
20240112 1213	4.6	206
20240112 1223	0.3	191
20240112 1233	0.1	200
20240112 1243	0.1	193
20240112 1253	0.2	135
20240112 1303	0.8	116
20240112 1313	3.3	211
20240112 1323	0.7	197
20240112 1333	0.5	210
20240112 1343	0.4	195
20240112 1353	0.1	57
20240112 1403	0.1	201
20240112 1413	0.8	3
20240112 1423	1.2	104
20240112 1433	1.1	96
20240112 1443	1.3	131
20240112 1453	1.7	39
20240112 1503	0.1	63
20240112 1513	0.1	44
20240112 1523	0.1	178
20240112 1533	0.9	127
20240112 1543	0.1	323
20240112 1553	2.5	147
20240112 1603	0.4	114
20240112 1613	0.3	97
20240112 1623	0.1	46
20240112 1633	0.7	113
20240112 1643	0.1	140
20240112 1653	0.8	133
20240112 1703	0.5	116
20240112 1713	0.2	114
20240112 1723	1.5	128
20240112 1733	0.5	120
20240112 1743	1.4	83
20240112 1753	0.5	117
20240112 1803	0.1	130
20240112 1813	0.1	39
20240112 1823	0.1	31
20240112 1833	0.3	136
20240112 1843	0.2	122
20240112 1853	0.2	70
20240112 1903	0.1	138
20240112 1913	0.1	332
20240112 1923	0.1	73
20240112 1933	0.2	40
20240112 1943	0.1	78
20240112 1953	0.1	131
20240112 2003	0.1	112
20240112 2013	0.1	120
20240112 2023	0.1	136
20240112 2033	0.1	54
20240112 2043	0.1	75
20240112 2053	0.4	130
20240112 2103	0.1	343
20240112 2113	0.8	54
20240112 2123	0.2	96
20240112 2133	0.2	104
20240112 2143	0.1	93
20240112 2153	0.1	123
20240112 2203	0.1	64
20240112 2213	0.2	156
20240112 2223	0.1	104
20240112 2233	0.1	102
20240112 2243	0.1	23
20240112 2253	0.1	340
20240112 2303	0.1	83
20240112 2313	0.3	93
20240112 2323	0.1	88
20240112 2333	0.1	100
20240112 2343	0.1	58
20240112 2353	0.1	319



Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240113 0003	0.1	93
20240113 0013	0.1	49
20240113 0023	0.1	11
20240113 0033	0.1	332
20240113 0043	0.1	286
20240113 0053	0.1	146
20240113 0103	0.1	97
20240113 0113	0.1	122
20240113 0123	0.1	285
20240113 0133	0.1	323
20240113 0143	0.1	95
20240113 0153	0.1	96
20240113 0203	0.1	69
20240113 0213	0.1	353
20240113 0223	0.1	353
20240113 0233	0.1	154
20240113 0243	0.1	154
20240113 0253	0.1	288
20240113 0303	0.1	38
20240113 0313	0.1	103
20240113 0323	0.1	36
20240113 0333	0.1	278
20240113 0343	0.1	135
20240113 0353	0.1	172
20240113 0403	0.1	317
20240113 0413	0.1	253
20240113 0423	0.1	110
20240113 0433	0.1	279
20240113 0443	0.1	138
20240113 0453	0.1	46
20240113 0503	0.1	118
20240113 0513	0.1	21
20240113 0523	0.1	98
20240113 0533	0.1	41
20240113 0543	0.1	99
20240113 0553	0.1	148
20240113 0603	0.1	226
20240113 0613	0.1	115
20240113 0623	0.1	27
20240113 0633	0.5	294
20240113 0643	0.1	310
20240113 0653	0.1	278
20240113 0703	0.1	215
20240113 0713	0.1	253
20240113 0723	0.1	179
20240113 0733	1.7	1
20240113 0743	0.1	121
20240113 0753	0.1	350
20240113 0803	0.1	115
20240113 0813	0.1	337
20240113 0823	0.1	258
20240113 0833	0.1	281
20240113 0843	0.1	224
20240113 0853	0.1	217
20240113 0903	0.1	275
20240113 0913	0.1	237
20240113 0923	0.1	133
20240113 0933	0.1	200
20240113 0943	0.6	144
20240113 0953	0.1	147
20240113 1003	0.1	36
20240113 1013	1	144
20240113 1023	0.1	198
20240113 1033	1.4	106
20240113 1043	0.2	239
20240113 1053	0.1	182
20240113 1103	0.2	272
20240113 1113	1.1	166
20240113 1123	0.2	97
20240113 1133	0.3	70
20240113 1143	0.6	2
20240113 1153	0.1	308

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240113 1203	0.4	291
20240113 1213	0.6	353
20240113 1223	0.1	348
20240113 1233	0.2	222
20240113 1243	3.1	8
20240113 1253	0.1	347
20240113 1303	0.1	99
20240113 1313	1.5	149
20240113 1323	0.1	88
20240113 1333	3.2	153
20240113 1343	0.8	129
20240113 1353	1.2	86
20240113 1403	0.1	312
20240113 1413	0.5	74
20240113 1423	0.8	91
20240113 1433	3.7	127
20240113 1443	0.1	130
20240113 1453	0.1	351
20240113 1503	0.1	70
20240113 1513	0.1	49
20240113 1523	0.6	59
20240113 1533	1.2	339
20240113 1543	0.1	207
20240113 1553	0.1	82
20240113 1603	0.1	60
20240113 1613	0.1	5
20240113 1623	0.1	36
20240113 1633	0.1	31
20240113 1643	0.1	279
20240113 1653	0.7	5
20240113 1703	0.5	102
20240113 1713	0.1	135
20240113 1723	0.1	5
20240113 1733	0.1	149
20240113 1743	0.1	91
20240113 1753	0.1	202
20240113 1803	0.1	124
20240113 1813	0.1	306
20240113 1823	0.1	125
20240113 1833	0.1	48
20240113 1843	0.1	73
20240113 1853	0.1	111
20240113 1903	0.1	353
20240113 1913	0.1	153
20240113 1923	0.1	335
20240113 1933	0.2	326
20240113 1943	0.1	151
20240113 1953	1.1	48
20240113 2003	0.1	116
20240113 2013	0.1	140
20240113 2023	0.1	300
20240113 2033	0.1	113
20240113 2043	0.1	93
20240113 2053	0.1	221
20240113 2103	0.1	14
20240113 2113	0.2	324
20240113 2123	0.1	185
20240113 2133	0.1	242
20240113 2143	0.1	49
20240113 2153	0.1	308
20240113 2203	0.1	110
20240113 2213	0.1	241
20240113 2223	0.1	266
20240113 2233	0.1	152
20240113 2243	0.1	193
20240113 2253	0.1	248
20240113 2303	0.1	147
20240113 2313	0.1	59
20240113 2323	0.1	52
20240113 2333	0.1	304
20240113 2343	0.1	96
20240113 2353	0.1	332

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240114 0003	1	125
20240114 0013	1	150
20240114 0023	0.1	143
20240114 0033	0.1	220
20240114 0043	0.1	55
20240114 0053	0.1	281
20240114 0103	0.1	122
20240114 0113	0.1	130
20240114 0123	0.1	246
20240114 0133	0.1	76
20240114 0143	0.1	224
20240114 0153	0.1	96
20240114 0203	0.1	87
20240114 0213	0.8	129
20240114 0223	0.1	187
20240114 0233	0.1	96
20240114 0243	0.1	134
20240114 0253	0.1	123
20240114 0303	0.8	104
20240114 0313	0.1	220
20240114 0323	0.1	295
20240114 0333	0.1	158
20240114 0343	0.1	140
20240114 0353	0.1	227
20240114 0403	0.1	222
20240114 0413	0.1	248
20240114 0423	0.1	163
20240114 0433	0.4	181
20240114 0443	0.2	224
20240114 0453	0.2	86
20240114 0503	0.1	171
20240114 0513	0.1	112
20240114 0523	0.1	286
20240114 0533	0.1	255
20240114 0543	0.1	186
20240114 0553	0.8	112
20240114 0603	0.2	138
20240114 0613	0.1	210
20240114 0623	0.1	129
20240114 0633	0.1	286
20240114 0643	0.1	26
20240114 0653	0.1	183
20240114 0703	0.1	114
20240114 0713	0.1	17
20240114 0723	0.2	220
20240114 0733	0.1	146
20240114 0743	0.1	274
20240114 0753	0.1	237
20240114 0803	0.1	100
20240114 0813	0.2	149
20240114 0823	0.1	144
20240114 0833	0.1	66
20240114 0843	0.1	224
20240114 0853	0.1	114
20240114 0903	0.1	144
20240114 0913	0.1	284
20240114 0923	0.1	150
20240114 0933	0.1	230
20240114 0943	0.1	65
20240114 0953	0.2	150
20240114 1003	0.1	164
20240114 1013	0.1	145
20240114 1023	0.1	296
20240114 1033	0.2	222
20240114 1043	1.9	42
20240114 1053	1	282
20240114 1103	0.1	40
20240114 1113	0.1	21
20240114 1123	1.9	43
20240114 1133	0.3	313
20240114 1143	0.5	339
20240114 1153	1	56

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240114 1203	1.6	47
20240114 1213	0.1	253
20240114 1223	0.1	183
20240114 1233	0.1	152
20240114 1243	0.1	159
20240114 1253	0.1	156
20240114 1303	0.5	251
20240114 1313	0.1	239
20240114 1323	0.1	74
20240114 1333	0.1	149
20240114 1343	2.4	133
20240114 1353	3.8	7
20240114 1403	0.1	64
20240114 1413	0.8	312
20240114 1423	0.2	39
20240114 1433	1.7	340
20240114 1443	0.4	143
20240114 1453	4.1	38
20240114 1503	0.9	338
20240114 1513	0.1	337
20240114 1523	0.1	52
20240114 1533	1.6	11
20240114 1543	0.3	349
20240114 1553	0.1	318
20240114 1603	0.4	27
20240114 1613	0.1	330
20240114 1623	1	46
20240114 1633	0.1	94
20240114 1643	0.4	30
20240114 1653	0.1	349
20240114 1703	0.1	63
20240114 1713	0.1	163
20240114 1723	0.3	100
20240114 1733	0.3	50
20240114 1743	0.1	327
20240114 1753	0.1	0
20240114 1803	0.1	58
20240114 1813	0.1	94
20240114 1823	0.1	78
20240114 1833	0.1	212
20240114 1843	0.1	128
20240114 1853	0.1	191
20240114 1903	0.1	304
20240114 1913	0.1	294
20240114 1923	0.1	99
20240114 1933	0.1	183
20240114 1943	0.1	149
20240114 1953	0.1	269
20240114 2003	0.1	253
20240114 2013	0.1	155
20240114 2023	0.1	97
20240114 2033	0.1	121
20240114 2043	0.1	125
20240114 2053	0.1	154
20240114 2103	0.1	76
20240114 2113	0.1	283
20240114 2123	0.1	320
20240114 2133	0.1	322
20240114 2143	0.1	53
20240114 2153	0.1	66
20240114 2203	0.1	62
20240114 2213	0.1	260
20240114 2223	0.1	82
20240114 2233	0.1	75
20240114 2243	0.1	44
20240114 2253	0.1	48
20240114 2303	0.1	22
20240114 2313	0.1	47
20240114 2323	0.1	45
20240114 2333	0.1	8
20240114 2343	0.1	117
20240114 2353	0.1	220

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240115 0003	0.1	46
20240115 0013	0.1	67
20240115 0023	0.1	65
20240115 0033	0.1	75
20240115 0043	0.1	52
20240115 0053	0.1	46
20240115 0103	0.1	56
20240115 0113	0.1	24
20240115 0123	0.1	61
20240115 0133	0.1	63
20240115 0143	0.1	64
20240115 0153	0.1	48
20240115 0203	0.1	78
20240115 0213	0.1	62
20240115 0223	0.1	98
20240115 0233	0.1	43
20240115 0243	0.1	32
20240115 0253	0.1	224
20240115 0303	0.1	224
20240115 0313	0.1	89
20240115 0323	0.1	62
20240115 0333	0.1	49
20240115 0343	0.1	57
20240115 0353	0.1	50
20240115 0403	0.1	79
20240115 0413	0.1	142
20240115 0423	0.1	84
20240115 0433	0.1	83
20240115 0443	0.1	163
20240115 0453	0.1	67
20240115 0503	0.1	59
20240115 0513	0.1	61
20240115 0523	0.1	40
20240115 0533	0.1	34
20240115 0543	0.1	54
20240115 0553	0.1	39
20240115 0603	0.1	74
20240115 0613	0.1	118
20240115 0623	0.1	69
20240115 0633	0.1	49
20240115 0643	0.1	68
20240115 0653	0.1	64
20240115 0703	0.1	41
20240115 0713	0.1	80
20240115 0723	0.1	354
20240115 0733	0.1	151
20240115 0743	0.1	96
20240115 0753	0.1	60
20240115 0803	0.1	347
20240115 0813	0.1	83
20240115 0823	0.1	27
20240115 0833	0.1	63
20240115 0843	0.1	186
20240115 0853	0.1	109
20240115 0903	0.1	138
20240115 0913	0.1	140
20240115 0923	0.1	105
20240115 0933	0.2	145
20240115 0943	0.1	124
20240115 0953	0.1	114
20240115 1003	0.1	143
20240115 1013	0.4	145
20240115 1023	0.1	153
20240115 1033	0.1	68
20240115 1043	0.1	76
20240115 1053	0.8	49
20240115 1103	1.9	326
20240115 1113	3.2	171
20240115 1123	1.1	12
20240115 1133	0.1	6
20240115 1143	2.2	11
20240115 1153	0.1	55

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240115 1203	0.8	18
20240115 1213	0.1	140
20240115 1223	1	170
20240115 1233	0.4	327
20240115 1243	0.2	107
20240115 1253	1.3	110
20240115 1303	0.1	105
20240115 1313	2.1	24
20240115 1323	2.8	48
20240115 1333	4.5	45
20240115 1343	2.1	98
20240115 1353	0.6	112
20240115 1403	0.1	310
20240115 1413	1.3	185
20240115 1423	0.4	9
20240115 1433	5.8	39
20240115 1443	0.2	7
20240115 1453	0.4	103
20240115 1503	0.9	13
20240115 1513	0.1	207
20240115 1523	0.4	337
20240115 1533	1.6	326
20240115 1543	1.7	355
20240115 1553	0.4	4
20240115 1603	0.5	327
20240115 1613	0.9	96
20240115 1623	2.3	11
20240115 1633	5.3	33
20240115 1643	0.7	115
20240115 1653	0.1	126
20240115 1703	1.4	123
20240115 1713	2.7	69
20240115 1723	2.9	326
20240115 1733	1.1	25
20240115 1743	4.2	122
20240115 1753	8.7	6
20240115 1803	4.3	340
20240115 1813	6.6	44
20240115 1823	0.4	154
20240115 1833	1.9	98
20240115 1843	0.3	283
20240115 1853	0.3	40
20240115 1903	2.8	339
20240115 1913	1.2	67
20240115 1923	0.4	342
20240115 1933	0.1	347
20240115 1943	1.6	114
20240115 1953	0.1	50
20240115 2003	0.6	7
20240115 2013	2.2	331
20240115 2023	2.2	84
20240115 2033	0.3	51
20240115 2043	0.1	24
20240115 2053	0.4	84
20240115 2103	0.9	5
20240115 2113	1.1	81
20240115 2123	3.7	29
20240115 2133	0.4	300
20240115 2143	3.9	16
20240115 2153	2.9	15
20240115 2203	1	63
20240115 2213	2.6	39
20240115 2223	0.3	5
20240115 2233	0.4	41
20240115 2243	7.1	81
20240115 2253	0.2	154
20240115 2303	4.7	58
20240115 2313	0.4	164
20240115 2323	0.8	100
20240115 2333	3.6	11
20240115 2343	0.3	194
20240115 2353	4.1	327

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240116 0003	0.8	69
20240116 0013	0.7	61
20240116 0023	0.9	81
20240116 0033	6.1	85
20240116 0043	14.2	353
20240116 0053	9.9	0
20240116 0103	2.1	48
20240116 0113	6.3	19
20240116 0123	6.6	3
20240116 0133	1.2	344
20240116 0143	8.3	13
20240116 0153	8.2	42
20240116 0203	4.9	19
20240116 0213	0.3	116
20240116 0223	5.4	52
20240116 0233	0.2	279
20240116 0243	4.5	99
20240116 0253	8.7	346
20240116 0303	0.1	351
20240116 0313	0.8	29
20240116 0323	6.6	13
20240116 0333	0.2	103
20240116 0343	0.1	180
20240116 0353	1.1	33
20240116 0403	0.3	279
20240116 0413	1.8	60
20240116 0423	0.5	35
20240116 0433	0.1	85
20240116 0443	0.1	104
20240116 0453	2.6	9
20240116 0503	0.3	264
20240116 0513	0.9	55
20240116 0523	0.4	74
20240116 0533	0.1	103
20240116 0543	0.2	321
20240116 0553	0.1	145
20240116 0603	0.1	176
20240116 0613	0.1	182
20240116 0623	2.7	6
20240116 0633	0.7	0
20240116 0643	1	167
20240116 0653	2.5	293
20240116 0703	0.1	260
20240116 0713	0.2	82
20240116 0723	0.1	321
20240116 0733	0.2	334
20240116 0743	0.4	329
20240116 0753	0.1	172
20240116 0803	0.3	50
20240116 0813	0.1	79
20240116 0823	1.4	349
20240116 0833	1.8	323
20240116 0843	0.2	286
20240116 0853	0.1	246
20240116 0903	0.1	88
20240116 0913	0.5	73
20240116 0923	0.1	347
20240116 0933	0.2	181
20240116 0943	0.6	160
20240116 0953	0.2	14
20240116 1003	0.2	338
20240116 1013	0.1	101
20240116 1023	0.3	245
20240116 1033	0.9	122
20240116 1043	0.1	338
20240116 1053	0.5	350
20240116 1103	0.2	182
20240116 1113	0.1	342
20240116 1123	0.4	33
20240116 1133	1.3	134
20240116 1143	0.1	33
20240116 1153	0.3	216

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240116 1203	0.2	156
20240116 1213	0.1	258
20240116 1223	1.4	69
20240116 1233	0.1	203
20240116 1243	1.2	122
20240116 1253	0.4	307
20240116 1303	0.4	86
20240116 1313	0.1	349
20240116 1323	0.7	188
20240116 1333	2	124
20240116 1343	0.1	83
20240116 1353	0.9	164
20240116 1403	0.1	305
20240116 1413	0.1	70
20240116 1423	0.1	211
20240116 1433	0.1	130
20240116 1443	0.1	87
20240116 1453	0.8	103
20240116 1503	0.3	47
20240116 1513	0.6	68
20240116 1523	1.7	38
20240116 1533	0.3	31
20240116 1543	1.4	106
20240116 1553	2.8	135
20240116 1603	0.3	106
20240116 1613	1	47
20240116 1623	1	17
20240116 1633	2.5	145
20240116 1643	4.5	100
20240116 1653	0.1	32
20240116 1703	5.1	113
20240116 1713	0.5	133
20240116 1723	0.2	186
20240116 1733	1.2	131
20240116 1743	0.4	63
20240116 1753	1	102
20240116 1803	0.5	166
20240116 1813	0.1	42
20240116 1823	0.1	61
20240116 1833	0.1	168
20240116 1843	0.1	330
20240116 1853	0.1	125
20240116 1903	0.1	315
20240116 1913	0.1	114
20240116 1923	0.1	105
20240116 1933	0.2	152
20240116 1943	0.1	15
20240116 1953	0.8	35
20240116 2003	0.1	139
20240116 2013	0.5	120
20240116 2023	0.1	18
20240116 2033	3.1	45
20240116 2043	0.2	345
20240116 2053	0.4	22
20240116 2103	0.2	355
20240116 2113	0.7	1
20240116 2123	0.3	31
20240116 2133	1.5	161
20240116 2143	0.4	173
20240116 2153	1.1	343
20240116 2203	0.1	233
20240116 2213	1.5	323
20240116 2223	0.2	40
20240116 2233	0.3	129
20240116 2243	1.7	12
20240116 2253	0.1	99
20240116 2303	0.1	9
20240116 2313	0.4	100
20240116 2323	0.1	98
20240116 2333	0.1	68
20240116 2343	0.1	32
20240116 2353	0.4	329

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240117 0003	0.1	83
20240117 0013	0.1	108
20240117 0023	0.5	102
20240117 0033	0.7	112
20240117 0043	0.8	297
20240117 0053	1.6	5
20240117 0103	0.3	68
20240117 0113	0.1	46
20240117 0123	0.1	140
20240117 0133	0.1	42
20240117 0143	0.1	132
20240117 0153	0.1	313
20240117 0203	0.1	38
20240117 0213	0.1	134
20240117 0223	0.1	104
20240117 0233	0.1	160
20240117 0243	0.1	133
20240117 0253	0.1	324
20240117 0303	0.1	100
20240117 0313	0.1	317
20240117 0323	0.1	111
20240117 0333	0.1	11
20240117 0343	0.1	57
20240117 0353	0.1	62
20240117 0403	0.1	70
20240117 0413	0.1	86
20240117 0423	0.1	39
20240117 0433	0.1	77
20240117 0443	0.1	51
20240117 0453	0.1	77
20240117 0503	0.1	55
20240117 0513	0.1	63
20240117 0523	0.8	348
20240117 0533	0.1	32
20240117 0543	0.1	344
20240117 0553	0.1	274
20240117 0603	0.1	80
20240117 0613	0.1	110
20240117 0623	0.1	24
20240117 0633	0.1	87
20240117 0643	0.1	137
20240117 0653	0.1	133
20240117 0703	0.1	20
20240117 0713	0.1	291
20240117 0723	0.2	175
20240117 0733	0.1	237
20240117 0743	0.1	1
20240117 0753	0.1	61
20240117 0803	0.2	99
20240117 0813	0.5	115
20240117 0823	0.3	298
20240117 0833	0.1	137
20240117 0843	0.1	117
20240117 0853	0.2	184
20240117 0903	0.1	161
20240117 0913	0.5	13
20240117 0923	1.3	75
20240117 0933	0.1	70
20240117 0943	0.4	147
20240117 0953	0.1	207
20240117 1003	0.1	337
20240117 1013	0.1	253
20240117 1023	0.1	268
20240117 1033	0.2	31
20240117 1043	0.1	35
20240117 1053	1.2	355
20240117 1103	0.7	88
20240117 1113	2.7	49
20240117 1123	1.3	42
20240117 1133	1.5	14
20240117 1143	0.1	161
20240117 1153	5.4	135

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240117 1203	0.2	302
20240117 1213	0.5	350
20240117 1223	0.1	50
20240117 1233	0.1	68
20240117 1243	0.1	82
20240117 1253	0.1	47
20240117 1303	0.1	231
20240117 1313	0.3	322
20240117 1323	0.1	10
20240117 1333	0.1	187
20240117 1343	1.8	311
20240117 1353	0.1	100
20240117 1403	0.1	122
20240117 1413	0.1	48
20240117 1423	0.1	124
20240117 1433	0.1	172
20240117 1443	0.1	96
20240117 1453	0.1	294
20240117 1503	0.3	340
20240117 1513	0.1	8
20240117 1523	0.8	180
20240117 1533	0.2	104
20240117 1543	0.1	100
20240117 1553	0.1	158
20240117 1603	0.5	155
20240117 1613	0.5	153
20240117 1623	0.2	142
20240117 1633	0.1	297
20240117 1643	0.1	131
20240117 1653	0.1	152
20240117 1703	0.1	134
20240117 1713	0.1	108
20240117 1723	0.2	117
20240117 1733	0.1	166
20240117 1743	0.1	203
20240117 1753	0.1	164
20240117 1803	0.1	142
20240117 1813	0.1	140
20240117 1823	0.2	254
20240117 1833	0.1	62
20240117 1843	0.1	3
20240117 1853	0.1	83
20240117 1903	0.1	83
20240117 1913	0.1	344
20240117 1923	0.1	94
20240117 1933	0.2	123
20240117 1943	0.1	184
20240117 1953	0.1	153
20240117 2003	0.1	136
20240117 2013	0.1	155
20240117 2023	0.1	45
20240117 2033	0.1	196
20240117 2043	0.1	152
20240117 2053	0.1	48
20240117 2103	0.1	150
20240117 2113	0.1	175
20240117 2123	0.1	313
20240117 2133	0.1	136
20240117 2143	0.1	149
20240117 2153	0.1	38
20240117 2203	0.1	66
20240117 2213	0.1	111
20240117 2223	0.1	53
20240117 2233	0.1	103
20240117 2243	0.1	141
20240117 2253	0.1	146
20240117 2303	0.1	268
20240117 2313	0.1	108
20240117 2323	0.1	144
20240117 2333	0.1	104
20240117 2343	0.1	36
20240117 2353	0.1	160

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240118 0003	0.1	21
20240118 0013	0.1	113
20240118 0023	0.1	37
20240118 0033	0.1	176
20240118 0043	0.1	144
20240118 0053	0.1	142
20240118 0103	0.1	349
20240118 0113	0.1	128
20240118 0123	0.1	187
20240118 0133	0.1	141
20240118 0143	0.1	142
20240118 0153	0.1	53
20240118 0203	0.1	251
20240118 0213	0.1	52
20240118 0223	0.1	111
20240118 0233	0.1	18
20240118 0243	0.1	11
20240118 0253	0.1	14
20240118 0303	0.1	294
20240118 0313	0.1	265
20240118 0323	0.1	136
20240118 0333	0.1	70
20240118 0343	0.1	30
20240118 0353	0.1	164
20240118 0403	0.1	137
20240118 0413	0.1	153
20240118 0423	0.1	46
20240118 0433	0.1	140
20240118 0443	0.1	99
20240118 0453	0.1	121
20240118 0503	0.1	140
20240118 0513	0.1	259
20240118 0523	0.1	110
20240118 0533	0.1	130
20240118 0543	0.1	67
20240118 0553	0.1	204
20240118 0603	0.1	95
20240118 0613	0.1	53
20240118 0623	0.3	9
20240118 0633	0.8	306
20240118 0643	0.1	175
20240118 0653	0.1	128
20240118 0703	0.1	288
20240118 0713	0.1	82
20240118 0723	0.1	32
20240118 0733	0.1	248
20240118 0743	0.1	137
20240118 0753	0.1	129
20240118 0803	0.1	103
20240118 0813	0.6	131
20240118 0823	0.9	126
20240118 0833	0.1	116
20240118 0843	0.1	157
20240118 0853	0.1	154
20240118 0903	0.1	180
20240118 0913	0.1	121
20240118 0923	0.1	87
20240118 0933	0.3	147
20240118 0943	0.1	60
20240118 0953	0.1	60
20240118 1003	1.1	54
20240118 1013	0.1	86
20240118 1023	0.1	49
20240118 1033	0.3	22
20240118 1043	0.1	147
20240118 1053	0.1	14
20240118 1103	1	9
20240118 1113	0.5	115
20240118 1123	0.3	29
20240118 1133	0.1	48
20240118 1143	1.5	72
20240118 1153	1.8	38

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240118 1203	0.2	339
20240118 1213	1.9	10
20240118 1223	2.7	353
20240118 1233	0.3	19
20240118 1243	0.4	0
20240118 1253	1.6	64
20240118 1303	0.1	123
20240118 1313	1	338
20240118 1323	0.1	142
20240118 1333	2.7	159
20240118 1343	1.6	169
20240118 1353	0.1	48
20240118 1403	0.1	341
20240118 1413	2.7	143
20240118 1423	0.4	353
20240118 1433	0.1	31
20240118 1443	0.1	24
20240118 1453	0.5	278
20240118 1503	0.1	307
20240118 1513	1	348
20240118 1523	2.4	271
20240118 1533	0.6	66
20240118 1543	0.6	312
20240118 1553	3	3
20240118 1603	0.3	354
20240118 1613	0.1	152
20240118 1623	0.1	263
20240118 1633	1.3	32
20240118 1643	0.1	107
20240118 1653	0.1	6
20240118 1703	0.1	354
20240118 1713	0.1	50
20240118 1723	0.4	135
20240118 1733	0.5	145
20240118 1743	0.2	127
20240118 1753	0.3	55
20240118 1803	0.1	35
20240118 1813	0.1	29
20240118 1823	0.1	33
20240118 1833	0.8	96
20240118 1843	0.1	120
20240118 1853	0.1	152
20240118 1903	1.5	118
20240118 1913	0.1	91
20240118 1923	2.7	167
20240118 1933	0.1	60
20240118 1943	1.3	116
20240118 1953	0.3	142
20240118 2003	0.1	134
20240118 2013	0.7	113
20240118 2023	0.9	144
20240118 2033	0.1	126
20240118 2043	0.1	69
20240118 2053	0.1	105
20240118 2103	0.1	106
20240118 2113	0.1	235
20240118 2123	0.1	27
20240118 2133	0.1	154
20240118 2143	0.1	121
20240118 2153	0.1	165
20240118 2203	0.1	347
20240118 2213	0.1	175
20240118 2223	0.1	97
20240118 2233	0.1	278
20240118 2243	0.1	14
20240118 2253	0.1	354
20240118 2303	0.1	45
20240118 2313	0.1	342
20240118 2323	0.1	41
20240118 2333	0.5	168
20240118 2343	0.2	53
20240118 2353	0.1	108

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240119 0003	0.1	288
20240119 0013	0.1	41
20240119 0023	0.1	38
20240119 0033	0.1	46
20240119 0043	0.1	332
20240119 0053	0.1	0
20240119 0103	0.1	53
20240119 0113	0.1	24
20240119 0123	0.1	47
20240119 0133	0.1	15
20240119 0143	0.1	157
20240119 0153	0.1	53
20240119 0203	0.1	82
20240119 0213	0.1	47
20240119 0223	0.1	50
20240119 0233	0.1	38
20240119 0243	0.1	89
20240119 0253	0.1	79
20240119 0303	0.1	24
20240119 0313	0.1	45
20240119 0323	0.1	82
20240119 0333	0.1	20
20240119 0343	0.1	98
20240119 0353	0.1	50
20240119 0403	0.1	59
20240119 0413	0.1	50
20240119 0423	0.1	352
20240119 0433	0.1	59
20240119 0443	0.1	58
20240119 0453	0.1	51
20240119 0503	0.1	41
20240119 0513	0.1	56
20240119 0523	0.1	61
20240119 0533	0.1	23
20240119 0543	0.1	49
20240119 0553	0.1	62
20240119 0603	0.1	106
20240119 0613	0.1	52
20240119 0623	0.1	39
20240119 0633	0.1	61
20240119 0643	0.1	47
20240119 0653	0.1	59
20240119 0703	0.1	20
20240119 0713	0.1	266
20240119 0723	0.1	74
20240119 0733	0.1	55
20240119 0743	0.1	86
20240119 0753	0.1	317
20240119 0803	0.1	14
20240119 0813	0.1	73
20240119 0823	0.1	85
20240119 0833	0.1	137
20240119 0843	0.1	141
20240119 0853	0.1	108
20240119 0903	0.2	136
20240119 0913	0.1	88
20240119 0923	0.1	104
20240119 0933	0.2	137
20240119 0943	0.5	113
20240119 0953	0.1	136
20240119 1003	2.3	52
20240119 1013	1.4	92
20240119 1023	2.9	124
20240119 1033	0.9	13
20240119 1043	0.2	84
20240119 1053	0.1	14
20240119 1103	1.2	330
20240119 1113	0.1	44
20240119 1123	2.3	124
20240119 1133	3.5	142
20240119 1143	1.1	151
20240119 1153	0.6	104

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240119 1203	1.7	12
20240119 1213	1	43
20240119 1223	1.4	324
20240119 1233	0.1	312
20240119 1243	0.1	328
20240119 1253	4	31
20240119 1303	0.1	209
20240119 1313	0.4	67
20240119 1323	0.4	199
20240119 1333	2.3	54
20240119 1343	0.6	7
20240119 1353	1.7	324
20240119 1403	0.3	272
20240119 1413	0.1	42
20240119 1423	0.1	6
20240119 1433	0.3	177
20240119 1443	0.2	97
20240119 1453	0.8	338
20240119 1503	0.3	185
20240119 1513	6.5	109
20240119 1523	1.9	81
20240119 1533	0.6	352
20240119 1543	1.1	107
20240119 1553	0.1	91
20240119 1603	2.7	61
20240119 1613	0.8	335
20240119 1623	2.6	163
20240119 1633	0.6	59
20240119 1643	0.8	7
20240119 1653	0.1	167
20240119 1703	0.1	18
20240119 1713	0.1	86
20240119 1723	0.4	176
20240119 1733	0.1	243
20240119 1743	0.9	227
20240119 1753	0.1	296
20240119 1803	0.1	292
20240119 1813	1.7	106
20240119 1823	0.1	168
20240119 1833	0.1	101
20240119 1843	1	27
20240119 1853	0.1	323
20240119 1903	0.2	265
20240119 1913	0.1	9
20240119 1923	1.4	30
20240119 1933	0.1	134
20240119 1943	0.1	340
20240119 1953	0.1	20
20240119 2003	0.1	341
20240119 2013	0.9	4
20240119 2023	0.1	7
20240119 2033	0.4	320
20240119 2043	0.1	139
20240119 2053	2.5	325
20240119 2103	0.1	82
20240119 2113	0.1	46
20240119 2123	0.1	319
20240119 2133	0.2	329
20240119 2143	0.1	300
20240119 2153	1	317
20240119 2203	0.1	95
20240119 2213	0.1	297
20240119 2223	0.1	340
20240119 2233	0.1	351
20240119 2243	0.1	29
20240119 2253	0.1	14
20240119 2303	0.1	334
20240119 2313	0.8	102
20240119 2323	0.3	276
20240119 2333	0.1	108
20240119 2343	0.1	311
20240119 2353	0.1	21

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240120 0003	1.4	301
20240120 0013	0.2	319
20240120 0023	0.1	296
20240120 0033	1.6	332
20240120 0043	2.4	338
20240120 0053	0.4	324
20240120 0103	0.1	239
20240120 0113	2.6	339
20240120 0123	2.8	335
20240120 0133	2.2	172
20240120 0143	0.6	332
20240120 0153	0.2	279
20240120 0203	0.2	338
20240120 0213	0.5	72
20240120 0223	0.4	352
20240120 0233	0.2	80
20240120 0243	1.2	125
20240120 0253	0.1	125
20240120 0303	0.1	303
20240120 0313	0.1	331
20240120 0323	0.1	94
20240120 0333	0.1	102
20240120 0343	0.1	145
20240120 0353	0.1	3
20240120 0403	0.1	344
20240120 0413	0.1	6
20240120 0423	0.1	56
20240120 0433	0.1	57
20240120 0443	0.1	101
20240120 0453	0.1	113
20240120 0503	0.1	62
20240120 0513	0.1	20
20240120 0523	0.1	352
20240120 0533	0.1	72
20240120 0543	0.1	14
20240120 0553	0.1	45
20240120 0603	0.1	3
20240120 0613	0.1	344
20240120 0623	0.1	83
20240120 0633	0.1	3
20240120 0643	0.1	64
20240120 0653	0.1	58
20240120 0703	0.1	70
20240120 0713	0.1	48
20240120 0723	0.1	22
20240120 0733	0.1	113
20240120 0743	0.1	99
20240120 0753	0.1	132
20240120 0803	0.1	120
20240120 0813	0.1	126
20240120 0823	0.1	107
20240120 0833	0.1	109
20240120 0843	0.1	125
20240120 0853	0.1	121
20240120 0903	0.1	117
20240120 0913	0.1	134
20240120 0923	0.1	116
20240120 0933	0.1	174
20240120 0943	0.1	248
20240120 0953	0.1	137
20240120 1003	0.1	90
20240120 1013	0.1	126
20240120 1023	0.1	127
20240120 1033	0.3	60
20240120 1043	0.1	39
20240120 1053	0.2	49
20240120 1103	0.1	324
20240120 1113	0.2	117
20240120 1123	2.4	127
20240120 1133	0.3	105
20240120 1143	0.1	38
20240120 1153	0.1	19

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240120 1203	1.4	280
20240120 1213	0.4	132
20240120 1223	0.1	185
20240120 1233	0.3	297
20240120 1243	0.1	187
20240120 1253	0.2	288
20240120 1303	0.8	252
20240120 1313	0.4	104
20240120 1323	0.1	332
20240120 1333	0.1	248
20240120 1343	0.5	264
20240120 1353	0.1	183
20240120 1403	0.2	191
20240120 1413	0.4	27
20240120 1423	0.4	98
20240120 1433	0.3	101
20240120 1443	1.1	108
20240120 1453	0.3	99
20240120 1503	1	309
20240120 1513	2.9	123
20240120 1523	0.1	206
20240120 1533	0.3	185
20240120 1543	1.2	164
20240120 1553	1.3	125
20240120 1603	0.4	83
20240120 1613	0.3	85
20240120 1623	0.4	114
20240120 1633	0.1	187
20240120 1643	0.1	78
20240120 1653	0.6	309
20240120 1703	0.6	327
20240120 1713	0.4	135
20240120 1723	0.4	118
20240120 1733	0.1	125
20240120 1743	1.2	94
20240120 1753	0.1	115
20240120 1803	0.2	129
20240120 1813	0.2	178
20240120 1823	0.1	207
20240120 1833	0.1	52
20240120 1843	0.3	118
20240120 1853	0.1	327
20240120 1903	0.1	135
20240120 1913	0.1	144
20240120 1923	0.1	325
20240120 1933	0.1	124
20240120 1943	0.1	348
20240120 1953	0.1	216
20240120 2003	0.1	109
20240120 2013	0.1	30
20240120 2023	0.1	65
20240120 2033	0.1	77
20240120 2043	0.1	77
20240120 2053	0.1	333
20240120 2103	0.1	122
20240120 2113	0.1	44
20240120 2123	0.1	87
20240120 2133	0.1	76
20240120 2143	0.1	42
20240120 2153	0.1	11
20240120 2203	0.3	304
20240120 2213	0.1	305
20240120 2223	0.3	320
20240120 2233	0.2	242
20240120 2243	0.1	291
20240120 2253	2.2	277
20240120 2303	0.1	354
20240120 2313	0.1	335
20240120 2323	0.1	259
20240120 2333	0.1	109
20240120 2343	0.1	105
20240120 2353	1.2	334



Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240121 0003	0.3	339
20240121 0013	0.2	298
20240121 0023	0.3	79
20240121 0033	0.2	355
20240121 0043	1.1	314
20240121 0053	0.1	341
20240121 0103	0.3	327
20240121 0113	0.1	59
20240121 0123	0.1	35
20240121 0133	0.1	91
20240121 0143	0.1	350
20240121 0153	0.1	104
20240121 0203	0.1	152
20240121 0213	0.1	309
20240121 0223	0.1	224
20240121 0233	0.1	132
20240121 0243	0.1	48
20240121 0253	0.1	302
20240121 0303	0.1	325
20240121 0313	0.1	46
20240121 0323	0.1	167
20240121 0333	0.3	351
20240121 0343	0.1	107
20240121 0353	0.1	117
20240121 0403	0.1	148
20240121 0413	0.1	148
20240121 0423	0.1	138
20240121 0433	0.1	113
20240121 0443	0.1	90
20240121 0453	0.1	150
20240121 0503	0.1	90
20240121 0513	0.1	57
20240121 0523	0.1	128
20240121 0533	0.1	53
20240121 0543	0.1	145
20240121 0553	0.1	80
20240121 0603	0.1	125
20240121 0613	0.1	143
20240121 0623	0.1	103
20240121 0633	0.1	165
20240121 0643	0.1	98
20240121 0653	0.1	148
20240121 0703	0.1	148
20240121 0713	0.1	118
20240121 0723	0.1	56
20240121 0733	0.1	52
20240121 0743	0.1	91
20240121 0753	0.1	133
20240121 0803	0.1	141
20240121 0813	0.1	131
20240121 0823	0.1	169
20240121 0833	0.1	168
20240121 0843	0.1	206
20240121 0853	0.1	144
20240121 0903	0.2	148
20240121 0913	0.2	123
20240121 0923	0.2	123
20240121 0933	0.1	113
20240121 0943	0.1	19
20240121 0953	0.1	242
20240121 1003	0.1	136
20240121 1013	0.4	148
20240121 1023	0.1	292
20240121 1033	0.1	258
20240121 1043	0.1	50
20240121 1053	0.1	156
20240121 1103	0.1	11
20240121 1113	0.1	274
20240121 1123	0.1	195
20240121 1133	0.1	88
20240121 1143	0.5	260
20240121 1153	0.1	91

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240121 1203	0.1	255
20240121 1213	0.1	127
20240121 1223	0.2	100
20240121 1233	1.6	121
20240121 1243	0.2	190
20240121 1253	0.1	181
20240121 1303	0.1	28
20240121 1313	0.1	23
20240121 1323	0.1	185
20240121 1333	0.1	146
20240121 1343	0.1	35
20240121 1353	0.7	35
20240121 1403	0.9	65
20240121 1413	1	106
20240121 1423	0.1	20
20240121 1433	0.1	189
20240121 1443	0.1	291
20240121 1453	0.1	273
20240121 1503	1	75
20240121 1513	0.1	61
20240121 1523	0.1	68
20240121 1533	0.1	156
20240121 1543	0.4	321
20240121 1553	0.1	141
20240121 1603	0.1	70
20240121 1613	0.1	198
20240121 1623	0.1	95
20240121 1633	0.3	141
20240121 1643	0.1	117
20240121 1653	0.1	240
20240121 1703	0.1	39
20240121 1713	0.1	61
20240121 1723	0.1	99
20240121 1733	0.1	165
20240121 1743	0.1	305
20240121 1753	0.1	312
20240121 1803	0.1	138
20240121 1813	0.1	141
20240121 1823	0.1	68
20240121 1833	0.1	109
20240121 1843	0.1	108
20240121 1853	0.1	24
20240121 1903	0.4	71
20240121 1913	0.7	92
20240121 1923	0.2	121
20240121 1933	0.4	117
20240121 1943	0.2	50
20240121 1953	0.6	112
20240121 2003	0.3	115
20240121 2013	0.4	145
20240121 2023	0.4	129
20240121 2033	0.1	102
20240121 2043	0.1	112
20240121 2053	0.3	134
20240121 2103	0.1	126
20240121 2113	0.1	155
20240121 2123	0.1	159
20240121 2133	0.1	161
20240121 2143	0.2	25
20240121 2153	0.1	140
20240121 2203	0.1	98
20240121 2213	0.1	63
20240121 2223	0.1	351
20240121 2233	0.1	141
20240121 2243	0.1	104
20240121 2253	0.2	27
20240121 2303	0.1	96
20240121 2313	0.3	116
20240121 2323	0.2	23
20240121 2333	0.1	254
20240121 2343	0.1	139
20240121 2353	0.1	208

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240122 0003	0.1	212
20240122 0013	0.1	136
20240122 0023	0.1	81
20240122 0033	0.1	136
20240122 0043	0.1	241
20240122 0053	0.1	233
20240122 0103	0.1	273
20240122 0113	0.1	173
20240122 0123	0.1	152
20240122 0133	0.1	128
20240122 0143	0.1	88
20240122 0153	0.1	270
20240122 0203	0.1	150
20240122 0213	0.1	35
20240122 0223	0.1	102
20240122 0233	0.1	142
20240122 0243	0.1	161
20240122 0253	0.1	122
20240122 0303	0.1	269
20240122 0313	0.1	121
20240122 0323	0.1	101
20240122 0333	0.1	142
20240122 0343	0.2	97
20240122 0353	1.2	308
20240122 0403	0.2	11
20240122 0413	0.1	56
20240122 0423	0.8	348
20240122 0433	0.3	325
20240122 0443	0.4	27
20240122 0453	2.6	296
20240122 0503	0.5	353
20240122 0513	0.7	275
20240122 0523	0.1	45
20240122 0533	0.1	280
20240122 0543	0.1	90
20240122 0553	0.1	68
20240122 0603	0.1	277
20240122 0613	0.1	144
20240122 0623	0.1	153
20240122 0633	0.1	207
20240122 0643	0.1	151
20240122 0653	0.1	143
20240122 0703	0.1	108
20240122 0713	0.1	152
20240122 0723	0.1	133
20240122 0733	0.1	55
20240122 0743	0.2	166
20240122 0753	0.1	162
20240122 0803	0.1	41
20240122 0813	0.1	351
20240122 0823	0.1	283
20240122 0833	0.6	263
20240122 0843	0.1	218
20240122 0853	0.1	290
20240122 0903	0.2	87
20240122 0913	0.4	311
20240122 0923	0.2	287
20240122 0933	0.6	307
20240122 0943	1.1	12
20240122 0953	0.1	133
20240122 1003	1	281
20240122 1013	0.2	343
20240122 1023	0.1	21
20240122 1033	0.3	15
20240122 1043	0.1	89
20240122 1053	0.1	45
20240122 1103	0.1	334
20240122 1113	0.1	276
20240122 1123	0.1	349
20240122 1133	0.1	272
20240122 1143	0.5	50
20240122 1153	0.1	348

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240122 1203	0.3	75
20240122 1213	0.1	146
20240122 1223	0.6	299
20240122 1233	0.1	313
20240122 1243	0.6	354
20240122 1253	0.1	343
20240122 1303	2.9	95
20240122 1313	0.1	97
20240122 1323	1.2	335
20240122 1333	0.2	311
20240122 1343	1.4	50
20240122 1353	0.9	85
20240122 1403	0.4	282
20240122 1413	1.6	14
20240122 1423	0.4	19
20240122 1433	0.6	33
20240122 1443	0.1	325
20240122 1453	0.1	317
20240122 1503	2.1	316
20240122 1513	0.2	273
20240122 1523	0.1	298
20240122 1533	0.5	300
20240122 1543	0.2	331
20240122 1553	1.7	67
20240122 1603	0.9	303
20240122 1613	1.6	247
20240122 1623	0.1	321
20240122 1633	0.2	274
20240122 1643	0.1	342
20240122 1653	0.1	327
20240122 1703	0.5	294
20240122 1713	0.2	241
20240122 1723	0.6	89
20240122 1733	1.5	4
20240122 1743	0.1	348
20240122 1753	0.8	244
20240122 1803	0.1	89
20240122 1813	1.8	129
20240122 1823	0.1	157
20240122 1833	0.4	98
20240122 1843	2	346
20240122 1853	2.2	332
20240122 1903	0.1	249
20240122 1913	1	122
20240122 1923	0.8	166
20240122 1933	0.9	342
20240122 1943	2.9	347
20240122 1953	1.7	276
20240122 2003	0.2	283
20240122 2013	1.8	338
20240122 2023	0.1	242
20240122 2033	0.1	28
20240122 2043	0.1	97
20240122 2053	2.5	308
20240122 2103	5.6	315
20240122 2113	0.3	124
20240122 2123	0.1	133
20240122 2133	4.9	319
20240122 2143	0.1	232
20240122 2153	0.3	127
20240122 2203	0.1	64
20240122 2213	1.9	108
20240122 2223	1.2	306
20240122 2233	0.1	332
20240122 2243	0.6	321
20240122 2253	0.1	314
20240122 2303	0.4	40
20240122 2313	0.1	302
20240122 2323	1.4	34
20240122 2333	0.1	34
20240122 2343	0.3	241
20240122 2353	0.2	317

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240123 0003	0.1	256
20240123 0013	0.1	264
20240123 0023	0.1	30
20240123 0033	0.3	320
20240123 0043	0.1	116
20240123 0053	0.3	290
20240123 0103	2.5	347
20240123 0113	5.3	307
20240123 0123	0.2	109
20240123 0133	0.2	293
20240123 0143	0.2	318
20240123 0153	2.3	45
20240123 0203	0.1	262
20240123 0213	0.2	303
20240123 0223	1.7	317
20240123 0233	0.1	313
20240123 0243	0.2	303
20240123 0253	0.1	300
20240123 0303	0.1	307
20240123 0313	0.1	126
20240123 0323	0.5	16
20240123 0333	0.1	334
20240123 0343	1.3	338
20240123 0353	0.1	320
20240123 0403	0.4	349
20240123 0413	6.2	311
20240123 0423	1.1	92
20240123 0433	1.2	351
20240123 0443	0.1	117
20240123 0453	0.5	164
20240123 0503	0.3	326
20240123 0513	0.1	332
20240123 0523	0.1	273
20240123 0533	0.1	255
20240123 0543	0.1	346
20240123 0553	0.2	343
20240123 0603	0.3	264
20240123 0613	1.4	52
20240123 0623	0.1	88
20240123 0633	0.3	318
20240123 0643	0.1	34
20240123 0653	1.6	316
20240123 0703	0.4	293
20240123 0713	0.1	20
20240123 0723	0.3	351
20240123 0733	1.5	206
20240123 0743	0.3	284
20240123 0753	0.8	313
20240123 0803	0.2	267
20240123 0813	0.1	25
20240123 0823	3.4	332
20240123 0833	4.7	320
20240123 0843	0.9	321
20240123 0853	2.4	319
20240123 0903	0.5	323
20240123 0913	0.2	316
20240123 0923	0.8	16
20240123 0933	0.1	4
20240123 0943	0.1	297
20240123 0953	0.5	282
20240123 1003	0.1	289
20240123 1013	0.6	328
20240123 1023	0.1	54
20240123 1033	0.1	269
20240123 1043	0.1	25
20240123 1053	0.5	11
20240123 1103	0.1	25
20240123 1113	0.1	22
20240123 1123	0.3	302
20240123 1133	0.1	78
20240123 1143	0.2	286
20240123 1153	1.1	295

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240123 1203	3.2	321
20240123 1213	0.7	341
20240123 1223	0.6	89
20240123 1233	0.1	38
20240123 1243	0.1	105
20240123 1253	0.1	47
20240123 1303	0.2	10
20240123 1313	0.4	291
20240123 1323	0.6	124
20240123 1333	0.1	85
20240123 1343	0.3	106
20240123 1353	2.3	322
20240123 1403	0.4	62
20240123 1413	0.1	246
20240123 1423	2	48
20240123 1433	2.5	56
20240123 1443	0.7	295
20240123 1453	0.9	20
20240123 1503	0.2	338
20240123 1513	0.2	348
20240123 1523	0.1	64
20240123 1533	5.5	43
20240123 1543	0.1	288
20240123 1553	0.2	318
20240123 1603	0.1	316
20240123 1613	0.2	153
20240123 1623	0.1	258
20240123 1633	0.9	349
20240123 1643	2	347
20240123 1653	0.3	339
20240123 1703	0.3	319
20240123 1713	0.4	354
20240123 1723	2.3	312
20240123 1733	0.1	334
20240123 1743	0.1	254
20240123 1753	0.1	72
20240123 1803	0.7	286
20240123 1813	5.7	305
20240123 1823	0.8	178
20240123 1833	1.6	263
20240123 1843	5.3	316
20240123 1853	0.1	323
20240123 1903	0.1	324
20240123 1913	1.3	310
20240123 1923	0.1	249
20240123 1933	0.1	39
20240123 1943	0.1	99
20240123 1953	0.8	334
20240123 2003	0.1	318
20240123 2013	0.1	338
20240123 2023	0.1	337
20240123 2033	0.2	321
20240123 2043	0.1	55
20240123 2053	0.1	337
20240123 2103	0.8	322
20240123 2113	0.4	319
20240123 2123	0.1	184
20240123 2133	0.6	308
20240123 2143	0.1	57
20240123 2153	0.3	30
20240123 2203	0.1	162
20240123 2213	5	325
20240123 2223	0.1	48
20240123 2233	0.1	228
20240123 2243	0.1	4
20240123 2253	0.1	63
20240123 2303	2	80
20240123 2313	0.6	8
20240123 2323	0.1	327
20240123 2333	0.1	341
20240123 2343	0.1	36
20240123 2353	0.1	33

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240124 0003	3.3	341
20240124 0013	0.2	294
20240124 0023	1.3	53
20240124 0033	0.2	336
20240124 0043	0.6	4
20240124 0053	0.1	349
20240124 0103	0.1	23
20240124 0113	0.4	349
20240124 0123	1.3	344
20240124 0133	0.1	72
20240124 0143	0.3	193
20240124 0153	0.2	316
20240124 0203	0.1	351
20240124 0213	0.1	54
20240124 0223	0.7	331
20240124 0233	0.1	291
20240124 0243	0.3	115
20240124 0253	0.4	317
20240124 0303	0.3	340
20240124 0313	0.1	310
20240124 0323	1.1	308
20240124 0333	0.1	337
20240124 0343	0.1	182
20240124 0353	0.3	26
20240124 0403	1.3	16
20240124 0413	0.1	323
20240124 0423	0.1	342
20240124 0433	0.1	131
20240124 0443	0.2	94
20240124 0453	0.1	78
20240124 0503	0.1	286
20240124 0513	0.8	355
20240124 0523	0.2	297
20240124 0533	0.1	88
20240124 0543	0.1	283
20240124 0553	0.3	30
20240124 0603	0.1	355
20240124 0613	0.2	331
20240124 0623	0.2	349
20240124 0633	0.1	278
20240124 0643	0.1	324
20240124 0653	0.1	45
20240124 0703	0.1	342
20240124 0713	0.1	44
20240124 0723	0.1	213
20240124 0733	0.1	318
20240124 0743	0.1	205
20240124 0753	0.1	350
20240124 0803	0.1	97
20240124 0813	0.2	299
20240124 0823	0.2	341
20240124 0833	3.1	3
20240124 0843	0.5	301
20240124 0853	0.1	263
20240124 0903	2.7	347
20240124 0913	0.1	27
20240124 0923	0.5	110
20240124 0933	0.3	20
20240124 0943	0.1	10
20240124 0953	0.1	321
20240124 1003	0.2	38
20240124 1013	0.3	85
20240124 1023	0.1	64
20240124 1033	0.1	50
20240124 1043	0.3	138
20240124 1053	0.1	277
20240124 1103	0.2	92
20240124 1113	0.2	83
20240124 1123	0.1	328
20240124 1133	0.1	107
20240124 1143	0.2	48
20240124 1153	0.3	87

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240124 1203	0.3	59
20240124 1213	1	63
20240124 1223	0.1	50
20240124 1233	0.4	111
20240124 1243	0.2	103
20240124 1253	1.2	57
20240124 1303	0.5	272
20240124 1313	0.3	53
20240124 1323	0.1	97
20240124 1333	0.6	337
20240124 1343	0.1	119
20240124 1353	0.9	34
20240124 1403	0.5	44
20240124 1413	0.1	138
20240124 1423	0.5	147
20240124 1433	0.1	222
20240124 1443	0.1	285
20240124 1453	4.7	82
20240124 1503	0.1	133
20240124 1513	0.1	20
20240124 1523	1.9	6
20240124 1533	0.4	44
20240124 1543	0.2	305
20240124 1553	0.1	4
20240124 1603	0.9	299
20240124 1613	0.5	51
20240124 1623	0.1	93
20240124 1633	0.2	160
20240124 1643	0.2	35
20240124 1653	0.1	4
20240124 1703	0.1	319
20240124 1713	0.1	321
20240124 1723	0.1	122
20240124 1733	0.2	77
20240124 1743	0.1	111
20240124 1753	0.6	64
20240124 1803	0.1	331
20240124 1813	0.3	331
20240124 1823	0.1	286
20240124 1833	0.1	10
20240124 1843	0.2	295
20240124 1853	0.2	300
20240124 1903	0.1	39
20240124 1913	0.1	274
20240124 1923	0.1	91
20240124 1933	0.7	26
20240124 1943	0.9	306
20240124 1953	0.1	335
20240124 2003	0.1	10
20240124 2013	0.1	298
20240124 2023	0.3	321
20240124 2033	0.1	317
20240124 2043	0.2	288
20240124 2053	0.1	1
20240124 2103	0.1	342
20240124 2113	0.1	107
20240124 2123	0.1	322
20240124 2133	0.1	311
20240124 2143	0.2	306
20240124 2153	0.1	58
20240124 2203	0.4	323
20240124 2213	0.1	331
20240124 2223	0.4	1
20240124 2233	0.2	292
20240124 2243	0.1	272
20240124 2253	0.1	277
20240124 2303	0.1	323
20240124 2313	0.2	273
20240124 2323	0.1	62
20240124 2333	0.2	340
20240124 2343	0.2	346
20240124 2353	0.2	304

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240125 0003	0.1	91
20240125 0013	0.1	46
20240125 0023	0.1	0
20240125 0033	0.7	297
20240125 0043	0.1	343
20240125 0053	0.1	79
20240125 0103	0.1	49
20240125 0113	0.1	33
20240125 0123	0.1	308
20240125 0133	0.1	273
20240125 0143	0.1	120
20240125 0153	0.1	331
20240125 0203	0.1	21
20240125 0213	0.1	137
20240125 0223	0.1	228
20240125 0233	0.1	258
20240125 0243	0.1	130
20240125 0253	0.1	120
20240125 0303	0.2	76
20240125 0313	0.1	190
20240125 0323	0.1	315
20240125 0333	0.1	121
20240125 0343	0.1	140
20240125 0353	0.1	223
20240125 0403	0.1	114
20240125 0413	0.1	231
20240125 0423	0.1	144
20240125 0433	0.1	150
20240125 0443	0.1	130
20240125 0453	0.1	63
20240125 0503	0.1	13
20240125 0513	0.1	287
20240125 0523	0.1	350
20240125 0533	0.1	109
20240125 0543	0.1	354
20240125 0553	0.1	318
20240125 0603	0.1	156
20240125 0613	0.1	152
20240125 0623	0.1	146
20240125 0633	0.1	139
20240125 0643	0.1	158
20240125 0653	0.1	184
20240125 0703	0.1	74
20240125 0713	0.1	136
20240125 0723	0.1	133
20240125 0733	0.1	250
20240125 0743	0.1	137
20240125 0753	0.3	224
20240125 0803	0.4	133
20240125 0813	0.1	119
20240125 0823	0.1	66
20240125 0833	0.1	170
20240125 0843	0.1	85
20240125 0853	0.4	202
20240125 0903	0.1	170
20240125 0913	0.1	258
20240125 0923	0.1	138
20240125 0933	0.3	20
20240125 0943	0.1	268
20240125 0953	0.1	289
20240125 1003	0.1	122
20240125 1013	0.1	96
20240125 1023	0.2	111
20240125 1033	0.3	122
20240125 1043	0.1	252
20240125 1053	0.1	169
20240125 1103	0.9	183
20240125 1113	0.1	305
20240125 1123	0.1	346
20240125 1133	0.1	244
20240125 1143	0.3	146
20240125 1153	0.3	221

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240125 1203	0.1	353
20240125 1213	0.1	334
20240125 1223	0.1	267
20240125 1233	0.3	353
20240125 1243	0.1	163
20240125 1253	0.4	245
20240125 1303	0.8	246
20240125 1313	0.1	280
20240125 1323	0.1	238
20240125 1333	0.1	75
20240125 1343	0.1	2
20240125 1353	0.1	204
20240125 1403	0.8	290
20240125 1413	0.2	146
20240125 1423	0.1	272
20240125 1433	1.5	236
20240125 1443	0.2	132
20240125 1453	0.1	146
20240125 1503	0.1	119
20240125 1513	0.2	144
20240125 1523	0.1	112
20240125 1533	0.2	279
20240125 1543	0.4	84
20240125 1553	0.1	129
20240125 1603	0.6	40
20240125 1613	1.7	112
20240125 1623	0.1	33
20240125 1633	0.5	94
20240125 1643	0.1	53
20240125 1653	0.3	157
20240125 1703	0.3	113
20240125 1713	0.1	89
20240125 1723	0.3	134
20240125 1733	0.4	78
20240125 1743	0.3	84
20240125 1753	1.7	88
20240125 1803	0.1	87
20240125 1813	0.1	94
20240125 1823	0.4	89
20240125 1833	0.1	320
20240125 1843	0.1	242
20240125 1853	0.1	328
20240125 1903	0.1	74
20240125 1913	0.1	162
20240125 1923	0.1	283
20240125 1933	0.1	50
20240125 1943	0.1	3
20240125 1953	0.1	294
20240125 2003	0.1	23
20240125 2013	0.1	20
20240125 2023	0.1	35
20240125 2033	0.1	116
20240125 2043	0.1	152
20240125 2053	0.1	141
20240125 2103	0.1	106
20240125 2113	0.1	106
20240125 2123	0.1	32
20240125 2133	0.1	161
20240125 2143	0.1	159
20240125 2153	0.1	137
20240125 2203	0.1	175
20240125 2213	0.1	175
20240125 2223	0.1	136
20240125 2233	0.1	86
20240125 2243	0.1	69
20240125 2253	0.1	46
20240125 2303	0.1	89
20240125 2313	0.1	164
20240125 2323	0.1	132
20240125 2333	0.1	198
20240125 2343	0.1	89
20240125 2353	0.1	99

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240126 0003	0.1	74
20240126 0013	0.1	25
20240126 0023	0.1	311
20240126 0033	0.1	111
20240126 0043	0.1	7
20240126 0053	0.1	144
20240126 0103	0.1	120
20240126 0113	0.1	101
20240126 0123	0.1	63
20240126 0133	0.1	304
20240126 0143	0.1	83
20240126 0153	0.1	8
20240126 0203	0.1	321
20240126 0213	0.1	321
20240126 0223	0.1	142
20240126 0233	0.1	146
20240126 0243	0.1	68
20240126 0253	0.1	349
20240126 0303	0.1	133
20240126 0313	0.1	145
20240126 0323	0.1	147
20240126 0333	0.1	143
20240126 0343	0.1	153
20240126 0353	0.1	150
20240126 0403	0.1	143
20240126 0413	0.1	136
20240126 0423	0.1	118
20240126 0433	0.1	174
20240126 0443	0.1	115
20240126 0453	0.1	132
20240126 0503	0.1	94
20240126 0513	0.1	145
20240126 0523	0.1	127
20240126 0533	0.1	147
20240126 0543	0.1	62
20240126 0553	0.1	152
20240126 0603	0.1	50
20240126 0613	0.1	50
20240126 0623	0.1	248
20240126 0633	0.1	139
20240126 0643	0.1	83
20240126 0653	0.1	149
20240126 0703	0.1	77
20240126 0713	0.1	275
20240126 0723	0.3	151
20240126 0733	0.2	138
20240126 0743	0.1	42
20240126 0753	0.1	347
20240126 0803	0.1	220
20240126 0813	0.1	275
20240126 0823	0.1	263
20240126 0833	0.3	93
20240126 0843	0.1	126
20240126 0853	0.1	72
20240126 0903	0.1	322
20240126 0913	0.1	256
20240126 0923	0.1	194
20240126 0933	0.1	245
20240126 0943	0.1	297
20240126 0953	0.4	254
20240126 1003	0.2	91
20240126 1013	0.2	304
20240126 1023	0.1	275
20240126 1033	0.2	323
20240126 1043	0.2	314
20240126 1053	0.2	314
20240126 1103	0.3	329
20240126 1113	0.3	53
20240126 1123	0.3	308
20240126 1133	0.1	294
20240126 1143	0.1	274
20240126 1153	0.2	257

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240126 1203	0.1	90
20240126 1213	0.4	269
20240126 1223	0.4	169
20240126 1233	0.1	229
20240126 1243	0.1	309
20240126 1253	1	231
20240126 1303	0.1	135
20240126 1313	0.3	57
20240126 1323	0.1	217
20240126 1333	0.1	226
20240126 1343	0.1	188
20240126 1353	0.4	342
20240126 1403	0.1	77
20240126 1413	0.4	46
20240126 1423	0.2	39
20240126 1433	0.5	48
20240126 1443	0.8	114
20240126 1453	0.2	57
20240126 1503	0.1	68
20240126 1513	0.1	120
20240126 1523	1.5	129
20240126 1533	0.5	99
20240126 1543	0.1	329
20240126 1553	0.1	158
20240126 1603	0.2	133
20240126 1613	0.1	162
20240126 1623	0.1	342
20240126 1633	0.1	257
20240126 1643	0.1	319
20240126 1653	0.1	301
20240126 1703	0.1	109
20240126 1713	0.2	154
20240126 1723	0.1	45
20240126 1733	0.1	206
20240126 1743	0.1	5
20240126 1753	0.1	52
20240126 1803	0.4	12
20240126 1813	0.3	110
20240126 1823	0.1	99
20240126 1833	0.1	48
20240126 1843	0.1	58
20240126 1853	0.3	49
20240126 1903	0.1	91
20240126 1913	0.1	333
20240126 1923	0.1	299
20240126 1933	0.1	98
20240126 1943	0.1	114
20240126 1953	0.1	47
20240126 2003	0.1	288
20240126 2013	0.1	176
20240126 2023	0.1	263
20240126 2033	0.1	178
20240126 2043	0.1	96
20240126 2053	0.1	321
20240126 2103	0.1	249
20240126 2113	0.1	83
20240126 2123	0.1	127
20240126 2133	0.1	345
20240126 2143	0.1	272
20240126 2153	0.1	85
20240126 2203	0.1	76
20240126 2213	0.1	139
20240126 2223	0.1	142
20240126 2233	0.1	146
20240126 2243	0.1	317
20240126 2253	0.1	321
20240126 2303	0.9	329
20240126 2313	0.1	328
20240126 2323	0.1	106
20240126 2333	0.1	124
20240126 2343	0.1	109
20240126 2353	0.1	335

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240127 0003	0.1	243
20240127 0013	0.1	165
20240127 0023	0.1	14
20240127 0033	0.1	87
20240127 0043	0.1	256
20240127 0053	0.1	185
20240127 0103	0.1	95
20240127 0113	0.1	347
20240127 0123	0.1	254
20240127 0133	0.1	249
20240127 0143	0.1	279
20240127 0153	0.1	130
20240127 0203	0.1	83
20240127 0213	0.1	343
20240127 0223	0.1	346
20240127 0233	0.1	261
20240127 0243	0.1	315
20240127 0253	0.1	80
20240127 0303	0.1	103
20240127 0313	0.1	99
20240127 0323	0.1	83
20240127 0333	0.1	135
20240127 0343	0.1	115
20240127 0353	0.1	244
20240127 0403	0.1	304
20240127 0413	0.1	36
20240127 0423	0.1	56
20240127 0433	0.1	174
20240127 0443	0.1	249
20240127 0453	0.1	80
20240127 0503	0.1	355
20240127 0513	0.1	312
20240127 0523	0.1	143
20240127 0533	0.1	136
20240127 0543	0.1	100
20240127 0553	0.1	3
20240127 0603	0.1	186
20240127 0613	0.1	147
20240127 0623	0.1	83
20240127 0633	0.1	119
20240127 0643	0.1	348
20240127 0653	0.1	280
20240127 0703	0.1	13
20240127 0713	0.1	150
20240127 0723	0.1	250
20240127 0733	0.1	157
20240127 0743	0.1	216
20240127 0753	0.1	199
20240127 0803	0.1	331
20240127 0813	0.1	245
20240127 0823	0.1	154
20240127 0833	0.1	250
20240127 0843	0.1	216
20240127 0853	0.1	146
20240127 0903	0.1	257
20240127 0913	0.1	162
20240127 0923	0.2	147
20240127 0933	0.5	288
20240127 0943	0.1	282
20240127 0953	0.1	260
20240127 1003	0.1	136
20240127 1013	0.1	250
20240127 1023	0.4	50
20240127 1033	0.1	161
20240127 1043	0.1	284
20240127 1053	0.1	220
20240127 1103	0.1	83
20240127 1113	0.1	19
20240127 1123	0.1	121
20240127 1133	0.1	173
20240127 1143	1.3	151
20240127 1153	1.3	207

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240127 1203	0.1	59
20240127 1213	0.1	197
20240127 1223	0.5	294
20240127 1233	0.7	271
20240127 1243	0.1	54
20240127 1253	1.7	64
20240127 1303	0.2	172
20240127 1313	0.1	323
20240127 1323	0.1	157
20240127 1333	0.1	16
20240127 1343	0.1	352
20240127 1353	0.1	141
20240127 1403	0.1	129
20240127 1413	0.4	224
20240127 1423	0.4	154
20240127 1433	2.6	161
20240127 1443	1.6	89
20240127 1453	0.7	167
20240127 1503	0.2	180
20240127 1513	0.1	203
20240127 1523	0.2	113
20240127 1533	0.1	1
20240127 1543	0.5	353
20240127 1553	0.2	337
20240127 1603	0.1	59
20240127 1613	0.1	61
20240127 1623	0.1	122
20240127 1633	0.4	16
20240127 1643	0.2	106
20240127 1653	1.7	319
20240127 1703	0.1	253
20240127 1713	0.1	354
20240127 1723	1.2	327
20240127 1733	0.2	6
20240127 1743	0.4	9
20240127 1753	0.2	3
20240127 1803	0.2	335
20240127 1813	0.2	292
20240127 1823	0.2	274
20240127 1833	0.2	328
20240127 1843	0.1	335
20240127 1853	1.4	311
20240127 1903	0.1	291
20240127 1913	0.5	315
20240127 1923	0.2	299
20240127 1933	0.2	321
20240127 1943	0.2	344
20240127 1953	0.1	110
20240127 2003	0.1	138
20240127 2013	0.1	157
20240127 2023	0.1	125
20240127 2033	0.1	96
20240127 2043	0.1	94
20240127 2053	0.1	317
20240127 2103	0.1	292
20240127 2113	0.1	208
20240127 2123	0.1	121
20240127 2133	0.1	106
20240127 2143	0.1	234
20240127 2153	0.1	157
20240127 2203	0.1	239
20240127 2213	0.1	144
20240127 2223	0.1	77
20240127 2233	0.1	149
20240127 2243	0.1	289
20240127 2253	0.1	314
20240127 2303	0.1	243
20240127 2313	0.1	149
20240127 2323	0.1	343
20240127 2333	0.1	103
20240127 2343	0.1	111
20240127 2353	0.1	125

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240128 0003	0.2	290
20240128 0013	0.1	249
20240128 0023	0.1	140
20240128 0033	0.1	75
20240128 0043	0.1	249
20240128 0053	0.1	144
20240128 0103	0.1	224
20240128 0113	0.1	286
20240128 0123	0.1	156
20240128 0133	0.1	295
20240128 0143	0.1	126
20240128 0153	0.1	73
20240128 0203	0.1	43
20240128 0213	0.1	257
20240128 0223	0.1	279
20240128 0233	0.1	226
20240128 0243	0.1	156
20240128 0253	0.1	151
20240128 0303	0.1	140
20240128 0313	0.1	154
20240128 0323	0.1	252
20240128 0333	0.1	250
20240128 0343	0.1	69
20240128 0353	0.1	271
20240128 0403	0.1	169
20240128 0413	0.1	227
20240128 0423	0.1	137
20240128 0433	0.1	205
20240128 0443	0.1	265
20240128 0453	0.1	268
20240128 0503	0.1	283
20240128 0513	0.1	242
20240128 0523	0.1	242
20240128 0533	0.1	272
20240128 0543	0.1	102
20240128 0553	0.1	244
20240128 0603	0.1	241
20240128 0613	0.1	103
20240128 0623	0.1	262
20240128 0633	0.1	260
20240128 0643	0.1	253
20240128 0653	0.1	262
20240128 0703	0.1	247
20240128 0713	0.1	289
20240128 0723	0.1	256
20240128 0733	0.1	142
20240128 0743	0.1	119
20240128 0753	0.1	291
20240128 0803	0.1	180
20240128 0813	0.1	130
20240128 0823	0.1	135
20240128 0833	0.1	168
20240128 0843	0.1	124
20240128 0853	0.1	217
20240128 0903	0.1	247
20240128 0913	0.1	175
20240128 0923	0.1	141
20240128 0933	0.1	240
20240128 0943	0.1	139
20240128 0953	0.1	136
20240128 1003	0.1	127
20240128 1013	0.1	147
20240128 1023	0.1	141
20240128 1033	0.1	133
20240128 1043	0.1	126
20240128 1053	0.1	119
20240128 1103	0.1	156
20240128 1113	0.1	243
20240128 1123	0.1	274
20240128 1133	0.1	200
20240128 1143	0.2	130
20240128 1153	0.1	138

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240128 1203	0.1	166
20240128 1213	0.2	289
20240128 1223	0.1	50
20240128 1233	0.1	308
20240128 1243	0.1	44
20240128 1253	0.2	111
20240128 1303	0.2	74
20240128 1313	0.1	118
20240128 1323	0.1	30
20240128 1333	0.1	350
20240128 1343	0.1	79
20240128 1353	0.1	60
20240128 1403	0.2	272
20240128 1413	0.3	136
20240128 1423	0.2	151
20240128 1433	0.1	265
20240128 1443	0.2	281
20240128 1453	0.1	39
20240128 1503	0.1	120
20240128 1513	0.1	159
20240128 1523	0.1	20
20240128 1533	0.1	337
20240128 1543	0.1	233
20240128 1553	0.1	238
20240128 1603	0.1	253
20240128 1613	0.1	258
20240128 1623	0.1	15
20240128 1633	0.5	292
20240128 1643	0.1	268
20240128 1653	0.2	276
20240128 1703	0.1	349
20240128 1713	0.1	183
20240128 1723	0.1	32
20240128 1733	0.1	244
20240128 1743	0.1	21
20240128 1753	0.1	21
20240128 1803	0.1	165
20240128 1813	0.1	127
20240128 1823	0.1	87
20240128 1833	0.3	123
20240128 1843	0.1	76
20240128 1853	0.1	94
20240128 1903	0.1	353
20240128 1913	0.1	97
20240128 1923	0.1	151
20240128 1933	0.1	55
20240128 1943	0.1	131
20240128 1953	0.1	58
20240128 2003	0.1	138
20240128 2013	0.1	331
20240128 2023	0.1	144
20240128 2033	0.1	98
20240128 2043	0.1	137
20240128 2053	0.1	88
20240128 2103	0.1	93
20240128 2113	0.1	66
20240128 2123	0.1	180
20240128 2133	0.1	142
20240128 2143	0.1	146
20240128 2153	0.1	110
20240128 2203	0.1	181
20240128 2213	0.1	151
20240128 2223	0.1	54
20240128 2233	0.1	134
20240128 2243	0.1	144
20240128 2253	0.1	117
20240128 2303	0.1	125
20240128 2313	0.1	84
20240128 2323	0.1	144
20240128 2333	0.1	108
20240128 2343	0.1	125
20240128 2353	0.1	28



Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240129 0003	0.1	72
20240129 0013	0.1	81
20240129 0023	0.1	69
20240129 0033	0.1	111
20240129 0043	0.1	121
20240129 0053	0.1	81
20240129 0103	0.1	122
20240129 0113	0.1	329
20240129 0123	0.1	18
20240129 0133	0.1	123
20240129 0143	0.1	92
20240129 0153	0.1	331
20240129 0203	0.1	134
20240129 0213	0.1	145
20240129 0223	0.1	81
20240129 0233	0.1	123
20240129 0243	0.1	141
20240129 0253	0.1	132
20240129 0303	0.1	110
20240129 0313	0.1	141
20240129 0323	0.1	103
20240129 0333	0.1	108
20240129 0343	0.1	109
20240129 0353	0.1	130
20240129 0403	0.1	172
20240129 0413	0.1	148
20240129 0423	0.1	150
20240129 0433	0.1	158
20240129 0443	0.1	49
20240129 0453	0.1	124
20240129 0503	0.1	204
20240129 0513	0.1	45
20240129 0523	0.1	77
20240129 0533	0.1	95
20240129 0543	0.1	171
20240129 0553	0.1	144
20240129 0603	0.1	91
20240129 0613	0.1	55
20240129 0623	0.1	107
20240129 0633	0.1	313
20240129 0643	0.1	119
20240129 0653	0.1	47
20240129 0703	0.3	81
20240129 0713	0.1	145
20240129 0723	0.1	96
20240129 0733	0.6	37
20240129 0743	0.1	162
20240129 0753	0.1	256
20240129 0803	0.1	172
20240129 0813	0.1	239
20240129 0823	0.1	319
20240129 0833	0.1	122
20240129 0843	0.2	296
20240129 0853	0.2	107
20240129 0903	0.1	294
20240129 0913	0.4	149
20240129 0923	0.1	313
20240129 0933	0.1	97
20240129 0943	0.1	145
20240129 0953	0.1	176
20240129 1003	0.1	255
20240129 1013	0.1	278
20240129 1023	0.2	281
20240129 1033	0.1	299
20240129 1043	0.1	349
20240129 1053	0.1	18
20240129 1103	0.1	77
20240129 1113	0.1	68
20240129 1123	0.3	124
20240129 1133	0.1	16
20240129 1143	0.1	19
20240129 1153	0.1	56

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240129 1203	0.1	43
20240129 1213	0.1	237
20240129 1223	0.1	248
20240129 1233	0.1	237
20240129 1243	0.1	91
20240129 1253	0.1	168
20240129 1303	0.1	51
20240129 1313	0.1	0
20240129 1323	0.1	332
20240129 1333	0.2	289
20240129 1343	0.1	302
20240129 1353	0.1	296
20240129 1403	0.3	76
20240129 1413	0.1	22
20240129 1423	0.1	297
20240129 1433	0.1	198
20240129 1443	0.1	76
20240129 1453	1.3	164
20240129 1503	0.3	138
20240129 1513	0.1	100
20240129 1523	0.3	174
20240129 1533	0.5	67
20240129 1543	1.4	133
20240129 1553	0.2	116
20240129 1603	0.1	166
20240129 1613	0.1	80
20240129 1623	0.2	59
20240129 1633	0.1	49
20240129 1643	0.1	115
20240129 1653	0.1	69
20240129 1703	0.1	159
20240129 1713	0.1	99
20240129 1723	0.1	22
20240129 1733	0.1	122
20240129 1743	0.1	9
20240129 1753	0.1	133
20240129 1803	0.1	132
20240129 1813	0.1	93
20240129 1823	0.1	122
20240129 1833	0.1	154
20240129 1843	0.1	125
20240129 1853	0.7	103
20240129 1903	0.1	114
20240129 1913	0.1	83
20240129 1923	0.1	66
20240129 1933	0.2	197
20240129 1943	0.1	209
20240129 1953	0.1	221
20240129 2003	0.1	216
20240129 2013	0.1	120
20240129 2023	0.1	283
20240129 2033	0.1	44
20240129 2043	0.1	145
20240129 2053	0.1	285
20240129 2103	0.1	49
20240129 2113	0.1	234
20240129 2123	0.1	102
20240129 2133	0.1	132
20240129 2143	0.1	145
20240129 2153	0.1	70
20240129 2203	0.1	116
20240129 2213	0.1	266
20240129 2223	0.1	124
20240129 2233	0.1	88
20240129 2243	0.1	127
20240129 2253	0.1	47
20240129 2303	0.1	349
20240129 2313	0.1	279
20240129 2323	0.2	147
20240129 2333	0.1	52
20240129 2343	0.1	25
20240129 2353	0.1	46

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240130 0003	0.1	186
20240130 0013	0.1	141
20240130 0023	0.1	118
20240130 0033	0.1	147
20240130 0043	0.1	285
20240130 0053	0.1	118
20240130 0103	0.1	20
20240130 0113	0.1	33
20240130 0123	0.4	148
20240130 0133	0.1	158
20240130 0143	0.1	352
20240130 0153	0.1	206
20240130 0203	0.1	215
20240130 0213	0.1	145
20240130 0223	0.1	102
20240130 0233	0.1	203
20240130 0243	0.1	19
20240130 0253	0.2	289
20240130 0303	0.2	45
20240130 0313	0.1	275
20240130 0323	0.1	239
20240130 0333	0.1	176
20240130 0343	0.2	160
20240130 0353	0.2	138
20240130 0403	0.1	94
20240130 0413	0.1	281
20240130 0423	0.1	309
20240130 0433	0.1	94
20240130 0443	0.1	217
20240130 0453	0.1	252
20240130 0503	0.2	152
20240130 0513	0.1	125
20240130 0523	0.1	172
20240130 0533	0.1	137
20240130 0543	0.1	244
20240130 0553	0.1	147
20240130 0603	0.1	151
20240130 0613	0.1	318
20240130 0623	0.1	143
20240130 0633	0.1	153
20240130 0643	0.1	5
20240130 0653	0.1	152
20240130 0703	0.1	146
20240130 0713	0.1	149
20240130 0723	0.1	165
20240130 0733	0.1	112
20240130 0743	0.9	103
20240130 0753	0.1	224
20240130 0803	0.1	79
20240130 0813	1.8	236
20240130 0823	0.1	209
20240130 0833	0.1	85
20240130 0843	0.1	251
20240130 0853	0.9	138
20240130 0903	0.2	64
20240130 0913	0.1	280
20240130 0923	0.2	122
20240130 0933	0.1	254
20240130 0943	0.6	83
20240130 0953	0.1	268
20240130 1003	0.1	352
20240130 1013	0.1	229
20240130 1023	0.7	103
20240130 1033	0.2	65
20240130 1043	0.4	152
20240130 1053	0.1	194
20240130 1103	0.2	13
20240130 1113	0.1	89
20240130 1123	0.1	13
20240130 1133	0.2	59
20240130 1143	0.1	4
20240130 1153	0.1	13

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240130 1203	0.3	44
20240130 1213	0.1	135
20240130 1223	0.1	133
20240130 1233	0.1	25
20240130 1243	0.5	149
20240130 1253	0.1	345
20240130 1303	0.4	146
20240130 1313	1.4	123
20240130 1323	0.1	271
20240130 1333	0.1	240
20240130 1343	0.5	145
20240130 1353	0.1	107
20240130 1403	1	67
20240130 1413	0.2	50
20240130 1423	0.5	241
20240130 1433	2	327
20240130 1443	1.9	130
20240130 1453	0.8	145
20240130 1503	0.5	139
20240130 1513	0.1	3
20240130 1523	0.1	9
20240130 1533	0.7	354
20240130 1543	0.1	242
20240130 1553	0.2	351
20240130 1603	0.2	315
20240130 1613	0.2	104
20240130 1623	1.6	111
20240130 1633	1.8	334
20240130 1643	0.1	80
20240130 1653	0.4	342
20240130 1703	0.3	155
20240130 1713	0.1	55
20240130 1723	0.1	198
20240130 1733	0.8	144
20240130 1743	0.1	226
20240130 1753	0.1	275
20240130 1803	0.2	156
20240130 1813	0.1	186
20240130 1823	0.2	143
20240130 1833	0.1	139
20240130 1843	0.1	80
20240130 1853	0.1	152
20240130 1903	0.1	137
20240130 1913	0.1	260
20240130 1923	0.1	259
20240130 1933	0.1	268
20240130 1943	0.1	146
20240130 1953	0.1	185
20240130 2003	0.1	285
20240130 2013	0.1	193
20240130 2023	0.1	150
20240130 2033	0.1	140
20240130 2043	1	109
20240130 2053	0.1	183
20240130 2103	0.1	254
20240130 2113	0.1	126
20240130 2123	0.1	159
20240130 2133	0.4	10
20240130 2143	0.1	332
20240130 2153	0.3	137
20240130 2203	0.1	325
20240130 2213	0.1	184
20240130 2223	0.1	154
20240130 2233	0.1	31
20240130 2243	0.1	313
20240130 2253	0.1	93
20240130 2303	0.1	323
20240130 2313	0.1	130
20240130 2323	0.1	87
20240130 2333	0.1	167
20240130 2343	0.1	149
20240130 2353	0.1	240

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240131 0003	0.1	83
20240131 0013	1	122
20240131 0023	0.8	102
20240131 0033	0.1	3
20240131 0043	0.1	276
20240131 0053	0.1	77
20240131 0103	0.1	59
20240131 0113	0.1	191
20240131 0123	0.6	140
20240131 0133	0.2	159
20240131 0143	0.1	43
20240131 0153	0.5	153
20240131 0203	0.6	122
20240131 0213	0.1	156
20240131 0223	0.1	229
20240131 0233	0.2	143
20240131 0243	0.1	208
20240131 0253	0.1	208
20240131 0303	0.1	332
20240131 0313	0.3	105
20240131 0323	0.1	139
20240131 0333	0.1	179
20240131 0343	0.1	169
20240131 0353	0.1	194
20240131 0403	0.1	243
20240131 0413	0.1	189
20240131 0423	0.1	64
20240131 0433	0.1	170
20240131 0443	0.1	67
20240131 0453	0.1	234
20240131 0503	0.1	337
20240131 0513	0.1	255
20240131 0523	0.1	284
20240131 0533	0.1	300
20240131 0543	0.1	249
20240131 0553	0.2	138
20240131 0603	0.1	273
20240131 0613	0.1	348
20240131 0623	0.1	62
20240131 0633	0.1	104
20240131 0643	0.1	11
20240131 0653	0.1	12
20240131 0703	0.1	177
20240131 0713	0.1	184
20240131 0723	0.1	106
20240131 0733	1.4	120
20240131 0743	2.8	27
20240131 0753	0.8	59
20240131 0803	0.3	27
20240131 0813	0.1	329
20240131 0823	0.1	300
20240131 0833	0.1	104
20240131 0843	0.1	140
20240131 0853	0.2	127
20240131 0903	0.6	104
20240131 0913	0.1	139
20240131 0923	0.4	109
20240131 0933	0.1	135
20240131 0943	0.7	15
20240131 0953	0.2	45
20240131 1003	0.1	30
20240131 1013	0.4	143
20240131 1023	0.1	231
20240131 1033	0.4	103
20240131 1043	2.2	124
20240131 1053	0.1	119
20240131 1103	2.3	157
20240131 1113	0.1	8
20240131 1123	0.1	336
20240131 1133	0.5	142
20240131 1143	0.1	176
20240131 1153	0.1	320

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240131 1203	0.1	318
20240131 1213	1.8	122
20240131 1223	0.1	323
20240131 1233	0.9	23
20240131 1243	5.3	126
20240131 1253	0.6	175
20240131 1303	0.1	104
20240131 1313	0.1	76
20240131 1323	0.1	345
20240131 1333	0.3	47
20240131 1343	0.6	54
20240131 1353	0.2	46
20240131 1403	0.1	299
20240131 1413	0.2	105
20240131 1423	0.1	123
20240131 1433	0.1	173
20240131 1443	0.2	47
20240131 1453	0.1	6
20240131 1503	1.1	76
20240131 1513	0.3	62
20240131 1523	0.2	50
20240131 1533	0.5	130
20240131 1543	1.9	191
20240131 1553	0.1	47
20240131 1603	1	173
20240131 1613	2.4	110
20240131 1623	1.1	39
20240131 1633	0.2	98
20240131 1643	2.2	181
20240131 1653	0.1	17
20240131 1703	0.2	153
20240131 1713	0.1	277
20240131 1723	0.1	320
20240131 1733	0.2	60
20240131 1743	0.7	143
20240131 1753	0.2	343
20240131 1803	0.6	337
20240131 1813	0.3	316
20240131 1823	0.1	53
20240131 1833	0.3	216
20240131 1843	1.1	118
20240131 1853	0.1	225
20240131 1903	0.3	156
20240131 1913	0.8	154
20240131 1923	0.7	115
20240131 1933	0.1	302
20240131 1943	1	21
20240131 1953	0.1	105
20240131 2003	1.6	342
20240131 2013	0.1	348
20240131 2023	0.1	188
20240131 2033	0.2	132
20240131 2043	0.1	280
20240131 2053	0.1	112
20240131 2103	0.1	152
20240131 2113	0.1	168
20240131 2123	0.1	190
20240131 2133	0.6	350
20240131 2143	0.1	190
20240131 2153	0.1	40
20240131 2203	0.1	85
20240131 2213	0.3	119
20240131 2223	0.1	324
20240131 2233	0.6	307
20240131 2243	0.9	156
20240131 2253	0.1	164
20240131 2303	0.1	103
20240131 2313	0.1	127
20240131 2323	0.5	98
20240131 2333	0.1	39
20240131 2343	1.2	112
20240131 2353	1.1	128

## 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
<b>Total</b>	<b>546,585.88</b>	<b>0.00</b>	<b>0.00</b>	<b>534,844.37</b>	<b>0.00</b>	<b>7,925.54</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>33.32</b>	<b>0.00</b>	<b>331.06</b>	<b>3,451.59</b>

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:**





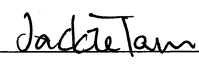
1. 18 December 2023 Observation 2 - Part of the exposed slope surface at SBA was shotcreted.
2. 27 December 2023 Observation 1 – Sprinkling truck and sprayers were arranged and provided to prevent dust dispersion at Portion E4.
3. 27 December 2023 Observation 2 – Exposed slope surface at Portion E4 was covered by tarpaulin sheet.
4. 27 December 2023 Observation 3 – Dusty material at Portion E4 was removed.

**Observation(s):**

1. Unpaved main haul road is dry and fugitive is observed, especially at portion E4.

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

1. The contractor has been advised to provide enough water sprayers for short-term dust control to ensure that all unpaved roads are wetted and also implement other measurements like shotcrete to pave all main haul road for long term dust control.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:				
Name:	Joan Lo	/	Matt Choy/Kristy Wong	
Date:	2 January 2024	/	2 January 2024	2 January 2024



**Follow up action for previous Site Inspection:**




Waiting for contractor's input

**Observation(s):**

1. The unpaved main haul road at SBA is dry and fugitive is observed.

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

1. The contractor has been advised to regularly water the unpaved main haul road to ensure it stays moist and to pave it for long-term dust control.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/Kristy Wong	Sylvia Ho
Date:	8 January 2024	/	8 January 2024	8 January 2024

**Follow up action for previous Site Inspection:**





1. 27 December 2023 Observation 1 - Sprinkling truck and sprayers were arranged and provided to prevent dust dispersion at Portion E4.
2. 27 December 2023 Observation 2 - For long-term slope surface protection, the tentative commencement of shotcrete was scheduled on 15 February 2024.
3. 2 January 2024 Observation 1 - Sprayers and sprinkling truck were provided and arranged to minimize dust dispersion at Portion E4.
4. 8 January 2024 Observation 1 - Sprinkling truck was scheduled and provided to ensure that the unpaved main haul road at SBA was wetted to prevent dust dispersion.

**Observation(s):**




1. Dusty material (Cement) at SBA without covered by impervious sheet properly or placed in an area sheltered on the top and the 3 side is observed.
2. The exposed slope surface at SBA without covered by impervious sheet properly is found.
3. Damaged silt fence around the stockpile area at SBA is observed.

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

1. The contractor has been recommended that the loading, unloading or transfer, handing or storage of cement should be cover entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides to prevent dust suppression or sprayed with water to maintain the entire surface wet. They have also been recommended to provide training courses on dust control during the shotcrete process.
2. The contractor has been reminded that the exposed slope surface should be properly covered with impervious sheet.
3. The contractor has been advised to provide maintenance for the silt fence.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:				
Name:	Joan Lo	Echo Hing	Matt Choy/Kristy Wong	Sylvia Ho
Date:	15 January 2024	15 January 2024	15 January 2024	15 January 2024

<p><b><u>Follow up action for previous Site Inspection:</u></b></p> <ol style="list-style-type: none"><li>15 January 2024 Observation 1 - The training course on dust control requirements for shotcreting workers was held.</li><li>15 January 2024 Observation 2 - The exposed slope surface at SBA was shotcreted for long-term surface protection.</li><li>15 January 2024 Observation 3 - The damaged silt fence at SBA was repaired.</li></ol>
<p><b><u>Observation(s):</u></b></p> <p>N/O</p>
<p><b><u>Reminder(s):</u></b></p> <ol style="list-style-type: none"><li>The contractor has been reminded to provide temporary slope surface protection for the exposed slope surface at portion B2 before completing the concrete surface protection by February.</li></ol>
<p><b><u>Corrective Actions – Mitigation Measures Implemented or Proposed (if any):</u></b></p> <p>N/A</p>

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/Kristy Wong	Sylvia Ho
Date:	22 January 2024	/	22 January 2024	22 January 2024

**Follow up action for previous Site Inspection:**

1. 15 January 2024 Observation 1 - The dusty material (Cement) was removed or covered properly by impervious sheeting.

**Observation(s):**




1. Stockpiling of dusty material without covered by impervious sheet at SBA is found.
2. Insufficient silt fence around the soil stockpiling area at SBA is observed.
3. The oil drum and chemical containers without chemical drip tray at Portion E4 is found.

**Reminder(s):**

1. The activities of loading, unloading, transfer, handing or storage of bulk cement or dry PFA shall be carried out in a totally enclosed system or facility at Portion E4 to prevent dust dispersion.
2. Ensure that the door of the generator is closed while it is operating to reduce the noise produced.

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

1. The contractor has been recommended that dusty materials should be covered by impervious sheet to prevent dust dispersion.
2. The contractor has been advised to provide sufficient silt fence around the soil stockpiling area to prevent sediment from entering the system.
3. The contractor has been reminded to provide the sufficient drip tray for chemical storage to avoid chemical spillage and land contamination.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/Kristy Wong	Sylvia Ho
Date:	29 January 2024	/	29 January 2024	29 January 2024



# Appendix L Environmental Mitigation Implementation Schedule (EMIS)

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

EIA Ref.	EM&A Log Ref.	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
<b>Air Quality</b>								
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)	(a) # (Refer to Appendix K 27 Dec 2023 Weekly Site Inspection Observation 2) The exposed slopes at Portion E4 were covered by impervious sheets in the short term, the shotcrete is conducted in progress, target to be completed before or on 15 Feb 2023.
		B4, B15 & B18	<ul style="list-style-type: none"> <li>Dust emission from construction vehicle movement is confined within the worksites area.</li> </ul>					✓
		B11 – B12	<ul style="list-style-type: none"> <li>Watering facilities will be provided at every designated vehicular exit point.</li> </ul>					✓
		-	<ul style="list-style-type: none"> <li>Good site practice is recommended during construction phase.</li> </ul>					✓
<b>Construction Noise</b>								
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 office 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	✓
<b>Construction Runoff</b>								
S5.8.1	S5.2.1	D1	<u>Construction on Site Runoff</u> <ul style="list-style-type: none"> <li>(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.</li> </ul>	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) The perimeter cut-off drains are establishing in progress (Completion: 98%) (b) ✓
		D2	<ul style="list-style-type: none"> <li>(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.</li> </ul>					(a) N/A (b) ✓ (c) ✓
		D3	<ul style="list-style-type: none"> <li>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.</li> </ul>					✓

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Construction Runoff (Cont'd)								
S5.8.1	S5.2.1	D4	<ul style="list-style-type: none"> <li>(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.</li> </ul>	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) ✓ (c) ✓
	D5	<ul style="list-style-type: none"> <li>(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.</li> </ul>	(a) ✓ (b) N/A					
	D6	<ul style="list-style-type: none"> <li>(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.</li> </ul>	(a) ✓ (b) ✓ (c) ✓					
	D7	<ul style="list-style-type: none"> <li>(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.</li> </ul>	(a) ✓ (b) ✓					
	D8	<ul style="list-style-type: none"> <li>Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50 m<sup>3</sup> 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.</li> </ul>	(c) ✓					
	D9	<ul style="list-style-type: none"> <li>(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.</li> </ul>	(a) ✓ (b) ✓					
	D10	<ul style="list-style-type: none"> <li>Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.</li> </ul>	(c) ✓					
	D11	<ul style="list-style-type: none"> <li>(a) All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. (b) An adequately designed and sited wheel washing bay should be provided at every construction site exit. (c) Wash-water should have sand and silt settled out and removed at least on a weekly basis (d) to ensure the continued efficiency of the process. (e) The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.</li> </ul>	(a) ✓ (b) ✓ (c) ✓ (d) ✓ (e) ✓					
	D12	<ul style="list-style-type: none"> <li>(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.</li> </ul>	(a) N/A (b) N/A (c) N/A					
	D13	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓					
	D14	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓					
	D15	<ul style="list-style-type: none"> <li>To prevent pollution risks arising from works area (waste reception area) and haul roads, intercepting bund or barrier along the roadside should be constructed.</li> </ul>	N/A					
	D19	<p><u>Sewage Effluent from Workforce</u></p> <ul style="list-style-type: none"> <li>(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.</li> </ul>	(a) ✓ (b) ✓					

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

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
<b>Construction Runoff (Cont'd)</b>								
S5.8.1	S5.2.1	D20	<ul style="list-style-type: none"> <li>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.</li> </ul>	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	N/A
		-	<ul style="list-style-type: none"> <li>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.</li> </ul>					✓
S5.8.1	S5.2.1	D21	<p><u>Accidental Spillage of Chemical</u></p> <ul style="list-style-type: none"> <li>(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.</li> </ul>	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
<b>Erosion Control Measures</b>								
S5.8.2	S5.2.2	-	<p><u>Erosion Control /Measures</u></p> <p>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.</p>	Erosion control	Contractor	Drainage system	ProPECC PN 1/94 Water Pollution Control Ordinance	✓
		-	<p>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.</p>					✓
		-	<p>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.</p>					✓
		-	<p>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.</p>					To be implemented
		-	<p>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.</p>					To be implemented
		-	<p>f. Sod Establishes permanent turf for immediate erosion protection and stabilizes rainageways.</p>					✓
		-	<p>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.</p>					✓

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Environmental Mitigation Implementation Schedule (EMIS) Construction Phase

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<b>Erosion Control Measures (Cont'd)</b>								
S5.8.2	S5.2.2		h. Plastic Sheetting Plastic Sheetting will provide immediate protection to slopes and stockpiles. However, it has been known to transfer erosion problems because water will sheet flow off the plastic at high velocity. This is usually attributable to poor application, installation and maintenance.	Erosion control	Contractor	Drainage system	ProPECC PN 1/94  Water Pollution Control Ordinance	✓
		-	i. Dust Control Dust Control is one preventative measure to minimize the wind transport of soil, prevent traffic hazards and reduce sediment transported by wind and deposited in water resources.					✓
<b>Surface Water Drainage System</b>								
S5.8.2	S5.2.2	D22	<ul style="list-style-type: none"> <li>(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.</li> </ul>	Surface Water Management/ Control run off	Contractor	Surface water system Construction	Water Pollution Control Ordinance  TM-water	(a) ✓ (b) ✓ (c) ✓ (d) ✓
	D23	<ul style="list-style-type: none"> <li>(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.</li> </ul>	(a) ✓ (b) ✓					
	-	<ul style="list-style-type: none"> <li>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.</li> </ul>	N/A					
	-	<ul style="list-style-type: none"> <li>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.</li> </ul>	N/A					
<b>Waste Management</b>								
S6	WM1	-	<u>C&amp;D Materials</u> <ul style="list-style-type: none"> <li>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.</li> </ul>	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	✓
	-	<ul style="list-style-type: none"> <li>Implement a trip-ticket system to ensure that the movement of C&amp;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&amp;D Materials off-site) should be kept for record purposes.</li> </ul>	✓					
	-	<ul style="list-style-type: none"> <li>Appropriate waste management should be implemented in accordance with the ETWB TC(W) No. 19/2005.</li> </ul>	✓					
	E4	<ul style="list-style-type: none"> <li>(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&amp;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.</li> </ul>	(a) ✓ (b) ✓					
	E5	<ul style="list-style-type: none"> <li>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.</li> </ul>	(a) ✓ (b) ✓ (c) ✓					

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Waste Management (Cont'd)								
S6	WM1	E6	<ul style="list-style-type: none"> <li>(a) The Contractor should recycle as much as possible the C&amp;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&amp;D material.</li> </ul>	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) ✓						
		(c) ✓						
		(d) ✓						
		(a) ✓						
		(b) ✓						
		(a) ✓						
		(b) ✓						
		(c) ✓						
E7	<ul style="list-style-type: none"> <li>(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&amp;D waste should be properly reused.</li> </ul>	(a) ✓						
(b) ✓								
E8	<ul style="list-style-type: none"> <li>(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</li> </ul>	(a) ✓						
(b) ✓								
(c) ✓								
E9	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓						
E10	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓						
E11	<ul style="list-style-type: none"> <li>Training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concepts.</li> </ul>	✓						
E12	<ul style="list-style-type: none"> <li>Regular cleaning and maintenance programme systems, sumps and oil interceptors.</li> </ul>	✓						
E13	<ul style="list-style-type: none"> <li>(a) Prior to disposal of C&amp;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.</li> </ul>	(a) ✓						
(b) ✓								
(c) N/A								
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓						
S6	WM2	E16 – E23	<p><u>Chemical Waste</u></p> <ul style="list-style-type: none"> <li>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.</li> </ul>	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	✓
		-	<ul style="list-style-type: none"> <li>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</li> </ul>					✓
		E17 & E18	<ul style="list-style-type: none"> <li>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.</li> </ul>					✓
		E19	<ul style="list-style-type: none"> <li>(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.</li> </ul>					(a) ✓
		(b) N/A						
(c) N/A								
(d) N/A								
E20	<ul style="list-style-type: none"> <li>Chemical waste should be collected by licensed waste collectors and disposed of at licensed facility, e.g. Chemical Waste Treatment Centre.</li> </ul>	✓						

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<b>Waste Management (Cont'd)</b>								
S6	WM3	E1	<u>General Refuse</u> <ul style="list-style-type: none"> <li>General refuse generated on-site should be properly stored in enclosed bins or compaction units separately from construction and chemical wastes.</li> </ul>	Minimise generation of general refuse to avoid odour, pest and visual nuisance	Contractor	Entire construction site	Waste Disposal Ordinance	✓
		E2	<ul style="list-style-type: none"> <li>(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</li> </ul>					(a) ✓ (b) ✓ (c) ✓ (d) ✓
		-	<ul style="list-style-type: none"> <li>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.</li> </ul>					✓
		-	<ul style="list-style-type: none"> <li>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.</li> </ul>					✓
		-	<ul style="list-style-type: none"> <li>Office waste paper should be 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.</li> </ul>					✓
<b>LFG</b>								
<b>Within NENT Landfill Extension</b>								
S7	LFG1	F1	Special LFG precautions should be taken due to close proximity of NENT landfill extension site to existing landfill to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity).	To minimise the risk of LFG hazards to personnel in construction site	Contractor	Entire construction site	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97)  F&IU (Confined Spaces) Regulations  Code of Practice on Safety and Health at Work in Confined Spaces	N/A
	LFG2	F2	Prominent safety warning signs should be erected on-site to alert all personnel and visitors of LFG hazards during excavation works.					✓
	LFG3	F3	No smoking or burning should be permitted on-site.					✓
	LFG4	F4	Prominent 'No smoking' and 'No Naked Flames' signs should be erected on-site.					✓
	LFG5	F5	No worker should be allowed to work alone at any time in excavated trenches or confined areas on-site.					✓
	LFG6	F6	Adequate fire fighting equipment should be provided on-site.					✓
	LFG7	F7	Construction equipment should be equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors.					✓
	LFG8	F8	Electrical motors and extension cords should be explosion-proof and intrinsically safe for use on-site.					✓
	LFG9	F9	'Permit to Work' system should be implemented.					✓
	LFG10	F10	Welding, flame-cutting or other hot works should be conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works.					✓
	LFG11	F11	(a) For piping assembly or conduit construction, all valves and seals should be closed immediately after installation to avoid accumulation and migration of LFG. (b) If installation of large diameter pipes (diameter >600mm) is required, the pipe ends should be sealed on one side during installation. (c) Forced ventilation is required prior to operation of installed pipeline. (d) Forced ventilation should also be required for works inside trenches deeper than 1m.					(a) N/A (b) N/A (c) N/A (d) N/A
	LFG12	F12	Frequency and location of LFG monitoring within excavation area should be determined prior to commencement of works. LFG monitoring in excavations should be conducted at no more than 10mm from exposed ground surface.					✓
	LFG13	F13	For excavation works, LFG monitoring should be conducted (1) at ground surface prior to excavation, (2) immediately before workers entering excavations, (3) at the beginning of each half-day work, and (4) periodically throughout the working day when workers are in the excavation.					✓
	LFG14	F14	Any cracks on ground level encountered on-site should be monitored for LFG periodically. Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.					✓
	LFG15	F15	(a) LFG precautionary measures involved in excavation and piping works should be provided in accordance with LFG Guidance Note and included in Safety Plan of construction phase. (b) Temporary offices or buildings should be located where free LFG has been proven or raised clear of ground at a separation distance of at least 500mm.					(a) N/A (b) N/A

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

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

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
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 <sub>4</sub> : 0-100% and LEL: 0-100%/v •CO <sub>2</sub> : 0-100% •O <sub>2</sub> : 0-21%	To minimise the risk of LFG hazards to personnel in construction site	Contractor	Entire construction site	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97)  F&IU (Confined Spaces) Regulations	✓
	LFG17	F17	(a) Periodically during groundwork construction, the works area should be monitored for CH <sub>4</sub> CO <sub>2</sub> and O <sub>2</sub> using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas should be established prior to commencement of groundwork either by Safety Officer or appropriately qualified person. (b) Routine monitoring should be carried out in all excavations, manholes, created by temporary storage of building materials on-site. (c) All measurements in excavations should be made with monitoring tube located not more than 10mm from exposed ground surface.				Code of Practice on Safety and Health at Work in Confined Spaces	(a) N/A (b) N/A (c) N/A
	LFG18	F18	For excavations deeper than 1m, measurements should be conducted: • At ground surface before excavation commences; • Immediately before any worker enters the excavation; • At the beginning of each working day for entire period the excavation remains open; and Periodically throughout the working day whilst workers are in excavation.					✓
	LFG19	F19	For excavations between 300mm and 1m, measurements should be conducted: • Directly after excavation has been completed; and Periodic all whilst excavation remains open.					✓
	LFG20	F20	For excavations less than 300mm, monitoring may be omitted at the discretion of Safety Officer or appropriately qualified person.					✓
Landscape and Visual Phases								
S8	LV1	G4	<u>Advanced screening tree planting</u> • Early planting using fast growing trees and tall shrubs at strategic locations within site to block major view corridors to the site from the VSRs, and to locally screen haul roads, excavation works and site preparation works. • Roadside planter and shrub planting design in front of Cheung Shan Temple.	To minimise the impact on existing vegetation retained by personnel in construction	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	✓
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 provide initiation on permanent landscape and visual mitigation measures			DEVB TC(W) No. 6/2011 - Maintenance of Man-made Slopes and Emergency Repair on Stability of Land	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.



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

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Ecology								
General Protection Measures:								
S10	E1	-	Restriction of construction activities to the work areas that would be clearly demarcated.	To minimise environmental impacts and therefore potential ecological impacts within and near the construction site	Contractor	Entire construction site	Practice Note for Professional Persons (ProPECC), Construction Site Drainage (PN1/94)	✓
	E2	-	Reinstatement of the work areas immediately after completion of the works.					✓
	E3	-	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.					✓
	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 repositied silt and grit.					✓
	E13	-	Minimization of surface excavation works during the rainy seasons (April to September), and in particular, control of silty surface runoff during storm events, especially for areas located near steep slopes.					✓
	E14	-	Regular inspection and maintenance of all drainage facilities and erosion and sediment control structures to ensure proper and efficient operation at all times and particularly following rainstorms.					✓
	E15	-	Provision of oil interceptors in the drainage system downstream of any oil/fuel pollution sources					N/A

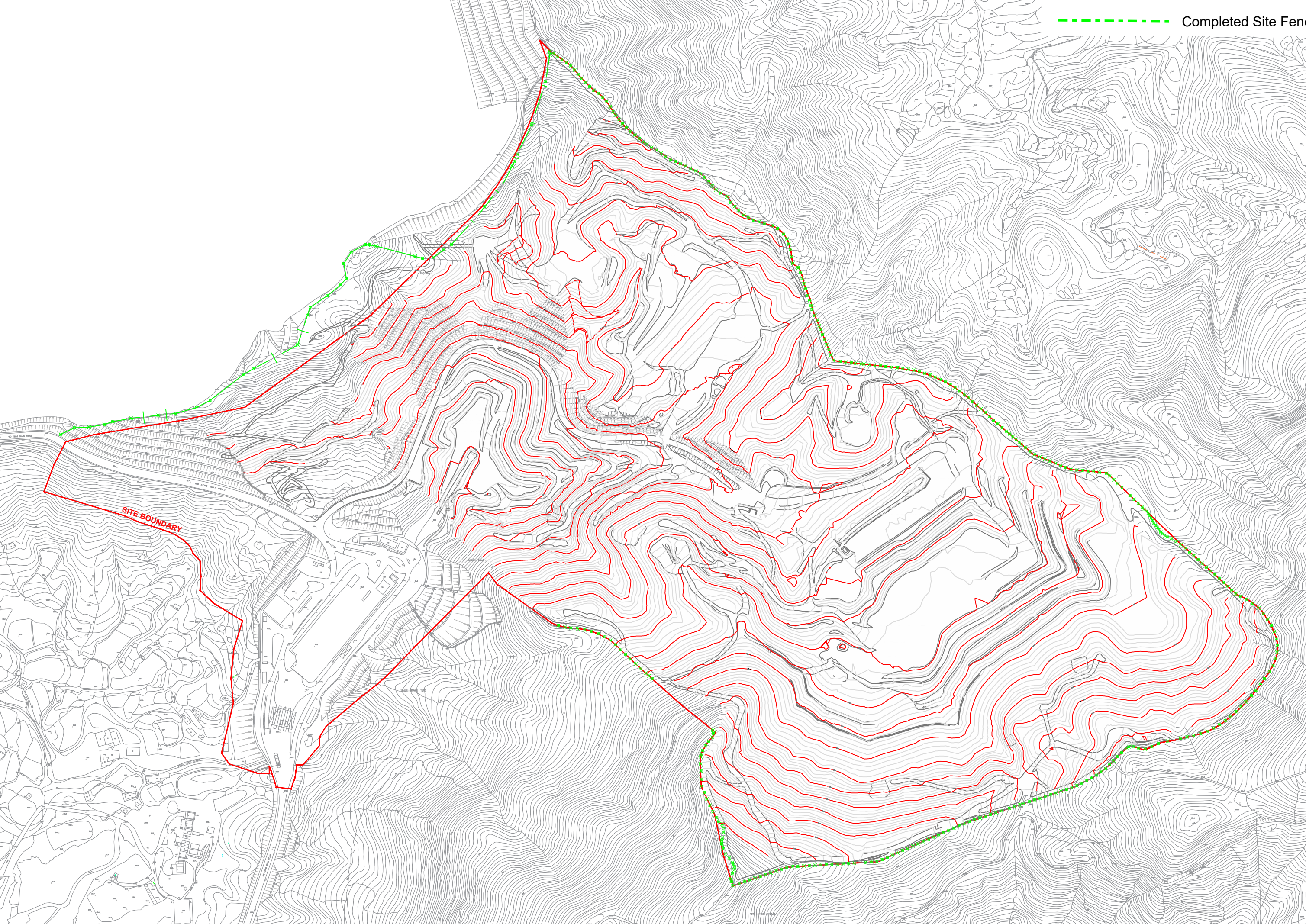
Remarks:

- ✓ Compliance of mitigation measure
- \* Recommendation was made during site audit but improved/rectified by the contractor
- # Recommendation was made during site audit but not yet improved/rectified by the contractor.
- N/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





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

## Environmental Complaints Log

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

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

Complaint Ref. No.	Date of Complaint Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
C005_20230818	18 Aug 2023	EPD-RNG	ET	Water Quality	18 Sep 2023	It was noted from EPD-RNG's email to the ET on 18 August 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD) on 14 August 2023. In summary of the investigation, the complaint is project related. It viewed that muddy water arising from wheel washing water from the site entrance at Portion E4 & Runoff from Existing Channel near Portion E3-1 & discharge water from the silt removal facilities at Portion E3-1 eventually flows into the box culvert under Wo Keng Shan Road, WM2 and ultimately to GR3. The related rectified actions had been conducted by the contractor.	13 October 2023
C006_20230914	14 Sep 2023	EPD-RNG	ET	Water Quality	18 Sep 2023	It was noted from EPD-RNG's email to the ET on 14 September 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD) on 11 September 2023. In summary of the investigation, the complaint is project related. It viewed that muddy water arising from wheel washing water from the site entrance at Portion E4 & Runoff from Existing Channel near Portion E3-1 & discharge water from the silt removal facilities at Portion E3-1 eventually flows into the box culvert under Wo Keng Shan Road, WM2 and ultimately to GR3. The related rectified actions had been conducted by the contractor.	13 October 2023

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	5(1*)	0	5(1*)
Waste Management	0	0	0
Total	6(2*)	0	6(2*)

Remarks:

1. \* Equal to non-project related



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