

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

Monthly Environmental
Monitoring and Audit Report
(No. 11) – October 2023

2023-11-10

Our Ref.: CL/91823/0804-VES
Date: 10 November 2023

By Email

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

Attn.: Mr. Colin Mitchell

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

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

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

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

Dear Sir

Re: Contract No. EP/SP/77/15
North-East New Territories Landfill Extension (NENTX)
Monthly Environmental Monitoring and Audit Report (No.11) –
October 2023

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.11) – October 2023" dated 10 November 2023.

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

Yours faithfully
MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD



Claudine Lee
Independent Environmental Checker

Aurecon Hong Kong Limited
Unit 1608, 16/F, Tower B,
Manulife Financial Centre,
223 – 231 Wai Yip Street, Kwun Tong
Hong Kong

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



Ref: P521530-0000-REP-NN-0076

10 November 2023

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.11) – October
2023

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.11) – October 2023" dated 10 November 2023 for your verification.

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

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

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

Fredrick Leong
Environmental Team Leader

Encl.

1. Monthly Environmental Monitoring and Audit Report (No.11) – October 2023

cc.

1. IEC - Ms. Claudine Lee (By email: claudinelee@meinhardt.com.hk)
2. IEC Representative – Ms. Echo Hung (By email: echohung@meinhardt.com.hk)

Document Control Record

Document prepared by:

Aurecon Hong Kong Limited

Unit 1608, 16/F, Tower B, Manulife Financial Centre,
223 – 231 Wai Yip Street, Kwun Tong, Kowloon
Hong Kong S. A. R.

T +852 3664 6888

F +852 3664 6999



E hongkong@aurecongroup.com

W aurecongroup.com

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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 11th Monthly EM&A Report presents the EM&A works conducted from 1 to 31 October 2023 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)

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	5 times	4, 10, 16, 21 & 27 October 2023
- Construction Noise Monitoring during normal weekdays at each monitoring station	4 times	4, 10, 16 & 27 October 2023
- Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	18 October 2023
- Landfill Gas Monitoring during normal weekdays for Construction Works	23 times	3 to 7, 10 to 14, 16 to 21, 24 to 28, 30 to 31 October 2023
- Post-transplantation monitoring and audit during normal weekdays for transplanted plants and receptor sites	1 time	13 October 2023
- Joint Environmental Site Inspection	5 times	3, 11, 16, 24 & 30 October 2023

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/Compliant/Summons and Prosecution

No non-compliance event 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)

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 2.6 to 2.10 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> <ul style="list-style-type: none"> i. Site formation and preparation; ii. Installation of liner system; iii. Installation of leachate collection, treatment and disposal facilities; iv. Installation of gas collection, utilization and management facilities; v. Utilities provisions and drainage diversion; vi. Landfilling operation; vii. Restoration and aftercare in subsequent stages; and viii. Measures to mitigate environmental impacts as well as environmental monitoring and auditing to be implemented.

1.3. Purpose of this Report

- 1.3.1. This is the 11th 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 October 2023.

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

2. Project Information

2.1. Construction Activities

2.1.1. A summary of the major construction activities undertaken in this reporting period is shown in **Appendix L**. Construction programme is illustrated 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 O**.

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 15 th post-transplantation monitoring (13 Oct 2023)
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
Construction Noise Permit	GW-RN1012-23	22 December 2023	Permit granted on 22 September 2023
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	5 times	4, 10, 16, 21 & 27 October 2023
- Construction Noise Monitoring during normal weekdays at each monitoring station	4 times	4, 10, 16 & 27 October 2023
- Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	18 October 2023
- Landfill Gas Monitoring during normal weekdays for Construction Works	23 times	3 to 7, 10 to 14, 16 to 21, 24 to 28, 30 to 31 October 2023
- Post-transplantation monitoring and audit during normal weekdays for transplanted plants and receptor sites	1 time	13 October 2023
- Joint Environmental Site Inspection	5 times	3, 11, 16, 24 & 30 October 2023

Air Quality

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

Noise

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

Groundwater

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

Surface Water Quality

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

Landfill Gas

23 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

1 set of post-transplantation monitoring and audit for transplanted plants and receptor sites during normal weekdays of the reporting period was carried out. 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 16 October 2023. The Contractor has generally implemented part of the mitigation measures as recommended. No general site inspection was conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG).

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 C**. 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 D**.

Table 3-3 Dust Monitoring Equipment

Equipment	Model	Expiry Date	Monitoring Station
High Volume Sampler (HVS)	TE-5170X (S/N: 1105)	3 Nov 2023	AM1
	TE-5170X (S/N: 1106)		AM2
	TE-5170X (S/N: 1856)		AM3
Direct Reading Dust Meter	Sibata LD-5R (S/N: 0Z4545)	2 Dec 2023	AM1 to AM3
	Sibata LD-5R (S/N: 882106)		
	Sibata LD-5R (S/N: 942532)		
Calibration Kit (for HVS)	TE-5025A (S/N: 4166)	19 Jun 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 E** and **Appendix F**.

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

Dust Monitoring Station	Average 1-hr TSP Concentration, $\mu\text{g}/\text{m}^3$ (Range)	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AM1	31 (21 – 40)	>285	>500
AM2	42 (34 – 52)	>279	>500
AM3	46 (32 – 60)	>285	>500

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

Dust Monitoring Station	Average 24-hr TSP Concentration, µg/m ³ (Range)	Action Level, µg/m ³	Limit Level, µg/m ³
AM1	70 (62 – 77)	>164	>260
AM2	55 (43 – 77)	>152	>260
AM3	70 (61 – 78)	>163	>260

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

Table 3-6 Summary of Impact 1-hr & 24-hr TSP Exceedance during the reporting period

Dust Monitoring Station	Parameter	1-hr TSP	24-hr TSP	Exceedance Count
	Level Exceedance			
AM1	Action	0	0	0
	Limit	0	0	0
AM2	Action	0	0	0
	Limit	0	0	0
AM3	Action	0	0	0
	Limit	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 H**.

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

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

4 Noise Monitoring

4.1 Monitoring Requirement

4.1.1 In accordance with the EM&A manual, noise impact monitoring shall be carried out at 2 monitoring stations NM1 and NM2 once a week during normal construction working hour (0700-1900 Monday to Saturday). The minimum logging interval shall be 30 minutes with average of 6 consecutive Leq 5 mins. L10 and L90 shall also be measured at 5 mins intervals.

4.2 Monitoring Locations, Parameters and Frequency

4.2.1 According to the EM&A Manual, two monitoring stations namely NM1 and NM2 are selected for the impact monitoring.

4.2.2 A baseline monitoring plan has been submitted to IEC and EPD on 31 May 2022 including the proposal with justification of change of monitoring locations. Due to limited access to the original monitoring locations at NM1 and NM2, the adjusted stations at NM1a and NM2a were agreed with IEC prior to the baseline and impact monitoring. The noise monitoring locations are summarized in **Table 4-1** and shown in **Figure 2**.

4.2.3 The detailed monitoring schedule is shown in **Appendix C**. The frequency and duration are shown in **Table 4-2**.

Table 4-1 Noise Monitoring Locations

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

Remarks:

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

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

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

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

Table 4-2 Noise Monitoring Parameters, Frequency and Duration

Monitoring Station	Parameter	Frequency and Duration
NM1a and NM2a	L _{Aeq} (30mins) average of 6 consecutive L _{eq} (5min); L10 (5min) & L90 (5min)	Once a week during normal construction working hour (0700- 1900 Monday to Saturday)

4.3 Monitoring Equipment

4.3.1 Integrating Sound Level Meters (SLMs) was used for noise impact monitoring. The SLM complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications shall be used for carrying out noise monitoring. The accuracy of the SLM was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements shall be accepted as valid only if the calibration level from prior to and after the noise measurement agrees to within 1.0dB.

4.3.2 A portable wind speed meter was used for measuring wind speeds in m/s.

4.3.3 **Table 4-3** summarises the equipment that have been used in the impact noise monitoring programme. The calibration certificates are shown in **Appendix D**.

Table 4-3 Noise Monitoring Equipment

Equipment	Model	Expiry Date
Sound Level Meter	NTi XL2 (S/N: A2A-13663-F0)	14 Feb 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 E** and **Appendix F**.

Table 4-4 Summary of Noise Monitoring Results during normal working hours (07:00-19:00, Monday to Saturday)

Noise Monitoring Station	Average Leq, 30min, dB(A) (Range)	Action Level	Limit Level
NM1a	63.1 (59.6 – 64.8)	When one documented complaint is received	>75dB(A)
NM2a	55.2 (53.8 – 56.3)		

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 G**.

4.5.3 No particular observations are identified near the monitoring stations during the monitoring period.

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 4-5** shall be carried out.

Table 4-5 Event and action plan for construction noise monitoring

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

5 Water Quality Monitoring

5.1 Groundwater Monitoring

5.1.1 Monitoring Requirement

5.1.1.1 In accordance with the EM&A manual, groundwater quality monitoring shall be carried out at least once per month at the 35 designated groundwater monitoring locations (i.e ED1 to ED35). Based on the existing construction programme, site clearance and site formation works for future landfilling area are in progress. The groundwater monitoring locations ED1 to ED35 will be installed after the site formation work of the landfilling area. No groundwater monitoring is required before the completion of site formation work of the landfilling area.

5.2 Surface Water Monitoring

5.2.1 Monitoring Requirement

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

5.2.2 Monitoring Locations, Parameters and Frequency

5.2.2.1 Impact surface water monitoring was carried out at WM1 and WM2. 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 C**.

Table 5-1 Surface water quality monitoring locations

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

Table 5-2 Surface water quality monitoring Parameters, Frequency and Duration

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

5.2.3 Monitoring Equipment

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

Table 5-3 Surface Water Quality Monitoring Equipment

Equipment	Model	Expiry Date
Water Quality Meter	HORIBA U-53 (S/N: PPHNOMXY)	21 Nov 2023
Water Flow Meter	Global Water FP211 (S/N: 22K100859)	6 Nov 2023

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 µS/cm	1 µS/cm	APHA 2510 B
Alkalinity	1 mg/L	1 mg/L	APHA 2320 B
COD	10 mg/L	5 mg/L	APHA 5220 C
BOD ₅	3 mg/L	2 mg/L	APHA 5210 B
TOC	1 mg/L	1 mg/L	APHA 5310 B
SS	0.1 mg/L	0.1 mg/L	APHA 2540 D
Ammonia-nitrogen	0.2 mg/L	0.01 mg/L	APHA 4500 NH3 G
TKN	0.4 mg/L	0.1 mg/L	APHA 4500Norg: D
Nitrate	0.5 mg/L	0.01 mg/L	APHA 4500 NO3 I
Sulphate	5 mg/L	1 mg/L	USEPA 375.4
Sulphite	2 mg/L	2 mg/L	APHA 4500 SO3 B
Phosphate	0.01 mg/L	0.01 mg/L	APHA 4500-P B & F
Chloride	0.5 mg/L	0.5 mg/L	USEPA 325.1
Sodium	50 µg/L	50 µg/L	USEPA 6010C
Mg	50 µg/L	50 µg/L	USEPA 6010C
Ca	50 µg/L	50 µg/L	USEPA 6010C
K	50 µg/L	50 µg/L	USEPA 6010C
Fe	50 µg/L	10 µg/L	USEPA 6010C
Ni	1 µg/L	1 µg/L	USEPA 6020A
Zn	10 µg/L	10 µg/L	USEPA 6020A
Mn	1 µg/L	1 µg/L	USEPA 6020A
Cu	1 µg/L	1 µg/L	USEPA 6020A
Pb	1 µg/L	1 µg/L	USEPA 6020A
Cd	0.2 µg/L	0.2 µg/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 18 October 2023. No adverse weather was observed during reporting period. The detailed monitoring schedule is shown in **Appendix C**.

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 E** and **Appendix F**.

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	7.4	>7.7	>7.8	7.6	>7.6	>7.7
DO in mg/L	7.9	<7.4	<4	7.5	<5	<4
Turbidity in NTU	6.6	>9.2	>9.5	43.2	>108.3	>108.9
Electrical Conductivity in $\mu\text{S}/\text{cm}$	51	---	---	148	---	---
SS in mg/L	4.0	>9.7	>11.4	19.4	>94.5	>94.7
Alkalinity in mg/L	14	---	---	36	---	---
COD in mg/L	21			<5		
BOD ₅ in mg/L	<2			<2		
TOC in mg/L	2			2		
Ammonia-nitrogen in mg/L	0.08			0.11		
TKN in mg/L	0.3			0.2		
Nitrate in mg/L	0.06			0.25		
Sulphate in mg/L	<1			18		
Sulphite in mg/L	<2			<2		
Phosphorus in mg/L	0.01			<0.01		
Chloride in mg/L	6			5		
Sodium in $\mu\text{g}/\text{L}$	6790			5190		
Magnesium in $\mu\text{g}/\text{L}$	450			1320		
Calcium in $\mu\text{g}/\text{L}$	2850			16500		
Potassium in $\mu\text{g}/\text{L}$	530			2470		
Iron in $\mu\text{g}/\text{L}$	330			1780		
Nickel in $\mu\text{g}/\text{L}$	<1			1.0		
Zinc in $\mu\text{g}/\text{L}$	10			13		
Manganese in $\mu\text{g}/\text{L}$	28			703		
Copper in $\mu\text{g}/\text{L}$	<1			1		
Lead in $\mu\text{g}/\text{L}$	<1			5		
Cadmium in $\mu\text{g}/\text{L}$	<0.2			<0.2		
Coliform Count in cfu/100mL	1600			1000		
Oil and Grease in mg/L	<5	<5				

5.2.5.4 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 G**.

5.2.5.5 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

Water Quality Monitoring Station	Parameter	pH	DO	Turbidity	SS	Exceedance Count
	Level Exceedance					
WM1	Action	0	0	0	0	0
	Limit	0	0	0	0	0
WM2	Action	0	0	0	0	0
	Limit	0	0	0	0	0

Remarks:

(1) # The investigation results will be presented in the report after the investigation.

(2) * equal to non-project related

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

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 layout of

the temporary surface water drainage system is presented in **Appendix Q**. The joint environmental site inspection records are shown in **Appendix J**.

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"> • Repeat in situ measurement to confirm findings • Identify source(s) of impact • Prepare Notification of Exceedance • Inform IEC and Contractor • Check monitoring data, all plant, equipment and Contractor's working methods • Repeat measurement on next day of exceedance 	<ul style="list-style-type: none"> • Verify Notification of Exceedance • Check monitoring data and Contractor's working methods 	<ul style="list-style-type: none"> • Rectify unacceptable practice • Amend working methods if appropriate
Action level being exceeded by two or more consecutive sampling days	<ul style="list-style-type: none"> • Repeat in situ measurement to confirm findings • Identify source(s) of impact • Prepare Notification of Exceedance • Inform IEC and Contractor • Check monitoring data, all plant, equipment and Contractor's working methods • Discuss with Contractor and IEC for remedial measures • Ensure mitigation measures are implemented • Increase the monitoring frequency to daily until no exceedance of Action level • Repeat measurement on next day of exceedance 	<ul style="list-style-type: none"> • Verify Notification of Exceedance • Check monitoring data and Contractor's working method • Discuss with ET and Contractor on possible remedial actions • Review the proposed mitigation measures • Supervise the implementation of mitigation measures 	<ul style="list-style-type: none"> • Submit proposal of additional mitigation measures to IEC of notification • Implement the agreed mitigation measures • Amend proposal if appropriate

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

6 Waste Management

- 6.1.1** Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. Non-inert C&D materials were made up of general refuse, steels and paper/cardboard packaging materials. Steel materials generated from the Project were also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in **Appendix I**.
- 6.1.2** A total of 55,405 tonnes of C&D materials was reused at alternative disposal ground (NENT Landfill) during the reporting period. No Yard waste (collected to Y-Park) was generated during the reporting period. A total of 28.05 tonnes of general refuse and A total of 116.07 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:

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

7.2 Monitoring Locations

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

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

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

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

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

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

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

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

Table 7-1 Locations of LFG Monitoring during reporting period

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

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 D**. The detection limits are provided in **Table 7-3**.

Table 7-2 LFG Monitoring Equipment

Monitoring Parameters	Equipment	Model	Expiry Date
CH ₄ & O ₂	Gas Detector	PS200 (S/N: 373075)	16 Nov 2023
CO ₂	Gas Analyser	GEM5000 (S/N: G505207)	30 Aug 2024

Table 7-3 Landfill Gas Monitoring Detection Limits

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

7.4 Event and Action Plan (EAP)

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

Table 7-4 Action Plan for the monitoring during construction phase

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

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

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

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

7.5 Monitoring Results

7.5.1 The LFG monitoring was carried out two rounds (at the beginning of works in the morning and after lunch) at the working days. The monitoring period of each round of LFG monitoring is around 5 minutes.

7.5.2 The LFG monitoring was conducted at Portion A +50 mpD to 70 mpD Platform in October 2023 (Conducted on working days). The LFG monitoring results are summarized in **Table 7-5**.

Table 7-5 Summary of LFG Monitoring Results

LFG Monitoring Station	Monitoring Date	Monitoring Parameter(s)			
		CH ₄ in %	LEL in %/v	CO ₂ in %	O ₂ in %
		Average Monitoring Results			
Portion A +50 mpD to 70 mpD Platform	3 Oct 2023	0	0	0	20.3
	4 Oct 2023	0	0	0	20.1
	5 Oct 2023	0	0	0	20.1
	6 Oct 2023	0	0	0	20.2
	7 Oct 2023	0	0	0	20.2
	10 Oct 2023	0	0	0	20.3
	11 Oct 2023	0	0	0	20.1
	12 Oct 2023	0	0	0	20.2
	13 Oct 2023	0	0	0	20.2
	14 Oct 2023	0	0	0	20.2
	16 Oct 2023	0	0	0	20.1
	17 Oct 2023	0	0	0	20.2
	18 Oct 2023	0	0	0	20.2
	19 Oct 2023	0	0	0	20.2
	20 Oct 2023	0	0	0	20.2
	21 Oct 2023	0	0	0	20.2
	24 Oct 2023	0	0	0	20.1
	25 Oct 2023	0	0	0	20.2
	26 Oct 2023	0	0	0	20.2
	27 Oct 2023	0	0	0	20.2
28 Oct 2023	0	0	0	20.2	
30 Oct 2023	0	0	0	20.2	
31 Oct 2023	0	0	0	20.2	
Action Level		>10% LEL	---	>0.5%** CO ₂	<19%

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

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

7.5.3 No exceedance of 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 G**.

7.5.4 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 K**.

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 was conducted on 13 Oct 2023 based on the requirement of the approved Transplantation Proposal for Plant Species of Conservation Importance (Rev.1). The 15th Post-transplantation Monitoring and Audit Report (13th Oct 2023) presents the details of requirements, monitoring results and site inspection with photos. The site inspection photos are also summarized in **Appendix N**. During the reporting period, the numbers, measurements, and health conditions of the transplanted plant species are recorded.
- 10.1.2** The post-translocation monitoring had been completed in July 2023. No further post-translocation monitoring will be conducted in accordance with the requirements of the Revised Translocation Proposal for the Endemic Freshwater Crab *Somanniathelphusa zanklon*.
- 10.1.3** The details of requirements, monitoring results and site inspection with photos for the post-translocation monitoring and post-transplantation monitoring would be reported separately.
- 10.1.4** The milestone of the ecological monitoring is presented in **Table 10-1**. The softcopies of the submissions are provided in <https://www.nentx-ema.com/ep-submissions/>.

Table 10-1 Milestone of the Ecological Monitoring

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

11 Site Inspection and Audit

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

11.1.2 Weekly ET environmental site inspections were conducted in the reporting period on 03, 11, 16, 24 & 30 October 2023. A joint environmental site inspection was carried out by the representatives of the ER, the Contractor, IEC and the ET on 16 October 2023. The joint environmental site inspection records are shown in **Appendix J**. There was no noncompliance recorded during the site inspections.

11.1.3 Major findings and recommendations are summarized as follows:

03 October 2023

Observation(s):

- The stagnant water in drip tray should be cleared of in Portion E4. The contractor was reminded to clear the stagnant water in the drip tray.
- The accumulated silt in the channel at Portion E3 should be regularly removed. The contractor was advised to conduct regularly cleaning works to remove the accumulated silt in the channel.
- The accumulated surface runoff in Portion E3 should be divided to the silt removal facility for wastewater treatment. The contractor was advised to divide the surface runoff to the silt removal facility for proper wastewater treatment.

11 October 2023

Observation(s):

- The accumulated water was found at waste skip of Portion A. The contractor was advised to clear the accumulated water at the waste skip and the waste skip should be covered with impervious sheet when rainstorm is forecast.
- The slope surface protection should be enhanced at Portion E4 near entrance and access road. The contractor was recommended that the exposed slope should be covered with impervious sheet in the short term and the shotcrete for slope surface should be conducted in the long term.
- The drip tray should be placed under the chemical container at Portion E4. The contractor was recommended that the drip tray should be placed under the chemical container at Portion E4.
- The exposed slope should be covered with impervious sheet at the SBA and Portion E4. The contractor was recommended that the exposed slope should be covered with impervious sheet in the short term and the shotcrete for slope surface should be conducted in the long term.
- The accumulated water was found at the drip tray of SBA. The contractor was advised to clear the accumulated water at the drip tray of SBA.

16 October 2023

Observation(s):

- The overloading of enclosed bin at Portion A was found. The contractor was recommended to provide enough enclosed bins for collection of general waste at Portion A and the frequency for collection of general waste should be increased.
- The chemical labelling should be provided for lots of chemicals at SBA and oil drum at Portion E3-1. The chemicals at SBA should be placed at the proper location for storage. The contractor was advised that the suitable chemical label should be placed on the chemical containers. The chemicals should be placed in the proper location for storage.

Reminder(s):

- The contractor was reminded to provide regular water spraying to the haul road to control the dust level.
- The contractor was reminded to be taken the precautions in accordance with Appendix A2 of ProPECC 1/94 for upcoming rainstorm.

24 October 2023

Observation(s):

- The chemical containers were not placed on the drip tray at Portion E3-1. The contractor was recommended that the chemical containers should be placed on the drip tray at Portion E3-1.
- The general waste was found at the floor of Portion E3-1. The contractor was advised that the enclosed bins should be placed at the proper area of Portion E3-1.

Reminder(s):

- The contractor was reminded to increase the water spraying at the unpaved area and assess road.

30 October 2023

Observation(s):

- The storage area of chemical containers at Portion E3-1 was without drip tray and other properly setup etc. to prevent the chemicals rainfall entering and reduce heat from sunlight and avoid the risk of land contamination. The contractor was recommended to provide the properly storage area for chemicals and chemical waste including chemical containers to prevent the chemicals rainfall entering and reduce heat from sunlight and avoid the risk of land contamination.

11.1.4 No 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 Levels and Limit Level were recorded at designated monitoring stations during the reporting period. The Notification of Environmental Quality Limits Exceedance is presented in **Appendix G**.

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 12-1**.

Table 12-1 Cumulative Statistics on Environmental Complaints

Reporting Period	Environmental Aspects					No. of Environmental Complaints
	Air Quality	Noise	Water Quality	Waste	Ecology	
Oct 2023	0	0	0	0	0	0
Accumulate of project	1*	0	5(1*)	0	0	6(2*)

Remarks:

(1) * equal to non-project related after the investigation

(2) # equal to the investigation results will be presented in the report after the investigation.

12.3.2 Cumulative complaint / enquiry log, Summaries of complaints and enquiries & Environmental complaint reports are presented in **Appendix P**.

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 K**.

13.2 Temporary Surface Water Drainage System (TSWDS)

13.2.1 The effectiveness of the TSWDS is keeping reviewing and improve by the contractor. The layout of the TSWDS is presented in **Appendix Q**.

13.3 Hydroseeding

13.3.1 The implementation of hydroseeding at the site boundary is keeping conducting by the contractor. The layout of implementation of hydroseeding is presented in **Appendix Q**.

13.4 Slope Surface Protection

13.4.1 The implementation of measure for control of construction runoff is keeping conducting by the contractor. The layout & photo record of implementation of measure for control of construction runoff is presented in **Appendix Q**.

14 Future Key Issues

15.2 Key Issues for the Coming Month

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

-
- 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)

15.2.2 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.

15.3 Monitoring Schedule for the Next Month

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

15.4 Construction Programme for the Next Month

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

16 Conclusion

- 16.1.1 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.
- 16.1.2 Construction noise monitoring was carried out in the reporting month. No Action / Limit Level exceedance at NM1a & NM2a was recorded during the period.
- 16.1.3 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.
- 16.1.4 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.
- 16.1.5 Landfill Gas Monitoring was carried out in the reporting month. No exceedance of Limit Levels of LFG was recorded during the reporting period.
- 16.1.6 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.
- 16.1.7 Post-transplantation monitoring was carried out in the reporting month. The numbers, measurements and health conditions of the transplanted species are recorded.
- 16.1.8 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.
- 16.1.9 No complaint was recorded during the reporting period.
- 16.1.10 No non-compliance event was recorded during the reporting period.
- 16.1.11 No notification of summons and prosecution was received during the reporting period.
- 16.1.12 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Figure 1 Location of the Project Site

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

Figure 3 Landfill Gas Monitoring Locations

Gas Monitoring Point ●

Monitoring Frequency: 2 times per day

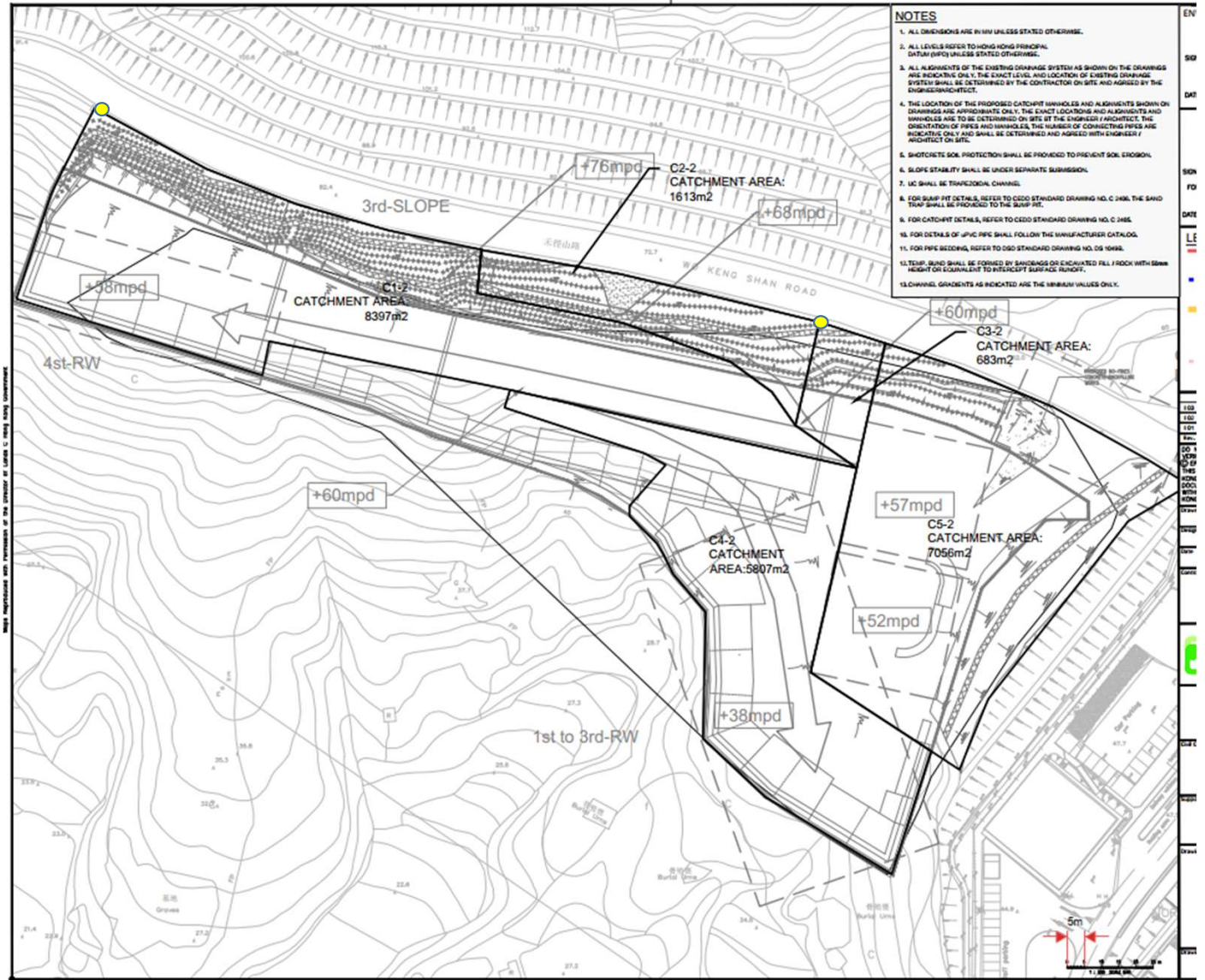
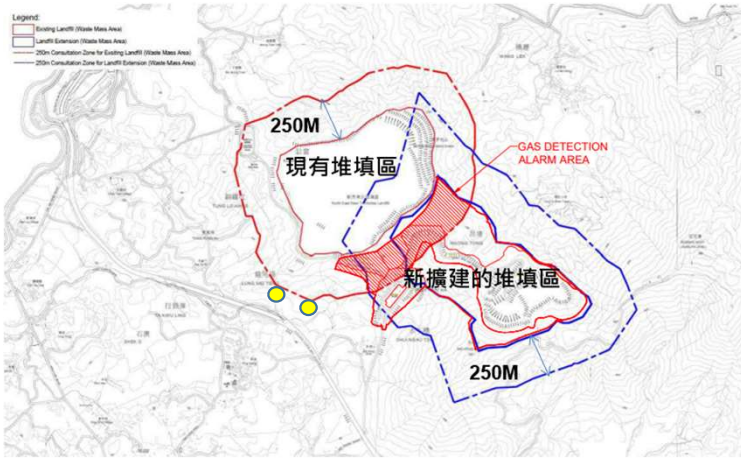


Figure 3 Landfill Gas Monitoring Locations

Appendix A Construction Programme

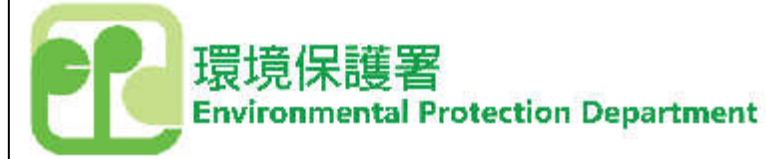
Activity ID	Activity Name	OD	Start	Finish	2022												2023												2024												2025												2026												2027														
					Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
NENTX					1432	25-Jan-22 A	27-Dec-25																																																																								
CONSTRUCTION - INITIAL WORKS PHASE 1					1432	25-Jan-22 A	27-Dec-25																																																																								
PORTION A - Advance Works & Site Establishment					1403	11-Apr-22 A	27-Nov-25																																																																								
SITE ESTABLISHMENT AND MOBILISATION					202	12-May-22 A	14-Aug-22																																																																								
05-0001	Start of Site Establishment	0	12-May-22 A																																																																												
05-0002	Site Clearance	12	13-May-22 A	18-May-22 A																																																																											
05-0003	Site Office Container Set-up at Portion D (2 floor level)	60	13-May-22 A	29-Jun-22																																																																											
05-0004	Fencing, Gates, Signboard & Lighting	80	25-May-22 A	14-Aug-22																																																																											
05-0005	Completion of Site Establishment Works	0	12-Aug-22																																																																												
SITE SURVEY & INVESTIGATION WORKS					75	25-Apr-22 A	18-Aug-22																																																																								
05-0007	UU Detection Report at Portion D	0	25-Apr-22 A																																																																												
05-0008	Topographic Survey	0	25-Apr-22 A																																																																												
05-0009	GI Works (Portion A)	75	04-Jun-22	18-Aug-22																																																																											
05-0010	Tree Survey (Portion A)	0	17-Jun-22																																																																												
05-0011	Tree Removal (Portion A)	59	19-Jun-22	18-Aug-22																																																																											
ENVIRONMENTAL MONITORING					1138	11-Apr-22	27-Nov-25																																																																								
05-0018	Conduct Baseline Monitoring for Construction	60	11-Apr-22	18-Jun-22																																																																											
05-0019	Installation of Monitoring Station at Portion A and D	250	20-Jun-22	06-Apr-23																																																																											
05-0020	Conduct Baseline Monitoring for Operation Period	255	04-Feb-25	27-Nov-25																																																																											
SITEWIDE Underground UTILITIES (Portion A to Portion D)					470	12-Oct-22	11-Apr-24																																																																								
05-0012	Excavation / Trench Works from Portion A to Portion D for all UG Utilities	120	12-Oct-22	28-Feb-23																																																																											
05-0013	WSD - Water Pipe Laying from Portion A to Portion D buildings	90	25-Jan-23	09-Mar-23																																																																											
05-0014	CLP Cable Laying Site boundary from Portion A to CLP Transformer Room at Process Building	90	10-May-23	22-Aug-23																																																																											
05-0015	Portion A - Remaining LV Cable and UG Duct Utilities Laying and Distribute to all Site Buildings	60	22-Aug-23	31-Oct-23																																																																											
05-0016	Telecom Cable Duct / Cable Laying (Process Building to all site buildings)	60	31-Oct-23	09-Jan-24																																																																											
05-0017	Backfilling and Reenstatement Works - Portion A to D alignment Utilities (WSD,CLP,Telecom)	80	09-Jan-24	11-Apr-24																																																																											
PORTION A - Infrastructure Treatment Area					1174	17-Sep-22	04-Dec-25																																																																								
SITE FORMATION					397	17-Sep-22	11-Nov-23																																																																								
05-0021	Excavation / Soil Nail consent granted	0	17-Sep-22																																																																												
05-0022	Site Formation Completed	0	11-Nov-23																																																																												
Soil Ground Platform at +50mPD/+55mPD					320	17-Sep-22	22-Aug-23																																																																								
05-0023	Installation of Main Haul Road RW 45 degree cut and fill slope from crest line	28	17-Sep-22	17-Oct-22																																																																											
05-0024	Excavation for +50mPD (Re-use Top soil)	111	19-Oct-22	15-Feb-23																																																																											
05-0025	Soil Nail for +50mPD to +60mPD	150	15-Feb-23	23-Jul-23																																																																											
05-0026	Remaining Excavation for +55mPD to +60mPD (Re use Top soil)	64	21-Feb-23	29-Apr-23																																																																											
05-0027	RC Wall Construction (+50mPD) chainage	134	03-Apr-23	22-Aug-23																																																																											
05-0028	Bund Wall (+55mpd)	54	02-May-23	26-Jun-23																																																																											
05-0029	Founding Level Inspection +55mPD	0	24-Jun-23																																																																												
05-0030	Founding Level Inspection +50mPD	0	26-Jul-23																																																																												
Soil Ground Platform at +60mPD (LTW Plant)					229	17-Jan-23	14-Sep-23																																																																								
05-0031	Excavation for +60mPD (Re-use Top soil)	36	17-Jan-23	25-Feb-23																																																																											
05-0032	Soil Nail Installation	115	25-Feb-23	27-Jun-23																																																																											
05-0033	RC Wall Construction (+60mPD) chainage	96	12-Apr-23	20-Jul-23																																																																											
05-0034	Bund Wall (+60mpd, +65mpd)	117	18-May-23	14-Sep-23																																																																											
05-0035	Founding Level Inspection +60mPD	0	14-Sep-23																																																																												
05-0036	Founding Level Inspection +65mPD	0	14-Sep-23																																																																												
Soil Ground Platform at +70mPD (LTW Plant)					248	25-Feb-23	11-Nov-23																																																																								
05-0037	Excavation for +70mPD (Re-use top soil)	113	25-Feb-23	24-Jun-23																																																																											
05-0038	Soil Nail for +70mPD	130	26-Apr-23	06-Sep-23																																																																											
05-0039	RC Construction (+70mPD) chainage	96	26-Jun-23	03-Oct-23																																																																											
05-0040	Bund Wall (+70mpd)	56	13-Sep-23	11-Nov-23																																																																											
05-0041	Founding Level Inspection +70mPD	0	11-Nov-23																																																																												
PROCESS TREATMENT AREA					891	28-Jun-23	04-Dec-25																																																																								
Process Building (+50mpd)					661	26-Jul-23	17-May-25																																																																								
05-0042	Substructure / Footing	40	26-Jul-23	04-Sep-23																																																																											
05-0043	RC LG/F Beam and Column to G/F	42	05-Sep-23	20-Oct-23																																																																											
05-0044	RC External Wall U/GF	18	18-Sep-23	09-Oct-23																																																																											
05-0045	RC G/F Slab / beam and Walls/Column to 1/F	30	20-Oct-23	20-Nov-23																																																																											
05-0046	RC 1/F Slab / beam and Walls/Column to R/F	29	20-Nov-23	19-Dec-23																																																																											
05-0047	Commencement of E&M work in CLP Room G/F	0	11-Dec-23																																																																												
05-0048	CLP Inspection, Lead-in Cable & Connection	107	11-Dec-23	12-Apr-24																																																																											
05-0050	RC Roof/U/R/F slab/beam	27	19-Dec-23	18-Jan-24																																																																											
05-0051	Commencement of E&M work in Transformer Room, G/F LV Switch Room	0	13-Jan-24																																																																												
05-0052	Transformer & LV Switch Room MEP Installation	80	15-Jan-24	17-Apr-24																																																																											
05-0053	Building Envelope Enclosure	90	18-Jan-24	25-Apr-24																																																																											
05-0054	ABWF, MEP Installation (G/F to R/F)	180	19-Jan-24	16-Aug-24																																																																											
05-0055	CLP Power-ON Energisation	0	17-Apr-24																																																																												
05-0056	Completion of Process Building Structure with Watertightness Test	0	17-Apr-24																																																																												
05-0057	Commencement of MEP Works in MCC Room, Control Room, Blower Room (VES / ATAL)	0	18-Apr-24																																																																												
05-0058	MCC Room MEP Installation	80	19-Apr-24	22-Jul-24																																																																											
05-0059	LV Switchboard System & Sitewide Distribution	150	27-Apr-24	19-Oct-24																																																																											
05-0060	Commencement of MEP installation in Control Room	0	17-May-24																																																																												
05-0061	Control Room MEP Installation	130	17-May-24	16-Oct-24																																																																											
05-0062	Control room, Blower MEP Installation	130	17-May-24	16-Oct-24																																																																											
05-0063	Completion of All Process Building Works & Documentation and Ready for FS Inspection (2nd Stage)	0	16-Oct-24																																																																												
05-0064	FS Inspection and Defects Rectification for Process Building (2nd Stage)	180	19-Oct-24	17-May-25																																																																											
LFG Plant (+55mpd)					678	28-Jun-23	10-Jun-25																																																																								
05-0065	Substructure / Foundation works	90	28-Jun-23	26-Sep-23																																																																											
05-0066	Handover of Foundation Top	0	26-Sep-23																																																																												
05-0067	MEP Installation	450	08-Oct-23	22-Jan-25																																																																											
05-0068	Testing & Pre-Commissioning	150	02-Jan-25	10-Jun-25																																																																											
LTW Plant (+60mpd, +70mpd)					753	13-Nov-23	04-Dec-25																																																																								
05-0069	Substructure / Foundation works	86	13-Nov-23	09-Feb-24																																																																											
05-0070	Ammonia Stripper	180	10-Feb-24	07-Sep-24																																																																											
05-0071	Handover of Foundation Top	0	14-Feb-24																																																																												
05-0072	MEP Installation	510	14-Feb-24	01-Aug-25																																																																											
05-0073	BS and Plant Equipment and Instrument Works (ramped provision from 60mpd - 70mpd)	180	12-Feb-24	07-Sep-24																																																																											
05-0074	SBR Tanks	150	19-Feb-24	12-Aug-24																																																																											
05-0075	DG Storage Area	150	14-Feb-24	20-Jul-24																																																																											
05-0076	Licensing on DG Storage Area	270	13-Aug-24	25-May-25																																																																											
05-0077	ABWF works	210	09-Sep-24	12-May-25																																																																											
05-0078	Testing & Pre-Commissioning	150	04-Jul-25	04-Dec-25																																																																											
PORTION A - Underground Drainage and Process Pipeworks					240	09-May-23	14-Jan-24																																																																								
05-0079	Segment 3 - Excavation and Pipe Laying Works at Main EVA road LTW to LFG area	60	13-Nov-23	14-Jan-24																																																																											
05-0080	Segment 1 chainage - Excavation and Pipe Laying Entrance to LFG bldg (Lane road 1 LHS)	60	09-May-23	11-Jul-23																																																																											
05-0081	Segment 2 Chainage - Excavation and Pipe Laying Entrance to LFG bldg (Lane road 2 RHS)	60	08-Jul-23	06-Sep-23																																																																											
05-0082	Segment 4 chainage - Excavation and Pipe Laying at Process building round about	60	06-Sep-23	09-Nov-23																																																																											
PORTION A - EVA Road Paving Works					203	12-Jan-24	14-Aug-24																																																																								
05-0067.01	EVA Road Pavement Works from LTW to LFG Area	90	12-Jan-24	19-Apr-24																																																																											
05-0067.02	EVA Road Pavement Works Within Process Building and Main Entrance	120	12-Apr-24	14-Aug-24																																																																											
05-0067.03	Handover to Veolia	0	10-Aug-24																																																																												
SITEWIDE Interfacing and Coordination					633	03-Aug-22	02-Jun-24																																																																								
05-0083	Water Supply / WSD	540	03-Aug-22	24-Feb-24																																																																											
05-0084	Power Supply / CLP	540	03-Aug-22	24-Feb-24																																																																											
05-0085	NENT / NENTX	513	03-Aug-22	24-Jan-24																																																																											
05-0086	Telecom	120	25-Jan-24	02-Jun-24																																																																											
PORTION C - Waste Reception Area					100	04-Feb-25	30-May-25																																																																								
05-0087	Vehicle Wash Facility Upgrade Work	100	04-Feb-25	30-May-25																																																																											
05-0089	Weighbridge Upgrade Work	75	04-Feb-25	01-May-25																																																																											
05-0091	Weighmaster House Refurbishment & Upgrade Work	75	04-Feb-25	01-May-25																																																																											
05-0092	Wheel Wash Bath Upgrade Work	75	04-Feb-25	01-May-25																																																																											
05-0093	Guard House & Entrance Gate Upgrade Work	60	04-Feb-25	14-Apr-25																																																																											
05-0094	General Area & Access Road	60	04-Feb-25	14-Apr-25																																																																											
05-0095	Diesel Fuel Tanks	60	04-Feb-25	14-Apr-25																																																																											

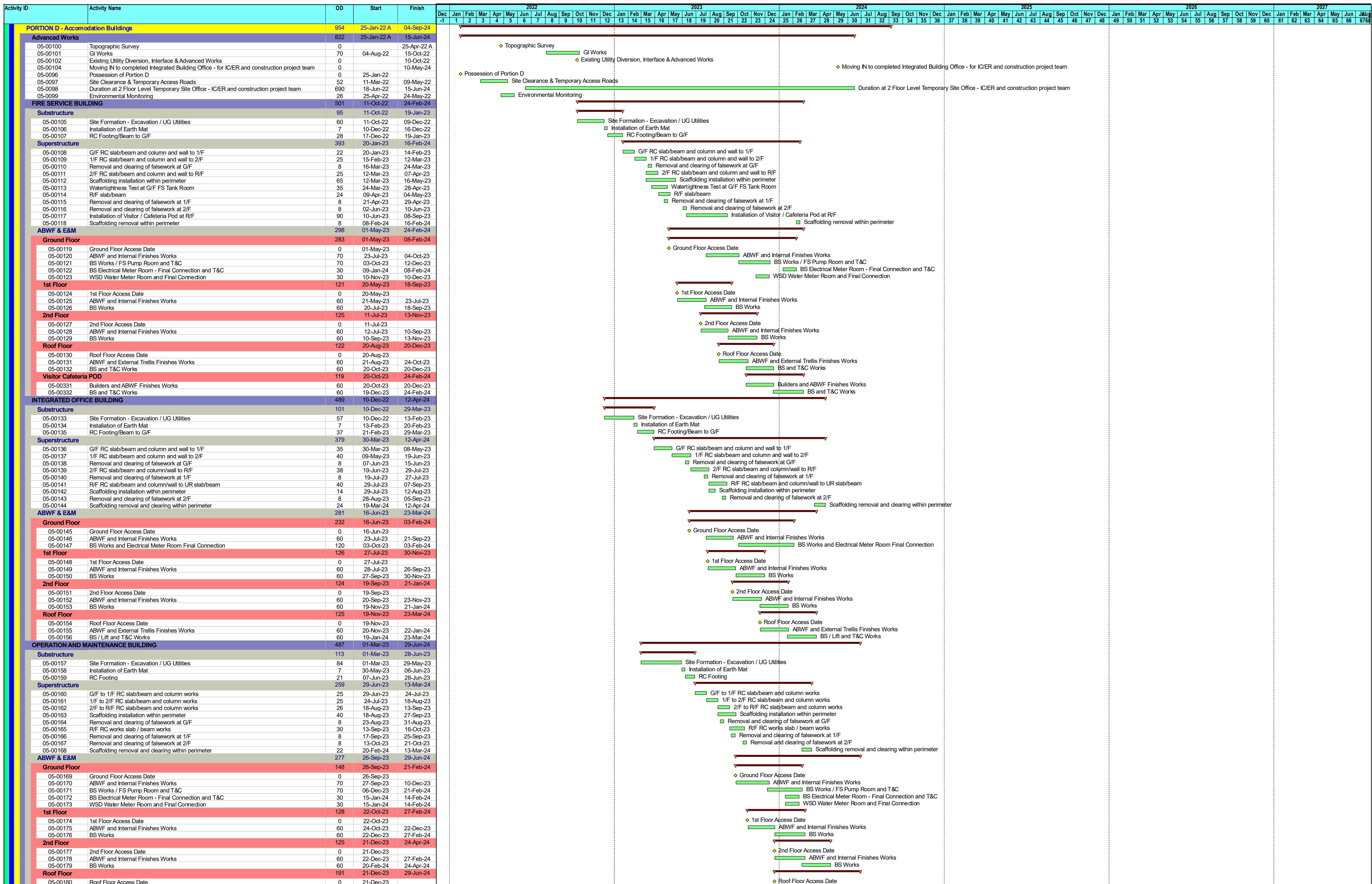
- ▬ Remaining Level of Effort
- ▬ Actual Work
- ▬ Remaining Work
- ▬ Critical Remaining Work
- ◆ Milestone
- ▬ Summary

NORTH EAST NEW TERRITORIES (NENTX) LANDFILL EXTENSION
BASELINE PROGRAMME - EXTRACTED (REV.3)
INITIAL WORKS (PHASE 1)



Date	Revision	Checked	Approved
08-Jul-22	EXTRACTED - ISSUED 14JAN2023	DW	AY

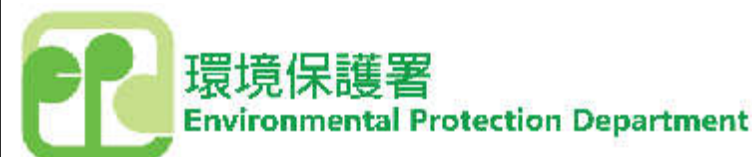




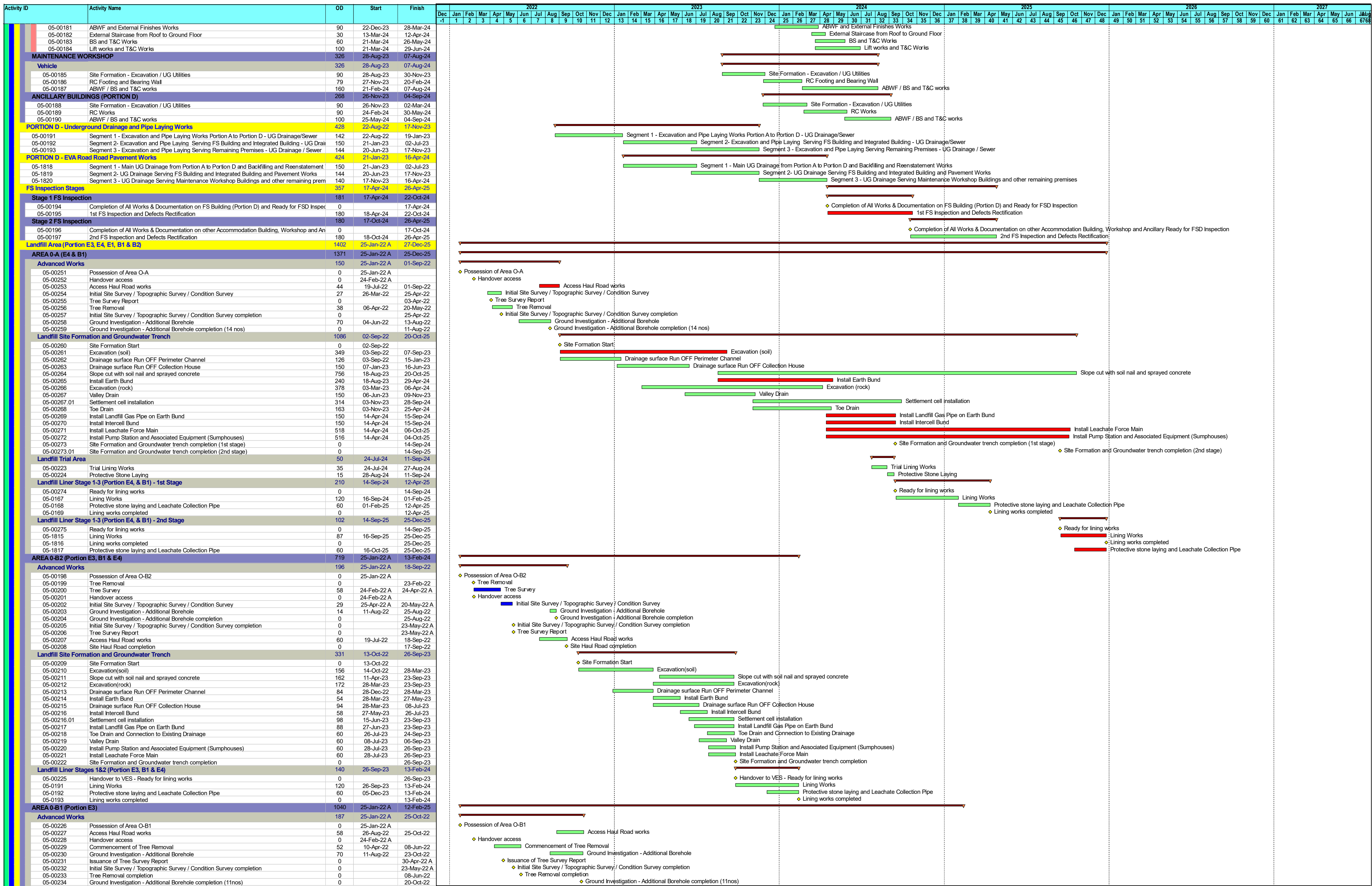
- ▬ Remaining Level of Effort
- ▬ Actual Work
- ▬ Remaining Work
- ▬ Critical Remaining Work
- ◆ Milestone
- ▴ Summary

NORTH EAST NEW TERRITORIES (NENTX) LANDFILL EXTENSION

**BASELINE PROGRAMME - EXTRACTED (REV.3)
INITIAL WORKS (PHASE 1)**



Date	Revision	Checked	Approved
08-Jul-22	EXTRACTED - ISSUED 14JAN2023	DW	AY

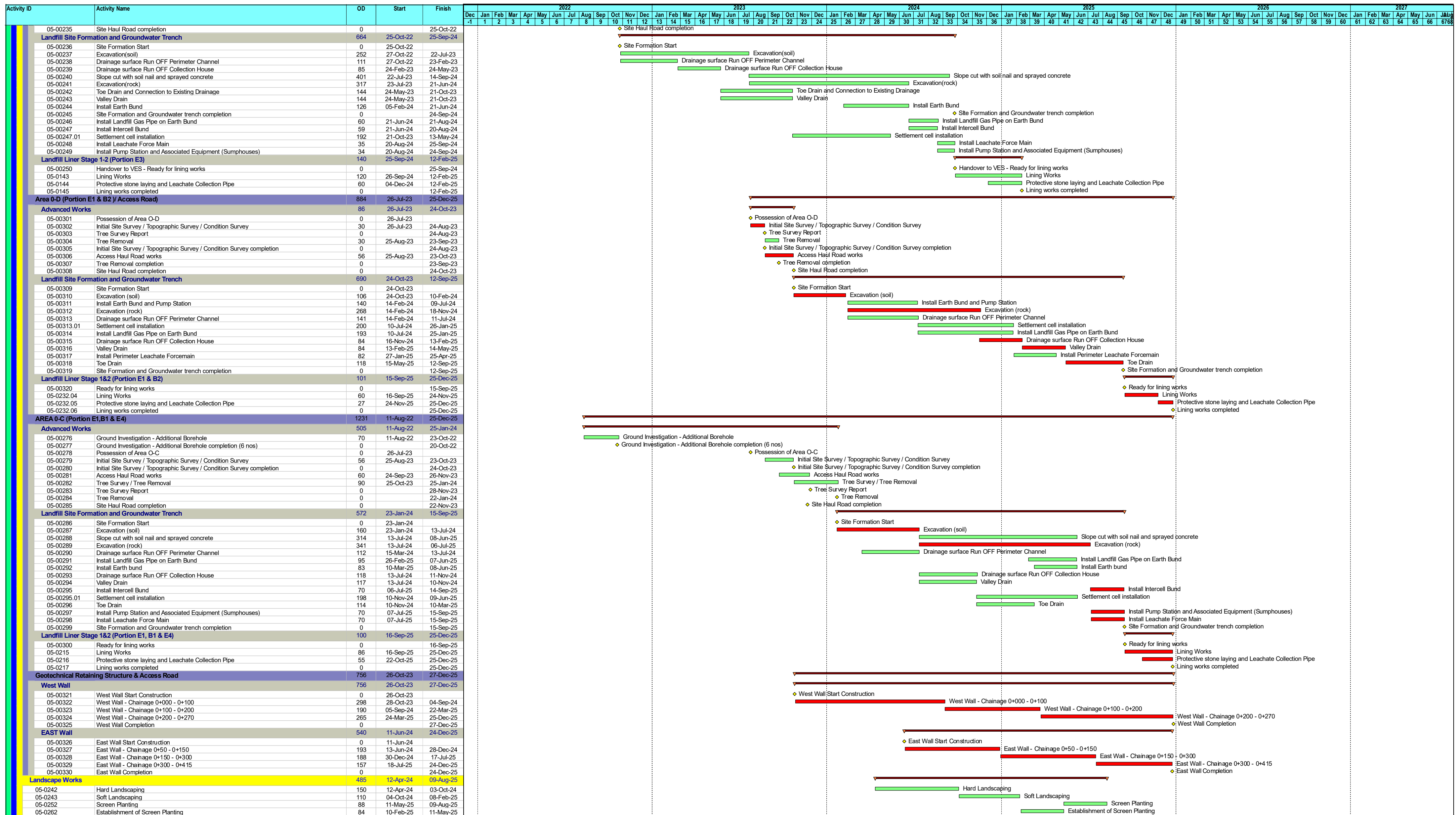


- ▬ Remaining Level of Effort
- ▬ Actual Work
- ▬ Remaining Work
- ▬ Critical Remaining Work
- ◆ Milestone
- ▬ Summary

NORTH EAST NEW TERRITORIES (NENTX) LANDFILL EXTENSION
BASELINE PROGRAMME - EXTRACTED (REV.3)
INITIAL WORKS (PHASE 1)



Date	Revision	Checked	Approved
08-Jul-22	EXTRACTED - ISSUED 14JAN2023	DW	AY



■ Remaining Level of Effort
■ Actual Work
■ Remaining Work
■ Critical Remaining Work
◆ Milestone
▶ Summary

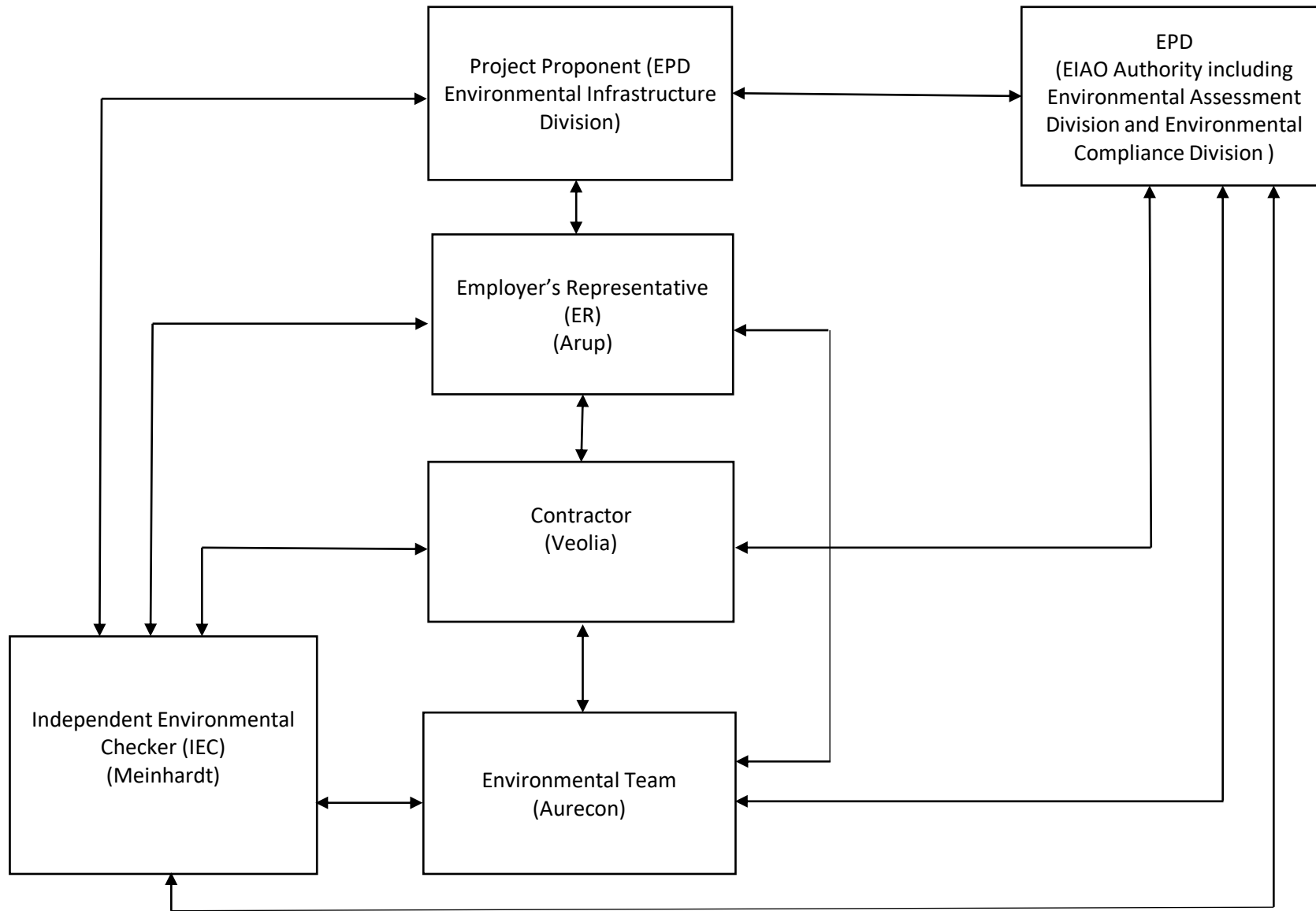
NORTH EAST NEW TERRITORIES (NENTX) LANDFILL EXTENSION
BASELINE PROGRAMME - EXTRACTED (REV.3)
INITIAL WORKS (PHASE 1)



Date	Revision	Checked	Approved
08-Jul-22	EXTRACTED - ISSUED 14JAN2023	DW	AY



Appendix B Project Organization Chart & Management Structure



Notes:

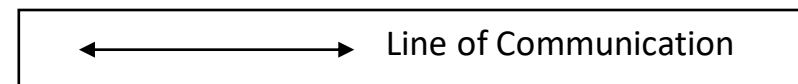
EPD - Environmental Protection Department

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 Monitoring Schedule for Reporting Month & Next Month

Impact Monitoring Schedule for NENT Landfill Extension (October 2023) (version 4.0)

10-2023						
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	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 Surface water quality monitoring at WM1 and WM2	19	20	21 Air quality monitoring at AM1, AM2 and AM3
22	23	24	25	26	27 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	28
29	30	31				

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

Impact Monitoring Schedule for NENT Landfill Extension (November 2023) (version 2.0)

11-2023						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
			1	2 Air quality monitoring at AM1, AM2 and AM3	3 Noise monitoring at NM1a and NM2a	4
5	6	7	8 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a Surface water quality monitoring at WM1 and WM2	9	10	11
12	13	14 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	15	16	17	18
19	20 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	21	22	23	24	25 Air quality monitoring at AM1, AM2 and AM3
26	27	28	29	30	1 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a Surface water quality monitoring at WM1 and WM2	2

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 D Calibration Certificates

Air Quality

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Representative ForTung Lo Hang	Site ID:	AM1	Date:	04-Sep-2023
Serial No.:	1105	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition

Actual Pressure during Calibration (P _a) (mm Hg):	1002.1	Actual Temperature during Calibration (T _a) (deg K):	299.0
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Calibration Orifice

Model:	TE-5025A	Slope (m _c):	2.10188
Serial No.:	4166	Intercept (b _c):	-0.35800
Calibration Due Date:	19-Jun-24	Corr. Coeff:	0.99998

Calibration Data

Plate or Test #	ΔH ₂ O (in)	Qa, X-Axis (m ³ /min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	13.00	2.137	53.0	60.76
13	11.00	1.979	47.0	53.88
10	9.00	1.807	44.0	50.44
7	6.30	1.539	36.0	41.27
5	4.50	1.327	28.0	32.10

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

m = 34.0375 b = -12.1429 Corr. Coeff = 0.9950

Calculations

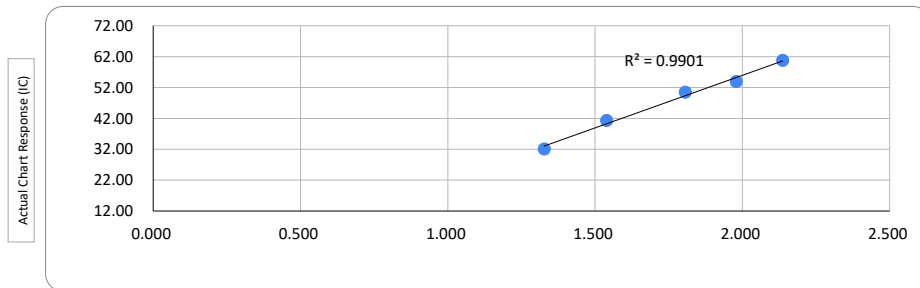
$$Q_a = 1/m_c \cdot [\text{Sqrt}(\Delta H_2O \cdot (P_a/P_{Std}) \cdot (T_{Std}/T_a)) - b_c]$$

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

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

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

Flow Rate Chart



Standard Flow Rate (m³/min)

Checked by: Tandy Tse
 Senior Consultant, Environmental

Date: 04-Sep-2023

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Representative For Heung Yuen Wai	Site ID:	AM2	Date:	04-Sep-2023
Serial No.:	1106	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition

Actual Pressure during Calibration (P _a) (mm Hg):	1002.1	Actual Temperature during Calibration (T _a) (deg K):	299.0
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Calibration Orifice

Model:	TE-5025A	Slope (m _c):	2.10188
Serial No.:	4166	Intercept (b _c):	-0.35800
Calibration Due Date:	19-Jun-24	Corr. Coeff:	0.99998

Calibration Data

Plate or Test #	ΔH ₂ O (in)	Q _a , X-Axis (m ³ /min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	11.00	1.979	60.0	68.78
13	9.40	1.842	56.0	64.20
10	7.00	1.613	49.0	56.17
7	4.60	1.340	42.0	48.15
5	3.60	1.205	40.0	45.85

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

m = 30.2611 b = 8.3322 Corr. Coeff = 0.9963

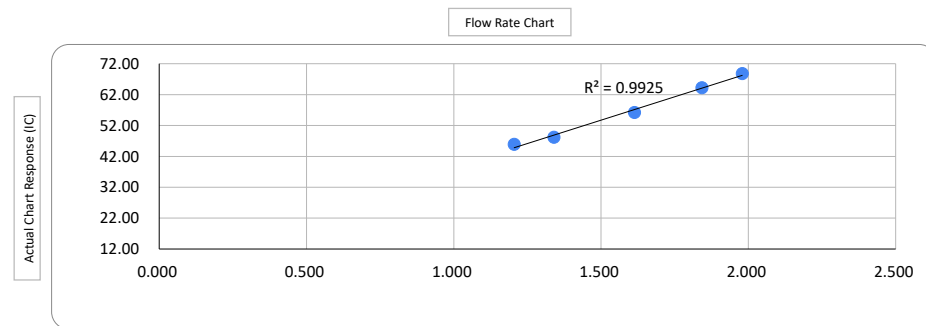
Calculations

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

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

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

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



Standard Flow Rate (m³/min)

Checked by: Tandy Tse
 Senior Consultant, Environmental

Date: 04-Sep-2023

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Representative For Wo Keng Shan Tsuen	Site ID:	AM3	Date:	04-Sep-2023
Serial No.:	1856	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition

Actual Pressure during Calibration (P _a) (mm Hg):	1002.1	Actual Temperature during Calibration (T _a) (deg K):	299.0
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Calibration Orifice

Model:	TE-5025A	Slope (m _c):	2.10188
Serial No.:	4166	Intercept (b _c):	-0.35800
Calibration Due Date:	19-Jun-24	Corr. Coeff:	0.99998

Calibration Data

Plate or Test #	ΔH ₂ O (in)	Q _a , X-Axis (m ³ /min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	13.50	2.174	55.0	63.05
13	11.40	2.012	51.0	58.46
10	9.10	1.816	48.0	55.03
7	6.00	1.506	41.0	47.00
5	4.00	1.261	38.0	43.56

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

m = 21.5825 b = 15.5690 Corr. Coeff = 0.9953

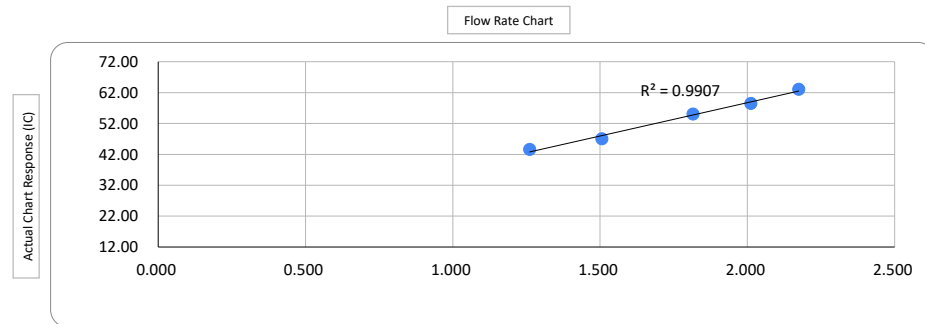
Calculations

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

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

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

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



Standard Flow Rate (m³/min)

Checked by: Tandy Tse

 Senior Consultant, Environmental

Date: 04-Sep-2023

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

Verification Test Date: 3-Dec-22 to 4-Dec-22
 Next Verification Test Date: 2-Dec-23
 Unit-under-Test- Model No.: Sibata LD-5R
 Unit-under-Test Serial No.: 882106
 Our Report Reference No.: RPT-22-HVS-0027
 Calibration Location: AM2, Located near the Leachate Treatment Works within the NENT Landfill

Standard Equipment Information			
Verification Equipment Type	Tisch TSP HVS	Tisch HVS Calibrator	
Standard Equipment Model No.	TE-5170X	TE-5025A	
Equipment serial no.	MFC 1106	3465	
Last Calibration Date	1-Dec-22	28-Jun-22	
Next Calibration Date	31-Jan-23	27-Jun-23	

Verification Test No.	Date	Time			K-Factor K-Factor (K=C/R)	Counts/ Minute (R)	Total Counts (TC)	TSP Sample ID No.	Dust Concentration (ug/m3), (C)
		Start-time	End-time	Elapsed Time (in min)					y axis
1	3/12/2022	194.73	198.08	201.00	0.00123	50	9983	R222043/1	61
2	3/12/2022	198.08	201.27	191.40	0.00092	37	7146	R222043/2	34
3	3/12/2022	201.27	204.35	184.80	0.00103	48	8870	R222043/3	49
4	4/12/2022	252.37	255.36	179.40	0.00108	62	11183	R222044/1	67
5	4/12/2022	255.38	258.38	180.00	0.00110	57	10260	R222044/2	62
6	4/12/2022	258.38	261.38	180.00	0.00108	65	11760	R222044/3	70
					0.00107				

K-Factor to be inputted in LD-5R (corrected 1 decimal point): 1.1

By Linear Regression of y on x:

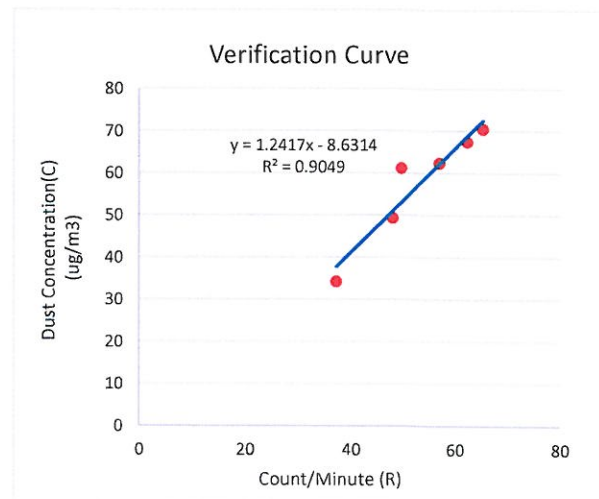
slope, mh= 1.2417

intercept, ch= -8.6314

*Correlation Coefficient, R= 0.9513

Verification Test Result: Strong Correlation, Results were accepted.

* If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.



Verified By: IA
 Technical Manager

Date: 05-12-2022

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

Verification Test Date: 3-Dec-22 to 4-Dec-22
 Next Verification Test Date: 2-Dec-23
 Unit-under-Test- Model No. Sibata LD-5R
 Unit-under-Test Serial No. 942532
 Our Report Reference No. RPT-22-HVS-0024
 Calibration Location: AM2, Located near the Leachate Treatment Works within the NENT Landfill

Standard Equipment Information			
Verification Equipment Type	Tisch TSP HVS	Tisch HVS Calibrator	
Standard Equipment Model No.	TE-5170X	TE-5025A	
Equipment serial no.	MFC 1106	3465	
Last Calibration Date	1-Dec-22	28-Jun-22	
Next Calibration Date	31-Jan-23	27-Jun-23	

Verification Test No.	Date	Time			K-Factor K-Factor (K=C/R)	Counts/ Minute (R) x-axis	Total Counts (TC)	TSP Sample ID No.	Dust Concentration (ug/m3), (C) y axis
		Start-time	End-time	Elapsed Time (in min)					
1	3/12/2022	194.73	198.08	201.00	0.00111	55	11122	R222043/1 61	
2	3/12/2022	198.08	201.27	191.40	0.00093	37	7082	R222043/2 34	
3	3/12/2022	201.27	204.35	184.80	0.00110	45	8316	R222043/3 49	
4	4/12/2022	252.37	255.36	179.40	0.00113	60	10704	R222044/1 67	
5	4/12/2022	255.38	258.38	180.00	0.00120	52	9360	R222044/2 62	
6	4/12/2022	258.38	261.38	180.00	0.00104	68	12180	R222044/3 70	
					0.00108				

K-Factor to be inputted in LD-5R (corrected 1 decimal point): 1.1

By Linear Regression of y on x:

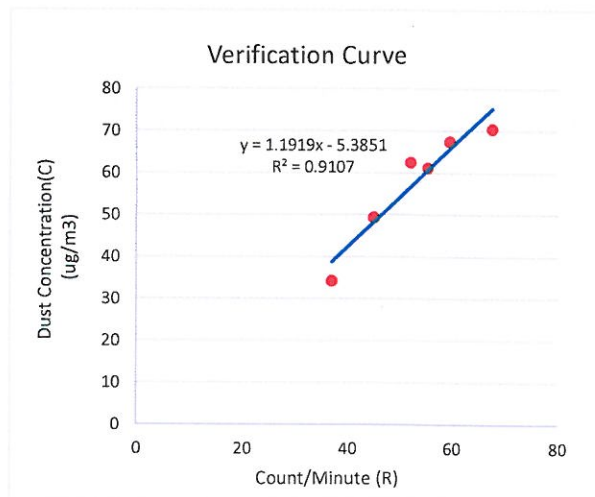
slope, mh= 1.1919

intercept, ch= -5.3851

*Correlation Coefficient, R= 0.9543

Verification Test Result: Strong Correlation, Results were accepted.

* If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.



Verified By: [Signature]
Technical Manager

Date: 05-12-2022

**RECALIBRATION
DUE DATE:
June 19, 2024**

Certificate of Calibration

Calibration Certification Information			
Cal. Date: June 19, 2023	Rootsmeter S/N: 438320	Ta: 294	°K
Operator: Jim Tisch		Pa: 754.9	mm Hg
Calibration Model #: TE-5025A	Calibrator S/N: 4166		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4500	3.2	2.00
2	3	4	1	1.0260	6.4	4.00
3	5	6	1	0.9170	8.0	5.00
4	7	8	1	0.8770	8.8	5.50
5	9	10	1	0.7240	12.8	8.00

Data Tabulation					
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis)
1.0025	0.6914	1.4190	0.9958	0.6867	0.8826
0.9983	0.9730	2.0068	0.9915	0.9664	1.2481
0.9961	1.0863	2.2436	0.9894	1.0790	1.3955
0.9951	1.1346	2.3532	0.9883	1.1270	1.4636
0.9897	1.3670	2.8380	0.9830	1.3578	1.7651
QSTD	m=	2.10188	QA	m=	1.31616
	b=	-0.03580		b=	-0.02227
	r=	0.99998		r=	0.99998

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

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

Manufacturer Calibration Certificate

The following instrument has been tested and calibrated to the manufacturer specifications.
The calibration is traceable in accordance with ISO/IEC 17025 covering all instrument functions.

- Device Type: **XL2 Audio and Acoustic Analyzer**
- Serial Number: **A2A-13663-F0**

- Certificate Issued: **15 February 2023**
- Certificate Number: **44972-A2A-13663-F0**
- Results: **PASSED**
(for detailed report see next page)

Tested by:

M. Frick

Signature:

Stamp:



NTi Audio AG
Im alten Riet 102
LI - 0494 Schaan
www.nti-audio.com

Calibration of: XL2 Audio and Acoustic Analyzer
 Serial Number: A2A-13663-F0
 Date: 15 February 2023

• Detailed Calibration Test Results:

	reference	actual	unit	actual error	XL2 tolerance	calibration uncertainty ²
RMS Level @ 1kHz, XLR Input	0.1	0.100	V	≤0.1%	±0.5%	±0.10%
	1	0.999	V	-0.1%	±0.5%	±0.09%
	10	9.982	V	-0.2%	±0.5%	±0.09%
Flatness, XLR Input ¹	20 Hz	0.995	V	-0.5%	±1.1%	±0.09%
	20 kHz	1.003	V	0.3%	±1.1%	±0.09%
Frequency	1000	1000.00	Hz	≤0.003%	±0.003%	±0.01%
Residual Noise	XLR	< 2 uV			<2 uV	±0.50%
THD+N @ 0 dBu, 1 kHz, XLR Input		-100.5	dB		typ. -100 dB	±0.50%

- Test Conditions: Temperature: **24.9** °C
 Relative Humidity: **19.8** %

• Calibration Equipment Used:

- Agilent Multimeter, Typ 34401A, Serial No. MY 5300 4607
 Last calibration: 15.09.2022, Next calibration: 15.09.2023
 Calibrated by ELCAL to the national standards maintained at Swiss Federal Office of Metrology. SCS 0002
- FX100 Audio Analyzer, Serial No. 10408
 Last Calibration: 11.10.2022, Next Calibration: 11.10.2023
 Manufacturer calibration based on Agilent 34410, Serial No. MY47014254,
 Last Calibration: 26.05.2022, Next Calibration: 26.05.2023
 which is calibrated by ELCAL to national standards maintained at Swiss Federal Office of Metrology. SCS 002

¹ The specified tolerance +/-0.1 dB @ 1V = +/- 1.1%

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

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

This Certificate is issued by:
Hong Kong Calibration Ltd.

Date: 13-Feb-23

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



Calibration Certificate

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

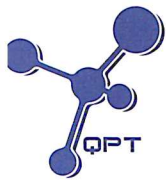
Remark : 1. UUT: Unit-Under-Test

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

Amendment Test Report No. : R-BC090067
Amendment Test Report Date of Issue : 20 September 2023
Superseded Test Report No. : D-BC080079
Superseded Test Report Date of Issue : 25 August 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 : 22 August 2023
Date of Calibration : 22 August 2023
Date of Next Calibration : 21 November 2023
Request No. : D-BC080079

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.16	0.16	Satisfactory
7.42	7.56	0.14	Satisfactory
10.01	9.92	-0.09	Satisfactory

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

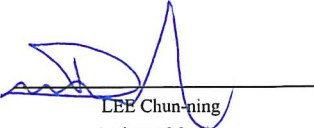
(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
18	19.15	1.15	Satisfactory
28	27.79	-0.21	Satisfactory
37	36.58	-0.42	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED
SIGNATORY:


LEE Chun-ning
Assistant Manager



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Amendment Test Report No. : R-BC090067
Amendment Test Report Date of Issue : 20 September 2023
Superseded Test Report No. : D-BC080079
Superseded Test Report Date of Issue : 25 August 2023
Page No. : 2 of 2

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.11	1.10	Satisfactory
20	21.27	6.35	Satisfactory
30	32.28	7.60	Satisfactory

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

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.50	7.88	0.38	Satisfactory
6.31	6.76	0.45	Satisfactory
1.11	1.29	0.18	Satisfactory
0.07	0.00	-0.07	Satisfactory

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.98	--	Satisfactory
10	10.7	7.00	Satisfactory
20	20.7	3.50	Satisfactory
100	107	7.00	Satisfactory
800	807	0.90	Satisfactory

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

Remark(s)

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted 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. **210252**

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. : Q24081

Date of receipt : 31-Oct-22

Item Tested

Description : Flow Probe

Manufacturer : Global Water

Model : FP111

I.D. : --

Serial No. : 22K100859

Test Conditions

Date of Test : 7-Nov-22

Ambient Temperature : 23°C

Supply Voltage : --

Relative Humidity : 78%

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	201868	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

This Certificate is issued by:
Hong Kong Calibration Ltd.

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

Date: 7-Nov-22



Calibration Certificate

Certificate No. 210252

Page 2 of 2 Pages

Results :

Applied Value (m/s)	UUT Reading (m/s)	Mfr's Spec.
0.96	1.0	± 0.1 m/s

Remarks : 1. UUT : Unit-Under-Test

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

----- END -----

Landfill Gas

CERTIFICATION OF CALIBRATION



Date Of Calibration: 31-Aug-2023

Certificate Number: G505207_1/33483

Issued by: QED Environmental Systems Ltd.

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

Description: Gas Analyser

Model: GEM5000

Serial Number: G505207

UKAS Accredited results:

Results after adjustment :

Methane (CH ₄)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	5.0	0.072
15.0	15.1	0.13
60.0	59.7	0.42

Carbon Dioxide (CO ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.8	0.074
15.0	14.5	0.13
40.0	39.9	0.29

Oxygen (O ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
20.2	20.3	0.25

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

CH₄, CO₂ readings recorded at : 33.2 °C ± 2.5 °C

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

Barometric Pressure : 0998 mbar ± 4 mbar

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

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

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

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

Registered in England and Wales 1898734

CERTIFICATION OF CALIBRATION



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

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

Registered in England and Wales 1898734

Calibration Certificate

Customer Name Paul Y Construction Co. Ltd
 Model PS200
 Serial 373075
 Tested On 16 November, 2022
 Cal Expires 16 November, 2023

Audible Alarm PASS
 Visual Alarm PASS
 Calibrated For METHANE
 100% LEL Equivalent 4.4% by VOL

Overall Results PASS



Calibration Result

Gas Applied	Range	Reading	Calibrated	Result
Zero Air	% LEL	0	0	PASS
Zero Air	% O2	20.9	20.9	PASS
Zero Air	PPM CO	0	0	PASS
Zero Air	PPM H2S	0	0	PASS

Gas Applied	Range	Reading	Calibrated	Result
50% LEL Methane	% LEL	61	50	PASS
18% VOL Oxygen	% O2	17.8	N/A	PASS
100 PPM Carbon Monoxide	PPM CO	71	100	PASS
25 PPM Hydrogen Sulphide	PPM H2S	22	25	PASS

Calibrated By Ivan Lo :

Ivan Lo

Appendix E 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
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
4/10/2023	Sibata LD-5R	942532	0.00108	Fine	14:01	15:01	16:01	38	40	37	38	285	500
10/10/2023	Sibata LD-5R	882106	0.00107	Fine	8:10	9:10	10:10	29	26	30	28		
16/10/2023	Sibata LD-5R	882106	0.00107	Fine	8:25	9:25	10:25	26	29	27	27		
21/10/2023	Sibata LD-5R	882106	0.00107	Fine	8:20	9:20	10:20	21	22	24	22		
27/10/2023	Sibata LD-5R	882106	0.00107	Fine	14:07	15:07	16:07	37	40	36	38		
Average								31					
Max.								40					
Min.								21					

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
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
4/10/2023	Sibata LD-5R	882106	0.00107	Fine	14:15	15:15	16:15	40	43	39	41	279	500
10/10/2023	Sibata LD-5R	024545	0.00114	Fine	8:20	9:20	10:20	45	50	52	49		
16/10/2023	Sibata LD-5R	024545	0.00114	Fine	8:16	9:16	10:16	36	37	34	36		
21/10/2023	Sibata LD-5R	024545	0.00114	Fine	8:09	9:09	10:09	40	43	41	41		
27/10/2023	Sibata LD-5R	024545	0.00114	Fine	13:07	14:07	15:07	41	42	40	41		
Average								42					
Max.								52					
Min.								34					

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
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
4/10/2023	Sibata LD-5R	024545	0.00114	Fine	14:30	15:30	16:30	51	50	49	50	285	500
10/10/2023	Sibata LD-5R	942532	0.00108	Fine	8:35	9:35	10:35	50	60	53	54		
16/10/2023	Sibata LD-5R	942532	0.00108	Fine	8:45	9:45	10:45	41	40	42	41		
21/10/2023	Sibata LD-5R	942532	0.00108	Fine	8:50	9:50	10:50	36	34	32	34		
27/10/2023	Sibata LD-5R	942532	0.00108	Fine	13:30	14:30	15:30	50	51	56	52		
Average								46					
Max.								60					
Min.								32					

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

Start Date	Weather Condition	Avg Air Temp (°C)	Avg Atmospheric Pressure (hPa)	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate (cfm)	Averaged Flow Rate (m ³ /min)	Total Flow Volume (m ³)	Filter Weight (g)		Particulate weight (g)	Concentration (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)
				Initial	Final					Initial	Final				
4/10/2023	Fine	29.2	1012.3	1741.01	1765.01	1440	41	1.54	2214	2.7339	2.8806	0.1467	66	164	260
10/10/2023	Fine	28.1	1016.3	1765.01	1789.01	1440	42	1.57	2266	2.6337	2.8072	0.1735	77		
16/10/2023	Fine	28.6	1015.2	1789.01	1813.01	1440	40	1.53	2199	2.7195	2.8813	0.1618	74		
21/10/2023	Fine	26.6	1018.6	1813.01	1837.01	1440	42	1.59	2295	2.6391	2.8033	0.1642	72		
27/10/2023	Fine	28.7	1014.5	1837.01	1861.01	1440	40	1.53	2198	2.6569	2.7930	0.1361	62		
												Average	70		
												Min	62		
												Max	77		

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

Start Date	Weather Condition	Avg Air Temp (°C)	Avg Atmospheric Pressure (hPa)	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate (cfm)	Flow Rate (m ³ /min)	Total Flow Volume (m ³)	Filter Weight (g)		Particulate weight (g)	Concentration (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)
				Initial	Final					Initial	Final				
4/10/2023	Fine	29.2	1012.3	1501.28	1525.28	1440	40	1.04	1492	2.6354	2.7018	0.0664	45	152	260
10/10/2023	Fine	28.1	1016.3	1525.28	1549.28	1440	40	1.04	1503	2.6443	2.7467	0.1024	68		
16/10/2023	Fine	28.6	1015.2	1549.28	1573.28	1440	39	1.01	1452	2.7242	2.7870	0.0628	43		
21/10/2023	Fine	26.6	1018.6	1573.28	1597.28	1440	40	1.05	1512	2.6503	2.7172	0.0669	44		
27/10/2023	Fine	28.7	1014.5	1597.28	1621.28	1440	40	1.04	1498	2.6389	2.7542	0.1153	77		
												Average	55		
												Min	43		
												Max	77		

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

Start Date	Weather Condition	Avg Air Temp (°C)	Avg Atmospheric Pressure (hPa)	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate (cfm)	Flow Rate (m ³ /min)	Total Flow Volume (m ³)	Filter Weight (g)		Particulate weight (g)	Concentration (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)
				Initial	Final					Initial	Final				
4/10/2023	Fine	29.2	1012.3	2506.46	2530.46	1440	42	1.21	1741	2.6276	2.7338	0.1062	61	163	260
10/10/2023	Fine	28.1	1016.3	2530.46	2554.46	1440	42	1.22	1758	2.6432	2.7782	0.1350	77		
16/10/2023	Fine	28.6	1015.2	2554.46	2578.46	1440	40	1.12	1619	2.7199	2.8460	0.1261	78		
21/10/2023	Fine	26.6	1018.6	2578.46	2602.46	1440	40	1.11	1604	2.6357	2.7372	0.1015	63		
27/10/2023	Fine	28.7	1014.5	2602.46	2626.46	1440	42	1.22	1750	2.6382	2.7614	0.1232	70		
												Average	70		
												Min	61		
												Max	78		

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 m/s	Start Time	End Time	L_{eq} (dB(A))							L_{10} (dB(A))						L_{90} (dB(A))						
					1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th	
4/10/2023	Fine	2.1	15:06	15:36	57.6	58.1	60.2	59.4	60.2	61.3	59.6	60.4	61.2	62.6	60.3	63.4	62.8	56.2	56.9	57.1	58.0	59.3	56.4	
10/10/2023	Fine	1.4	9:30	10:00	61.2	62.4	63.1	62.6	61.7	60.4	62.0	63.1	64.2	66.2	64.7	63.2	62.4	59.2	60.3	61.2	61.4	60.6	59.3	
16/10/2023	Fine	1.6	9:48	10:18	61.9	62.4	65.3	64.4	65.7	63.6	64.1	63.2	64.9	68.1	67.2	68.4	69.1	59.2	58.4	59.3	58.8	57.9	59.1	
27/10/2023	Fine	2.1	14:30	15:00	63.4	64.9	64.9	65.1	64.9	65.6	64.8	65.1	66.4	65.7	67.4	66.7	67.1	61.7	60.7	62.1	63.2	62.7	64.7	
											Average		63.1											
											Baseline Level		55.4											
											Action Level		When one valid documented complaint is received											
											Limit Level		75											

Impact Phase Construction Noise Monitoring Data at Location NM2a

Date	Weather	Wind speed m/s	Start Time	End Time	L_{eq} (dB(A))							L_{10} (dB(A))						L_{90} (dB(A))						
					1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th	
4/10/2023	Fine	1.6	16:40	17:10	53.2	54.1	52.6	53.1	55.1	54.2	53.8	56.3	57.4	55.4	57.3	58.6	59.6	50.3	49.4	51.1	50.6	52.2	52.3	
10/10/2023	Fine	Fine	14:24	14:27	0.62	54.7	54.6	56.1	55.4	54.8	56.3	58.1	59.2	62.2	61.6	58.8	59.6	52.1	53.1	54.6	53.4	54.1	54.2	
16/10/2023	Fine	Fine	16:48	14:35	0.63	56.3	57.1	56.6	56.3	57.2	55.3	58.1	59.2	58.1	58.3	59.4	58.2	54.6	55.6	55.4	56.4	57.4	56.3	
27/10/2023	Fine	Fine	14:24	10:20	0.45	56.4	51.3	54.6	55.9	51.8	55.0	60.4	55.3	58.5	56.3	53.5	61	45.5	45.2	44.5	48.5	43.6	41.2	
											Average		55.2											
											Baseline Level		54.5											
											Action Level		When one valid documented complaint is received											
											Limit Level		75											

Water Quality

Monitoring Location: WM1

Date	Time	Weather	Water Depth (m)	Water Flow (L/s)	Water Temperature (°C)	DO (mg/L)			pH			Turbidity (NTU)			SS (mg/L)		
						Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level
18-Oct-23	11:36	Sunny	0.1	0.2	18.4	7.9	<7.4	<4	7.4	>7.7	>7.8	6.6	>9.2	>9.5	4.0	>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
18-Oct-23	7:39	Sunny	0.15	0.1	19.6	7.5	<5	<4	7.6	>7.6	>7.7	43.2	>108.3	>108.9	19.4	>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	: HK2341693
Address	: UNIT D, 12/F, FORD GLORY PLAZA, NOS.37-39 WING HONG STREET, CHEUNG SHA WAN, KOWLOON, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Huntington.Hui@aurecongroup.com	E-mail	: richard.fung@alsglobal.com		
Telephone	: ---	Telephone	: +852 2610 1044		
Facsimile	: ---	Facsimile	: +852 2610 2021		
Project	: NENTX			Date Samples Received	: 18-Oct-2023
Order number	: ---	Quote number	: HKE/2751/2022_V3	Issue Date	: 02-Nov-2023
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 18-Oct-2023 to 01-Nov-2023.

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: HK2341693

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

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.

Microbiological sample(s) was/ were collected in 250mL sterile plastic bottles containing sodium thiosulfate. Sample(s) arrived at the laboratory at 14:10.

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

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

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

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	18-Oct-2023	18-Oct-2023	---	---	---
Compound	CAS Number	LOR	Unit		HK2341693-001	HK2341693-002	-----	-----	-----
EA/ED: Physical and Aggregate Properties									
EA002: pH Value	----	0.1	pH Unit		6.9	7.2	---	---	---
EA010: Electrical Conductivity @ 25°C	----	1	µS/cm		53	131	---	---	---
EA025: Suspended Solids (SS)	----	0.1	mg/L		4.0	19.4	---	---	---
ED037: Total Alkalinity as CaCO3	----	1	mg/L		14	36	---	---	---
ED/EK: Inorganic Nonmetallic Parameters									
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L		<1	18	---	---	---
ED045K: Chloride	16887-00-6	0.5	mg/L		6	5	---	---	---
EK055K: Ammonia as N	7664-41-7	0.01	mg/L		0.08	0.11	---	---	---
EK058A: Nitrate as N	14797-55-8	0.01	mg/L		0.06	0.25	---	---	---
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L		0.3	0.2	---	---	---
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L		0.01	<0.01	---	---	---
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L		<2	<2	---	---	---
EP: Aggregate Organics									
EP005: Total Organic Carbon	----	1	mg/L		2	2	---	---	---
EP020: Oil & Grease	----	5	mg/L		<5	<5	---	---	---
EP026C: Chemical Oxygen Demand	----	5	mg/L		21	<5	---	---	---
EP030: Biochemical Oxygen Demand	----	2	mg/L		<2	<2	---	---	---
EG: Metals and Major Cations - Total									
EG020: Cadmium	7440-43-9	0.2	µg/L		<0.2	<0.2	---	---	---
EG020: Copper	7440-50-8	1	µg/L		<1	1	---	---	---
EG020: Lead	7439-92-1	1	µg/L		<1	5	---	---	---
EG020: Manganese	7439-96-5	1	µg/L		28	703	---	---	---
EG020: Nickel	7440-02-0	1	µg/L		<1	1	---	---	---
EG020: Zinc	7440-66-6	10	µg/L		10	13	---	---	---
EG032: Calcium	7440-70-2	50	µg/L		2850	16500	---	---	---
EG032: Iron	7439-89-6	10	µg/L		330	1780	---	---	---
EG032: Magnesium	7439-95-4	50	µg/L		450	1320	---	---	---
EG032: Potassium	7440-09-7	50	µg/L		530	2470	---	---	---
EG032: Sodium	7440-23-5	50	µg/L		6790	5190	---	---	---



Sub-Matrix: WATER				Sample ID	WM1	WM2	---	---	---
				Sampling date / time	18-Oct-2023	18-Oct-2023	---	---	---
Compound	CAS Number	LOR	Unit		HK2341693-001	HK2341693-002	-----	-----	-----
EM: Microbiological Testing									
EM002: E. coli	----	1	CFU/100mL		700	400	---	---	---
EM003: Total Coliforms	----	1	CFU/100mL		1600	1000	---	---	---



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method/Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 5371561)								
HK2341762-001	Anonymous	EA002: pH Value	----	0.1	pH Unit	8.0	8.0	0.0
HK2341887-001	Anonymous	EA002: pH Value	----	0.1	pH Unit	7.8	7.8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 5371717)								
HK2341640-001	Anonymous	ED037: Total Alkalinity as CaCO3	----	1	mg/L	<1	<1	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 5371719)								
HK2341693-001	WM1	EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	53	54	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 5382144)								
HK2341091-005	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	7.4	7.8	5.3
HK2341866-003	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	5.4	6.3	14.1
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5370580)								
HK2341618-001	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5370584)								
HK2341744-002	Anonymous	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	5.04	4.72	6.6
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5373369)								
HK2341640-001	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<1	<1	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5373370)								
HK2341640-001	Anonymous	ED045K: Chloride	16887-00-6	1	mg/L	<1	<1	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5383741)								
HK2341693-001	WM1	EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5393016)								
HK2341693-001	WM1	EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.3	0.4	0.0
EP: Aggregate Organics (QC Lot: 5373067)								
HK2341910-001	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	26	27	0.0
EP: Aggregate Organics (QC Lot: 5391795)								
HK2341679-001	Anonymous	EP026C: Chemical Oxygen Demand	----	5	mg/L	<5	<5	0.0
EG: Metals and Major Cations - Total (QC Lot: 5370307)								
HK2341693-002	WM2	EG032: Iron	7439-89-6	10	µg/L	1780	1740	2.3
		EG032: Calcium	7440-70-2	50	µg/L	16500	16400	0.6
		EG032: Magnesium	7439-95-4	50	µg/L	1320	1300	1.1
		EG032: Potassium	7440-09-7	50	µg/L	2470	2420	1.9



Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Total (QC Lot: 5370307) - Continued								
HK2341693-002	WM2	EG032: Sodium	7440-23-5	50	µg/L	5190	5150	0.7
EG: Metals and Major Cations - Total (QC Lot: 5370308)								
HK2341693-002	WM2	EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	1	1	0.0
		EG020: Lead	7439-92-1	1	µg/L	5	5	0.0
		EG020: Manganese	7439-96-5	1	µg/L	703	705	0.2
		EG020: Nickel	7440-02-0	1	µg/L	1	<1	0.0
		EG020: Zinc	7440-66-6	10	µg/L	13	14	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	
EA/ED: Physical and Aggregate Properties (QC Lot: 5371717)												
ED037: Total Alkalinity as CaCO3	----	1	mg/L	<1	50 mg/L	102	----	95.0	105	----	----	
EA/ED: Physical and Aggregate Properties (QC Lot: 5371719)												
EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	<1	146.9 µS/cm	98.4	----	93.5	106	----	----	
				<1	1412 µS/cm	95.0	----	94.3	105	----	----	
EA/ED: Physical and Aggregate Properties (QC Lot: 5382144)												
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	10 mg/L	90.0	----	86.6	113	----	----	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5370580)												
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	99.4	----	92.4	106	----	----	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5370584)												
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	104	----	89.3	109	----	----	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5373369)												
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<1	5 mg/L	99.6	----	91.4	109	----	----	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5373370)												
ED045K: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	102	----	88.2	108	----	----	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5383741)												



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
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5383741) - Continued											
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	----	----	----	----	----	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5393016)											
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	0.5 mg/L	107	----	89.0	120	----	----
EP: Aggregate Organics (QC Lot: 5368782)											
EP030: Biochemical Oxygen Demand	----	----	mg/L	----	198 mg/L	89.1	----	77.6	118	----	----
EP: Aggregate Organics (QC Lot: 5373067)											
EP005: Total Organic Carbon	----	1	mg/L	<1	5 mg/L	109	----	87.3	120	----	----
				<1	100 mg/L	110	----	88.8	120	----	----
EP: Aggregate Organics (QC Lot: 5391790)											
EP020: Oil & Grease	----	2	mg/L	<2	20 mg/L	89.2	----	81.7	105	----	----
EP: Aggregate Organics (QC Lot: 5391795)											
EP026C: Chemical Oxygen Demand	----	----	mg/L	----	25 mg/L	101	----	92.0	108	----	----
				----	250 mg/L	99.7	----	92.3	106	----	----
EG: Metals and Major Cations - Total (QC Lot: 5370307)											
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	101	----	85.0	115	----	----
EG032: Magnesium	7439-95-4	50	µg/L	<50	2000 µg/L	100	----	85.0	115	----	----
EG032: Potassium	7440-09-7	50	µg/L	<50	2000 µg/L	99.0	----	85.0	115	----	----
EG032: Sodium	7440-23-5	50	µg/L	<50	2000 µg/L	104	----	85.0	115	----	----
EG: Metals and Major Cations - Total (QC Lot: 5370308)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	5 µg/L	101	----	85.0	109	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	50 µg/L	96.4	----	90.0	111	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	50 µg/L	100	----	89.0	111	----	----
EG020: Manganese	7439-96-5	1	µg/L	<1	50 µg/L	96.9	----	85.0	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	50 µg/L	95.3	----	87.0	110	----	----
EG020: Zinc	7440-66-6	10	µg/L	<10	50 µg/L	97.6	----	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: 5370580)										
HK2341618-001	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	99.5	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5370584)										
HK2341744-002	Anonymous	EK055K: Ammonia as N	7664-41-7	5 mg/L	112	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5373369)										
HK2341640-001	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric	----	5 mg/L	109	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5373370)										
HK2341640-001	Anonymous	ED045K: Chloride	16887-00-6	5 mg/L	99.8	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5393016)										
HK2341693-001	WM1	EK061A: Total Kjeldahl Nitrogen as N	----	0.5 mg/L	85.6	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5373067)										
HK2341910-001	Anonymous	EP005: Total Organic Carbon	----	25 mg/L	97.9	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5391795)										
HK2341675-001	Anonymous	EP026C: Chemical Oxygen Demand	----	10 mg/L	98.0	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5370307)										
HK2341693-001	WM1	EG032: Calcium	7440-70-2	2000 µg/L	95.6	----	75.0	125	----	----
		EG032: Iron	7439-89-6	2000 µg/L	102	----	75.0	125	----	----
		EG032: Magnesium	7439-95-4	2000 µg/L	100	----	75.0	125	----	----
		EG032: Potassium	7440-09-7	2000 µg/L	99.8	----	75.0	125	----	----
		EG032: Sodium	7440-23-5	2000 µg/L	99.0	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5370308)										
HK2341693-001	WM1	EG020: Cadmium	7440-43-9	5 µg/L	104	----	75.0	125	----	----
		EG020: Copper	7440-50-8	50 µg/L	97.6	----	75.0	125	----	----
		EG020: Lead	7439-92-1	50 µg/L	101	----	75.0	125	----	----
		EG020: Manganese	7439-96-5	50 µg/L	96.0	----	75.0	125	----	----
		EG020: Nickel	7440-02-0	50 µg/L	96.4	----	75.0	125	----	----



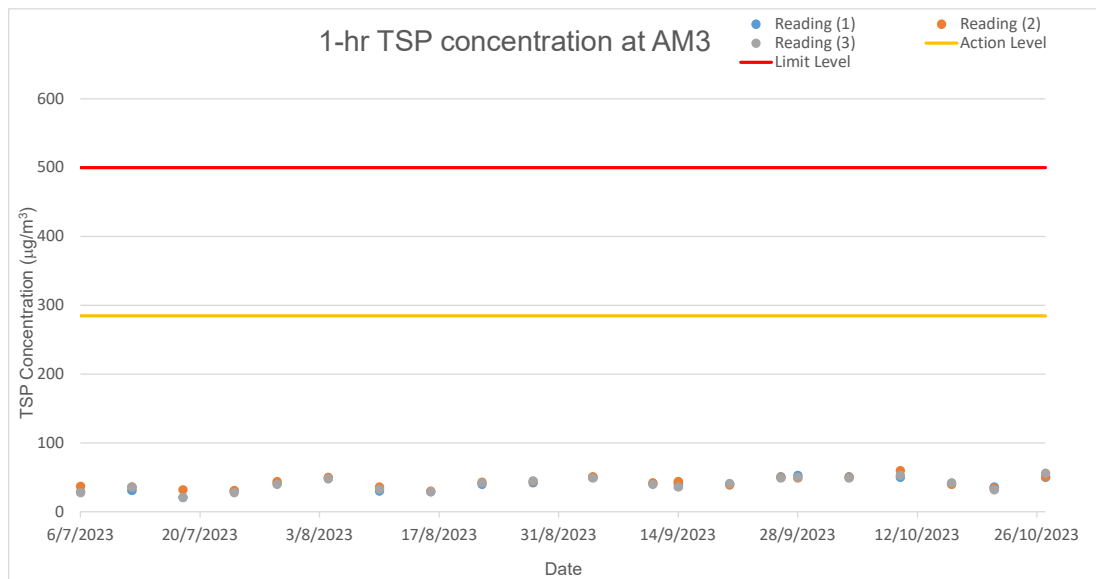
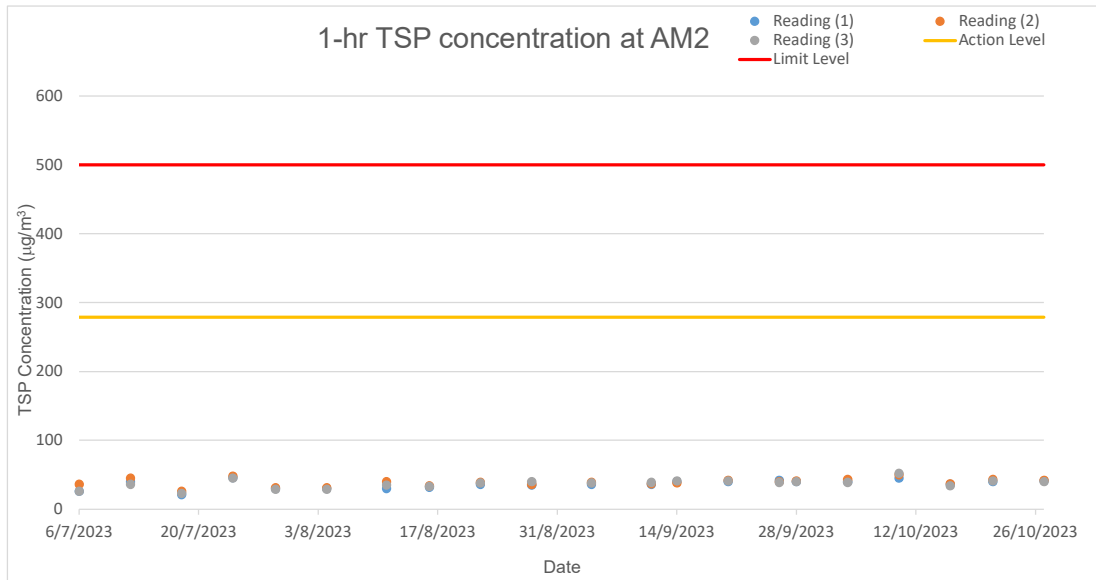
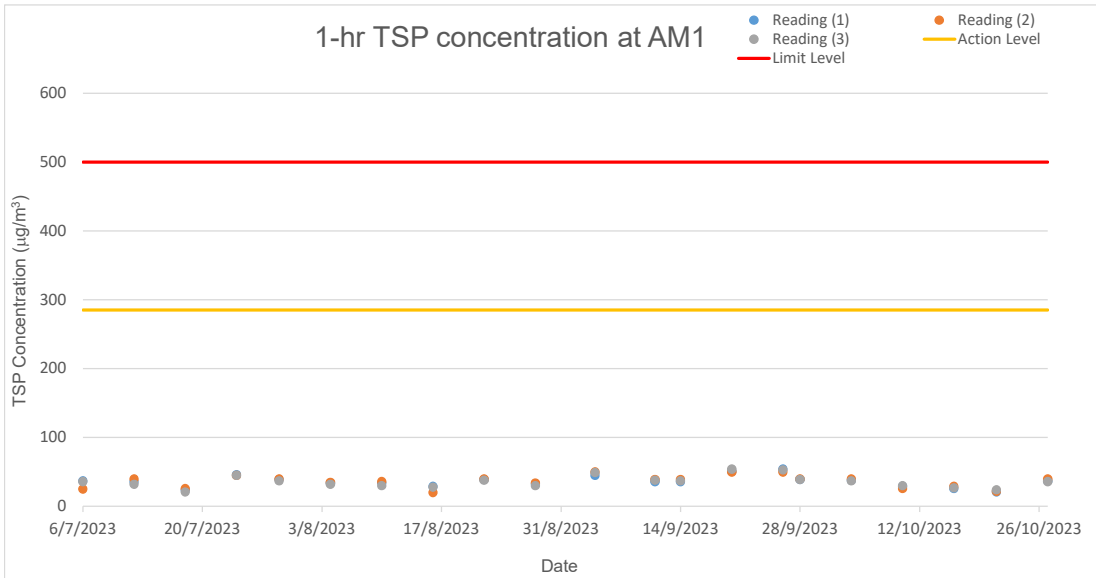
Matrix: WATER

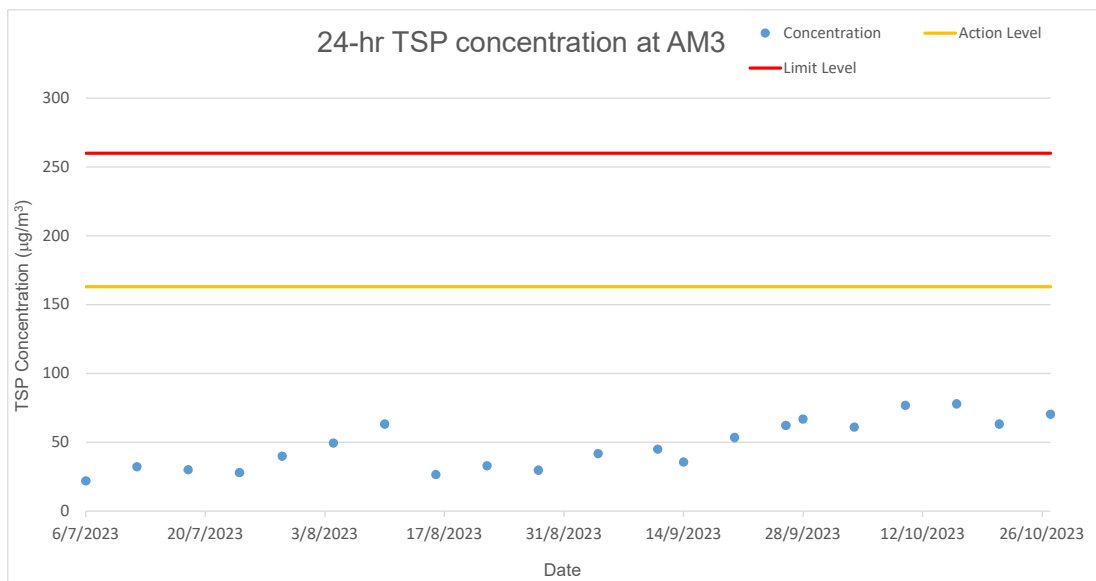
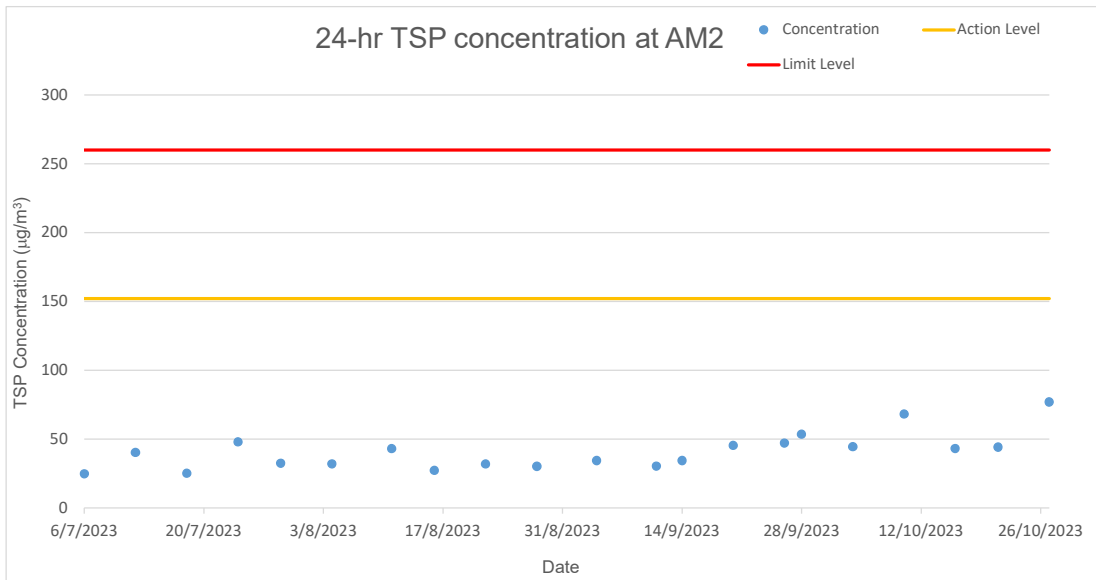
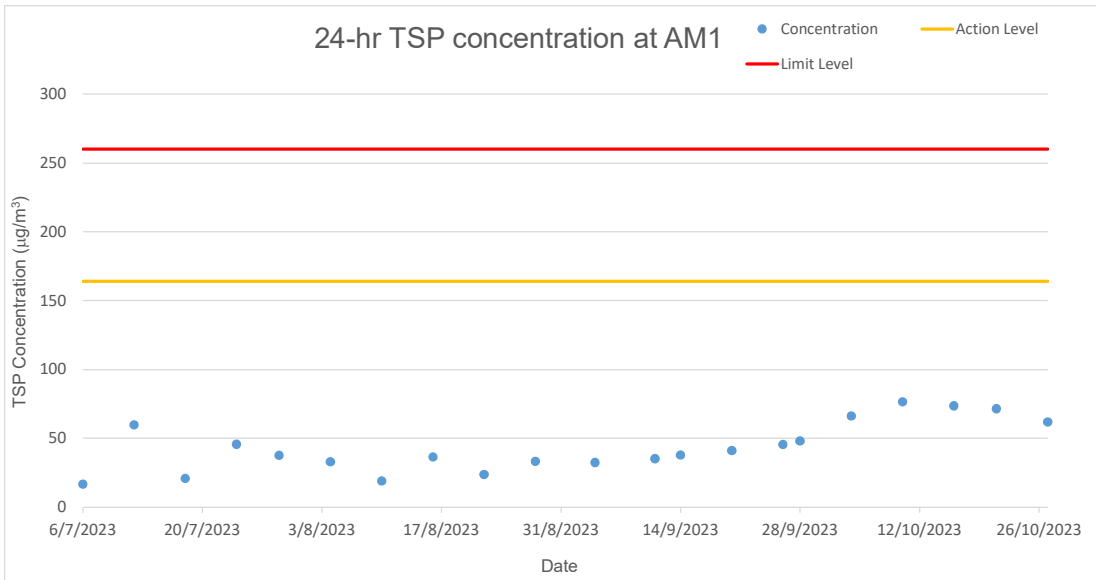
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations - Total (QC Lot: 5370308) - Continued										
HK2341693-001	WM1	EG020: Zinc	7440-66-6	50 µg/L	99.2	----	75.0	125	----	----

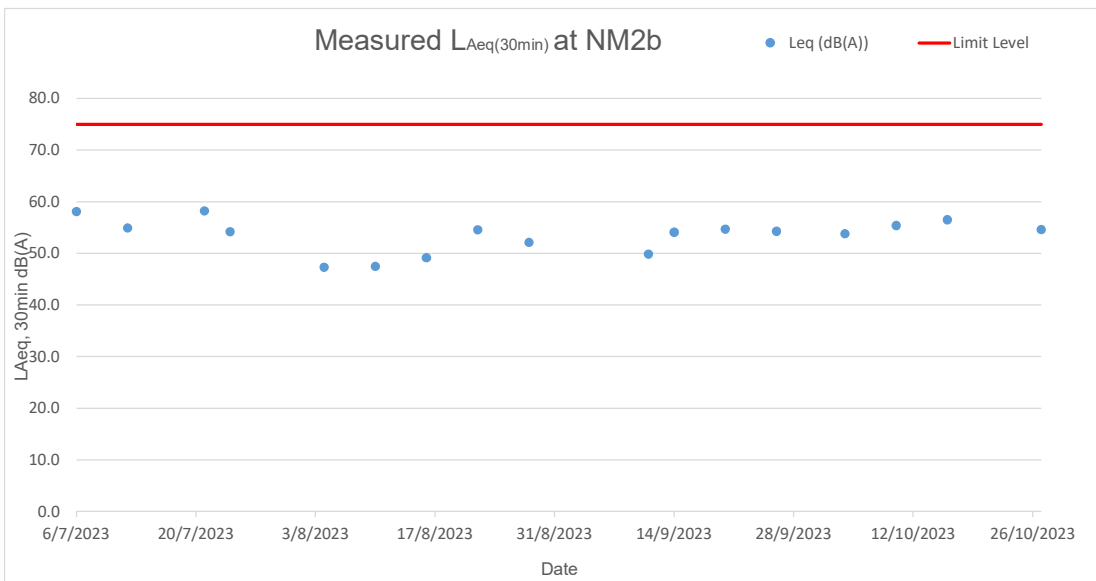
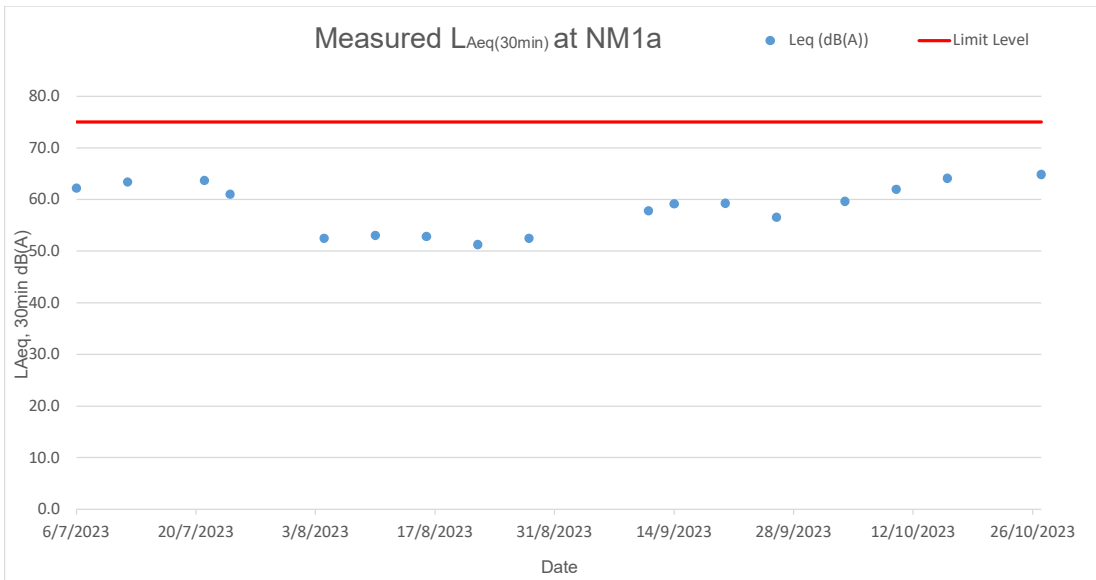
Appendix F Graphical Presentations

Air Quality



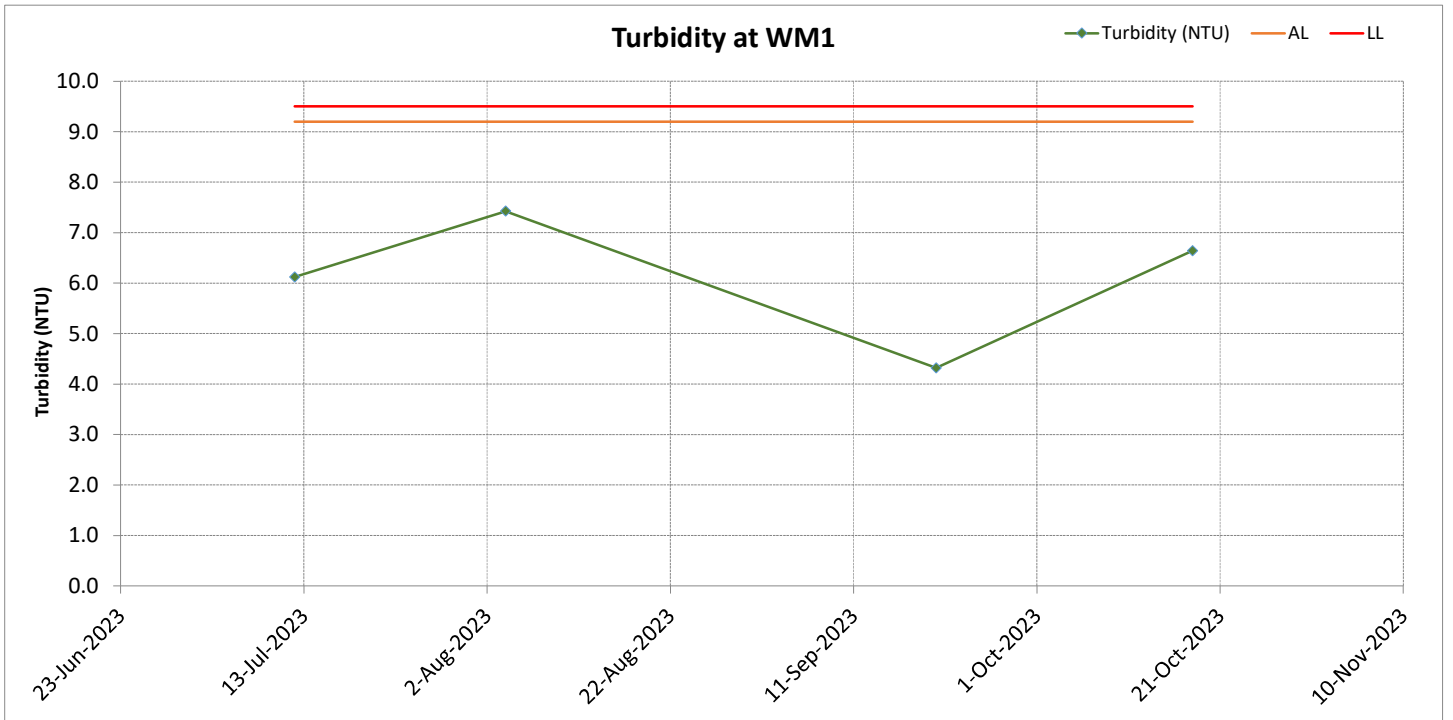
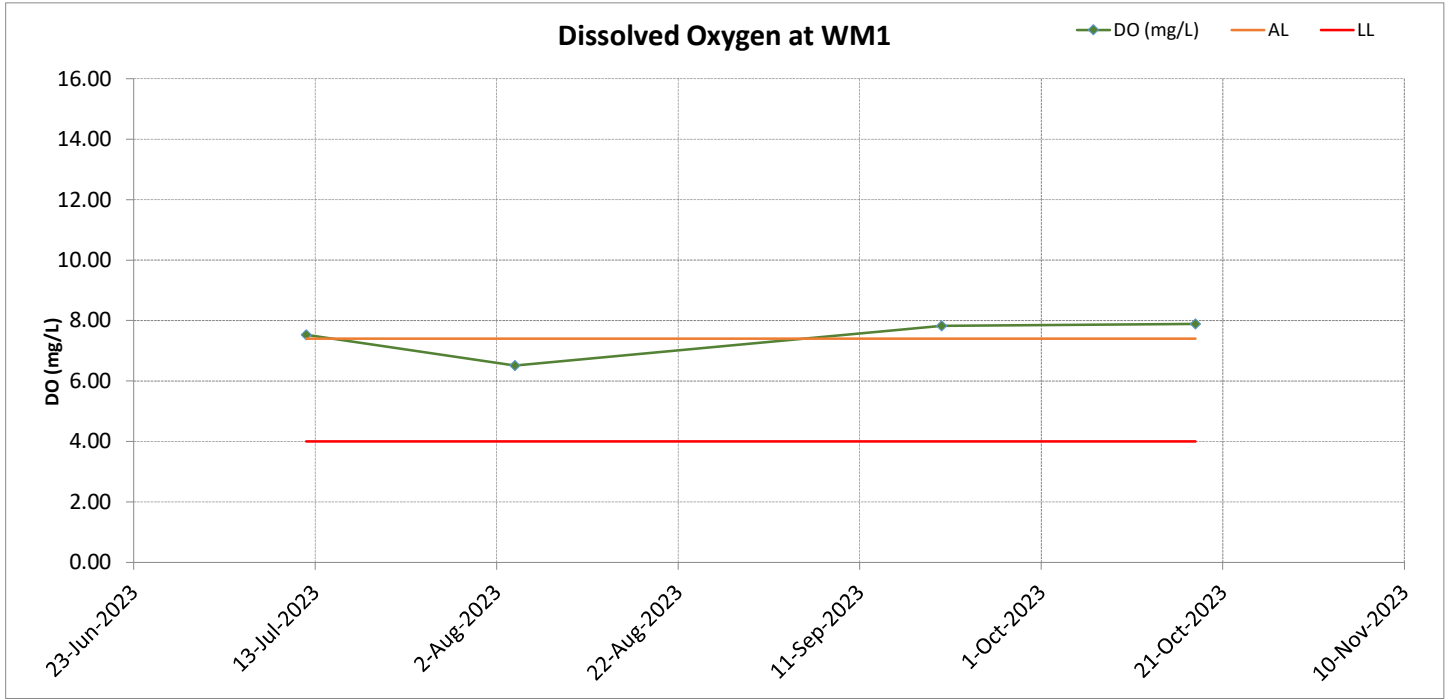


Noise

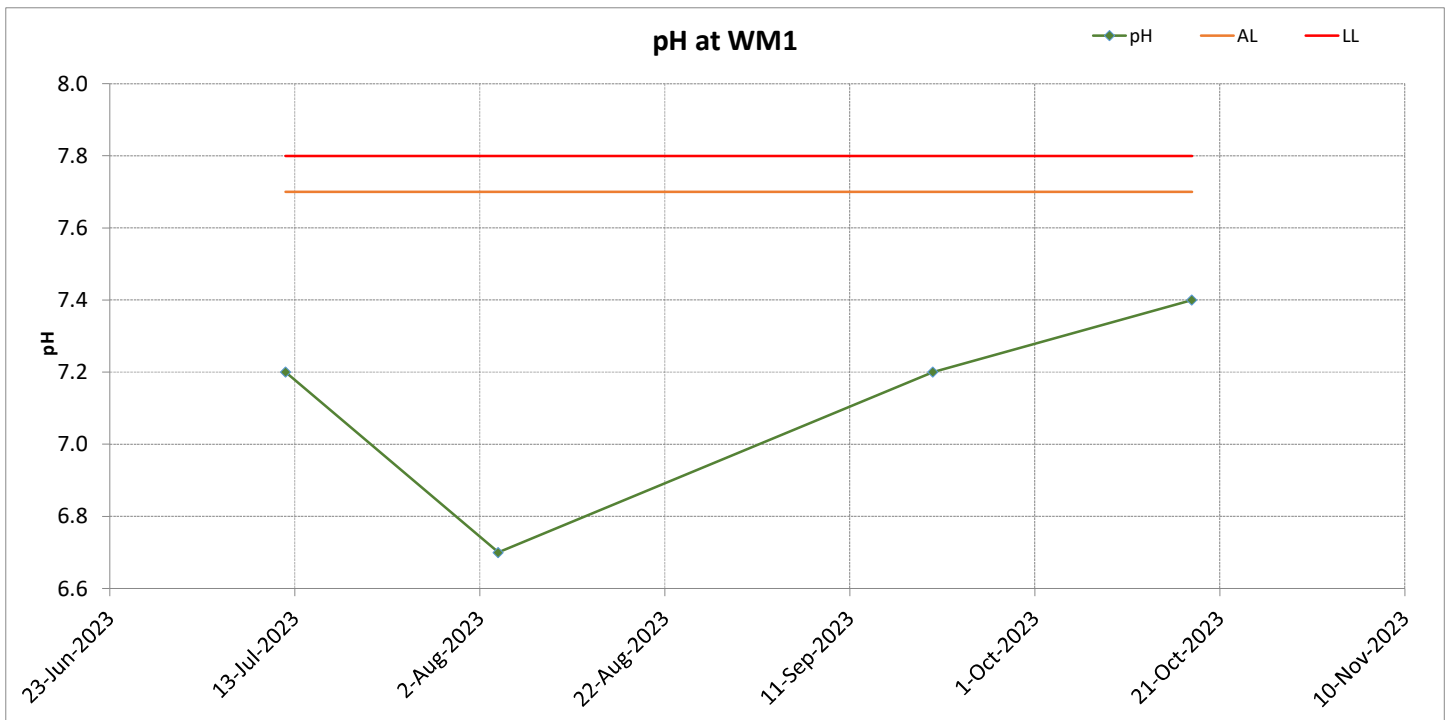
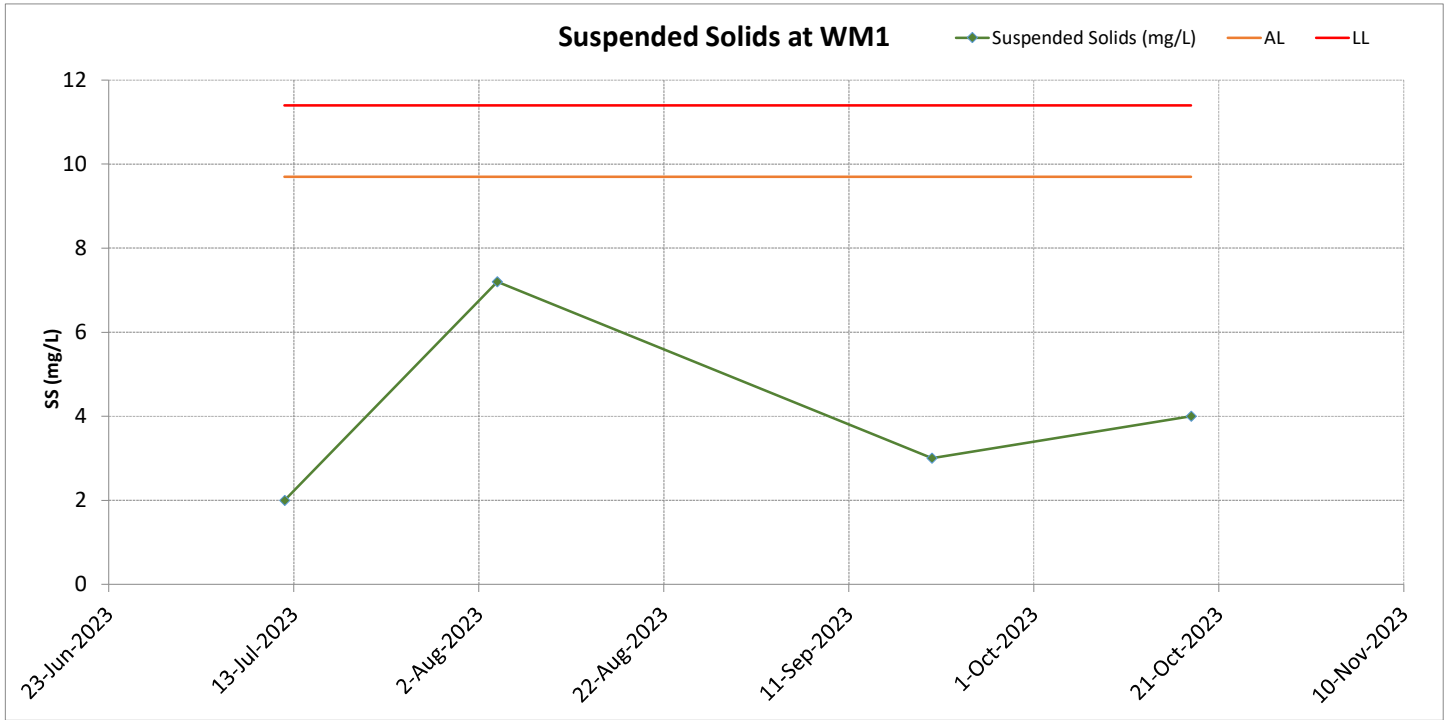


Water Quality

Surface Water Monitoring Results at WM1

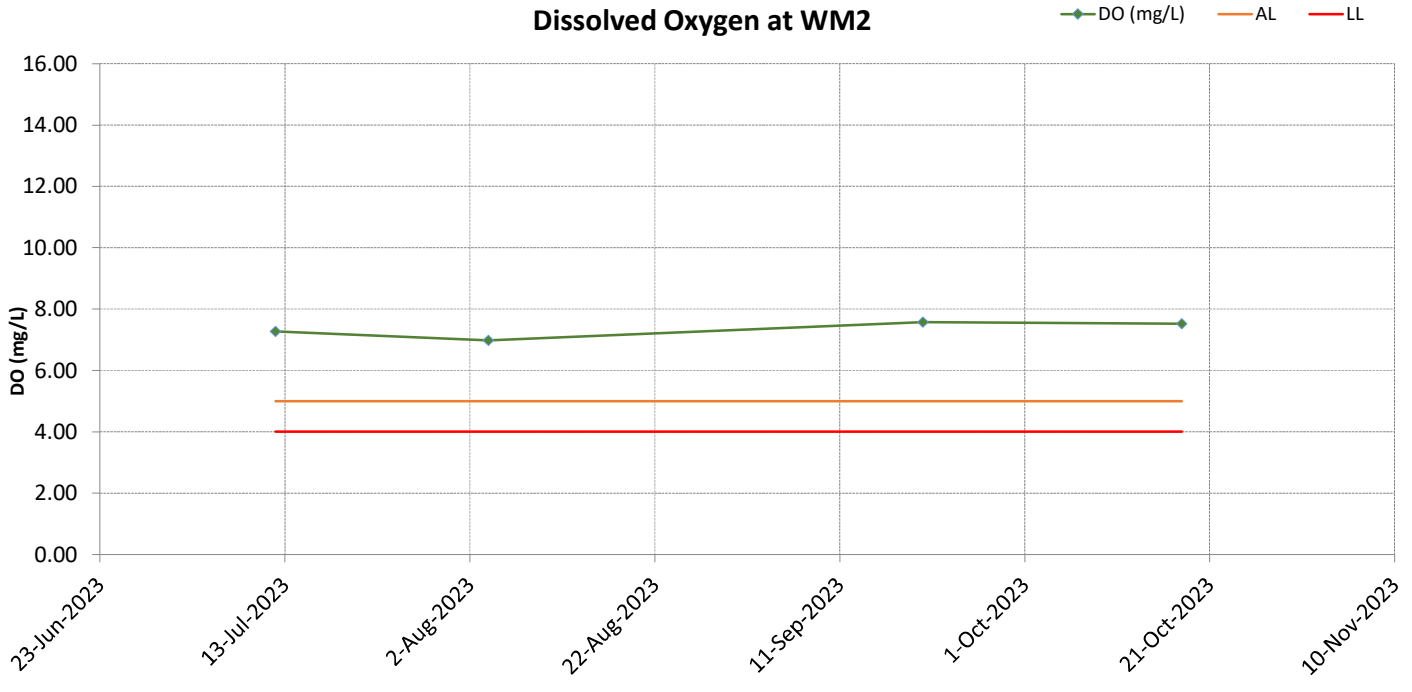


Surface Water Monitoring Results at WM1

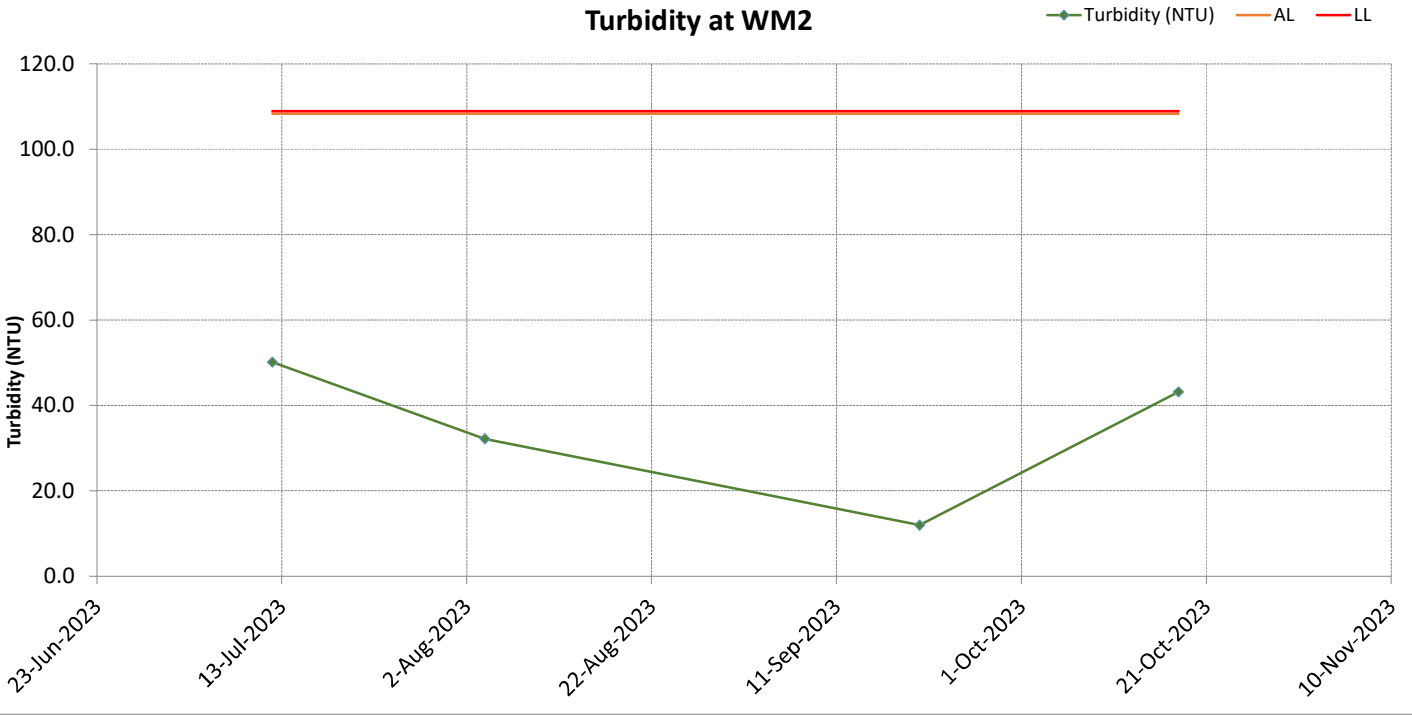


Surface Water Monitoring Results at WM2

Dissolved Oxygen at WM2

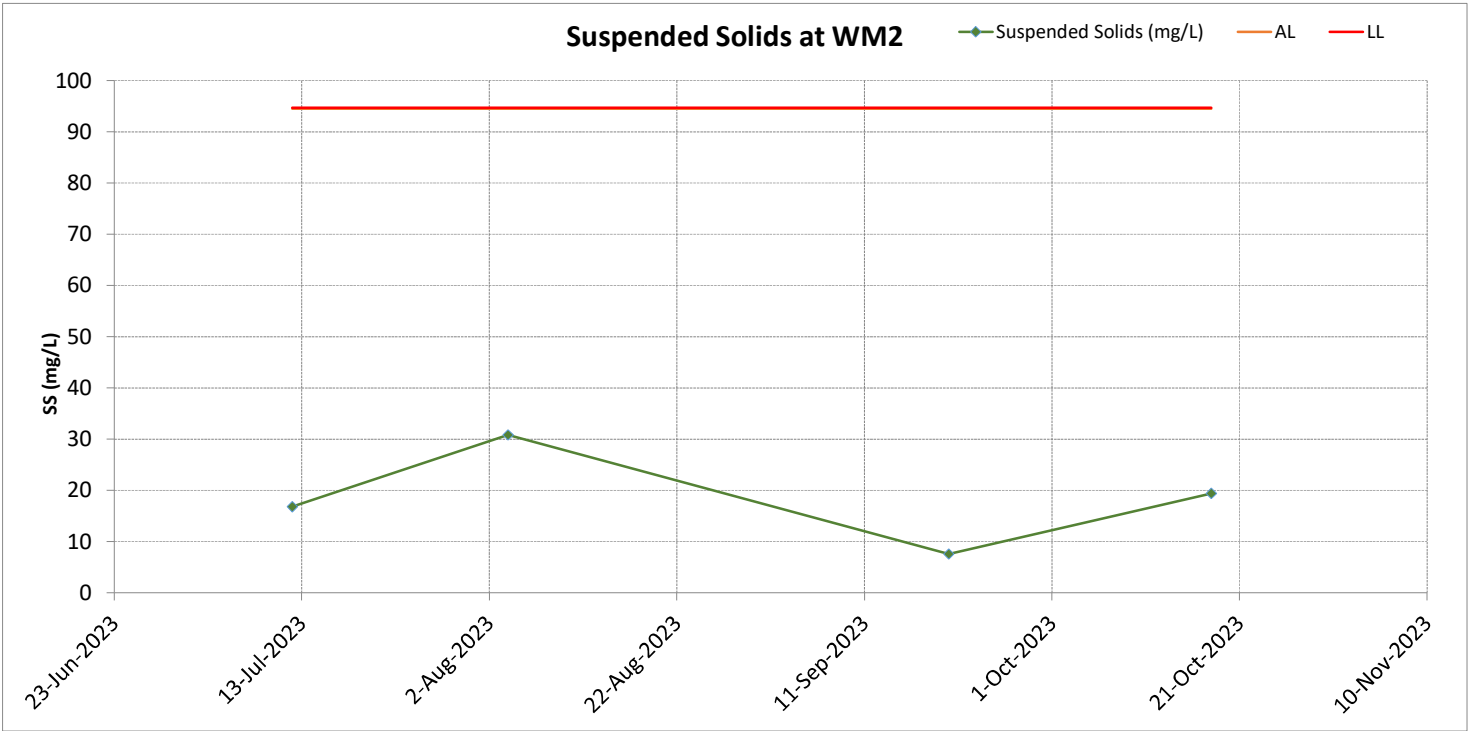


Turbidity at WM2

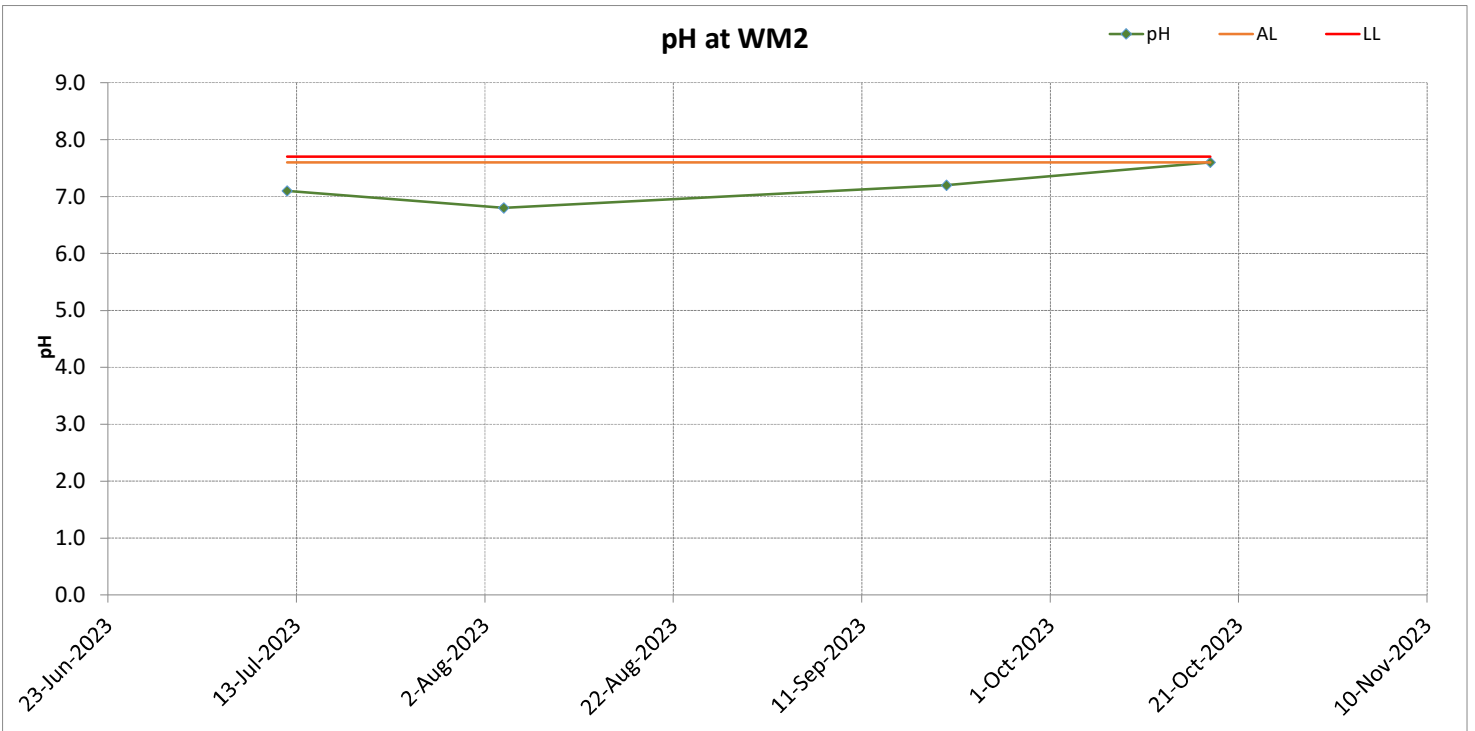


Surface Water Monitoring Results at WM2

Suspended Solids at WM2



pH at WM2



Appendix G Notification of Environmental Quality Limits Exceedance

Notification of Environmental Quality Limits Exceedance

Air Quality Monitoring - Construction Dust

Dust Monitoring Station	Level Exceedance	Monitoring Parameter (s)		1-hr TSP Exceedance Count				24-hr TSP Exceedance Count			
				Reporting period		Accumulate project to date		Reporting period		Accumulate project to date	
		1-hr TSP	24-hr TSP	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	0	0	2
	Limit	0	0	0	0	0	0	0	0	0	3
AM2	Action	0	0	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0	0	0
AM3	Action	0	0	0	0	0	0	0	0	0	4
	Limit	0	0	0	0	0	0	0	0	0	3

Noise Monitoring

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

Notification of Environmental Quality Limits Exceedance

Surface Water Monitoring

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

Remarks:

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

Landfill Gas (LFG) Monitoring

LFG Monitoring Station	Monitoring Parameter(s)	No. of Exceedance
		Limit Level
Portion A +50 mpD to +70 mpD Platform	CH ₄	0
	CO ₂	0
	O ₂	0

Appendix H Wind Data

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231001 0000	0.1	65
20231001 0010	0.1	65
20231001 0020	0.1	65
20231001 0030	0.1	65
20231001 0040	0.1	65
20231001 0050	0.1	65
20231001 0100	0.1	65
20231001 0110	0.1	63
20231001 0120	0.1	0
20231001 0130	0.1	10
20231001 0140	0.1	11
20231001 0150	0.1	10
20231001 0200	0.1	11
20231001 0210	0.1	17
20231001 0220	0.1	26
20231001 0230	0.1	26
20231001 0240	0.1	27
20231001 0250	0.1	26
20231001 0300	0.1	28
20231001 0310	0.1	28
20231001 0320	0.1	36
20231001 0330	0.1	352
20231001 0340	0.1	338
20231001 0350	0.1	338
20231001 0400	0.1	339
20231001 0410	0.1	334
20231001 0420	0.1	-1
20231001 0430	0.1	34
20231001 0440	0.1	336
20231001 0450	0.1	251
20231001 0500	0.1	251
20231001 0510	0.1	251
20231001 0520	0.1	251
20231001 0530	0.1	247
20231001 0540	0.1	248
20231001 0550	0.1	247
20231001 0600	0.1	248
20231001 0610	0.1	48
20231001 0620	0.1	181
20231001 0630	0.1	183
20231001 0640	0.1	183
20231001 0650	0.1	39
20231001 0700	0.1	15
20231001 0710	0.1	328
20231001 0720	0.1	203
20231001 0730	0.1	186
20231001 0740	0.1	186
20231001 0750	0.1	185
20231001 0800	0.1	250
20231001 0810	0.1	69
20231001 0820	0.1	72
20231001 0830	0.1	56
20231001 0840	0.1	73
20231001 0850	0.1	190
20231001 0900	0.3	152
20231001 0910	0.1	152
20231001 0920	0.1	86
20231001 0930	0.1	59
20231001 0940	0.1	59
20231001 0950	0.1	93
20231001 1000	0.1	275
20231001 1010	0.1	192
20231001 1020	0.2	290
20231001 1030	0.1	179
20231001 1040	0.1	150
20231001 1050	0.1	145
20231001 1100	0.4	312
20231001 1110	0.1	70
20231001 1120	0.3	47
20231001 1130	0.2	44
20231001 1140	0.1	13
20231001 1150	1.6	124

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231001 1200	0.1	70
20231001 1210	0.1	72
20231001 1220	1.8	178
20231001 1230	0.1	70
20231001 1240	0.1	27
20231001 1250	0.1	58
20231001 1300	0.2	96
20231001 1310	0.1	130
20231001 1320	0.7	309
20231001 1330	0.1	231
20231001 1340	2.1	323
20231001 1350	0.2	156
20231001 1400	3.5	109
20231001 1410	0.2	55
20231001 1420	0.5	61
20231001 1430	0.1	85
20231001 1440	0.7	299
20231001 1450	0.1	154
20231001 1500	0.1	183
20231001 1510	0.2	29
20231001 1520	0.1	197
20231001 1530	1.4	6
20231001 1540	0.1	1
20231001 1550	0.4	299
20231001 1600	0.2	93
20231001 1610	2.6	343
20231001 1620	3.8	14
20231001 1630	0.9	41
20231001 1640	2.7	43
20231001 1650	0.1	32
20231001 1700	2	342
20231001 1710	0.1	14
20231001 1720	0.3	12
20231001 1730	0.1	26
20231001 1740	2.7	346
20231001 1750	0.4	291
20231001 1800	2.3	49
20231001 1810	0.1	63
20231001 1820	0.2	7
20231001 1830	0.1	252
20231001 1840	0.1	353
20231001 1850	0.1	301
20231001 1900	1	347
20231001 1910	0.1	123
20231001 1920	1.4	10
20231001 1930	1.6	63
20231001 1940	3.4	82
20231001 1950	0.1	195
20231001 2000	0.1	101
20231001 2010	0.7	123
20231001 2020	0.5	105
20231001 2030	3.4	349
20231001 2040	2.7	36
20231001 2050	0.2	106
20231001 2100	1.9	332
20231001 2110	2.7	212
20231001 2120	0.5	10
20231001 2130	1.1	149
20231001 2140	0.6	25
20231001 2150	0.2	192
20231001 2200	0.3	3
20231001 2210	0.5	139
20231001 2220	0.1	248
20231001 2230	0.1	104
20231001 2240	5.3	34
20231001 2250	0.1	274
20231001 2300	1.2	57
20231001 2310	0.1	285
20231001 2320	0.4	56
20231001 2330	0.1	42
20231001 2340	1.8	100
20231001 2350	0.3	145

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231002 0000	0.1	102
20231002 0010	1	353
20231002 0020	1.2	54
20231002 0030	0.1	78
20231002 0040	1.2	116
20231002 0050	1.3	311
20231002 0100	0.1	341
20231002 0110	0.1	19
20231002 0120	0.1	154
20231002 0130	0.1	72
20231002 0140	0.1	207
20231002 0150	0.7	145
20231002 0200	1.3	109
20231002 0210	1.1	111
20231002 0220	2.4	114
20231002 0230	0.3	97
20231002 0240	1.5	54
20231002 0250	0.1	11
20231002 0300	1.2	326
20231002 0310	0.1	65
20231002 0320	0.2	343
20231002 0330	0.1	271
20231002 0340	1.6	347
20231002 0350	0.9	322
20231002 0400	0.2	95
20231002 0410	2.7	213
20231002 0420	0.1	72
20231002 0430	0.1	290
20231002 0440	0.1	109
20231002 0450	0.1	55
20231002 0500	0.1	33
20231002 0510	0.6	15
20231002 0520	0.1	5
20231002 0530	1	22
20231002 0540	1.1	245
20231002 0550	0.1	79
20231002 0600	0.1	219
20231002 0610	0.5	291
20231002 0620	2.4	62
20231002 0630	0.1	57
20231002 0640	0.1	297
20231002 0650	0.1	157
20231002 0700	0.1	139
20231002 0710	0.2	153
20231002 0720	0.3	24
20231002 0730	0.1	55
20231002 0740	0.1	35
20231002 0750	0.1	338
20231002 0800	0.1	274
20231002 0810	0.1	275
20231002 0820	0.1	9
20231002 0830	2.1	11
20231002 0840	0.1	155
20231002 0850	2.4	57
20231002 0900	0.2	8
20231002 0910	0.1	40
20231002 0920	3.5	25
20231002 0930	1	143
20231002 0940	0.3	343
20231002 0950	0.1	346
20231002 1000	0.1	341
20231002 1010	0.6	110
20231002 1020	1.2	39
20231002 1030	0.5	31
20231002 1040	0.1	178
20231002 1050	0.1	246
20231002 1100	0.4	70
20231002 1110	0.1	339
20231002 1120	0.3	13
20231002 1130	4.1	118
20231002 1140	0.1	224
20231002 1150	1.9	26

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231002 1200	0.2	29
20231002 1210	0.3	37
20231002 1220	0.1	72
20231002 1230	1	158
20231002 1240	0.1	18
20231002 1250	4.2	192
20231002 1300	3.6	33
20231002 1310	0.5	352
20231002 1320	2.3	304
20231002 1330	0.6	344
20231002 1340	1.3	137
20231002 1350	2.9	327
20231002 1400	0.2	146
20231002 1410	0.6	137
20231002 1420	2.6	7
20231002 1430	1.3	177
20231002 1440	0.1	29
20231002 1450	0.6	331
20231002 1500	0.6	316
20231002 1510	0.3	63
20231002 1520	0.3	284
20231002 1530	0.2	153
20231002 1540	1.6	48
20231002 1550	0.1	340
20231002 1600	0.9	16
20231002 1610	0.1	353
20231002 1620	0.1	344
20231002 1630	0.1	313
20231002 1640	1.2	350
20231002 1650	0.1	314
20231002 1700	0.4	333
20231002 1710	2.1	144
20231002 1720	0.1	83
20231002 1730	0.1	41
20231002 1740	0.1	306
20231002 1750	0.3	275
20231002 1800	0.7	298
20231002 1810	0.1	317
20231002 1820	0.1	10
20231002 1830	0.1	350
20231002 1840	0.1	106
20231002 1850	0.1	352
20231002 1900	1.5	298
20231002 1910	1.1	282
20231002 1920	0.1	25
20231002 1930	0.1	25
20231002 1940	0.1	-1
20231002 1950	0.1	15
20231002 2000	0.1	59
20231002 2010	0.2	101
20231002 2020	0.1	85
20231002 2030	0.1	74
20231002 2040	0.1	121
20231002 2050	0.1	354
20231002 2100	0.1	174
20231002 2110	0.1	79
20231002 2120	0.1	70
20231002 2130	0.1	59
20231002 2140	0.2	56
20231002 2150	0.1	264
20231002 2200	0.6	165
20231002 2210	0.1	72
20231002 2220	0.1	5
20231002 2230	0.1	9
20231002 2240	0.1	210
20231002 2250	0.1	120
20231002 2300	0.2	351
20231002 2310	2.1	349
20231002 2320	0.4	119
20231002 2330	0.1	54
20231002 2340	0.1	75
20231002 2350	0.1	85

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231003 0000	0.1	140
20231003 0010	0.1	188
20231003 0020	0.1	81
20231003 0030	0.1	69
20231003 0040	0.1	157
20231003 0050	1	275
20231003 0100	0.1	96
20231003 0110	0.1	96
20231003 0120	0.1	120
20231003 0130	0.1	116
20231003 0140	0.1	170
20231003 0150	0.1	259
20231003 0200	0.1	145
20231003 0210	0.1	131
20231003 0220	0.1	130
20231003 0230	0.1	46
20231003 0240	0.1	42
20231003 0250	0.1	353
20231003 0300	0.1	44
20231003 0310	0.1	61
20231003 0320	1	165
20231003 0330	0.1	141
20231003 0340	0.1	180
20231003 0350	0.1	30
20231003 0400	0.1	79
20231003 0410	0.1	78
20231003 0420	0.1	78
20231003 0430	0.1	78
20231003 0440	0.1	78
20231003 0450	0.1	80
20231003 0500	0.1	60
20231003 0510	0.1	60
20231003 0520	0.1	61
20231003 0530	0.1	61
20231003 0540	0.1	61
20231003 0550	0.1	61
20231003 0600	0.1	61
20231003 0610	0.1	58
20231003 0620	0.1	58
20231003 0630	0.1	58
20231003 0640	0.1	58
20231003 0650	0.1	58
20231003 0700	0.1	52
20231003 0710	0.1	52
20231003 0720	0.1	142
20231003 0730	0.1	155
20231003 0740	0.1	175
20231003 0750	0.1	183
20231003 0800	0.1	79
20231003 0810	0.1	128
20231003 0820	0.1	170
20231003 0830	0.1	100
20231003 0840	0.1	185
20231003 0850	0.1	155
20231003 0900	0.1	84
20231003 0910	0.1	74
20231003 0920	0.1	60
20231003 0930	0.1	50
20231003 0940	0.6	177
20231003 0950	1.5	173
20231003 1000	0.1	187
20231003 1010	0.1	81
20231003 1020	0.1	170
20231003 1030	0.5	176
20231003 1040	1.8	185
20231003 1050	1.3	155
20231003 1100	1.2	231
20231003 1110	1.3	175
20231003 1120	1.7	235
20231003 1130	0.2	212
20231003 1140	1	170
20231003 1150	0.2	200

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231003 1200	1	30
20231003 1210	0.1	15
20231003 1220	0.5	230
20231003 1230	0.1	201
20231003 1240	1.6	139
20231003 1250	1.8	201
20231003 1300	0.7	65
20231003 1310	0.4	200
20231003 1320	0.6	234
20231003 1330	0.6	224
20231003 1340	1.3	186
20231003 1350	1.4	218
20231003 1400	0.1	224
20231003 1410	0.1	199
20231003 1420	1.2	185
20231003 1430	0.4	210
20231003 1440	1.2	198
20231003 1450	0.2	259
20231003 1500	0.3	146
20231003 1510	0.1	129
20231003 1520	0.1	155
20231003 1530	0.1	229
20231003 1540	0.7	222
20231003 1550	0.1	149
20231003 1600	0.1	119
20231003 1610	0.6	156
20231003 1620	0.1	70
20231003 1630	0.1	109
20231003 1640	0.1	48
20231003 1650	0.1	22
20231003 1700	0.1	245
20231003 1710	0.1	348
20231003 1720	0.1	58
20231003 1730	0.1	57
20231003 1740	0.1	64
20231003 1750	0.1	61
20231003 1800	0.1	36
20231003 1810	0.1	36
20231003 1820	0.1	9
20231003 1830	0.1	62
20231003 1840	0.1	62
20231003 1850	0.1	50
20231003 1900	0.1	51
20231003 1910	0.1	39
20231003 1920	0.1	39
20231003 1930	0.1	40
20231003 1940	0.1	39
20231003 1950	0.1	41
20231003 2000	0.1	41
20231003 2010	0.1	41
20231003 2020	0.1	46
20231003 2030	0.1	46
20231003 2040	0.1	46
20231003 2050	0.1	46
20231003 2100	0.1	46
20231003 2110	0.1	46
20231003 2120	0.1	40
20231003 2130	0.1	33
20231003 2140	0.1	33
20231003 2150	0.1	33
20231003 2200	0.1	35
20231003 2210	0.1	20
20231003 2220	0.1	20
20231003 2230	0.1	296
20231003 2240	0.1	318
20231003 2250	0.1	338
20231003 2300	0.1	345
20231003 2310	0.1	45
20231003 2320	0.1	331
20231003 2330	0.1	218
20231003 2340	0.1	228
20231003 2350	0.1	141

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231004 0000	0.1	134
20231004 0010	0.1	85
20231004 0020	0.1	85
20231004 0030	0.1	85
20231004 0040	0.1	85
20231004 0050	0.1	85
20231004 0100	0.1	85
20231004 0110	0.1	85
20231004 0120	0.1	81
20231004 0130	0.1	52
20231004 0140	0.1	51
20231004 0150	0.1	352
20231004 0200	0.1	19
20231004 0210	0.1	24
20231004 0220	0.1	27
20231004 0230	0.1	27
20231004 0240	0.1	27
20231004 0250	0.1	27
20231004 0300	0.1	29
20231004 0310	0.1	40
20231004 0320	0.1	30
20231004 0330	0.1	36
20231004 0340	0.1	31
20231004 0350	0.1	17
20231004 0400	0.1	40
20231004 0410	0.1	40
20231004 0420	0.1	40
20231004 0430	0.1	40
20231004 0440	0.1	40
20231004 0450	0.1	40
20231004 0500	0.1	19
20231004 0510	0.1	21
20231004 0520	0.1	28
20231004 0530	0.1	28
20231004 0540	0.1	39
20231004 0550	0.1	36
20231004 0600	0.1	24
20231004 0610	0.1	17
20231004 0620	0.1	276
20231004 0630	0.1	276
20231004 0640	0.1	276
20231004 0650	0.1	216
20231004 0700	0.1	206
20231004 0710	0.1	206
20231004 0720	0.1	206
20231004 0730	0.1	70
20231004 0740	0.1	121
20231004 0750	0.1	206
20231004 0800	0.4	177
20231004 0810	0.1	202
20231004 0820	0.6	134
20231004 0830	0.1	260
20231004 0840	0.1	182
20231004 0850	0.9	149
20231004 0900	1.1	97
20231004 0910	0.1	91
20231004 0920	0.3	34
20231004 0930	1.3	353
20231004 0940	0.7	48
20231004 0950	0.1	342
20231004 1000	0.1	20
20231004 1010	0.2	346
20231004 1020	0.3	330
20231004 1030	0.4	89
20231004 1040	0.2	51
20231004 1050	0.1	59
20231004 1100	0.2	28
20231004 1110	0.1	2
20231004 1120	1.1	30
20231004 1130	1	56
20231004 1140	0.1	93
20231004 1150	1.1	313

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231004 1200	0.8	93
20231004 1210	1.2	96
20231004 1220	0.1	78
20231004 1230	0.2	30
20231004 1240	0.9	122
20231004 1250	0.1	76
20231004 1300	0.1	75
20231004 1310	1.2	50
20231004 1320	0.1	112
20231004 1330	0.1	97
20231004 1340	1	164
20231004 1350	0.6	152
20231004 1400	0.1	116
20231004 1410	0.1	180
20231004 1420	0.2	98
20231004 1430	0.5	209
20231004 1440	0.6	192
20231004 1450	0.5	189
20231004 1500	0.1	72
20231004 1510	1.4	205
20231004 1520	2.4	146
20231004 1530	0.1	126
20231004 1540	0.6	172
20231004 1550	0.5	185
20231004 1600	5.6	152
20231004 1610	0.7	168
20231004 1620	1.4	174
20231004 1630	0.4	157
20231004 1640	0.6	199
20231004 1650	0.1	189
20231004 1700	0.1	169
20231004 1710	0.1	123
20231004 1720	0.1	121
20231004 1730	0.1	76
20231004 1740	0.1	102
20231004 1750	0.1	19
20231004 1800	0.1	50
20231004 1810	0.1	332
20231004 1820	0.1	324
20231004 1830	0.1	2
20231004 1840	0.1	59
20231004 1850	0.1	50
20231004 1900	0.1	59
20231004 1910	0.1	30
20231004 1920	0.1	40
20231004 1930	0.1	27
20231004 1940	0.1	27
20231004 1950	0.1	26
20231004 2000	0.1	50
20231004 2010	0.1	56
20231004 2020	0.1	5
20231004 2030	0.1	15
20231004 2040	0.1	339
20231004 2050	0.1	11
20231004 2100	0.1	61
20231004 2110	0.1	22
20231004 2120	0.1	41
20231004 2130	0.1	72
20231004 2140	0.1	60
20231004 2150	0.1	337
20231004 2200	0.1	183
20231004 2210	0.1	49
20231004 2220	0.1	77
20231004 2230	0.1	275
20231004 2240	0.1	339
20231004 2250	0.1	70
20231004 2300	0.1	112
20231004 2310	0.1	156
20231004 2320	0.4	34
20231004 2330	0.1	68
20231004 2340	0.1	97
20231004 2350	0.1	26

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231005 0000	0.1	95
20231005 0010	0.1	57
20231005 0020	0.1	60
20231005 0030	0.1	89
20231005 0040	0.1	36
20231005 0050	0.1	48
20231005 0100	0.1	40
20231005 0110	0.1	22
20231005 0120	0.1	62
20231005 0130	0.1	38
20231005 0140	0.1	349
20231005 0150	0.2	58
20231005 0200	0.3	18
20231005 0210	0.1	27
20231005 0220	0.3	52
20231005 0230	0.1	305
20231005 0240	0.9	267
20231005 0250	1.7	137
20231005 0300	0.2	21
20231005 0310	1	41
20231005 0320	4.6	81
20231005 0330	0.4	122
20231005 0340	0.1	62
20231005 0350	0.1	295
20231005 0400	1.9	107
20231005 0410	2.9	299
20231005 0420	1.8	267
20231005 0430	2.1	55
20231005 0440	4.7	60
20231005 0450	1.4	345
20231005 0500	0.1	170
20231005 0510	0.1	273
20231005 0520	0.6	176
20231005 0530	0.1	245
20231005 0540	0.1	110
20231005 0550	0.1	186
20231005 0600	0.1	304
20231005 0610	0.1	177
20231005 0620	0.1	75
20231005 0630	0.5	121
20231005 0640	0.1	185
20231005 0650	0.1	123
20231005 0700	0.1	165
20231005 0710	0.1	166
20231005 0720	0.2	91
20231005 0730	0.1	176
20231005 0740	0.2	225
20231005 0750	0.1	185
20231005 0800	0.7	245
20231005 0810	3	235
20231005 0820	4.1	200
20231005 0830	2.2	186
20231005 0840	1	174
20231005 0850	0.1	120
20231005 0900	0.1	60
20231005 0910	0.1	242
20231005 0920	0.1	99
20231005 0930	0.4	125
20231005 0940	0.3	2
20231005 0950	0.1	47
20231005 1000	2.3	305
20231005 1010	1.8	167
20231005 1020	1.2	291
20231005 1030	1.9	37
20231005 1040	0.1	87
20231005 1050	0.4	119
20231005 1100	0.1	7
20231005 1110	2.1	164
20231005 1120	1.3	16
20231005 1130	0.1	139
20231005 1140	0.1	129
20231005 1150	0.1	77

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231005 1200	0.1	196
20231005 1210	3.3	63
20231005 1220	0.3	13
20231005 1230	0.1	43
20231005 1240	6.3	55
20231005 1250	1.3	75
20231005 1300	0.6	10
20231005 1310	0.6	119
20231005 1320	1.2	165
20231005 1330	5.8	54
20231005 1340	0.6	61
20231005 1350	3.0	57
20231005 1400	0.4	348
20231005 1410	3.1	62
20231005 1420	5.6	37
20231005 1430	0.9	36
20231005 1440	5.1	21
20231005 1450	3.8	46
20231005 1500	3.1	328
20231005 1510	1.3	64
20231005 1520	2.4	96
20231005 1530	4.2	120
20231005 1540	2.4	64
20231005 1550	1.9	39
20231005 1600	1.8	8
20231005 1610	0.3	132
20231005 1620	0.1	95
20231005 1630	2.8	33
20231005 1640	2.2	44
20231005 1650	0.1	67
20231005 1700	2.2	56
20231005 1710	5.7	50
20231005 1720	0.6	118
20231005 1730	2.7	65
20231005 1740	0.1	88
20231005 1750	0.2	41
20231005 1800	1.8	42
20231005 1810	0.1	308
20231005 1820	0.1	124
20231005 1830	0.1	21
20231005 1840	0.5	17
20231005 1850	0.4	0
20231005 1900	0.9	58
20231005 1910	0.1	19
20231005 1920	0.6	6
20231005 1930	1.7	39
20231005 1940	0.8	19
20231005 1950	1.2	19
20231005 2000	1.1	28
20231005 2010	2.6	64
20231005 2020	0.8	339
20231005 2030	0.3	67
20231005 2040	0.7	57
20231005 2050	2.2	37
20231005 2100	3.0	23
20231005 2110	0.4	350
20231005 2120	0.8	285
20231005 2130	0.8	89
20231005 2140	1.8	51
20231005 2150	4.2	95
20231005 2200	0.1	185
20231005 2210	0.2	98
20231005 2220	0.1	187
20231005 2230	0.5	120
20231005 2240	4.2	158
20231005 2250	0.2	226
20231005 2300	0.1	322
20231005 2310	0.3	217
20231005 2320	0.7	16
20231005 2330	0.1	315
20231005 2340	1.5	138
20231005 2350	0.1	186

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231006 0000	0.1	193
20231006 0010	1.4	168
20231006 0020	1.1	22
20231006 0030	1.5	346
20231006 0040	0.1	211
20231006 0050	1.2	134
20231006 0100	1.3	320
20231006 0110	0.6	150
20231006 0120	0.4	234
20231006 0130	0.1	242
20231006 0140	0.3	44
20231006 0150	0.3	2
20231006 0200	0.4	38
20231006 0210	0.2	57
20231006 0220	0.1	30
20231006 0230	2.2	260
20231006 0240	1.6	347
20231006 0250	0.9	341
20231006 0300	0.1	56
20231006 0310	0.1	58
20231006 0320	2.9	348
20231006 0330	0.1	8
20231006 0340	1.5	326
20231006 0350	0.6	353
20231006 0400	4.5	147
20231006 0410	0.1	322
20231006 0420	0.1	35
20231006 0430	0.4	55
20231006 0440	0.1	102
20231006 0450	1.1	110
20231006 0500	0.1	348
20231006 0510	0.1	83
20231006 0520	0.8	13
20231006 0530	3.2	333
20231006 0540	0.3	352
20231006 0550	1.2	92
20231006 0600	2.1	327
20231006 0610	0.1	128
20231006 0620	0.1	335
20231006 0630	0.3	219
20231006 0640	0.1	79
20231006 0650	0.1	331
20231006 0700	0.1	209
20231006 0710	0.1	62
20231006 0720	0.1	349
20231006 0730	0.1	220
20231006 0740	0.1	230
20231006 0750	0.1	87
20231006 0800	0.1	33
20231006 0810	0.1	301
20231006 0820	0.2	335
20231006 0830	0.1	239
20231006 0840	0.1	333
20231006 0850	0.1	68
20231006 0900	0.1	87
20231006 0910	0.1	91
20231006 0920	1.5	334
20231006 0930	0.5	299
20231006 0940	0.6	90
20231006 0950	1.0	38
20231006 1000	1.2	100
20231006 1010	2.1	255
20231006 1020	3.2	59
20231006 1030	0.4	158
20231006 1040	0.3	33
20231006 1050	0.1	33
20231006 1100	0.7	6
20231006 1110	0.1	84
20231006 1120	0.1	180
20231006 1130	0.1	337
20231006 1140	1.6	32
20231006 1150	1.7	64

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231006 1200	0.1	70
20231006 1210	0.9	18
20231006 1220	0.2	259
20231006 1230	0.1	5
20231006 1240	1.2	15
20231006 1250	0.1	54
20231006 1300	0.4	279
20231006 1310	0.2	242
20231006 1320	1.6	317
20231006 1330	0.4	58
20231006 1340	0.4	30
20231006 1350	0.4	287
20231006 1400	0.6	317
20231006 1410	0.1	114
20231006 1420	1.4	52
20231006 1430	0.1	125
20231006 1440	0.1	344
20231006 1450	1.3	348
20231006 1500	0.5	346
20231006 1510	1.5	77
20231006 1520	0.1	326
20231006 1530	0.1	334
20231006 1540	3.0	109
20231006 1550	5.3	71
20231006 1600	0.7	56
20231006 1610	0.1	294
20231006 1620	0.5	65
20231006 1630	0.1	275
20231006 1640	1.0	92
20231006 1650	0.1	104
20231006 1700	0.1	86
20231006 1710	0.1	200
20231006 1720	0.1	72
20231006 1730	7.8	67
20231006 1740	0.1	61
20231006 1750	1.9	107
20231006 1800	0.3	170
20231006 1810	0.1	51
20231006 1820	0.1	33
20231006 1830	0.1	272
20231006 1840	1.3	100
20231006 1850	0.2	140
20231006 1900	0.5	102
20231006 1910	0.3	215
20231006 1920	0.1	258
20231006 1930	3.2	168
20231006 1940	0.5	213
20231006 1950	0.2	243
20231006 2000	0.8	262
20231006 2010	0.4	138
20231006 2020	0.5	232
20231006 2030	1.1	162
20231006 2040	1.0	177
20231006 2050	2.2	191
20231006 2100	2.8	105
20231006 2110	0.9	133
20231006 2120	1.0	183
20231006 2130	2.2	10
20231006 2140	0.1	338
20231006 2150	1.6	316
20231006 2200	0.5	55
20231006 2210	8.2	57
20231006 2220	1.5	67
20231006 2230	0.1	47
20231006 2240	0.1	245
20231006 2250	0.6	28
20231006 2300	1.3	33
20231006 2310	1.4	102
20231006 2320	0.3	303
20231006 2330	0.4	341
20231006 2340	2.0	118
20231006 2350	2.2	114

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231007 0000	6	345
20231007 0010	2.7	106
20231007 0020	1.8	73
20231007 0030	1.8	70
20231007 0040	0.4	89
20231007 0050	2	92
20231007 0100	0.6	285
20231007 0110	0.1	138
20231007 0120	0.1	76
20231007 0130	3.7	36
20231007 0140	0.3	42
20231007 0150	1.1	181
20231007 0200	0.2	136
20231007 0210	0.3	177
20231007 0220	0.1	44
20231007 0230	1.8	78
20231007 0240	0.1	163
20231007 0250	2.9	108
20231007 0300	0.1	57
20231007 0310	0.1	175
20231007 0320	1.4	123
20231007 0330	1	127
20231007 0340	0.5	168
20231007 0350	0.3	168
20231007 0400	0.8	112
20231007 0410	0.7	154
20231007 0420	5.2	168
20231007 0430	0.8	186
20231007 0440	0.4	155
20231007 0450	3.4	200
20231007 0500	0.1	149
20231007 0510	0.4	128
20231007 0520	0.3	187
20231007 0530	0.3	266
20231007 0540	1.1	148
20231007 0550	0.1	249
20231007 0600	0.3	216
20231007 0610	0.5	81
20231007 0620	0.9	228
20231007 0630	0.2	92
20231007 0640	3.7	178
20231007 0650	2.9	9
20231007 0700	0.5	80
20231007 0710	2.2	228
20231007 0720	0.4	184
20231007 0730	3.6	186
20231007 0740	0.2	136
20231007 0750	2.8	88
20231007 0800	7	6
20231007 0810	4.7	13
20231007 0820	1	345
20231007 0830	4.2	335
20231007 0840	2.9	35
20231007 0850	0.5	83
20231007 0900	2	26
20231007 0910	0.5	344
20231007 0920	1.4	59
20231007 0930	10	20
20231007 0940	1.8	14
20231007 0950	4.5	20
20231007 1000	11.4	55
20231007 1010	12.2	36
20231007 1020	0.1	136
20231007 1030	12.5	35
20231007 1040	2.8	70
20231007 1050	0.4	106
20231007 1100	1.3	14
20231007 1110	1.1	68
20231007 1120	1.7	39
20231007 1130	0.6	352
20231007 1140	0.2	162
20231007 1150	0.1	119

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231007 1200	1.1	132
20231007 1210	1.4	25
20231007 1220	2	45
20231007 1230	1	333
20231007 1240	1.3	51
20231007 1250	4.3	90
20231007 1300	1.2	330
20231007 1310	0.1	264
20231007 1320	5.1	36
20231007 1330	0.7	290
20231007 1340	1.1	107
20231007 1350	0.1	87
20231007 1400	1.2	249
20231007 1410	1.7	34
20231007 1420	2.4	159
20231007 1430	3.7	44
20231007 1440	1	79
20231007 1450	0.7	175
20231007 1500	0.2	132
20231007 1510	7	283
20231007 1520	1.3	295
20231007 1530	4.7	52
20231007 1540	1	82
20231007 1550	3.9	3
20231007 1600	4.3	45
20231007 1610	1.1	17
20231007 1620	0.1	3
20231007 1630	0.2	304
20231007 1640	0.3	13
20231007 1650	0.3	272
20231007 1700	7.9	354
20231007 1710	2	309
20231007 1720	0.3	64
20231007 1730	0.2	249
20231007 1740	4.3	8
20231007 1750	0.8	48
20231007 1800	1.4	263
20231007 1810	2.3	230
20231007 1820	2.7	69
20231007 1830	3.8	147
20231007 1840	1	35
20231007 1850	0.2	6
20231007 1900	1.5	115
20231007 1910	2.5	129
20231007 1920	2.9	95
20231007 1930	4.4	123
20231007 1940	13.8	89
20231007 1950	3.2	287
20231007 2000	4.8	64
20231007 2010	0.2	57
20231007 2020	1.9	46
20231007 2030	0.2	59
20231007 2040	1.4	109
20231007 2050	1	45
20231007 2100	2.5	0
20231007 2110	2.7	336
20231007 2120	5.7	36
20231007 2130	8	337
20231007 2140	7.2	352
20231007 2150	1.8	114
20231007 2200	4.8	328
20231007 2210	0.5	347
20231007 2220	0.2	37
20231007 2230	3.3	13
20231007 2240	4	126
20231007 2250	1.5	151
20231007 2300	0.2	251
20231007 2310	1.7	339
20231007 2320	3.8	172
20231007 2330	1	209
20231007 2340	0.7	256
20231007 2350	2.7	71

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231008 0000	0.5	120
20231008 0010	2.1	68
20231008 0020	2.1	317
20231008 0030	0.2	74
20231008 0040	11.6	115
20231008 0050	0.2	292
20231008 0100	2.5	161
20231008 0110	5.1	313
20231008 0120	0.4	116
20231008 0130	0.9	161
20231008 0140	0.5	186
20231008 0150	2.3	70
20231008 0200	4.8	79
20231008 0210	3.8	83
20231008 0220	1.2	257
20231008 0230	2.3	71
20231008 0240	3.4	336
20231008 0250	0.1	52
20231008 0300	9.8	336
20231008 0310	0.3	264
20231008 0320	0.8	233
20231008 0330	0.2	68
20231008 0340	0.4	93
20231008 0350	1.4	127
20231008 0400	1.1	197
20231008 0410	0.6	257
20231008 0420	2.8	48
20231008 0430	1.3	339
20231008 0440	3.2	142
20231008 0450	0.7	80
20231008 0500	6	123
20231008 0510	1.4	261
20231008 0520	0.6	153
20231008 0530	1.3	79
20231008 0540	1.1	26
20231008 0550	1	326
20231008 0600	0.1	192
20231008 0610	2.4	218
20231008 0620	0.3	280
20231008 0630	1	344
20231008 0640	2.3	149
20231008 0650	0.1	313
20231008 0700	0.8	329
20231008 0710	0.3	295
20231008 0720	0.3	190
20231008 0730	0.1	43
20231008 0740	0.1	3
20231008 0750	2.7	325
20231008 0800	0.6	194
20231008 0810	2.6	81
20231008 0820	0.9	1
20231008 0830	1.8	91
20231008 0840	1.8	313
20231008 0850	0.1	307
20231008 0900	0.8	6
20231008 0910	2.2	262
20231008 0920	0.8	30
20231008 0930	0.1	348
20231008 0940	0.1	66
20231008 0950	0.8	330
20231008 1000	0.5	344
20231008 1010	0.1	348
20231008 1020	0.1	123
20231008 1030	0.1	217
20231008 1040	1.4	65
20231008 1050	0.1	259
20231008 1100	0.1	232
20231008 1110	1.6	309
20231008 1120	0.1	15
20231008 1130	0.4	53
20231008 1140	1.1	347
20231008 1150	2.1	294

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231008 1200	0.6	151
20231008 1210	1.1	56
20231008 1220	3.2	47
20231008 1230	2	5
20231008 1240	8	122
20231008 1250	0.2	130
20231008 1300	0.4	61
20231008 1310	1.6	57
20231008 1320	1.4	289
20231008 1330	0.2	222
20231008 1340	1	306
20231008 1350	1	137
20231008 1400	3.3	63
20231008 1410	1.4	317
20231008 1420	3.9	70
20231008 1430	0.9	45
20231008 1440	0.3	11
20231008 1450	0.5	328
20231008 1500	5.8	33
20231008 1510	0.1	248
20231008 1520	0.1	326
20231008 1530	1.1	355
20231008 1540	0.1	65
20231008 1550	0.2	101
20231008 1600	0.1	254
20231008 1610	0.1	208
20231008 1620	0.4	113
20231008 1630	0.8	70
20231008 1640	0.1	326
20231008 1650	0.1	352
20231008 1700	0.2	51
20231008 1710	13.3	55
20231008 1720	4.2	5
20231008 1730	0.1	292
20231008 1740	0.9	240
20231008 1750	0.5	332
20231008 1800	0.3	110
20231008 1810	0.1	74
20231008 1820	5.1	84
20231008 1830	0.1	2
20231008 1840	9.1	15
20231008 1850	0.6	113
20231008 1900	0.7	272
20231008 1910	6.7	13
20231008 1920	2.7	46
20231008 1930	0.1	349
20231008 1940	0.1	46
20231008 1950	2	4
20231008 2000	1.4	71
20231008 2010	6	4
20231008 2020	1.6	97
20231008 2030	2.2	67
20231008 2040	0.1	144
20231008 2050	4.3	42
20231008 2100	0.3	193
20231008 2110	2.1	4
20231008 2120	2.2	77
20231008 2130	6.1	59
20231008 2140	0.2	105
20231008 2150	2.4	9
20231008 2200	1.2	29
20231008 2210	0.1	19
20231008 2220	11.6	7
20231008 2230	2.4	342
20231008 2240	8.3	56
20231008 2250	0.1	94
20231008 2300	4.9	26
20231008 2310	0.5	280
20231008 2320	0.1	7
20231008 2330	1.3	24
20231008 2340	0.1	335
20231008 2350	1.4	70

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231009 0000	1.9	11
20231009 0010	0.1	226
20231009 0020	7	342
20231009 0030	0.2	224
20231009 0030	0.2	319
20231009 0040	0.1	290
20231009 0050	5.6	0
20231009 0100	0.3	66
20231009 0110	0.1	297
20231009 0120	0.1	266
20231009 0130	0.1	65
20231009 0140	1.4	43
20231009 0150	0.1	222
20231009 0200	4.3	350
20231009 0210	0.1	217
20231009 0220	0.1	161
20231009 0230	3.5	236
20231009 0240	0.1	309
20231009 0250	0.3	110
20231009 0300	0.1	262
20231009 0310	0.1	318
20231009 0320	0.1	131
20231009 0330	3.4	184
20231009 0340	0.2	216
20231009 0350	0.1	253
20231009 0400	0.1	46
20231009 0410	0.1	2
20231009 0420	0.1	299
20231009 0430	0.1	341
20231009 0440	0.2	77
20231009 0450	0.1	197
20231009 0500	0.9	155
20231009 0510	0.1	102
20231009 0520	0.2	238
20231009 0530	0.1	262
20231009 0540	0.1	109
20231009 0550	1.4	194
20231009 0600	0.1	17
20231009 0610	0.1	304
20231009 0620	0.1	5
20231009 0630	0.1	347
20231009 0640	0.1	186
20231009 0650	0.1	65
20231009 0700	0.1	264
20231009 0710	0.2	177
20231009 0720	0.1	182
20231009 0730	0.1	192
20231009 0740	0.1	185
20231009 0750	0.1	339
20231009 0800	0.1	172
20231009 0810	0.1	126
20231009 0820	0.2	339
20231009 0830	0.3	5
20231009 0840	0.1	16
20231009 0850	3.9	184
20231009 0900	0.9	161
20231009 0910	0.2	181
20231009 0920	0.2	182
20231009 0930	0.1	169
20231009 0940	0.1	178
20231009 0950	0.3	123
20231009 1000	0.1	226
20231009 1010	0.1	35
20231009 1020	0.5	194
20231009 1030	0.1	155
20231009 1040	0.1	98
20231009 1050	0.3	177
20231009 1100	0.1	196
20231009 1110	0.1	225
20231009 1120	0.5	196
20231009 1130	0.1	182
20231009 1140	0.1	166

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231009 1200	0.1	220
20231009 1210	0.5	177
20231009 1220	0.2	195
20231009 1230	0.1	166
20231009 1240	0.1	153
20231009 1250	0.1	206
20231009 1300	0.2	200
20231009 1310	0.1	173
20231009 1320	0.3	100
20231009 1330	0.1	141
20231009 1340	0.7	92
20231009 1350	0.1	31
20231009 1400	0.1	135
20231009 1410	0.1	218
20231009 1420	0.3	232
20231009 1430	0.1	210
20231009 1440	0.1	181
20231009 1450	0.1	98
20231009 1500	0.1	23
20231009 1510	0.1	329
20231009 1520	0.1	185
20231009 1530	0.1	201
20231009 1540	0.1	134
20231009 1550	0.1	184
20231009 1600	0.1	238
20231009 1610	0.1	223
20231009 1620	0.1	192
20231009 1630	0.1	195
20231009 1640	0.1	218
20231009 1650	0.1	221
20231009 1700	0.1	201
20231009 1710	0.1	257
20231009 1720	0.1	159
20231009 1730	0.1	125
20231009 1740	0.1	125
20231009 1750	0.1	268
20231009 1800	0.1	302
20231009 1810	0.1	138
20231009 1820	0.1	337
20231009 1830	0.1	212
20231009 1840	0.1	172
20231009 1850	0.1	160
20231009 1900	0.1	185
20231009 1910	0.1	162
20231009 1920	0.1	162
20231009 1930	0.1	160
20231009 1940	0.1	237
20231009 1950	0.1	179
20231009 2000	0.1	198
20231009 2010	0.1	248
20231009 2020	0.1	210
20231009 2030	0.1	99
20231009 2040	0.1	182
20231009 2050	0.1	205
20231009 2100	0.1	205
20231009 2110	0.1	205
20231009 2120	0.1	160
20231009 2130	0.1	220
20231009 2140	0.1	151
20231009 2150	0.1	151
20231009 2200	0.1	261
20231009 2210	0.1	261
20231009 2220	0.1	223
20231009 2230	0.1	202
20231009 2240	0.1	156
20231009 2250	0.1	165
20231009 2300	0.1	125
20231009 2310	0.1	138
20231009 2320	0.1	173
20231009 2330	0.1	166
20231009 2340	0.1	186
20231009 2350	0.1	220

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231010 0000	0.1	220
20231010 0010	0.1	220
20231010 0020	0.1	220
20231010 0030	0.1	222
20231010 0030	0.1	222
20231010 0040	0.1	222
20231010 0050	0.1	177
20231010 0100	0.1	138
20231010 0110	0.1	110
20231010 0120	0.1	202
20231010 0130	0.1	177
20231010 0140	0.1	194
20231010 0150	0.1	193
20231010 0200	0.1	168
20231010 0210	0.1	175
20231010 0220	0.1	214
20231010 0230	0.1	210
20231010 0240	0.1	170
20231010 0250	0.1	172
20231010 0300	0.1	173
20231010 0300	0.1	182
20231010 0320	0.1	153
20231010 0330	0.1	153
20231010 0340	0.1	153
20231010 0350	0.1	196
20231010 0400	0.1	218
20231010 0410	0.1	145
20231010 0420	0.1	136
20231010 0430	0.1	238
20231010 0440	0.1	238
20231010 0450	0.1	238
20231010 0500	0.1	178
20231010 0510	0.1	226
20231010 0520	0.1	170
20231010 0530	0.1	248
20231010 0540	0.1	248
20231010 0550	0.1	111
20231010 0600	0.1	163
20231010 0610	0.1	246
20231010 0620	0.1	213
20231010 0630	0.1	213
20231010 0640	0.1	213
20231010 0650	0.1	283
20231010 0700	0.1	189
20231010 0710	0.1	239
20231010 0720	0.1	131
20231010 0730	0.1	164
20231010 0740	0.1	220
20231010 0750	0.1	171
20231010 0800	0.1	172
20231010 0810	0.1	202
20231010 0820	0.1	162
20231010 0830	0.1	201
20231010 0840	0.1	188
20231010 0850	0.1	252
20231010 0900	0.1	267
20231010 0910	0.1	239
20231010 0920	0.1	287
20231010 0930	0.1	297
20231010 0940	0.3	215
20231010 0950	0.1	295
20231010 1000	0.1	257
20231010 1010	0.1	162
20231010 1020	0.2	297
20231010 1030	0.1	232
20231010 1040	0.4	273
20231010 1050	0.1	293
20231010 1100	0.1	276
20231010 1110	0.2	355
20231010 1120	0.8	46
20231010 1130	0.1	178
20231010 1140	0.1	199

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231010 1200	0.1	202
20231010 1210	0.3	64
20231010 1220	0.1	277
20231010 1230	0.1	309
20231010 1240	0.1	69
20231010 1250	0.1	234
20231010 1300	0.1	284
20231010 1310	0.2	253
20231010 1320	0.1	168
20231010 1330	0.1	76
20231010 1340	0.1	282
20231010 1350	0.2	299
20231010 1400	0.1	260
20231010 1410	0.1	28
20231010 1420	0.1	343
20231010 1430	0.1	294
20231010 1440	0.1	344
20231010 1450	0.1	93
20231010 1500	0.1	10
20231010 1510	0.1	37
20231010 1520	0.1	134
20231010 1530	0.1	335
20231010 1540	0.1	354
20231010 1550	0.1	119
20231010 1600	0.1	61
20231010 1610	0.1	71
20231010 1620	0.1	71
20231010 1630	0.1	121
20231010 1640	0.1	109
20231010 1650	0.1	68
20231010 1700	0.1	334
20231010 1710	0.1	133
20231010 1720	0.1	112
20231010 1730	0.1	16
20231010 1740	0.1	356
20231010 1750	0.1	317
20231010 1800	0.1	24
20231010 1810	0.1	104
20231010 1820	0.1	67
20231010 1830	0.1	53
20231010 1840	0.1	1
20231010 1850	0.1	87
20231010 1900	0.1	65
20231010 1910	0.1	65
20231010 1920	0.1	35
20231010 1930	0.1	28
20231010 1940	0.1	155
20231010 1950	0.1	346
20231010 2000	0.1	309
20231010 2010	0.1	347
20231010 2020	0.1	27
20231010 2030	0.1	14
20231010 2040	0.1	100
20231010 2050	0.1	342
20231010 2100	0.1	92
20231010 2110	0.1	119
20231010 2120	0.1	85
20231010 2130	0.1	173
20231010 2140	0.1	173
20231010 2150	0.1	173
20231010 2200	0.1	173
20231010 2210	0.1	163
20231010 2220	0.1	163
20231010 2230	0.1	163
20231010 2240	0.1	163
20231010 2250	0.1	162
20231010 2300	0.1	202
20231010 2310	0.1	200
20231010 2320	0.1	283
20231010 2330	0.1	114
20231010 2340	0.1	204
20231010 2350	0.1	198

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231011 0000	0.1	198
20231011 0010	0.1	198
20231011 0020	0.1	198
20231011 0030	0.1	66
20231011 0030	0.1	16
20231011 0040	0.1	123
20231011 0050	0.1	199
20231011 0100	0.1	125
20231011 0110	0.1	97
20231011 0120	0.1	100
20231011 0130	0.1	339
20231011 0140	0.1	19
20231011 0150	0.1	342
20231011 0200	0.1	82
20231011 0210	0.1	308
20231011 0220	0.1	67
20231011 0230	0.1	189
20231011 0240	0.1	108
20231011 0250	0.6	68
20231011 0300	0.1	145
20231011 0310	0.1	16
20231011 0320	0.1	111
20231011 0330	0.1	56
20231011 0340	0.2	6
20231011 0350	0.1	219
20231011 0400	0.1	332
20231011 0410	0.1	90
20231011 0420	0.1	92
20231011 0430	0.1	336
20231011 0440	0.3	113
20231011 0450	0.1	309
20231011 0500	0.8	9
20231011 0510	0.1	50
20231011 0520	0.2	116
20231011 0530	0.1	276
20231011 0540	0.3	113
20231011 0550	0.1	34
20231011 0600	0.1	339
20231011 0610	0.1	59
20231011 0620	0.1	37
20231011 0630	0.1	301
20231011 0640	0.1	345
20231011 0650	0.1	28
20231011 0700	0.1	49
20231011 0710	0.1	15
20231011 0720	0.1	178
20231011 0730	0.1	109
20231011 0740	0.1	206
20231011 0750	0.1	214
20231011 0800	0.1	44
20231011 0810	1.3	54
20231011 0820	0.8	102
20231011 0830	0.1	184
20231011 0840	0.5	162
20231011 0850	0.1	102
20231011 0900	0.2	96
20231011 0910	0.4	223
20231011 0920	2.4	343
20231011 0930	0.2	221
20231011 0940	0.8	64
20231011 0950	2.2	324
20231011 1000	0.2	19
20231011 1010	0.1	35
20231011 1020	0.1	43
20231011 1030	0.1	334
20231011 1040	0.1	331
20231011 1050	5.1	336
20231011 1100	0.1	117
20231011 1110	0.1	298
20231011 1120	0.2	344
20231011 1130	0.2	347
20231011 1140	0.1	305

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231011 1200	0.1	2
20231011 1210	0.2	291
20231011 1220	0.1	94
20231011 1230	0.1	77
20231011 1240	0.2	20
20231011 1250	0.1	112
20231011 1300	3.6	329
20231011 1310	1.1	77
20231011 1320	0.1	263
20231011 1330	1.7	335
20231011 1340	0.4	341
20231011 1350	0.4	285
20231011 1400	0.1	4
20231011 1410	0.8	63
20231011 1420	1.9	329
20231011 1430	0.1	35
20231011 1440	0.1	327
20231011 1450	0.1	320
20231011 1500	0.1	316
20231011 1510	0.1	14
20231011 1520	0.3	279
20231011 1530	0.1	307
20231011 1540	0.6	314
20231011 1550	0.1	320
20231011 1600	2	66
20231011 1610	0.6	308
20231011 1620	0.1	302
20231011 1630	0.1	50
20231011 1640	1.3	339
20231011 1650	0.1	46
20231011 1700	0.1	14
20231011 1710	0.1	337
20231011 1720	0.1	344
20231011 1730	0.1	28
20231011 1740	0.1	280
20231011 1750	0.1	328
20231011 1800	0.3	7
20231011 1810	0.1	2
20231011 1820	0.1	68
20231011 1830	0.1	351
20231011 1840	0.1	345
20231011 1850	0.1	113
20231011 1900	0.1	58
20231011 1910	0.1	10
20231011 1920	0.1	17
20231011 1930	0.1	346
20231011 1940	0.1	34
20231011 1950	0.1	34
20231011 2000	0.1	100
20231011 2010	0.1	85
20231011 2020	0.1	49
20231011 2030	0.1	52
20231011 2040	0.1	60
20231011 2050	0.1	59
20231011 2100	0.1	53
20231011 2110	0.1	58
20231011 2120	0.1	71
20231011 2130	0.1	26
20231011 2140	0.1	63
20231011 2150	0.1	36
20231011 2200	0.1	0
20231011 2210	0.1	14
20231011 2220	0.1	14
20231011 2230	0.1	85
20231011 2240	0.1	43
20231011 2250	0.1	62
20231011 2300	0.1	41
20231011 2310	0.1	47
20231011 2320	0.1	47
20231011 2330	0.1	67
20231011 2340	0.1	19
20231011 2350	0.1	94

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231012 0000	0.1	82
20231012 0010	0.1	75
20231012 0020	0.1	40
20231012 0030	0.1	33
20231012 0030	0.1	90
20231012 0040	0.1	69
20231012 0050	0.1	69
20231012 0100	0.1	47
20231012 0110	0.1	46
20231012 0120	0.1	48
20231012 0130	0.1	36
20231012 0140	0.1	44
20231012 0150	0.1	44
20231012 0200	0.1	121
20231012 0210	0.1	37
20231012 0220	0.1	40
20231012 0230	0.1	68
20231012 0240	0.1	68
20231012 0250	0.1	68
20231012 0300	0.1	68
20231012 0310	0.1	67
20231012 0320	0.1	67
20231012 0330	0.1	67
20231012 0340	0.1	11
20231012 0350	0.1	24
20231012 0400	0.1	45
20231012 0410	0.1	95
20231012 0420	0.1	44
20231012 0430	0.1	9
20231012 0440	0.1	157
20231012 0450	0.1	156
20231012 0500	0.1	73
20231012 0510	0.1	73
20231012 0520	0.1	73
20231012 0530	0.1	73
20231012 0540	0.1	73
20231012 0550	0.1	73
20231012 0600	0.1	64
20231012 0610	0.1	63
20231012 0620	0.1	42
20231012 0630	0.1	42
20231012 0640	0.1	42
20231012 0650	0.1	42
20231012 0700	0.1	42
20231012 0710	0.1	42
20231012 0720	0.1	195
20231012 0730	0.1	271
20231012 0740	0.1	189
20231012 0750	0.1	195
20231012 0800	0.1	233
20231012 0810	0.1	223
20231012 0820	0.1	207
20231012 0830	0.1	178
20231012 0840	0.1	178
20231012 0850	0.5	167
20231012 0900	0.1	111
20231012 0910	0.1	155
20231012 0920	0.1	232
20231012 0930	0.1	160
20231012 0940	0.1	197
20231012 0950	0.6	200
20231012 1000	0.2	121
20231012 1010	0.1	233
20231012 1020	0.1	288
20231012 1030	0.8	181
20231012 1040	0.4	225
20231012 1050	0.1	177
20231012 1100	0.2	193
20231012 1110	0.5	151
20231012 1120	0.1	283
20231012 1130	0.1	179
20231012 1140	0.2	146

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231012 1200	0.1	103
20231012 1210	0.1	107
20231012 1220	0.1	142
20231012 1230	0.1	100
20231012 1240	0.1	108
20231012 1250	0.1	88
20231012 1300	0.1	174
20231012 1310	0.1	85
20231012 1320	0.1	83
20231012 1330	0.1	133
20231012 1340	0.1	117
20231012 1350	0.8	106
20231012 1400	0.3	68
20231012 1410	0.1	127
20231012 1420	0.1	74
20231012 1430	0.2	110
20231012 1440	0.1	70
20231012 1450	0.1	117
20231012 1500	0.1	121
20231012 1510	0.1	74
20231012 1520	0.1	79
20231012 1530	0.1	161
20231012 1540	0.3	46
20231012 1550	0.1	22
20231012 1600	0.1	48
20231012 1610	0.1	143
20231012 1620	0.1	275
20231012 1630	0.1	144
20231012 1640	0.1	326
20231012 1650	0.1	48
20231012 1700	0.1	53
20231012 1710	0.1	316
20231012 1720	0.1	350
20231012 1730	0.1	23
20231012 1740	0.1	355
20231012 1750	0.1	249
20231012 1800	0.1	96
20231012 1810	0.1	-1
20231012 1820	0.1	10
20231012 1830	0.9	327
20231012 1840	1	349
20231012 1850	4.1	275
20231012 1900	0.1	103
20231012 1910	0.1	130
20231012 1920	0.2	42
20231012 1930	1.7	48
20231012 1940	0.1	66
20231012 1950	0.1	132
20231012 2000	1.6	26
20231012 2010	0.3	131
20231012 2020	0.1	57
20231012 2030	1.1	16
20231012 2040	1.2	311
20231012 2050	0.1	313
20231012 2100	2.9	53
20231012 2110	0.1	63
20231012 2120	0.6	60
20231012 2130	0.4	350
20231012 2140	0.1	313
20231012 2150	0.4	38
20231012 2200	0.8	347
20231012 2210	1.3	36
20231012 2220	0.5	338
20231012 2230	1.3	348
20231012 2240	0.3	105
20231012 2250	0.4	110
20231012 2300	0.4	138
20231012 2310	0.1	334
20231012 2320	0.1	44
20231012 2330	0.4	85
20231012 2340	0.1	242
20231012 2350	0.1	109

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231013 0000	0.1	209
20231013 0010	1.6	320
20231013 0020	0.1	221
20231013 0030	2.1	353
20231013 0040	0.8	58
20231013 0050	0.4	21
20231013 0100	0.1	285
20231013 0110	3.3	0
20231013 0120	0.2	79
20231013 0130	0.3	13
20231013 0140	0.9	168
20231013 0150	0.1	183
20231013 0200	0.2	177
20231013 0210	0.1	184
20231013 0220	0.3	153
20231013 0230	0.1	193
20231013 0240	0.1	82
20231013 0250	0.1	207
20231013 0300	0.1	119
20231013 0310	0.1	152
20231013 0320	0.1	53
20231013 0330	0.1	167
20231013 0340	0.1	151
20231013 0350	0.1	59
20231013 0400	0.1	317
20231013 0410	0.1	64
20231013 0420	0.1	348
20231013 0430	0.1	102
20231013 0440	0.1	33
20231013 0450	0.2	181
20231013 0500	0.1	159
20231013 0510	0.1	329
20231013 0520	0.1	182
20231013 0530	0.1	154
20231013 0540	0.1	148
20231013 0550	0.1	259
20231013 0600	0.1	232
20231013 0610	0.1	108
20231013 0620	0.1	306
20231013 0630	0.1	234
20231013 0640	0.1	128
20231013 0650	0.1	121
20231013 0700	0.3	233
20231013 0710	0.1	301
20231013 0720	0.1	157
20231013 0730	0.1	100
20231013 0740	0.1	80
20231013 0750	0.1	81
20231013 0800	0.1	164
20231013 0810	0.1	236
20231013 0820	0.1	106
20231013 0830	1.1	288
20231013 0840	0.4	56
20231013 0850	0.1	71
20231013 0900	0.5	62
20231013 0910	0.9	62
20231013 0920	1.9	12
20231013 0930	0.6	29
20231013 0940	0.1	49
20231013 0950	0.1	78
20231013 1000	0.2	60
20231013 1010	0.8	316
20231013 1020	0.8	350
20231013 1030	0.1	118
20231013 1040	0.4	290
20231013 1050	0.2	301
20231013 1100	0.1	194
20231013 1110	0.4	35
20231013 1120	0.1	339
20231013 1130	0.1	11
20231013 1140	0.1	119
20231013 1150	0.1	84

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231013 1200	0.1	27
20231013 1210	0.1	44
20231013 1220	0.1	65
20231013 1230	0.1	158
20231013 1240	0.2	164
20231013 1250	0.1	2
20231013 1300	0.1	5
20231013 1310	0.1	341
20231013 1320	0.1	95
20231013 1330	0.3	297
20231013 1340	0.1	98
20231013 1350	0.1	353
20231013 1400	0.2	45
20231013 1410	0.1	53
20231013 1420	0.1	11
20231013 1430	0.1	72
20231013 1440	0.3	99
20231013 1450	0.1	50
20231013 1500	0.1	120
20231013 1510	0.1	53
20231013 1520	0.1	345
20231013 1530	0.1	306
20231013 1540	0.2	141
20231013 1550	0.1	103
20231013 1600	0.1	102
20231013 1610	0.1	90
20231013 1620	0.1	90
20231013 1630	0.1	66
20231013 1640	0.1	105
20231013 1650	0.1	92
20231013 1700	0.1	50
20231013 1710	0.1	13
20231013 1720	0.1	55
20231013 1730	0.1	55
20231013 1740	0.1	80
20231013 1750	0.1	50
20231013 1800	0.1	334
20231013 1810	0.1	66
20231013 1820	0.1	76
20231013 1830	0.1	339
20231013 1840	0.1	29
20231013 1850	0.4	72
20231013 1900	0.1	172
20231013 1910	0.1	98
20231013 1920	0.1	61
20231013 1930	0.1	312
20231013 1940	0.1	19
20231013 1950	0.1	51
20231013 2000	0.1	43
20231013 2010	0.1	8
20231013 2020	0.1	51
20231013 2030	0.1	51
20231013 2040	0.1	38
20231013 2050	0.1	353
20231013 2100	0.1	28
20231013 2110	0.1	63
20231013 2120	0.1	63
20231013 2130	0.1	42
20231013 2140	0.1	87
20231013 2150	0.1	56
20231013 2200	0.1	41
20231013 2210	0.1	320
20231013 2220	0.1	48
20231013 2230	0.1	32
20231013 2240	0.1	65
20231013 2250	0.1	43
20231013 2300	0.1	16
20231013 2310	0.1	50
20231013 2320	0.1	45
20231013 2330	0.1	15
20231013 2340	0.1	56
20231013 2350	0.1	61

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231014 0000	0.1	53
20231014 0010	0.1	52
20231014 0020	0.1	60
20231014 0030	0.1	48
20231014 0040	0.1	21
20231014 0050	0.1	319
20231014 0100	0.1	328
20231014 0110	0.1	347
20231014 0120	0.1	11
20231014 0130	0.1	300
20231014 0140	0.1	70
20231014 0150	0.1	252
20231014 0200	0.1	186
20231014 0210	0.1	59
20231014 0220	0.1	83
20231014 0230	0.1	39
20231014 0240	0.1	130
20231014 0250	0.1	269
20231014 0300	0.1	342
20231014 0310	0.1	76
20231014 0320	0.1	41
20231014 0330	0.1	82
20231014 0340	0.1	36
20231014 0350	0.1	305
20231014 0400	0.1	175
20231014 0410	0.1	195
20231014 0420	0.1	93
20231014 0430	0.1	115
20231014 0440	0.1	68
20231014 0450	0.1	16
20231014 0500	0.1	60
20231014 0510	0.1	49
20231014 0520	0.1	6
20231014 0530	0.1	54
20231014 0540	0.1	100
20231014 0550	0.1	13
20231014 0600	0.1	17
20231014 0610	0.1	60
20231014 0620	0.1	114
20231014 0630	0.1	63
20231014 0640	0.1	57
20231014 0650	0.1	57
20231014 0700	0.1	96
20231014 0710	0.1	104
20231014 0720	0.1	347
20231014 0730	0.1	88
20231014 0740	0.1	88
20231014 0750	0.1	93
20231014 0800	0.1	281
20231014 0810	0.1	186
20231014 0820	0.5	155
20231014 0830	0.1	148
20231014 0840	0.1	114
20231014 0850	0.1	175
20231014 0900	0.2	157
20231014 0910	0.1	315
20231014 0920	0.1	191
20231014 0930	0.1	223
20231014 0940	0.3	223
20231014 0950	0.1	229
20231014 1000	0.6	119
20231014 1010	0.1	87
20231014 1020	4	57
20231014 1030	0.5	88
20231014 1040	0.2	5
20231014 1050	0.2	132
20231014 1100	0.9	56
20231014 1110	0.3	162
20231014 1120	0.1	303
20231014 1130	1.5	49
20231014 1140	0.3	158
20231014 1150	1.8	42

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231014 1200	1.4	282
20231014 1210	0.1	266
20231014 1220	2.5	354
20231014 1230	1.5	344
20231014 1240	1.9	1
20231014 1250	0.1	355
20231014 1300	5.7	57
20231014 1310	0.1	254
20231014 1320	0.1	333
20231014 1330	0.1	297
20231014 1340	2.2	143
20231014 1350	0.1	178
20231014 1400	0.1	86
20231014 1410	0.6	191
20231014 1420	0.4	109
20231014 1430	0.1	175
20231014 1440	0.5	35
20231014 1450	0.1	332
20231014 1500	0.1	16
20231014 1510	0.1	328
20231014 1520	0.1	67
20231014 1530	0.7	51
20231014 1540	0.5	58
20231014 1550	0.4	54
20231014 1600	0.1	120
20231014 1610	0.1	45
20231014 1620	0.1	350
20231014 1630	0.9	302
20231014 1640	1.2	307
20231014 1650	0.1	17
20231014 1700	0.1	21
20231014 1710	0.1	14
20231014 1720	0.1	57
20231014 1730	0.1	32
20231014 1740	0.1	346
20231014 1750	0.1	0
20231014 1800	0.1	55
20231014 1810	0.1	341
20231014 1820	0.1	339
20231014 1830	0.1	18
20231014 1840	0.1	52
20231014 1850	0.1	62
20231014 1900	0.1	98
20231014 1910	0.1	45
20231014 1920	0.1	17
20231014 1930	0.1	350
20231014 1940	0.1	32
20231014 1950	0.1	349
20231014 2000	0.1	54
20231014 2010	0.1	54
20231014 2020	0.1	15
20231014 2030	0.1	28
20231014 2040	0.1	2
20231014 2050	0.1	77
20231014 2100	0.1	85
20231014 2110	0.1	24
20231014 2120	0.1	44
20231014 2130	0.1	24
20231014 2140	0.1	36
20231014 2150	0.1	25
20231014 2200	0.1	27
20231014 2210	0.1	80
20231014 2220	0.1	100
20231014 2230	0.1	27
20231014 2240	0.1	50
20231014 2250	0.1	36
20231014 2300	0.1	10
20231014 2310	0.1	48
20231014 2320	0.1	45
20231014 2330	0.1	52
20231014 2340	0.1	69
20231014 2350	0.1	57

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231015 0000	0.1	57
20231015 0010	0.1	313
20231015 0020	0.1	95
20231015 0030	0.1	46
20231015 0040	0.1	46
20231015 0050	0.1	41
20231015 0100	0.1	24
20231015 0110	0.1	48
20231015 0120	0.1	40
20231015 0130	0.1	40
20231015 0140	0.1	45
20231015 0150	0.1	41
20231015 0200	0.1	76
20231015 0210	0.1	76
20231015 0220	0.1	46
20231015 0230	0.1	9
20231015 0240	0.1	344
20231015 0250	0.1	43
20231015 0300	0.1	43
20231015 0310	0.1	45
20231015 0320	0.1	22
20231015 0330	0.1	3
20231015 0340	0.1	121
20231015 0350	0.1	121
20231015 0400	0.1	50
20231015 0410	0.1	52
20231015 0420	0.1	52
20231015 0430	0.1	345
20231015 0440	0.1	54
20231015 0450	0.1	90
20231015 0500	0.1	138
20231015 0510	0.1	0
20231015 0520	0.1	59
20231015 0530	0.1	53
20231015 0540	0.1	53
20231015 0550	0.1	62
20231015 0600	0.1	47
20231015 0610	0.1	34
20231015 0620	0.1	51
20231015 0630	0.1	42
20231015 0640	0.1	66
20231015 0650	0.1	66
20231015 0700	0.1	66
20231015 0710	0.1	30
20231015 0720	0.1	39
20231015 0730	0.1	160
20231015 0740	0.1	218
20231015 0750	0.1	192
20231015 0800	0.1	162
20231015 0810	0.1	136
20231015 0820	0.1	119
20231015 0830	0.1	187
20231015 0840	0.3	153
20231015 0850	1	150
20231015 0900	0.1	350
20231015 0910	0.1	137
20231015 0920	0.1	28
20231015 0930	0.5	100
20231015 0940	0.4	211
20231015 0950	3.4	235
20231015 1000	0.3	116
20231015 1010	0.8	264
20231015 1020	1.3	220
20231015 1030	0.6	91
20231015 1040	0.1	277
20231015 1050	5.4	162
20231015 1100	0.2	167
20231015 1110	0.2	311
20231015 1120	0.2	289
20231015 1130	2.2	292
20231015 1140	0.2	328

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231015 1200	0.1	289
20231015 1210	0.1	52
20231015 1220	0.1	262
20231015 1230	0.1	165
20231015 1240	0.1	168
20231015 1250	0.1	28
20231015 1300	0.1	25
20231015 1310	1.2	22
20231015 1320	0.2	310
20231015 1330	0.1	8
20231015 1340	0.1	16
20231015 1350	0.3	1
20231015 1400	0.1	278
20231015 1410	1.1	215
20231015 1420	0.1	142
20231015 1430	0.6	7
20231015 1440	0.4	224
20231015 1450	0.4	112
20231015 1500	0.1	190
20231015 1510	0.1	146
20231015 1520	0.7	144
20231015 1530	2.4	322
20231015 1540	0.1	339
20231015 1550	0.1	11
20231015 1600	0.1	239
20231015 1610	0.1	122
20231015 1620	0.1	120
20231015 1630	0.1	13
20231015 1640	0.1	195
20231015 1650	0.1	109
20231015 1700	0.1	17
20231015 1710	0.1	110
20231015 1720	1.3	113
20231015 1730	0.1	78
20231015 1740	0.1	96
20231015 1750	0.1	119
20231015 1800	0.1	39
20231015 1810	0.1	107
20231015 1820	0.1	64
20231015 1830	0.1	138
20231015 1840	1.8	168
20231015 1850	0.1	88
20231015 1900	0.1	243
20231015 1910	0.7	91
20231015 1920	0.1	90
20231015 1930	0.4	92
20231015 1940	1.5	135
20231015 1950	0.7	110
20231015 2000	0.1	96
20231015 2010	0.1	143
20231015 2020	0.1	132
20231015 2030	1.2	128
20231015 2040	0.1	124
20231015 2050	0.1	128
20231015 2100	0.1	326
20231015 2110	0.1	74
20231015 2120	0.4	114
20231015 2130	0.1	62
20231015 2140	0.1	59
20231015 2150	0.1	77
20231015 2200	0.1	114
20231015 2210	0.1	83
20231015 2220	0.1	101
20231015 2230	0.1	83
20231015 2240	0.1	76
20231015 2250	0.1	60
20231015 2300	0.1	156
20231015 2310	0.1	46
20231015 2320	0.1	246
20231015 2330	0.1	317
20231015 2340	0.1	98
20231015 2350	0.1	251

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231016 0000	0.1	130
20231016 0010	0.1	178
20231016 0020	0.1	187
20231016 0030	0.1	257
20231016 0040	0.1	182
20231016 0050	0.1	196
20231016 0100	0.1	29
20231016 0110	0.1	286
20231016 0120	0.1	229
20231016 0130	0.1	226
20231016 0140	0.1	105
20231016 0150	0.1	121
20231016 0200	0.1	61
20231016 0210	0.1	61
20231016 0220	0.1	186
20231016 0230	0.1	125
20231016 0240	0.1	153
20231016 0250	0.1	153
20231016 0300	0.1	91
20231016 0310	0.1	84
20231016 0320	0.1	61
20231016 0330	0.1	6
20231016 0340	0.1	45
20231016 0350	0.1	190
20231016 0400	0.1	49
20231016 0410	0.1	54
20231016 0420	0.1	102
20231016 0430	0.1	117
20231016 0440	0.1	320
20231016 0450	0.1	178
20231016 0500	0.1	87
20231016 0510	0.1	113
20231016 0520	0.1	167
20231016 0530	0.1	156
20231016 0540	0.1	61
20231016 0550	0.1	63
20231016 0600	0.1	173
20231016 0610	0.1	194
20231016 0620	0.1	227
20231016 0630	0.3	172
20231016 0640	0.1	232
20231016 0650	0.1	173
20231016 0700	0.1	196
20231016 0710	0.1	45
20231016 0720	0.1	211
20231016 0730	0.1	75
20231016 0740	0.1	135
20231016 0750	0.1	149
20231016 0800	0.1	155
20231016 0810	0.3	155
20231016 0820	0.1	178
20231016 0830	0.2	179
20231016 0840	0.1	176
20231016 0850	0.1	299
20231016 0900	0.1	232
20231016 0910	0.3	173
20231016 0920	0.1	227
20231016 0930	0.2	164
20231016 0940	0.1	27
20231016 0950	0.2	49
20231016 1000	0.1	38
20231016 1010	0.1	268
20231016 1020	0.1	349
20231016 1030	0.1	315
20231016 1040	1.7	348
20231016 1050	0.2	90
20231016 1100	0.1	10
20231016 1110	0.3	87
20231016 1120	0.9	349
20231016 1130	0.1	315
20231016 1140	0.1	180
20231016 1150	6.3	45

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231016 1200	0.1	205
20231016 1210	1.6	32
20231016 1220	0.3	73
20231016 1230	0.1	87
20231016 1240	0.1	53
20231016 1250	2.4	30
20231016 1300	0.7	10
20231016 1310	0.8	333
20231016 1320	0.3	348
20231016 1330	0.4	212
20231016 1340	1.1	343
20231016 1350	4.3	110
20231016 1400	0.2	101
20231016 1410	0.1	25
20231016 1420	1	96
20231016 1430	0.6	100
20231016 1440	0.3	330
20231016 1450	0.1	204
20231016 1500	0.2	73
20231016 1510	0.4	66
20231016 1520	0.1	61
20231016 1530	0.1	34
20231016 1540	0.1	140
20231016 1550	1.3	115
20231016 1600	0.1	145
20231016 1610	0.1	35
20231016 1620	0.4	12
20231016 1630	0.2	30
20231016 1640	0.3	30
20231016 1650	0.2	263
20231016 1700	1.1	127
20231016 1710	0.1	100
20231016 1720	1.4	345
20231016 1730	1	112
20231016 1740	0.1	98
20231016 1750	1.3	101
20231016 1800	0.1	37
20231016 1810	0.1	347
20231016 1820	0.2	140
20231016 1830	2	149
20231016 1840	0.2	44
20231016 1850	0.5	120
20231016 1900	0.3	106
20231016 1910	0.1	148
20231016 1920	0.1	67
20231016 1930	0.3	319
20231016 1940	0.2	96
20231016 1950	0.7	56
20231016 2000	0.1	197
20231016 2010	0.3	77
20231016 2020	0.1	129
20231016 2030	0.1	129
20231016 2040	0.1	145
20231016 2050	0.2	150
20231016 2100	0.1	139
20231016 2110	0.1	150
20231016 2120	0.1	29
20231016 2130	0.1	126
20231016 2140	0.1	102
20231016 2150	0.1	44
20231016 2200	0.1	62
20231016 2210	0.1	34
20231016 2220	0.1	66
20231016 2230	0.1	99
20231016 2240	0.8	68
20231016 2250	0.2	149
20231016 2300	0.1	119
20231016 2310	0.1	111
20231016 2320	0.1	90
20231016 2330	0.1	157
20231016 2340	0.1	96
20231016 2350	0.1	285

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231017 0000	0.1	83
20231017 0010	0.1	180
20231017 0020	2.1	171
20231017 0030	0.1	317
20231017 0040	0.1	178
20231017 0050	0.1	114
20231017 0100	0.1	146
20231017 0110	0.4	96
20231017 0120	0.1	346
20231017 0130	0.2	355
20231017 0140	0.1	151
20231017 0150	0.1	67
20231017 0200	0.3	315
20231017 0210	0.6	67
20231017 0220	1.6	7
20231017 0230	0.1	327
20231017 0240	0.6	118
20231017 0250	0.3	33
20231017 0300	0.8	11
20231017 0310	0.1	44
20231017 0320	0.1	92
20231017 0330	0.3	62
20231017 0340	0.3	331
20231017 0350	0.2	4
20231017 0400	0.2	205
20231017 0410	0.9	121
20231017 0420	0.2	60
20231017 0430	1.3	65
20231017 0440	1.8	56
20231017 0450	0.1	74
20231017 0500	1.3	38
20231017 0510	0.5	299
20231017 0520	1.1	11
20231017 0530	0.8	42
20231017 0540	0.1	31
20231017 0550	0.1	111
20231017 0600	1.3	12
20231017 0610	0.1	50
20231017 0620	2.3	11
20231017 0630	0.9	352
20231017 0640	0.6	2
20231017 0650	0.1	28
20231017 0700	0.1	155
20231017 0710	0.2	69
20231017 0720	0.6	109
20231017 0730	0.1	110
20231017 0740	0.8	13
20231017 0750	0.1	345
20231017 0800	0.1	1
20231017 0810	0.3	330
20231017 0820	0.1	108
20231017 0830	0.5	139
20231017 0840	0.2	28
20231017 0850	0.3	334
20231017 0900	0.3	147
20231017 0910	0.3	212
20231017 0920	1.5	110
20231017 0930	2.2	351
20231017 0940	1.7	349
20231017 0950	1.8	335
20231017 1000	5.8	55
20231017 1010	0.7	342
20231017 1020	0.4	72
20231017 1030	2.8	33
20231017 1040	1.6	336
20231017 1050	3.5	344
20231017 1100	0.1	312
20231017 1110	0.3	70
20231017 1120	0.1	344
20231017 1130	2.2	310
20231017 1140	0.2	47
20231017 1150	4.1	310

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231017 1200	2.6	330
20231017 1210	1.7	263
20231017 1220	0.6	325
20231017 1230	0.5	302
20231017 1240	0.8	185
20231017 1250	0.5	12
20231017 1300	0.9	356
20231017 1310	0.1	200
20231017 1320	1.1	95
20231017 1330	0.7	89
20231017 1340	1.9	337
20231017 1350	1.1	317
20231017 1400	0.5	36
20231017 1410	0.1	2
20231017 1420	0.5	112
20231017 1430	2.8	21
20231017 1440	0.1	209
20231017 1450	0.1	310
20231017 1500	0.1	57
20231017 1510	0.5	115
20231017 1520	0.1	122
20231017 1530	0.1	201
20231017 1540	0.1	76
20231017 1550	0.1	16
20231017 1600	0.7	289
20231017 1610	0.3	74
20231017 1620	0.1	99
20231017 1630	0.1	283
20231017 1640	0.1	126
20231017 1650	0.1	354
20231017 1700	0.1	304
20231017 1710	0.1	164
20231017 1720	0.1	102
20231017 1730	0.8	54
20231017 1740	2.4	42
20231017 1750	0.8	145
20231017 1800	1	11
20231017 1810	1.5	50
20231017 1820	0.2	48
20231017 1830	0.1	69
20231017 1840	0.8	146
20231017 1850	0.8	36
20231017 1900	1.3	231
20231017 1910	1.9	27
20231017 1920	4.4	0
20231017 1930	0.1	58
20231017 1940	0.1	159
20231017 1950	0.1	209
20231017 2000	0.1	290
20231017 2010	0.1	59
20231017 2020	0.1	100
20231017 2030	0.1	113
20231017 2040	0.2	5
20231017 2050	0.1	48
20231017 2100	3.5	44
20231017 2110	0.1	188
20231017 2120	0.1	296
20231017 2130	0.1	22
20231017 2140	1.1	88
20231017 2150	0.1	110
20231017 2200	0.3	355
20231017 2210	0.1	125
20231017 2220	0.1	38
20231017 2230	0.1	202
20231017 2240	0.1	102
20231017 2250	0.4	338
20231017 2300	0.1	185
20231017 2310	1.8	99
20231017 2320	0.4	35
20231017 2330	0.3	66
20231017 2340	0.4	212
20231017 2350	0.1	54

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231018 0000	0.1	194
20231018 0010	0.1	126
20231018 0020	0.1	5
20231018 0030	0.1	97
20231018 0040	0.1	270
20231018 0050	0.9	82
20231018 0100	0.2	18
20231018 0110	0.1	347
20231018 0120	0.1	189
20231018 0130	4.2	334
20231018 0140	0.1	68
20231018 0150	0.1	311
20231018 0200	0.2	309
20231018 0210	0.3	326
20231018 0220	0.2	136
20231018 0230	0.2	133
20231018 0240	0.9	118
20231018 0250	3.3	53
20231018 0300	0.1	328
20231018 0310	0.1	19
20231018 0320	0.1	93
20231018 0330	0.1	95
20231018 0340	0.1	275
20231018 0350	0.1	39
20231018 0400	0.2	91
20231018 0410	1.8	347
20231018 0420	0.6	111
20231018 0430	0.1	1
20231018 0440	0.8	12
20231018 0450	0.1	120
20231018 0500	0.1	136
20231018 0510	0.1	331
20231018 0520	0.1	114
20231018 0530	0.9	18
20231018 0540	0.9	2
20231018 0550	0.1	295
20231018 0600	0.4	4
20231018 0610	0.4	66
20231018 0620	0.7	324
20231018 0630	0.2	318
20231018 0640	0.3	110
20231018 0650	1.1	114
20231018 0700	1.1	49
20231018 0710	0.3	327
20231018 0720	0.7	55
20231018 0730	0.1	123
20231018 0740	0.4	14
20231018 0750	5	330
20231018 0800	0.8	67
20231018 0810	1.9	124
20231018 0820	0.1	76
20231018 0830	1.1	354
20231018 0840	0.1	47
20231018 0850	0.3	56
20231018 0900	0.2	120
20231018 0910	0.8	9
20231018 0920	0.5	193
20231018 0930	0.1	15
20231018 0940	1.7	321
20231018 0950	2.2	65
20231018 1000	0.1	136
20231018 1010	0.1	224
20231018 1020	0.1	214
20231018 1030	3.1	57
20231018 1040	0.1	147
20231018 1050	1.3	18
20231018 1100	1.2	33
20231018 1110	0.4	328
20231018 1120	1.9	66
20231018 1130	0.1	79
20231018 1140	0.1	55
20231018 1150	2.1	24

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231018 1200	0.1	307
20231018 1210	0.9	112
20231018 1220	1.1	333
20231018 1230	4.4	354
20231018 1240	3.3	40
20231018 1250	1.9	60
20231018 1300	0.1	99
20231018 1310	0.5	126
20231018 1320	3.5	139
20231018 1330	0.5	102
20231018 1340	0.1	38
20231018 1350	0.6	80
20231018 1400	0.3	160
20231018 1410	0.5	198
20231018 1420	0.1	174
20231018 1430	1.1	298
20231018 1440	1.3	9
20231018 1450	0.1	103
20231018 1500	0.1	241
20231018 1510	0.3	163
20231018 1520	0.1	185
20231018 1530	0.1	111
20231018 1540	0.1	177
20231018 1550	0.1	135
20231018 1600	0.7	286
20231018 1610	0.1	355
20231018 1620	0.3	287
20231018 1630	0.4	106
20231018 1640	0.1	353
20231018 1650	1.5	62
20231018 1700	0.1	314
20231018 1710	0.2	190
20231018 1720	0.2	145
20231018 1730	1.2	73
20231018 1740	0.1	114
20231018 1750	0.1	297
20231018 1800	0.1	118
20231018 1810	0.1	32
20231018 1820	0.1	9
20231018 1830	0.8	82
20231018 1840	0.3	127
20231018 1850	0.5	148
20231018 1900	0.1	110
20231018 1910	0.1	51
20231018 1920	0.1	182
20231018 1930	0.1	160
20231018 1940	0.1	117
20231018 1950	0.1	71
20231018 2000	0.2	30
20231018 2010	0.1	89
20231018 2020	0.1	93
20231018 2030	0.1	0
20231018 2040	0.1	355
20231018 2050	1.3	54
20231018 2100	0.2	280
20231018 2110	0.1	2
20231018 2120	1.4	41
20231018 2130	0.8	90
20231018 2140	2.4	44
20231018 2150	0.8	294
20231018 2200	0.1	203
20231018 2210	0.1	145
20231018 2220	0.4	107
20231018 2230	0.1	273
20231018 2240	2.8	162
20231018 2250	2	60
20231018 2300	3.8	54
20231018 2310	0.1	273
20231018 2320	0.4	10
20231018 2330	0.1	198
20231018 2340	0.5	79
20231018 2350	0.1	169

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231019 0000	0.7	129
20231019 0010	0.6	133
20231019 0020	0.1	349
20231019 0030	0.1	134
20231019 0040	0.1	318
20231019 0050	0.2	157
20231019 0100	0.1	91
20231019 0110	0.4	44
20231019 0120	0.1	0
20231019 0130	0.3	161
20231019 0140	1	278
20231019 0150	0.1	191
20231019 0200	0.1	26
20231019 0210	1.7	48
20231019 0220	0.2	95
20231019 0230	1.8	31
20231019 0240	0.1	214
20231019 0250	0.1	78
20231019 0300	0.1	34
20231019 0310	1.8	83
20231019 0320	0.6	342
20231019 0330	1.1	343
20231019 0340	0.1	38
20231019 0350	0.7	8
20231019 0400	0.3	157
20231019 0410	0.1	155
20231019 0420	1.3	338
20231019 0430	1.7	38
20231019 0440	0.2	27
20231019 0450	0.1	265
20231019 0500	0.1	150
20231019 0510	0.5	122
20231019 0520	0.1	307
20231019 0530	0.4	150
20231019 0540	0.1	72
20231019 0550	0.4	99
20231019 0600	2.3	93
20231019 0610	2.9	8
20231019 0620	2.1	156
20231019 0630	0.4	38
20231019 0640	3.2	34
20231019 0650	0.1	172
20231019 0700	0.4	163
20231019 0710	0.6	43
20231019 0720	0.1	58
20231019 0730	0.1	36
20231019 0740	3.8	14
20231019 0750	0.1	273
20231019 0800	1.9	91
20231019 0810	0.1	46
20231019 0820	0.1	99
20231019 0830	0.1	95
20231019 0840	0.1	236
20231019 0850	0.1	313
20231019 0900	0.2	339
20231019 0910	0.2	333
20231019 0920	0.5	64
20231019 0930	0.1	148
20231019 0940	0.1	37
20231019 0950	0.3	109
20231019 1000	0.1	182
20231019 1010	0.1	34
20231019 1020	0.1	111
20231019 1030	0.1	246
20231019 1040	0.6	0
20231019 1050	0.1	0
20231019 1100	0.2	192
20231019 1110	0.1	7
20231019 1120	0.4	135
20231019 1130	0.3	148
20231019 1140	0.1	127
20231019 1150	0.5	317

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231019 1200	0.1	84
20231019 1210	0.4	109
20231019 1220	0.1	1
20231019 1230	0.1	48
20231019 1240	0.3	50
20231019 1250	0.1	305
20231019 1300	1.9	60
20231019 1310	0.1	254
20231019 1320	0.1	77
20231019 1330	0.1	196
20231019 1340	0.1	183
20231019 1350	0.1	132
20231019 1400	0.1	256
20231019 1410	1.6	40
20231019 1420	0.1	320
20231019 1430	0.1	153
20231019 1440	0.1	104
20231019 1450	3.9	106
20231019 1500	0.3	43
20231019 1510	0.1	169
20231019 1520	0.8	122
20231019 1530	0.1	203
20231019 1540	0.1	33
20231019 1550	0.1	281
20231019 1600	0.2	257
20231019 1610	0.1	230
20231019 1620	0.1	159
20231019 1630	0.1	168
20231019 1640	1.6	41
20231019 1650	0.7	354
20231019 1700	0.1	40
20231019 1710	0.1	200
20231019 1720	0.4	11
20231019 1730	0.1	331
20231019 1740	0.1	149
20231019 1750	0.1	282
20231019 1800	0.1	282
20231019 1810	0.3	69
20231019 1820	0.1	129
20231019 1830	0.3	124
20231019 1840	0.1	165
20231019 1850	0.1	354
20231019 1900	0.1	183
20231019 1910	0.1	105
20231019 1920	0.1	101
20231019 1930	0.1	108
20231019 1940	0.2	145
20231019 1950	0.1	126
20231019 2000	0.1	29
20231019 2010	0.1	4
20231019 2020	0.1	115
20231019 2030	0.3	346
20231019 2040	0.1	157
20231019 2050	0.1	52
20231019 2100	0.1	118
20231019 2110	0.7	111
20231019 2120	0.1	97
20231019 2130	0.1	81
20231019 2140	0.1	108
20231019 2150	0.1	8
20231019 2200	1.1	132
20231019 2210	0.1	29
20231019 2220	0.4	354
20231019 2230	0.1	50
20231019 2240	2.9	13
20231019 2250	0.1	302
20231019 2300	0.9	90
20231019 2310	0.1	230
20231019 2320	0.1	163
20231019 2330	0.6	70
20231019 2340	0.1	294
20231019 2350	0.2	311

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231020 0000	0.1	186
20231020 0010	0.1	237
20231020 0020	0.1	158
20231020 0030	0.1	103
20231020 0040	0.1	52
20231020 0050	0.1	150
20231020 0100	0.1	1
20231020 0110	0.1	2
20231020 0120	0.1	78
20231020 0130	0.1	329
20231020 0140	0.1	169
20231020 0150	0.1	104
20231020 0200	0.3	47
20231020 0210	0.1	39
20231020 0220	0.1	151
20231020 0230	1.8	35
20231020 0240	0.1	114
20231020 0250	0.1	174
20231020 0300	0.9	68
20231020 0310	0.5	163
20231020 0320	0.1	170
20231020 0330	0.1	145
20231020 0340	0.1	173
20231020 0350	0.1	344
20231020 0400	0.1	58
20231020 0410	0.1	102
20231020 0420	0.1	154
20231020 0430	0.7	314
20231020 0440	0.1	174
20231020 0450	0.1	105
20231020 0500	0.1	162
20231020 0510	0.1	187
20231020 0520	0.1	197
20231020 0530	0.1	242
20231020 0540	0.1	123
20231020 0550	0.1	351
20231020 0600	0.1	200
20231020 0610	0.1	102
20231020 0620	0.1	149
20231020 0630	0.1	109
20231020 0640	0.1	109
20231020 0650	0.1	109
20231020 0700	0.1	87
20231020 0710	0.1	192
20231020 0720	0.1	68
20231020 0730	0.1	2
20231020 0740	0.1	132
20231020 0750	0.1	131
20231020 0800	0.1	15
20231020 0810	0.1	244
20231020 0820	0.1	187
20231020 0830	0.1	286
20231020 0840	0.1	16
20231020 0850	0.1	198
20231020 0900	0.1	96
20231020 0910	0.1	26
20231020 0920	0.1	146
20231020 0930	0.1	21
20231020 0940	2.8	326
20231020 0950	0.5	12
20231020 1000	0.9	5
20231020 1010	0.2	284
20231020 1020	0.3	314
20231020 1030	0.1	42
20231020 1040	0.1	165
20231020 1050	0.1	213
20231020 1100	0.1	125
20231020 1110	0.1	339
20231020 1120	0.1	269
20231020 1130	0.1	169
20231020 1140	0.1	198
20231020 1150	0.6	30

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231020 1200	0.7	320
20231020 1210	1.1	342
20231020 1220	0.1	81
20231020 1230	0.1	340
20231020 1240	0.1	5
20231020 1250	0.3	340
20231020 1300	0.1	5
20231020 1310	0.1	332
20231020 1320	0.1	27
20231020 1330	0.6	329
20231020 1340	0.1	299
20231020 1350	0.1	17
20231020 1400	2.1	66
20231020 1410	1.2	342
20231020 1420	1	334
20231020 1430	0.1	30
20231020 1440	0.1	355
20231020 1450	0.1	50
20231020 1500	0.1	340
20231020 1510	0.1	29
20231020 1520	0.1	317
20231020 1530	0.1	81
20231020 1540	0.1	110
20231020 1550	0.1	339
20231020 1600	0.1	270
20231020 1610	0.1	354
20231020 1620	0.1	296
20231020 1630	0.1	72
20231020 1640	0.1	104
20231020 1650	0.1	55
20231020 1700	0.1	89
20231020 1710	0.1	95
20231020 1720	0.1	108
20231020 1730	0.1	109
20231020 1740	0.1	122
20231020 1750	0.1	193
20231020 1800	0.1	123
20231020 1810	0.1	11
20231020 1820	0.1	78
20231020 1830	0.1	107
20231020 1840	0.1	333
20231020 1850	0.1	321
20231020 1900	0.1	8
20231020 1910	1	5
20231020 1920	0.1	1
20231020 1930	1.2	7
20231020 1940	0.1	290
20231020 1950	0.9	352
20231020 2000	0.8	4
20231020 2010	0.4	5
20231020 2020	3.3	335
20231020 2030	1	342
20231020 2040	4	4
20231020 2050	0.1	325
20231020 2100	1.3	315
20231020 2110	0.7	320
20231020 2120	0.4	7
20231020 2130	0.1	289
20231020 2140	0.1	34
20231020 2150	0.3	284
20231020 2200	0.1	49
20231020 2210	0.1	346
20231020 2220	0.1	348
20231020 2230	0.1	328
20231020 2240	0.1	320
20231020 2250	0.1	144
20231020 2300	0.1	76
20231020 2310	0.1	326
20231020 2320	0.1	179
20231020 2330	0.1	340
20231020 2340	0.1	49
20231020 2350	0.1	38

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231021 0000	0.1	108
20231021 0010	0.1	7
20231021 0020	1.2	338
20231021 0030	0.1	5
20231021 0040	0.1	349
20231021 0050	0.1	28
20231021 0100	0.1	264
20231021 0110	0.1	4
20231021 0120	0.1	311
20231021 0130	0.1	278
20231021 0140	0.1	48
20231021 0150	0.2	328
20231021 0200	0.1	315
20231021 0210	0.1	34
20231021 0220	0.1	112
20231021 0230	0.1	271
20231021 0240	0.1	351
20231021 0250	0.1	338
20231021 0300	0.2	336
20231021 0310	0.7	355
20231021 0320	0.1	136
20231021 0330	0.1	4
20231021 0340	0.1	109
20231021 0350	0.1	220
20231021 0400	0.1	126
20231021 0410	0.1	147
20231021 0420	0.1	100
20231021 0430	0.1	91
20231021 0440	0.1	239
20231021 0450	0.1	277
20231021 0500	0.1	64
20231021 0510	0.1	320
20231021 0520	0.1	108
20231021 0530	0.1	133
20231021 0540	0.1	239
20231021 0550	0.1	107
20231021 0600	0.1	88
20231021 0610	0.1	200
20231021 0620	0.1	50
20231021 0630	0.1	98
20231021 0640	0.1	58
20231021 0650	0.2	192
20231021 0700	0.1	216
20231021 0710	0.1	224
20231021 0720	0.1	212
20231021 0730	0.5	42
20231021 0740	0.1	11
20231021 0750	0.1	104
20231021 0800	0.1	85
20231021 0810	0.1	350
20231021 0820	0.1	6
20231021 0830	0.1	242
20231021 0840	0.1	300
20231021 0850	0.1	170
20231021 0900	0.8	278
20231021 0910	0.1	48
20231021 0920	0.1	121
20231021 0930	0.1	115
20231021 0940	0.1	55
20231021 0950	0.1	296
20231021 1000	0.1	257
20231021 1010	0.1	48
20231021 1020	0.1	286
20231021 1030	0.1	338
20231021 1040	0.2	65
20231021 1050	0.1	290
20231021 1100	0.1	333
20231021 1110	0.2	310
20231021 1120	0.1	8
20231021 1130	0.6	270
20231021 1140	0.1	24
20231021 1150	0.1	259

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231021 1200	0.6	101
20231021 1210	1.2	333
20231021 1220	0.1	79
20231021 1230	0.2	176
20231021 1240	0.1	181
20231021 1250	1.3	322
20231021 1300	0.4	36
20231021 1310	0.6	355
20231021 1320	0.2	273
20231021 1330	1.2	53
20231021 1340	0.3	243
20231021 1350	1.2	9
20231021 1400	0.2	301
20231021 1410	0.1	167
20231021 1420	0.1	61
20231021 1430	0.1	33
20231021 1440	0.1	40
20231021 1450	0.5	329
20231021 1500	0.1	12
20231021 1510	0.3	338
20231021 1520	0.1	13
20231021 1530	0.1	279
20231021 1540	0.1	34
20231021 1550	0.2	303
20231021 1600	0.2	46
20231021 1610	0.1	39
20231021 1620	0.1	354
20231021 1630	0.1	317
20231021 1640	0.1	301
20231021 1650	0.1	79
20231021 1700	0.1	292
20231021 1710	0.1	345
20231021 1720	0.1	332
20231021 1730	0.8	295
20231021 1740	0.1	43
20231021 1750	0.1	321
20231021 1800	1.4	334
20231021 1810	0.1	62
20231021 1820	0.1	345
20231021 1830	0.1	5
20231021 1840	0.4	336
20231021 1850	0.9	288
20231021 1900	0.1	75
20231021 1910	0.1	327
20231021 1920	1.9	328
20231021 1930	0.1	304
20231021 1940	0.2	351
20231021 1950	0.1	55
20231021 2000	0.1	21
20231021 2010	0.1	321
20231021 2020	0.1	94
20231021 2030	0.1	116
20231021 2040	0.1	158
20231021 2050	0.1	94
20231021 2100	0.1	100
20231021 2110	0.1	104
20231021 2120	0.1	299
20231021 2130	0.2	303
20231021 2140	0.1	100
20231021 2150	0.1	267
20231021 2200	0.1	349
20231021 2210	0.1	344
20231021 2220	0.1	326
20231021 2230	0.1	251
20231021 2240	0.2	12
20231021 2250	0.1	95
20231021 2300	0.1	294
20231021 2310	0.1	114
20231021 2320	0.1	166
20231021 2330	0.1	92
20231021 2340	0.1	137
20231021 2350	0.1	325

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231022 0000	0.1	285
20231022 0010	0.1	49
20231022 0020	0.1	95
20231022 0030	0.1	97
20231022 0040	0.1	161
20231022 0050	0.1	139
20231022 0100	0.1	261
20231022 0110	0.1	66
20231022 0120	0.1	98
20231022 0130	0.1	221
20231022 0140	0.1	272
20231022 0150	0.1	204
20231022 0200	0.1	160
20231022 0210	0.1	254
20231022 0220	0.1	199
20231022 0230	0.1	215
20231022 0240	0.1	136
20231022 0250	0.1	144
20231022 0300	0.1	280
20231022 0310	0.1	156
20231022 0320	0.1	32
20231022 0330	0.1	130
20231022 0340	0.1	149
20231022 0350	0.1	252
20231022 0400	0.1	182
20231022 0410	0.1	96
20231022 0420	0.1	187
20231022 0430	0.1	274
20231022 0440	0.1	176
20231022 0450	0.1	262
20231022 0500	0.1	170
20231022 0510	0.1	294
20231022 0520	0.1	228
20231022 0530	0.1	102
20231022 0540	0.1	78
20231022 0550	0.1	158
20231022 0600	0.1	88
20231022 0610	0.1	193
20231022 0620	0.1	233
20231022 0630	0.1	297
20231022 0640	0.1	302
20231022 0650	0.1	183
20231022 0700	0.1	279
20231022 0710	0.1	229
20231022 0720	0.1	245
20231022 0730	0.1	222
20231022 0740	0.1	109
20231022 0750	0.1	222
20231022 0800	0.1	153
20231022 0810	0.1	182
20231022 0820	0.1	137
20231022 0830	0.1	55
20231022 0840	0.1	168
20231022 0850	0.3	171
20231022 0900	0.3	180
20231022 0910	0.6	124
20231022 0920	0.1	183
20231022 0930	0.1	163
20231022 0940	0.3	185
20231022 0950	0.1	136
20231022 1000	0.1	116
20231022 1010	0.5	345
20231022 1020	0.1	246
20231022 1030	0.1	39
20231022 1040	0.1	212
20231022 1050	0.1	110
20231022 1100	1.1	183
20231022 1110	0.4	204
20231022 1120	1.8	64
20231022 1130	0.1	122
20231022 1140	2.2	49
20231022 1150	2.1	343

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231022 1200	0.8	113
20231022 1210	0.4	35
20231022 1220	2.4	44
20231022 1230	0.1	138
20231022 1240	1	27
20231022 1250	1.6	63
20231022 1300	1.5	15
20231022 1310	1.9	99
20231022 1320	0.8	51
20231022 1330	0.1	269
20231022 1340	0.9	26
20231022 1350	2.7	162
20231022 1400	0.1	111
20231022 1410	0.4	78
20231022 1420	0.1	287
20231022 1430	0.1	265
20231022 1440	0.1	111
20231022 1450	0.1	64
20231022 1500	0.1	69
20231022 1510	0.3	163
20231022 1520	0.3	65
20231022 1530	0.5	18
20231022 1540	0.1	46
20231022 1550	0.4	104
20231022 1600	0.1	352
20231022 1610	0.1	37
20231022 1620	0.1	40
20231022 1630	0.1	297
20231022 1640	0.1	134
20231022 1650	0.1	134
20231022 1700	0.1	146
20231022 1710	0.1	66
20231022 1720	0.1	162
20231022 1730	0.1	55
20231022 1740	0.1	65
20231022 1750	0.1	86
20231022 1800	0.1	344
20231022 1810	0.1	46
20231022 1820	0.1	44
20231022 1830	0.1	75
20231022 1840	0.1	40
20231022 1850	0.1	53
20231022 1900	0.1	49
20231022 1910	0.1	334
20231022 1920	0.1	328
20231022 1930	0.1	14
20231022 1940	0.1	48
20231022 1950	0.1	161
20231022 2000	0.1	49
20231022 2010	0.1	50
20231022 2020	0.1	328
20231022 2030	0.1	16
20231022 2040	0.1	0
20231022 2050	0.1	53
20231022 2100	0.1	50
20231022 2110	0.1	49
20231022 2120	0.1	14
20231022 2130	0.1	24
20231022 2140	0.1	52
20231022 2150	0.1	46
20231022 2200	0.1	52
20231022 2210	0.1	32
20231022 2220	0.1	44
20231022 2230	0.1	26
20231022 2240	0.1	40
20231022 2250	0.1	41
20231022 2300	0.1	38
20231022 2310	0.1	47
20231022 2320	0.1	47
20231022 2330	0.1	51
20231022 2340	0.1	36
20231022 2350	0.1	33

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231023 0000	0.1	30
20231023 0010	0.1	84
20231023 0020	0.1	84
20231023 0030	0.1	151
20231023 0040	0.1	48
20231023 0050	0.1	48
20231023 0100	0.1	54
20231023 0110	0.1	48
20231023 0120	0.1	347
20231023 0130	0.1	31
20231023 0140	0.1	184
20231023 0150	0.1	146
20231023 0200	0.1	136
20231023 0210	0.1	11
20231023 0220	0.1	65
20231023 0230	0.1	49
20231023 0240	0.1	52
20231023 0250	0.1	249
20231023 0300	0.1	231
20231023 0310	0.1	144
20231023 0320	0.1	111
20231023 0330	0.1	98
20231023 0340	0.1	60
20231023 0350	0.1	158
20231023 0400	0.1	216
20231023 0410	0.1	8
20231023 0420	0.1	48
20231023 0430	0.1	339
20231023 0440	0.6	165
20231023 0450	0.1	239
20231023 0500	0.1	91
20231023 0510	0.1	25
20231023 0520	0.1	354
20231023 0530	0.1	277
20231023 0540	0.1	181
20231023 0550	0.1	256
20231023 0600	0.1	172
20231023 0610	0.1	243
20231023 0620	0.1	91
20231023 0630	0.1	39
20231023 0640	0.1	49
20231023 0650	0.1	155
20231023 0700	0.1	93
20231023 0710	0.1	19
20231023 0720	0.1	233
20231023 0730	0.1	208
20231023 0740	0.1	183
20231023 0750	0.1	152
20231023 0800	0.1	153
20231023 0810	0.1	169
20231023 0820	0.1	185
20231023 0830	0.1	164
20231023 0840	0.1	184
20231023 0850	0.1	235
20231023 0900	0.1	223
20231023 0910	0.1	310
20231023 0920	0.4	179
20231023 0930	0.1	306
20231023 0940	0.1	147
20231023 0950	0.1	230
20231023 1000	1.5	181
20231023 1010	0.1	293
20231023 1020	0.1	145
20231023 1030	0.1	176
20231023 1040	0.1	173
20231023 1050	0.3	154
20231023 1100	0.1	58
20231023 1110	0.1	264
20231023 1120	1	42
20231023 1130	0.1	340
20231023 1140	0.1	38
20231023 1150	0.9	352

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231023 1200	0.1	49
20231023 1210	0.1	269
20231023 1220	0.6	132
20231023 1230	0.1	327
20231023 1240	0.5	77
20231023 1250	0.3	324
20231023 1300	0.4	158
20231023 1310	0.1	346
20231023 1320	0.2	298
20231023 1330	0.1	300
20231023 1340	0.1	42
20231023 1350	0.1	330
20231023 1400	0.1	198
20231023 1410	1	215
20231023 1420	0.1	260
20231023 1430	0.1	119
20231023 1440	1.6	151
20231023 1450	0.7	76
20231023 1500	0.1	292
20231023 1510	0.1	209
20231023 1520	0.3	175
20231023 1530	0.3	202
20231023 1540	1.6	88
20231023 1550	0.1	179
20231023 1600	1.1	167
20231023 1610	0.1	299
20231023 1620	0.1	10
20231023 1630	0.1	303
20231023 1640	0.1	290
20231023 1650	0.1	153
20231023 1700	0.1	71
20231023 1710	0.1	131
20231023 1720	0.1	83
20231023 1730	0.1	51
20231023 1740	0.1	86
20231023 1750	0.1	37
20231023 1800	0.1	26
20231023 1810	0.1	25
20231023 1820	0.1	90
20231023 1830	0.1	28
20231023 1840	0.2	66
20231023 1850	0.2	62
20231023 1900	0.1	89
20231023 1910	0.1	344
20231023 1920	0.1	295
20231023 1930	0.1	1
20231023 1940	0.1	331
20231023 1950	0.1	188
20231023 2000	0.1	52
20231023 2010	0.1	323
20231023 2020	0.1	19
20231023 2030	0.1	44
20231023 2040	0.1	148
20231023 2050	0.1	183
20231023 2100	0.1	155
20231023 2110	0.1	188
20231023 2120	0.1	253
20231023 2130	0.1	177
20231023 2140	0.2	116
20231023 2150	0.1	163
20231023 2200	0.1	52
20231023 2210	0.1	125
20231023 2220	0.1	99
20231023 2230	0.1	355
20231023 2240	0.1	166
20231023 2250	0.1	143
20231023 2300	0.1	153
20231023 2310	0.1	101
20231023 2320	0.1	8
20231023 2330	0.1	162
20231023 2340	0.3	137
20231023 2350	0.2	89

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231024 0000	0.1	270
20231024 0010	0.1	117
20231024 0020	0.1	91
20231024 0030	0.1	90
20231024 0040	0.1	122
20231024 0050	0.1	147
20231024 0100	0.1	177
20231024 0110	0.2	112
20231024 0120	0.5	33
20231024 0130	0.7	140
20231024 0140	0.1	50
20231024 0150	0.1	113
20231024 0200	0.1	183
20231024 0210	0.1	39
20231024 0220	0.1	340
20231024 0230	0.1	31
20231024 0240	0.1	298
20231024 0250	0.3	107
20231024 0300	0.1	103
20231024 0310	0.1	32
20231024 0320	0.1	49
20231024 0330	0.1	51
20231024 0340	0.1	66
20231024 0350	0.1	69
20231024 0400	0.1	69
20231024 0410	0.1	62
20231024 0420	0.1	57
20231024 0430	0.1	57
20231024 0440	0.1	30
20231024 0450	0.1	39
20231024 0500	0.1	337
20231024 0510	0.1	6
20231024 0520	0.1	47
20231024 0530	0.1	47
20231024 0540	0.1	47
20231024 0550	0.1	131
20231024 0600	0.1	131
20231024 0610	0.1	57
20231024 0620	0.1	48
20231024 0630	0.1	39
20231024 0640	0.1	155
20231024 0650	0.1	155
20231024 0700	0.1	141
20231024 0710	0.1	98
20231024 0720	0.1	98
20231024 0730	0.1	164
20231024 0740	0.1	173
20231024 0750	0.1	124
20231024 0800	0.1	209
20231024 0810	0.1	238
20231024 0820	0.2	284
20231024 0830	0.1	294
20231024 0840	0.1	54
20231024 0850	0.1	6
20231024 0900	0.1	187
20231024 0910	0.1	190
20231024 0920	0.1	354
20231024 0930	0.1	114
20231024 0940	0.1	171
20231024 0950	0.1	200
20231024 1000	0.1	180
20231024 1010	0.1	88
20231024 1020	0.1	103
20231024 1030	1	11
20231024 1040	0.1	67
20231024 1050	1.1	57
20231024 1100	0.1	129
20231024 1110	0.1	198
20231024 1120	0.4	186
20231024 1130	0.1	133
20231024 1140	1.5	144
20231024 1150	1.5	52

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231024 1200	0.1	254
20231024 1210	2.4	193
20231024 1220	2.9	85
20231024 1230	0.1	205
20231024 1240	0.1	11
20231024 1250	0.1	203
20231024 1300	0.6	135
20231024 1310	0.1	44
20231024 1320	1	340
20231024 1330	1	122
20231024 1340	0.2	183
20231024 1350	0.1	35
20231024 1400	0.5	-1
20231024 1410	0.2	275
20231024 1420	0.3	299
20231024 1430	0.1	238
20231024 1440	0.1	177
20231024 1450	0.1	136
20231024 1500	0.1	353
20231024 1510	0.7	242
20231024 1520	0.8	101
20231024 1530	2.2	110
20231024 1540	0.3	312
20231024 1550	0.3	58
20231024 1600	0.1	48
20231024 1610	0.3	113
20231024 1620	1.3	15
20231024 1630	1.5	121
20231024 1640	2.2	150
20231024 1650	0.3	99
20231024 1700	0.2	131
20231024 1710	0.5	43
20231024 1720	0.6	49
20231024 1730	0.1	245
20231024 1740	0.1	341
20231024 1750	0.1	235
20231024 1800	0.1	34
20231024 1810	0.2	83
20231024 1820	0.8	66
20231024 1830	0.1	42
20231024 1840	0.1	352
20231024 1850	0.2	112
20231024 1900	0.4	131
20231024 1910	0.1	52
20231024 1920	0.1	81
20231024 1930	0.1	145
20231024 1940	0.2	44
20231024 1950	0.1	69
20231024 2000	0.1	352
20231024 2010	0.1	16
20231024 2020	0.1	341
20231024 2030	0.1	155
20231024 2040	0.1	149
20231024 2050	0.1	55
20231024 2100	0.1	25
20231024 2110	0.1	43
20231024 2120	0.1	56
20231024 2130	0.1	130
20231024 2140	0.1	351
20231024 2150	0.1	80
20231024 2200	0.1	69
20231024 2210	0.1	58
20231024 2220	0.1	319
20231024 2230	0.1	15
20231024 2240	0.1	231
20231024 2250	0.1	123
20231024 2300	0.1	64
20231024 2310	0.1	72
20231024 2320	0.1	77
20231024 2330	0.1	156
20231024 2340	0.4	108
20231024 2350	0.1	43

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231025 0000	0.1	181
20231025 0010	0.2	113
20231025 0020	0.4	206
20231025 0030	1.4	125
20231025 0040	0.2	139
20231025 0050	1.3	104
20231025 0100	0.1	94
20231025 0110	0.1	60
20231025 0120	0.1	57
20231025 0130	0.1	218
20231025 0140	0.1	290
20231025 0150	0.1	119
20231025 0200	0.1	283
20231025 0210	0.1	67
20231025 0220	1.9	72
20231025 0230	0.1	312
20231025 0240	0.1	342
20231025 0250	0.1	301
20231025 0300	0.1	129
20231025 0310	0.1	59
20231025 0320	0.1	39
20231025 0330	0.2	266
20231025 0340	0.1	99
20231025 0350	0.1	151
20231025 0400	0.1	76
20231025 0410	0.1	337
20231025 0420	0.1	100
20231025 0430	0.2	93
20231025 0440	0.1	27
20231025 0450	0.1	340
20231025 0500	0.1	7
20231025 0510	0.1	39
20231025 0520	0.1	31
20231025 0530	0.1	25
20231025 0540	0.1	144
20231025 0550	0.1	117
20231025 0600	0.1	67
20231025 0610	0.1	168
20231025 0620	0.1	199
20231025 0630	0.1	92
20231025 0640	0.1	157
20231025 0650	0.1	213
20231025 0700	0.1	42
20231025 0710	0.2	191
20231025 0720	0.1	225
20231025 0730	0.1	139
20231025 0740	0.1	116
20231025 0750	0.1	102
20231025 0800	0.1	48
20231025 0810	0.1	85
20231025 0820	0.5	81
20231025 0830	0.7	203
20231025 0840	5.3	117
20231025 0850	1.3	349
20231025 0900	1	338
20231025 0910	0.1	87
20231025 0920	0.1	43
20231025 0930	0.1	84
20231025 0940	0.4	324
20231025 0950	0.3	13
20231025 1000	0.1	59
20231025 1010	0.5	256
20231025 1020	0.3	91
20231025 1030	1.5	85
20231025 1040	1.3	179
20231025 1050	3.2	117
20231025 1100	0.1	137
20231025 1110	0.3	117
20231025 1120	0.1	119
20231025 1130	0.8	174
20231025 1140	0.5	158
20231025 1150	0.3	51

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231025 1200	0.2	106
20231025 1210	0.1	251
20231025 1220	0.8	1
20231025 1230	0.5	21
20231025 1240	1	100
20231025 1250	0.2	114
20231025 1300	0.4	222
20231025 1310	0.1	151
20231025 1320	3.6	101
20231025 1330	2.7	174
20231025 1340	3.4	126
20231025 1350	0.5	285
20231025 1400	3.8	125
20231025 1410	0.1	95
20231025 1420	0.7	126
20231025 1430	0.1	44
20231025 1440	0.2	220
20231025 1450	1.1	62
20231025 1500	0.2	32
20231025 1510	0.1	39
20231025 1520	0.1	171
20231025 1530	2.1	111
20231025 1540	1.5	124
20231025 1550	1.1	116
20231025 1600	0.4	70
20231025 1610	0.1	38
20231025 1620	3.5	49
20231025 1630	3.7	109
20231025 1640	0.1	125
20231025 1650	0.1	91
20231025 1700	0.1	302
20231025 1710	0.1	336
20231025 1720	0.3	98
20231025 1730	0.1	52
20231025 1740	2.8	102
20231025 1750	0.1	103
20231025 1800	0.1	62
20231025 1810	0.1	37
20231025 1820	0.1	124
20231025 1830	0.1	150
20231025 1840	0.1	210
20231025 1850	0.2	105
20231025 1900	0.1	106
20231025 1910	0.1	111
20231025 1920	0.1	121
20231025 1930	0.1	161
20231025 1940	0.1	179
20231025 1950	0.1	147
20231025 2000	0.1	168
20231025 2010	0.1	248
20231025 2020	0.1	310
20231025 2030	0.1	42
20231025 2040	0.1	59
20231025 2050	0.1	344
20231025 2100	0.1	317
20231025 2110	0.1	13
20231025 2120	0.1	155
20231025 2130	0.2	323
20231025 2140	0.1	301
20231025 2150	0.1	297
20231025 2200	0.1	305
20231025 2210	0.1	318
20231025 2220	0.1	100
20231025 2230	0.1	181
20231025 2240	0.1	317
20231025 2250	0.1	319
20231025 2300	0.1	290
20231025 2310	0.1	153
20231025 2320	0.1	56
20231025 2330	0.1	336
20231025 2340	0.1	48
20231025 2350	0.1	353

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231026 0000	0.1	167
20231026 0010	0.1	210
20231026 0020	0.1	20
20231026 0030	0.1	305
20231026 0040	0.1	307
20231026 0050	0.1	172
20231026 0100	0.1	141
20231026 0110	0.1	180
20231026 0120	0.1	241
20231026 0130	0.1	225
20231026 0140	0.1	278
20231026 0150	0.1	133
20231026 0200	0.1	148
20231026 0210	0.1	109
20231026 0220	0.1	340
20231026 0230	0.1	36
20231026 0240	0.1	33
20231026 0250	0.1	96
20231026 0300	0.1	66
20231026 0310	0.1	58
20231026 0320	0.1	44
20231026 0330	0.1	2
20231026 0340	0.1	335
20231026 0350	0.1	51
20231026 0400	0.1	138
20231026 0410	0.1	102
20231026 0420	0.1	81
20231026 0430	0.1	61
20231026 0440	0.1	136
20231026 0450	0.1	172
20231026 0500	0.4	144
20231026 0510	0.2	116
20231026 0520	0.1	88
20231026 0530	0.2	123
20231026 0540	0.3	124
20231026 0550	0.1	80
20231026 0600	0.1	148
20231026 0610	0.1	89
20231026 0620	0.1	36
20231026 0630	0.1	248
20231026 0640	0.1	333
20231026 0650	0.1	167
20231026 0700	0.1	276
20231026 0710	0.4	53
20231026 0720	0.1	101
20231026 0730	0.1	319
20231026 0740	0.1	323
20231026 0750	0.5	2
20231026 0800	0.1	343
20231026 0810	0.1	89
20231026 0820	0.1	342
20231026 0830	0.3	99
20231026 0840	0.1	143
20231026 0850	0.1	208
20231026 0900	0.6	156
20231026 0910	0.1	3
20231026 0920	0.1	31
20231026 0930	1.7	54
20231026 0940	1.1	346
20231026 0950	0.3	338
20231026 1000	1.3	58
20231026 1010	2.4	49
20231026 1020	1.1	356
20231026 1030	0.1	320
20231026 1040	0.1	171
20231026 1050	0.4	51
20231026 1100	0.1	277
20231026 1110	0.4	51
20231026 1120	0.1	44
20231026 1130	0.1	262
20231026 1140	0.1	48
20231026 1150	0.1	238

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231026 1200	0.1	40
20231026 1210	0.1	177
20231026 1220	0.9	173
20231026 1230	1.1	5
20231026 1240	0.5	348
20231026 1250	0.1	8
20231026 1300	0.4	36
20231026 1310	0.1	3
20231026 1320	0.1	78
20231026 1330	0.2	62
20231026 1340	0.1	339
20231026 1350	0.1	154
20231026 1400	0.1	154
20231026 1410	0.1	313
20231026 1420	0.4	71
20231026 1430	0.4	114
20231026 1440	4.5	7
20231026 1450	3.3	78
20231026 1500	0.1	315
20231026 1510	0.1	354
20231026 1520	0.1	19
20231026 1530	2.4	100
20231026 1540	1.6	13
20231026 1550	0.5	145
20231026 1600	1.3	93
20231026 1610	0.7	124
20231026 1620	0.1	88
20231026 1630	0.1	64
20231026 1640	0.4	133
20231026 1650	0.4	166
20231026 1700	0.1	318
20231026 1710	0.1	113
20231026 1720	0.1	106
20231026 1730	0.1	110
20231026 1740	0.1	110
20231026 1750	1.3	109
20231026 1800	0.1	103
20231026 1810	0.1	120
20231026 1820	0.1	204
20231026 1830	1.1	344
20231026 1840	0.2	82
20231026 1850	0.2	140
20231026 1900	0.1	90
20231026 1910	0.1	122
20231026 1920	0.1	253
20231026 1930	0.1	318
20231026 1940	0.1	176
20231026 1950	0.1	232
20231026 2000	0.1	154
20231026 2010	0.1	180
20231026 2020	0.1	350
20231026 2030	0.1	317
20231026 2040	0.1	353
20231026 2050	0.1	335
20231026 2100	0.1	305
20231026 2110	0.1	42
20231026 2120	0.1	135
20231026 2130	0.1	19
20231026 2140	0.1	115
20231026 2150	0.1	350
20231026 2200	0.1	68
20231026 2210	0.1	198
20231026 2220	0.1	124
20231026 2230	0.1	94
20231026 2240	0.1	347
20231026 2250	0.1	108
20231026 2300	0.1	51
20231026 2310	0.1	52
20231026 2320	0.1	79
20231026 2330	0.1	140
20231026 2340	0.9	171
20231026 2350	0.1	127

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231027 0000	0.1	191
20231027 0010	0.1	165
20231027 0020	0.1	200
20231027 0030	0.1	73
20231027 0040	0.1	53
20231027 0050	0.1	49
20231027 0100	0.1	41
20231027 0110	0.1	45
20231027 0120	0.1	52
20231027 0130	0.1	101
20231027 0140	0.1	82
20231027 0150	0.1	114
20231027 0200	0.1	52
20231027 0210	0.1	19
20231027 0220	0.1	25
20231027 0230	0.1	333
20231027 0240	0.1	14
20231027 0250	0.1	54
20231027 0300	0.1	150
20231027 0310	0.1	36
20231027 0320	0.1	60
20231027 0330	0.1	347
20231027 0340	0.1	268
20231027 0350	0.1	221
20231027 0400	0.1	83
20231027 0410	0.1	61
20231027 0420	0.1	17
20231027 0430	0.1	52
20231027 0440	0.1	104
20231027 0450	0.1	57
20231027 0500	0.3	41
20231027 0510	0.1	165
20231027 0520	0.1	82
20231027 0530	0.1	66
20231027 0540	0.1	29
20231027 0550	0.1	32
20231027 0600	0.1	4
20231027 0610	0.1	11
20231027 0620	0.1	331
20231027 0630	0.1	42
20231027 0640	0.1	13
20231027 0650	0.1	83
20231027 0700	0.4	107
20231027 0710	0.1	346
20231027 0720	0.1	15
20231027 0730	0.4	123
20231027 0740	0.1	33
20231027 0750	0.1	284
20231027 0800	0.1	103
20231027 0810	0.1	214
20231027 0820	0.6	79
20231027 0830	0.2	9
20231027 0840	0.1	134
20231027 0850	2.3	112
20231027 0900	0.1	61
20231027 0910	0.1	87
20231027 0920	1	354
20231027 0930	0.3	87
20231027 0940	0.1	5
20231027 0950	0.1	36
20231027 1000	0.1	32
20231027 1010	0.1	50
20231027 1020	0.1	33
20231027 1030	0.1	75
20231027 1040	0.6	119
20231027 1050	1.8	326
20231027 1100	1.4	48
20231027 1110	0.1	271
20231027 1120	0.1	355
20231027 1130	0.2	85
20231027 1140	0.1	27
20231027 1150	0.1	270

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231027 1200	1	31
20231027 1210	0.9	97
20231027 1220	1.8	113
20231027 1230	0.1	119
20231027 1240	0.8	170
20231027 1250	0.3	152
20231027 1300	0.7	82
20231027 1310	0.1	28
20231027 1320	0.5	49
20231027 1330	0.6	58
20231027 1340	1.7	4
20231027 1350	0.8	8
20231027 1400	0.6	31
20231027 1410	1	28
20231027 1420	0.3	19
20231027 1430	0.1	59
20231027 1440	0.1	3
20231027 1450	2.3	169
20231027 1500	5.5	101
20231027 1510	2.7	122
20231027 1520	0.1	56
20231027 1530	0.5	100
20231027 1540	0.8	145
20231027 1550	0.4	101
20231027 1600	0.1	46
20231027 1610	0.1	138
20231027 1620	0.3	108
20231027 1630	0.2	90
20231027 1640	0.5	147
20231027 1650	0.1	148
20231027 1700	0.1	64
20231027 1710	0.1	163
20231027 1720	0.2	185
20231027 1730	0.1	189
20231027 1740	0.7	117
20231027 1750	0.3	145
20231027 1800	0.1	25
20231027 1810	0.1	72
20231027 1820	0.1	46
20231027 1830	1	38
20231027 1840	0.4	132
20231027 1850	0.1	105
20231027 1900	0.1	146
20231027 1910	0.1	9
20231027 1920	0.1	155
20231027 1930	0.1	65
20231027 1940	0.1	317
20231027 1950	0.4	44
20231027 2000	0.8	353
20231027 2010	0.1	91
20231027 2020	0.1	59
20231027 2030	1.3	308
20231027 2040	0.9	342
20231027 2050	0.1	321
20231027 2100	0.3	51
20231027 2110	0.9	336
20231027 2120	1	34
20231027 2130	0.2	108
20231027 2140	0.1	332
20231027 2150	0.1	53
20231027 2200	0.8	343
20231027 2210	0.1	46
20231027 2220	0.1	108
20231027 2230	0.1	323
20231027 2240	0.3	53
20231027 2250	0.1	17
20231027 2300	0.2	15
20231027 2310	0.2	76
20231027 2320	0.3	35
20231027 2330	0.1	101
20231027 2340	4.1	112
20231027 2350	0.1	43

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231028 0000	0.1	75
20231028 0010	0.1	282
20231028 0020	0.8	20
20231028 0030	0.1	332
20231028 0040	1.2	27
20231028 0050	0.1	31
20231028 0100	0.1	180
20231028 0110	0.1	60
20231028 0120	0.1	330
20231028 0130	0.1	123
20231028 0140	0.3	333
20231028 0150	0.1	16
20231028 0200	0.3	60
20231028 0210	0.1	116
20231028 0220	0.5	104
20231028 0230	0.1	329
20231028 0240	0.1	54
20231028 0250	0.1	74
20231028 0300	0.5	119
20231028 0310	0.1	34
20231028 0320	0.1	13
20231028 0330	0.1	348
20231028 0340	0.1	0
20231028 0350	0.1	133
20231028 0400	0.1	16
20231028 0410	0.1	168
20231028 0420	0.2	242
20231028 0430	0.1	5
20231028 0440	0.1	66
20231028 0450	0.1	310
20231028 0500	0.1	284
20231028 0510	0.1	98
20231028 0520	0.1	99
20231028 0530	0.1	71
20231028 0540	0.1	47
20231028 0550	0.1	70
20231028 0600	0.1	298
20231028 0610	0.1	4
20231028 0620	0.1	213
20231028 0630	0.1	79
20231028 0640	0.1	126
20231028 0650	0.5	338
20231028 0700	0.1	332
20231028 0710	1.9	54
20231028 0720	0.1	333
20231028 0730	0.1	62
20231028 0740	0.1	77
20231028 0750	0.1	344
20231028 0800	0.1	341
20231028 0810	0.1	119
20231028 0820	0.1	354
20231028 0830	0.1	83
20231028 0840	0.5	326
20231028 0850	0.2	312
20231028 0900	0.1	2
20231028 0910	0.1	1
20231028 0920	0.1	54
20231028 0930	0.1	53
20231028 0940	0.1	12
20231028 0950	0.2	298
20231028 1000	0.2	282
20231028 1010	0.1	19
20231028 1020	0.1	314
20231028 1030	0.1	215
20231028 1040	0.1	189
20231028 1050	0.4	14
20231028 1100	0.1	62
20231028 1110	0.1	316
20231028 1120	0.1	157
20231028 1130	0.1	331
20231028 1140	0.6	0
20231028 1150	0.2	37

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231028 1200	0.1	323
20231028 1210	0.2	64
20231028 1220	1.5	345
20231028 1230	1.8	339
20231028 1240	2.1	353
20231028 1250	0.1	270
20231028 1300	1.7	8
20231028 1310	0.2	136
20231028 1320	1.4	66
20231028 1330	0.1	313
20231028 1340	0.6	11
20231028 1350	0.1	68
20231028 1400	0.1	29
20231028 1410	0.1	133
20231028 1420	0.1	64
20231028 1430	0.1	68
20231028 1440	0.3	148
20231028 1450	2.1	138
20231028 1500	0.3	102
20231028 1510	0.1	153
20231028 1520	0.1	24
20231028 1530	0.1	281
20231028 1540	0.2	135
20231028 1550	1.1	90
20231028 1600	6.8	182
20231028 1610	0.8	125
20231028 1620	0.1	45
20231028 1630	0.9	99
20231028 1640	0.6	192
20231028 1650	0.3	61
20231028 1700	0.1	114
20231028 1710	0.2	170
20231028 1720	0.7	105
20231028 1730	0.1	124
20231028 1740	0.1	173
20231028 1750	0.1	1
20231028 1800	0.4	53
20231028 1810	0.1	122
20231028 1820	0.1	85
20231028 1830	0.1	39
20231028 1840	0.2	158
20231028 1850	0.1	114
20231028 1900	0.1	48
20231028 1910	0.1	134
20231028 1920	0.1	157
20231028 1930	0.1	101
20231028 1940	0.1	43
20231028 1950	0.1	135
20231028 2000	0.6	109
20231028 2010	0.2	114
20231028 2020	0.8	3
20231028 2030	3.7	114
20231028 2040	0.1	149
20231028 2050	0.7	36
20231028 2100	0.1	96
20231028 2110	0.1	114
20231028 2120	0.1	147
20231028 2130	0.1	99
20231028 2140	0.1	59
20231028 2150	0.1	45
20231028 2200	1.1	134
20231028 2210	0.4	346
20231028 2220	0.1	75
20231028 2230	0.5	127
20231028 2240	2.8	353
20231028 2250	1.9	13
20231028 2300	0.1	135
20231028 2310	0.1	281
20231028 2320	0.1	162
20231028 2330	0.1	74
20231028 2340	0.2	25
20231028 2350	0.1	21

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231029 0000	0.1	115
20231029 0010	0.1	105
20231029 0020	0.1	96
20231029 0030	0.1	152
20231029 0040	0.3	63
20231029 0050	0.3	22
20231029 0100	0.1	9
20231029 0110	0.1	23
20231029 0120	0.1	59
20231029 0130	1.7	11
20231029 0140	0.1	56
20231029 0150	0.1	143
20231029 0200	0.1	49
20231029 0210	0.1	16
20231029 0220	0.1	86
20231029 0230	0.1	15
20231029 0240	0.1	264
20231029 0250	0.2	92
20231029 0300	4	335
20231029 0310	0.1	53
20231029 0320	0.1	116
20231029 0330	0.1	344
20231029 0340	0.1	40
20231029 0350	0.5	92
20231029 0400	0.1	2
20231029 0410	0.1	189
20231029 0420	0.1	178
20231029 0430	0.1	95
20231029 0440	0.1	219
20231029 0450	0.5	27
20231029 0500	0.1	77
20231029 0510	3.6	17
20231029 0520	0.1	128
20231029 0530	0.1	180
20231029 0540	0.1	161
20231029 0550	0.1	20
20231029 0600	0.5	9
20231029 0610	0.2	304
20231029 0620	0.2	336
20231029 0630	0.1	186
20231029 0640	0.2	169
20231029 0650	0.1	249
20231029 0700	0.1	183
20231029 0710	0.2	190
20231029 0720	0.1	349
20231029 0730	0.1	321
20231029 0740	0.1	265
20231029 0750	1.7	7
20231029 0800	0.1	18
20231029 0810	0.1	134
20231029 0820	0.3	88
20231029 0830	0.1	37
20231029 0840	0.6	41
20231029 0850	0.8	341
20231029 0900	0.1	317
20231029 0910	0.1	326
20231029 0920	0.1	301
20231029 0930	1	313
20231029 0940	0.2	49
20231029 0950	0.1	23
20231029 1000	0.4	23
20231029 1010	0.5	14
20231029 1020	0.2	104
20231029 1030	0.1	74
20231029 1040	0.1	152
20231029 1050	0.1	48
20231029 1100	0.1	65
20231029 1110	0.1	55
20231029 1120	0.3	340
20231029 1130	1	122
20231029 1140	0.1	25
20231029 1150	0.6	-1

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231029 1200	0.3	125
20231029 1210	0.1	150
20231029 1220	0.1	227
20231029 1230	0.1	18
20231029 1240	0.1	36
20231029 1250	0.1	103
20231029 1300	0.1	342
20231029 1310	0.1	245
20231029 1320	0.1	27
20231029 1330	3.1	162
20231029 1340	0.1	122
20231029 1350	0.4	51
20231029 1400	0.1	336
20231029 1410	0.1	77
20231029 1420	0.7	130
20231029 1430	0.1	120
20231029 1440	0.2	110
20231029 1450	0.1	109
20231029 1500	0.1	154
20231029 1510	0.1	250
20231029 1520	0.2	73
20231029 1530	0.1	184
20231029 1540	0.1	46
20231029 1550	0.2	109
20231029 1600	0.1	56
20231029 1610	0.1	297
20231029 1620	0.1	79
20231029 1630	0.1	93
20231029 1640	0.1	109
20231029 1650	0.1	91
20231029 1700	0.1	333
20231029 1710	0.1	105
20231029 1720	0.1	130
20231029 1730	0.1	115
20231029 1740	0.1	74
20231029 1750	0.1	184
20231029 1800	0.1	351
20231029 1810	0.1	148
20231029 1820	0.1	116
20231029 1830	0.1	88
20231029 1840	0.1	53
20231029 1850	0.1	100
20231029 1900	0.1	140
20231029 1910	0.4	322
20231029 1920	0.1	322
20231029 1930	0.1	124
20231029 1940	3.5	154
20231029 1950	0.1	93
20231029 2000	0.1	18
20231029 2010	0.1	132
20231029 2020	0.1	107
20231029 2030	0.1	238
20231029 2040	0.1	339
20231029 2050	0.1	146
20231029 2100	0.1	16
20231029 2110	0.1	86
20231029 2120	0.1	138
20231029 2130	0.1	329
20231029 2140	0.1	61
20231029 2150	0.1	11
20231029 2200	0.1	12
20231029 2210	0.1	122
20231029 2220	0.1	122
20231029 2230	0.1	264
20231029 2240	0.1	262
20231029 2250	0.1	104
20231029 2300	0.1	175
20231029 2310	0.1	84
20231029 2320	0.1	40
20231029 2330	0.1	1
20231029 2340	0.1	160
20231029 2350	0.1	107

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231030 0000	0.3	141
20231030 0010	0.1	185
20231030 0020	0.1	253
20231030 0030	0.1	15
20231030 0040	0.1	349
20231030 0050	0.1	4
20231030 0100	0.1	186
20231030 0110	0.1	225
20231030 0120	0.1	294
20231030 0130	0.1	124
20231030 0140	0.1	346
20231030 0150	0.1	13
20231030 0200	0.1	63
20231030 0210	0.1	20
20231030 0220	0.1	148
20231030 0230	0.1	76
20231030 0240	0.1	145
20231030 0250	0.1	64
20231030 0300	0.1	162
20231030 0310	0.1	201
20231030 0320	0.1	6
20231030 0330	0.1	100
20231030 0340	0.1	3
20231030 0350	0.1	50
20231030 0400	0.1	67
20231030 0410	0.1	296
20231030 0420	0.1	91
20231030 0430	0.1	79
20231030 0440	0.1	8
20231030 0450	0.1	59
20231030 0500	0.1	221
20231030 0510	0.1	0
20231030 0520	0.1	179
20231030 0530	0.1	233
20231030 0540	0.1	108
20231030 0550	0.1	95
20231030 0600	0.1	80
20231030 0610	0.1	80
20231030 0620	0.1	80
20231030 0630	0.1	33
20231030 0640	0.1	86
20231030 0650	0.1	331
20231030 0700	0.1	94
20231030 0710	0.1	114
20231030 0720	0.1	186
20231030 0730	0.1	349
20231030 0740	0.1	336
20231030 0750	0.1	24
20231030 0800	0.1	179
20231030 0810	0.1	41
20231030 0820	0.3	317
20231030 0830	0.1	276
20231030 0840	0.1	4
20231030 0850	0.1	117
20231030 0900	0.1	100
20231030 0910	0.1	140
20231030 0920	0.1	88
20231030 0930	1.4	208
20231030 0940	0.1	99
20231030 0950	0.1	209
20231030 1000	0.1	278
20231030 1010	0.1	210
20231030 1020	0.1	232
20231030 1030	0.1	334
20231030 1040	0.5	102
20231030 1050	0.4	-1
20231030 1100	0.1	203
20231030 1110	0.1	29
20231030 1120	0.1	75
20231030 1130	0.1	105
20231030 1140	0.1	186
20231030 1150	0.8	310

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231030 1200	0.1	26
20231030 1210	0.1	105
20231030 1220	0.1	75
20231030 1230	0.1	177
20231030 1240	0.1	306
20231030 1250	0.4	43
20231030 1300	0.1	34
20231030 1310	0.2	74
20231030 1320	0.1	98
20231030 1330	0.1	335
20231030 1340	0.1	103
20231030 1350	0.1	26
20231030 1400	0.9	330
20231030 1410	0.1	323
20231030 1420	0.1	113
20231030 1430	1	28
20231030 1440	0.1	110
20231030 1450	2.4	303
20231030 1500	0.1	124
20231030 1510	0.1	14
20231030 1520	0.2	32
20231030 1530	0.1	92
20231030 1540	0.1	288
20231030 1550	0.5	44
20231030 1600	0.8	288
20231030 1610	0.2	53
20231030 1620	0.1	18
20231030 1630	0.1	23
20231030 1640	0.1	343
20231030 1650	0.1	208
20231030 1700	0.1	70
20231030 1710	0.1	104
20231030 1720	0.1	324
20231030 1730	0.1	61
20231030 1740	0.1	40
20231030 1750	0.1	8
20231030 1800	0.1	346
20231030 1810	0.1	354
20231030 1820	0.1	79
20231030 1830	0.1	67
20231030 1840	0.6	32
20231030 1850	0.1	344
20231030 1900	0.1	70
20231030 1910	0.1	75
20231030 1920	0.1	62
20231030 1930	0.1	92
20231030 1940	0.1	144
20231030 1950	0.1	298
20231030 2000	0.9	73
20231030 2010	0.1	41
20231030 2020	0.3	108
20231030 2030	0.1	124
20231030 2040	0.1	39
20231030 2050	0.1	51
20231030 2100	0.1	53
20231030 2110	0.1	85
20231030 2120	0.1	58
20231030 2130	0.1	53
20231030 2140	0.1	70
20231030 2150	0.1	8
20231030 2200	0.1	60
20231030 2210	0.1	40
20231030 2220	0.1	43
20231030 2230	0.1	105
20231030 2240	0.1	60
20231030 2250	0.1	62
20231030 2300	0.1	329
20231030 2310	0.1	79
20231030 2320	0.1	130
20231030 2330	0.1	331
20231030 2340	0.1	64
20231030 2350	0.1	99

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231031 0000	0.1	342
20231031 0010	0.1	10
20231031 0020	0.1	4
20231031 0030	0.1	57
20231031 0040	0.1	14
20231031 0050	0.1	352
20231031 0100	0.1	9
20231031 0110	0.1	32
20231031 0120	0.1	46
20231031 0130	0.1	45
20231031 0140	0.1	72
20231031 0150	0.1	77
20231031 0200	0.1	347
20231031 0210	0.1	347
20231031 0220	0.1	350
20231031 0230	0.1	57
20231031 0240	0.1	84
20231031 0250	0.1	0
20231031 0300	0.1	61
20231031 0310	0.1	79
20231031 0320	0.1	107
20231031 0330	0.1	119
20231031 0340	0.1	84
20231031 0350	0.1	150
20231031 0400	0.1	194
20231031 0410	0.3	166
20231031 0420	0.1	144
20231031 0430	0.1	180
20231031 0440	0.1	171
20231031 0450	0.1	140
20231031 0500	0.1	317
20231031 0510	0.1	176
20231031 0520	0.1	181
20231031 0530	0.1	146
20231031 0540	0.1	232
20231031 0550	0.1	240
20231031 0600	0.1	160
20231031 0610	0.1	134
20231031 0620	0.1	91
20231031 0630	0.1	58
20231031 0640	0.1	35
20231031 0650	0.1	39
20231031 0700	0.1	26
20231031 0710	0.1	32
20231031 0720	0.1	334
20231031 0730	0.1	7
20231031 0740	0.1	49
20231031 0750	0.1	77
20231031 0800	0.1	168
20231031 0810	0.1	99
20231031 0820	0.1	123
20231031 0830	0.1	114
20231031 0840	0.1	178
20231031 0850	0.1	62
20231031 0900	0.1	125
20231031 0910	0.1	121
20231031 0920	0.1	203
20231031 0930	0.1	241
20231031 0940	0.7	169
20231031 0950	0.1	216
20231031 1000	0.1	348
20231031 1010	0.1	245
20231031 1020	0.1	351
20231031 1030	0.1	339
20231031 1040	0.1	140
20231031 1050	0.1	92
20231031 1100	0.1	330
20231031 1110	0.1	5
20231031 1120	0.5	122
20231031 1130	0.2	227
20231031 1140	0.1	15
20231031 1150	0.1	146

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231031 1200	0.1	83
20231031 1210	0.1	107
20231031 1220	0.2	152
20231031 1230	0.1	154
20231031 1240	0.1	115
20231031 1250	0.2	109
20231031 1300	1.3	106
20231031 1310	0.1	32
20231031 1320	0.5	348
20231031 1330	0.1	227
20231031 1340	0.1	174
20231031 1350	0.1	281
20231031 1400	0.1	144
20231031 1410	0.1	344
20231031 1420	0.4	137
20231031 1430	1.1	192
20231031 1440	1.1	111
20231031 1450	1.8	69
20231031 1500	1.4	197
20231031 1510	0.1	7
20231031 1520	0.2	347
20231031 1530	0.2	116
20231031 1540	1.6	115
20231031 1550	0.1	337
20231031 1600	0.1	88
20231031 1610	0.1	337
20231031 1620	0.2	130
20231031 1630	0.2	348
20231031 1640	0.1	346
20231031 1650	0.9	142
20231031 1700	0.1	261
20231031 1710	0.1	85
20231031 1720	0.2	284
20231031 1730	0.1	105
20231031 1740	0.1	297
20231031 1750	0.1	61
20231031 1800	0.1	348
20231031 1810	0.2	264
20231031 1820	0.1	223
20231031 1830	0.1	45
20231031 1840	0.6	282
20231031 1850	1.6	282
20231031 1900	0.1	287
20231031 1910	0.3	6
20231031 1920	0.1	122
20231031 1930	0.1	143
20231031 1940	0.1	129
20231031 1950	0.1	344
20231031 2000	0.4	306
20231031 2010	0.1	96
20231031 2020	0.1	221
20231031 2030	0.2	49
20231031 2040	0.1	111
20231031 2050	0.1	119
20231031 2100	0.1	36
20231031 2110	0.1	131
20231031 2120	0.1	192
20231031 2130	0.3	90
20231031 2140	0.6	154
20231031 2150	0.1	121
20231031 2200	0.1	93
20231031 2210	0.2	49
20231031 2220	0.4	70
20231031 2230	0.1	77
20231031 2240	0.1	33
20231031 2250	0.1	82
20231031 2300	0.1	90
20231031 2310	0.1	101
20231031 2320	0.1	320
20231031 2330	0.1	112
20231031 2340	0.1	133
20231031 2350	0.1	84

Appendix I 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	55,549.12	0	0	55,405	0	0	0	0	0	0	0	28.05	116.07
Total	225,677.21	0.00	0.00	223,396.37	0.00	0.00	0.00	0.00	0.00	22.69	0.00	162.49	2,095.66

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 J Joint Environmental Site Inspection Records

Inspection Date:	3 October 2023	Inspected By:	Andy Ng
Time:	14:00	Weather Condition:	Sunny
Participants:	Kim Tang (ER), Matt Choy (Contractor), Andy Ng (ET)		

A	Permits/Licenses	N/A or Not Observed	Yes	No	Remarks / Photo
A1	Are Environmental Permit, license/ other permit displayed at major site exit and vehicle access?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A2	Are Construction Noise Permits/ Environmental license/ other permit available for inspection/posted at site entrance.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A3	Is wastewater discharge licence available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A4	Are trip tickets for chemical waste and construction waste disposal available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A5	Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

B	Air Quality	N/A or Not Observed	Yes	No	Remarks / Photo
B1	Is open burning avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B2	Are plant and equipment well maintained (i.e. without black smoke from powered plant)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B3	Any remedial action undertaken?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B4	Are the worksites wetted with water regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 4 Sep 2023 Observation 2 Refer to 25 Sep 2023 Observation 1
B5	Are NRMM labels properly affixed on the PMEs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 28 Aug 2023 Observation 2
B6	Observed dust source(s)	<input checked="" type="checkbox"/> Wind erosion <input checked="" type="checkbox"/> Vehicle/ Equipment Movements <input checked="" type="checkbox"/> Loading/ unloading of materials <input type="checkbox"/> Others: _____			

Air Pollution Control (Construction Dust) Regulation

Part I Control Requirements for Notifiable Works

Demolition of building

B7	Is the area involved demolition activities sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
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Construction of the superstructure of a building

B8	Is scaffolding erected around the perimeter of a building under construction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B9	Are effective dust screens, sheeting or netting provided to enclose the scaffolding from the ground floor level of the building, or a canopy provided from the first floor level up to the highest level of the scaffolding?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B10	Is the skip for materials transport enclosed by impervious sheeting ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Part III General Control Requirements					
Site boundary and entrance					
B11	Are wheel washing facilities with high pressure water jet provided at all site exits if practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B12	Are the areas of washing facilities and the road section between the washing facilities and the exit point paved with concrete, bituminous materials or hardcore?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 18 Sep 2023 Observation 3
B13	Are the hoarding $\geq 2.4\text{m}$ tall provided at the site boundary near a road, street, service lane or other area accessible to the public?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Assess road					
B14	Are every main haul road (having a vehicle passing rate of higher than 4 in any 30 minutes) paved with concrete, bituminous materials, hardcore or metal plates, and kept clear of dusty materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B15	Are every main haul road sprayed with water or a dust suppression chemical?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B16	Is the portion of any road leading only to construction site (within 30m of a vehicle entrance or exit) kept clear of dusty materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B17	Are appropriate speed limit sign displayed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B18	Is unpaved main haul road wet by water spraying?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 4 Sep 2023 Observation 2 Refer to 25 Sep 2023 Observation 1
Cement and dry pulverized fuel ash (PFA)					
B19	Is every stock of more than 20 bags of cement or dry pulverized fuel ash (PFA) covered entirely by impervious sheeting or placed in an area sheltered on the top and 3 sides?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B20	Are the activities of loading, unloading, transfer, handing or storage of bulk cement or dry PFA carried out in a totally enclosed system or facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B21	Is any vent or exhaust fitted with an effective fabric filter or equipment air pollution control system ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Exposed earth					
B22	Is the exposed earth properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

	within 6 months after last construction activity on the construction site or part of the construction site where the exposed earth lies?				
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Part IV Control Requirements for Individual Activities					
Stockpiling of dusty materials					
B23	Are the stockpiling of dusty materials (a) covered entirely by impervious sheeting or (b) placed in an area sheltered on the top and the 3 sides or (c) sprayed with water or a dust suppression chemical to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 28 Aug 2023 Observation 5
B24	Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Loading, unloading or transfer of dusty materials					
B25	Are all dusty materials sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B26	Are all trucks loaded to a level within the side and tail boards?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Use of vehicles					
B27	Are every vehicle washed immediately to remove any dusty materials from its body and wheels before leaving a construction site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B28	Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B29	Are site vehicle movements confined to designated roads?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pneumatic or power-driven drilling, cutting and polishing					
B30	Are surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operations takes place sprayed with water or a dust suppression chemical continuously? *Unless the process is accompanied by the operation of an effective dust extraction and filtering device.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Debris handling					
B31	Are any debris covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the 3 sides?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B32	Are every debris chute shall be enclosed by impervious sheeting or similar materials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

B33	Are the watering spray or a dust suppression chemical conducted before debris is dumped into a debris chute?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
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Excavation or earth moving					
B34	Are the working area of any excavation or earth moving operation sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Site clearance					
B35	Are the working area for the uprooting of trees, shrubs, or vegetation or for the removal of boulders, poles, pillars or temporary or permanent structures sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B36	Are all demolished items (including trees, shrubs, vegetation, boulders, poles, pillars, structures, debris, rubbish and other items arising from site clearance) that may dislodge dust particles covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides within a day of demolition?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 18 Sep 2023 Observation 1

C	Construction Noise	N/A or Not Observed	Yes	No	Remarks / Photo
C1	Is well-maintained plant operated on-site and plant served regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C2	Are vehicles and equipment switched off or throttled down while not in use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C3	Is the noise directed away from nearby NSRs ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C4	Are the silencers or mufflers properly fitted on construction equipment and maintained regularly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
C5	Are mobile and/or noisy plant sited as far away from NSRs as possible and practicable and orientated so that the noise is directed away from nearby NSRs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C6	Are material stockpiles , mobile container office and other structures utilised to screen noisy activities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C7	Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
C8	Are noise barriers (typically density @14kg/m ²) acoustic mat or full enclosure close to noise plants including air compressor, generators and saw etc. provided to protect NSRs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
C9	Is the sequencing operation of construction plants where practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C10	Is the hoarding maintained properly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C11	Air compressors (500 kPa or above) and hand held percussive breaker (mass of above 10 kg) with valid noise labels?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C12	Are compressor operated with doors closed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C13	QPME used with valid noise labels?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C14	Major noise source(s)	<input checked="" type="checkbox"/> Traffic <input checked="" type="checkbox"/> Construction activities inside of site <input type="checkbox"/> Construction activities outside of site <input type="checkbox"/> Others: _____			

D	Water Quality	N/A or Not Observed	Yes	No	Remarks / Photo
Construction Runoff					
D1a	At the start of site establishment, are perimeter cut-off drains constructed to direct off-site water around the site with internal drainage works and erosion and sedimentation control facilities implemented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D1b	Are channels, earth bunds or sandbag barriers provided on site to properly direct stormwater to silt removal facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 24 Jul 2023 Observation 2 Refer to 31 Jul 2023 Observation 1 Refer to 21 August 2023 Observation 1 Refer to 28 Aug 2023 Observation 7
D2a	Have dikes or embankments for flood protection implemented around the boundaries of earthwork areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D2b	Have temporary ditches provided to facilitate the runoff discharge into an appropriate watercourse, through a site/ sediment trap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 31 Jul 2023 Observation 1
D2c	Are the sediment/ silt traps incorporated in the permanent drainage channels to enhance deposition rate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D3	Are the retention time for silt/s and traps of the silt removal facilities be 5 minutes under maximum flow conditions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 18 Sep 2023 Observation 6
D4a	Are surface excavation works minimised during rainy seasons (April to September), as possible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D4b	Are all exposed earth areas completed or vegetated as soon as possible after earthworks completed, or alternatively, within 14 days of the cessation of earthworks where practicable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D4c	Are exposed slope surfaces covered by tarpaulin sheets?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Shotcrete in progress. Refer to 10 Jul 2023 Observation 5 Refer to 28 Aug 2023 Observation 1 Refer to 4 Sep 2023 Observation 3
D5a	Have the overall slope of the site should be kept a minimum?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D5b	Are all trafficked areas and access roads protected by coarse stone ballast?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D6a	Are all drainage facilities and erosion and sediment control structures inspected regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

D6b	Are all drainage facilities and erosion and sediment control structures maintained to ensure proper and efficient operation at all times and particularly following rainstorms?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D6c	Is the deposited silt and grit removed regularly and disposed of by spreading evenly over stable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 28 Aug 2023 Observation 6
D7a	Have the excavation of trenches in wet periods be dug and backfilled in short sections?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D7b	Is rainwater pumped out from trenches discharged into storm drains via silt system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D8	Are open stockpiles of construction materials e.g. aggregates and sand of more than 50m ³ on site covered with tarpaulin or similar fabric during rainstorms?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D9a	Are manholes adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D9b	Are the discharges of surface run-off into foul sewer always prevented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D10a	Are particular attention paid to the control of silty surface runoff during storm event ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 28 Aug 2023 Observation 3, 6 & 7
D10b	Are the precautions to be taken at any time of year when rainstorms are likely? (Appendix A2 of ProPECC PN 1/94) i. Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly. ii. Temporarily exposed slope surfaces should be cover by tarpaulin. iii. Temporary access roads should be protected by crushed stone or gravel. iv. Intercepting channels should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. v. Trenches should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 28 Aug 2023 Observation 3, 6 & 7 Refer to 25 Sep 2023 Observation 3 and 4 Refer to Observation 2,3
D10c	Are the actions to be taken when a rainstorm is imminent or forecast ? (Appendix A2 of ProPECC PN 1/94) i. Silt removal facilities, channels and manholes should be checked to ensure that they can function properly. ii. Open stockpiles of construction materials (e.g. aggregates, sand and fill materials) on site should be covered with tarpaulin or similar fabric. iii. All temporary covers to slopes and stockpiles should be secured.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 28 Aug 2023 Observation 3, 6 & 7 Refer to 11 Sep 2023 Observation 2
D10d	Are the actions to be taken during or after rainstorms ? (Appendix A2 of ProPECC PN 1/94) i. Silt removal facilities, channels and manholes should be checked and maintained to ensure satisfactory working conditions. Attention should be given to safety when carrying out this work.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

D11a	Are all vehicles and plant cleaned before leaving a construction site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11b	Is the wheel washing bay provided at every site exit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11c	Are the vehicle wash-water have sand and silt settled out and removed at least on a weekly basis?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11d	Is the wheel wash overflow directed to silt removal facilities before being discharged to the storm drain?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D11e	Is the section of construction road between the wheel washing bay and the public road paved with backfill?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11f	Is the treated wastewater reused for vehicle washing, dust suppression and general cleaning ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D12a	Are oil interceptors provided in the site drainage system downstream of any oil/ fuel pollution sources?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D12b	Are the oil interceptors are emptied and cleaned regularly to prevent the release of O&G into the storm water drainage system after accidental spillage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D12c	Has a bypass provided to prevent flushing during heavy rain?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D13	Are the construction solid waste, debris and rubbish on site collected, handled and disposed of properly? (same with waste item)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D14	Are all fuel tanks and storage areas provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D15	Is intercepting bund or barrier along the roadside constructed to prevent pollution risk arising from work area (waste reception area)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D16	Are site drainage systems provided over the entire project site with sediment control facilities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D17	Are sedimentation tanks provided to treat the large amount of sediment-laden wastewater generated from wheel washing, site runoff and construction works?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D18	Is there any sediment plume observed in nearby watercourses?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sewage Effluent from Workforce (On-site sanitary facilities)					
D19a	Are portable chemical toilets and sewage holding tanks provided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D19b	Is the sewage generated from toilets collected by licensed contractor and responsible for disposal and maintenance?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D20	Are the notices posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
Accidental Spillage of Chemical (Service workshop and maintenance facilities)					
D21a	Are the service workshop and maintenance facilities located within a bunded area, and sumps and oil interceptors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D21b	Are all maintenance of equipment involving activities with potential for leakage and spillage undertaken within the areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O

D21c	Is chemical leakage or spillages contained and cleaned up immediately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
Surface Water Drainage System					
D22a	Is the temporary surface water drainage system provided to manage runoff?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D22b	Does the system consist of channel as constructed around the perimeter of the site area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D22c	Does the system collect surface water from the areas of higher elevations to those of lower elevations and ultimately to the discharge point?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D22d	Is the erosion minimised?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D23a	Does the system include the use of a silt fence around the soil stockpile areas to prevent sediment from entering the system?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 11 Sep 2023 Observation 3
D23b	Is the regular cleaning carried out to prevent blockage of the passage of waste flow in silt fence?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

E	Waste / Chemical Management	N/A or Not Observed	Yes	No	Remarks / Photo
Waste Management					
General Waste					
E1	Is the general waste generated on-site stored in enclosed bins or compaction units separately from the construction and chemical wastes?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 18 Sep 2023 Observation 4
E2a	Is the general waste collected properly by using the waste separation facilities for paper, aluminium cans, plastic bottles etc.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E2b	Does accumulation of waste avoid?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 4 Sep 2023 Observation 1
E2c	Is waste disposed regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 4 Sep 2023 Observation 1
E2d	Regular waste collection by approved waste collector in purpose-built vehicles?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E3	Burning of refuse on construction site prohibited?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C&D Materials					
E4a	Are there any contract documents provided to allow and promote the use of recycled aggregates where appropriate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E4b	Are the C&D materials sorted and recycled on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E5a	Is the durable formwork or plastic facing for construction works used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E5b	Do the wooden hoardings avoid to be used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E5c	Is metal hoarding used to enhance the possibility of recycling?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6a	Are the concrete and masonry used as general fill ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6b	Are the steel reinforcement bars used by scrap steel mills?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6c	Is the segregation and storage of C&D wastes undertaken in designated area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6d	Does the use of reusable steel formwork maximise?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E7a	Are the temporary stockpiles maintained regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E7b	Is the excavated fill material reused for backfilling and reinstatement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E8a	Are the excavated slope , stockpile material and bund walls covered by tarpaulin?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 10 Jul 2023 Observation 5
E8b	Are covering trucks or transporting wastes in enclosed containers when transportation of waste ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E8c	Are waste storage area properly cleaned and do not cause windblown litter and dust nuisance?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E9	Is hydroseeding of the topsoil on the stockpile implemented to improve visual appearance and prevent soil erosion?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E10	Is the 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 implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

E11	Are the training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concept implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E12	Are the regular cleaning and maintenance programme for drainage systems, sumps, oil interceptors?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
E13a	Are wood, steel and other metals separated for re-use and/or recycling?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E13b	Do the excavated materials appear contaminated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
E13c	If suspected contaminated, appropriate procedures followed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A								
E14	Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E15	Are the public fill and C&D waste segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
Chemical Waste / Waste Oil													
E16	Are chemicals and waste oil recycled or disposed properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 21 August 2023 Observation 5 Refer to 18 Sep 2023 Observation 5 Refer to 25 Sep 2023 Observation 2 Refer to Observation 1								
Chemical Packaging													
E17a	Have the containers a capacity of <450 L unless the specification has been approved by EPD?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A								
E17b	Are the containers (holding, resistant to corrosion, maintained in a good condition, and securely closed) used for storage of chemical wastes ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A								
Chemical Labelling													
E18	Is chemical waste or waste oil stored and labelled in English and Chinese properly in designated area? <table border="1" data-bbox="220 1541 746 1709"> <thead> <tr> <th>Capacity of Container</th> <th>Dimensions of Label</th> </tr> </thead> <tbody> <tr> <td>< 50L</td> <td>No less than 90 x 100mm</td> </tr> <tr> <td>50 to 450L</td> <td>No less than 120 x 150mm</td> </tr> <tr> <td>> 450L</td> <td>No less than 180 x 200mm</td> </tr> </tbody> </table>	Capacity of Container	Dimensions of Label	< 50L	No less than 90 x 100mm	50 to 450L	No less than 120 x 150mm	> 450L	No less than 180 x 200mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Capacity of Container	Dimensions of Label												
< 50L	No less than 90 x 100mm												
50 to 450L	No less than 120 x 150mm												
> 450L	No less than 180 x 200mm												
Chemical Waste / Fuel Storage Area													
E19a	Are the storage area are clearly labelled and separated (if needed)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								
E19b	Are the storage area enclosed 3 sides by walls/fence of ≥2m tall and bounded with adequate bund capacity (>110% of largest container) or do the	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								

	storage area allow storage of 20% of total volume of waste?				
E19c	Do the storage areas have adequate ventilation and be covered to prevent rainfall entering and reduce heat from sunlight?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
E19d	Are the fuel tanks and chemical storage areas provided with locks and sited on sealed areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
E20	Is chemical waste collected by licensed waste collectors and disposed of at licensed facility eg. Chemical Waste Treatment Centre?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Records					
E21	Is a licensed waste hauler used for waste collection ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E22	Are the records of quantities of wastes generated, recycled and disposed properly kept?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E23	For the demolition material / waste, is the number of loads for each day recorded as appropriate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

F	Landfill Gas (LFG)	N/A or Not Observed	Yes	No	Remarks / Photo
Within NENT Landfill Extension					
F1	Are special LFG precautions taken to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F2	Are prominent safety warning signs erected on-site to alert all personnel and visitors of LFG hazards during excavation works.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F3	Is no smoking or burning permitted on-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F4	Are prominent ' No smoking ' and ' No Naked Flames ' signs erected on-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F5	Is no worker allowed to work alone at any time in excavated trenches or confined areas on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F6	Is adequate fire fighting equipment provided on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F7	Are construction equipment equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F8	Are electrical motors and extension cords explosion-proof and intrinsically safe for use on-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F9	Is ' Permit to Work ' system implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F10	Are welding, flame-cutting or other hot works conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F11a	For pipng assembly or conduit construction , are all valves and seals closed immediately after installation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F11b	Are the pipe ends sealed on one side during installation if installation of large diameter pipes (diameter > 600mm) is required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F11c	Is forced ventilation implemented prior to operation of installed pipeline ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F11d	Is forced ventilation implemented for works inside trenches deeper than 1m ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F12	Is frequency and location of LFG monitoring within excavation area determined prior to commencement of works? *LFG monitoring in excavations should be conducted at < 10mm from exposed ground surface.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F13	For excavation works, Is LFG monitoring 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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

(Construction Phase)

Environmental Site Inspection Checklist (Rev. 3)

F14	Are LFG monitoring conducted periodically when any cracks on ground level encountered on-site? *Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F15a	Are LFG precautionary measures involved in excavation and piping works provided in accordance with LFG Guidance Note and included in Safety Plan of construction phase?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F15b	Are temporary offices or buildings located where free LFG has been proven or raised clear of ground at a separation distance of at least 500mm?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F16	Is a Safety Officer trained in the use of gas detection equipment and LFG- related hazards present on-site throughout the groundwork phase? *The Safety Officer should be provided with an intrinsically safe portable instrument appropriately calibrated and capable of measuring the following gases: •CH ₄ : 0-100% and LEL: 0-100%/v •CO ₂ : 0-100% •O ₂ : 0-21%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F17a	Periodically during groundwork construction, Is the works area monitored for CH ₄ CO ₂ and O ₂ using appropriately calibrated portable gas detection equipment? *The monitoring frequency and areas should be established prior to commencement of groundwork either by Safety Officer or appropriately qualified person.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F17b	Is routine monitoring carried out in all excavations, manholes, created by temporary storage of building materials on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F17c	Are all measurements in excavations made with monitoring tube located < 10mm from exposed ground surface?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F18	For excavations > 1m, are measurements 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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F19	For excavations 300mm to 1m, are measurements conducted? • Directly after excavation has been completed; and • Periodic all whilst excavation remains open.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F20	For excavations < 300mm, are monitoring omitted at the discretion of Safety Officer or appropriately qualified person?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

G	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo
G1	Is the work site confined within site boundaries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G2	Is damage to surrounding areas avoided ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G3	Are the protective fencing erected along or beyond the perimeter of the tree protection zone of each individual tree?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Advanced screening tree planting					
G4a	Is early planting using fast growing plants and tall shrubs at strategic locations within site implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G4b	Are the roadside planter and shrub planting implemented in front of Cheung Sha Temple ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Boundary Green Belt planting					
G5	Are the fast growing and fire-resistant plant species planted around the site perimeter?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Temporary landscape treatment as green surface cover					
G6	Are grass hydroseeding or synthetic covering material of green colour used as a temporary slope cover ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Existing tree preservation					
G7	Are existing and affected tree which identified as ecological significant preserved whenever possible?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

H	Ecology	N/A or Not Observed	Yes	No	Remarks / Photo
H1	Is transplantation of the important plant species implemented? Is post-transplantation maintained and monitored regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

I	Environmental Complaint	N/A or Not Observed	Yes	No	Remarks / Photo
I1	Environmental Complaint received during this week?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
J	General Housekeeping / Others	N/A or Not Observed	Yes	No	Remarks / Photo
J1	Are the defined boundaries of working areas identified to prevent loss of vegetation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
J2	Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Follow up action for previous Site Inspection:




1. 31 July 2023 Observation 3 and 18 September 2023 Observation 7 - The Contractor arranged watering in Portion E4 to minimize dust dispersion.
2. 18 September 2023 Observation 2 - The dry PFA was removed.
3. 25 September 2023 Observation 1 - The Contractor arranged watering in Portion E3 and E4 to minimize dust dispersion.

Observation(s):

1. The stagnant water in drip tray should be cleared of in Portion E4.
2. The accumulated silt in the channel at Portion E3 should be regularly removed.
3. The accumulated surface runoff in Portion E3 should be divided to the silt removal facility for wastewater treatment.

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

1. The Contractor has been reminded to clear the stagnant water in the drip tray.
2. The Contractor has been advised to conduct regularly cleaning works to remove the accumulated silt in the channel.
3. The Contractor has been advised to divide the surface runoff to the silt removal facility for proper wastewater treatment.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Andy Ng	/	Matt Choy/Kristy Wong	Sylvia Ho
Date:	3 October 2023	/	3 October 2023	3 October 2023

PART I Follow-up status of the previous site inspection

Observation and Recommendation	Follow-up status
<p><u>10 July 2023 Observation 5</u></p>  <p>The exposed slope surfaces were not covered by tarpaulin sheets or treated with shotcrete at the Portion E3-1. The contractor has been recommended to implement the cover works of exposed slope surfaces by tarpaulin sheets or shotcrete at the Portion E3-1 to minimise the potential high concentration construction runoff to silt removal facilities.</p>	 <p>The exposed slopes were covered with impervious sheets temporarily at the left side of Portion E3-1.</p> <p>Waiting for Contractor's Input (Right side slope at Portion E3-1)</p>
<p><u>31 July 2023 Observation 3</u></p>  <p>The assess road at the Portion E4 was dry. The contractor has been advised that the assess road at the Portion E4 should be sprayed with water when the assess road is dry to minimize the dust suppression. The water sprinkler should be considered to establish at the assess road of the Portion E4.</p>	<p><u>Portion E4</u></p>  <p>The Contractor arranged watering in Portion E4 to minimize dust dispersion.</p>

Observation and Recommendation	Follow-up status
<p><u>28 August 2023 Observation 2</u></p>  <p>NRMM label should be fixated on the generator in Portion A.</p>	<p>Waiting for contractor input</p>
<p><u>28 August 2023 Observation 5</u></p>   <p>Dusty stickpiles should be covered with impervious sheet prior rainfall and tropical cyclone.</p>	<p>Waiting for contractor input</p>

Observation and Recommendation	Follow-up status
<p><u>4 September 2023 Observation 2</u></p>  <p>Dust drift is found at the assess road of Portion A when vehicle moving.</p>	<p>Waiting for contractor input</p>
<p><u>11 September 2023 Observation 2</u></p>  <p>The dusty stockpile in SBA should be covered with impervious sheet when the rainfall is forecast.</p>	<p>Waiting for contractor input</p>
<p><u>11 September 2023 Observation 3</u></p>  <p>The condition of silt fence in SBA should be reviewed after the heavy rainfall over the few days and should be replaced when it is broken.</p>	<p>Waiting for contractor input</p>

18 September 2023 Observation 1



The demolished tree, shrub or vegetation in Portion B2 should be covered with impervious sheets or placed within a shelter.

Waiting for contractor input

18 September 2023 Observation 2



The dry PFA in Portion B2 should be covered entirely with impervious sheets.



The dry PFA was removed.

18 September 2023 Observation 3



The metal plate at the vehicle entrance in Portion B2 should cover unpaved road surface.

Waiting for contractor input

18 September 2023 Observation 4

SBA



Portion E4



General refuse and non-inert waste should be stored in enclosed bins or compact unit.

Waiting for contractor input

18 September 2023 Observation 5



Empty chemical containers in Portion E3 should be properly stored before the disposal.

Waiting for contractor input

18 September 2023 Observation 6



Sediment/ silt traps shall be incorporated in the temporary drainage system to enhance retention time for silt/s and traps of the silt removal facilities be 5 minutes under maximum flow conditions.

Waiting for contractor input

18 September 2023 Observation 7



The main haul road in Portion E4 was dry and dusty.

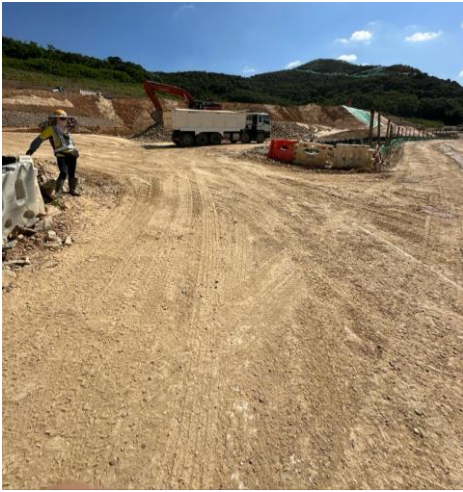
Portion E4



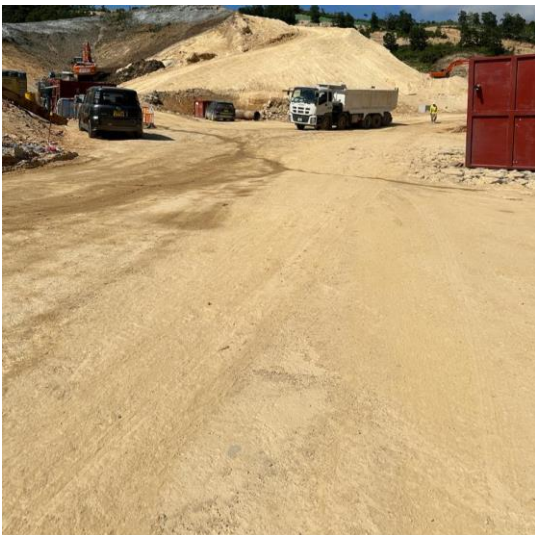
The Contractor arranged watering in Portion E4 to minimize dust dispersion.

25 September 2023 Observation 1

SBA



Portion E4



SBA

Waiting for Contractor's Input

Portion E4



Portion E3



The main haul road and work site should be wetted regularly to minimize the dust dispersion.

Portion E3



The Contractor arranged watering in Portion E3 and E4 to minimize dust dispersion.

25 September 2023 Observation 2



Observation 2.

Chemical spillage is observed at Portion E4 and chemical containers should be placed on the drip tray.

<p><u>25 September 2023 Observation 3</u></p>  <p>Observation 3 The exposed slope surface along the channel should be paved to reduce SS level in the wastewater.</p>	
<p><u>25 September 2023 Observation 4</u></p>  <p>Observation 4 The accumulated sand or silt in the outlet of the silt removal facility at Portion A should be removed.</p>	

PART II Observation and recommendation identified during the environmental site inspection

Observation and Recommendation	Follow-up status
 <p>Observation 1 The stagnant water in drip tray should be cleared of in Portion E4.</p>	
 <p>Observation 2 The accumulated silt in the channel at Portion E3 should be regularly removed.</p>	



Observation 3

The accumulated surface runoff in Portion E3 should be divided to the silt removal facility for wastewater treatment.

PART III Temporary Surface Water Drainage System (TSWDS) Photo Record during the environmental site inspection

<p>Sump Pit in Portion D</p>	<p>Sump Pit in Portion D</p>
	
<p>Silt Removal Facility in Portion D</p>	<p>Slope Protection in SBA</p>
	
<p>Slope Protection in SBA</p>	<p>Sedimentation Basin in SBA</p>
	

<p>Sedimentation Basin in Portion E4</p>  A photograph showing a sedimentation basin with a concrete structure and a large blue pipe. The water is brown and turbid. The basin is situated on a hillside with some vegetation.	<p>Silt Removal Facility in Portion E4</p>  A photograph of a silt removal facility featuring a large blue metal structure. A green skid steer loader is parked nearby, and a worker is visible in the background. The facility is located on a dirt area with a forested hill in the background.
<p>Silt Removal Facility in Portion E4</p>  A photograph of a silt removal facility with a blue metal structure. The facility is surrounded by construction materials and equipment. A worker is visible near the structure.	<p>Slope Protection in Portion E4</p>  A photograph of a slope protection area showing a large pile of earth and a concrete structure. The slope is covered with a grey geotextile material. A single tree stands on the slope.
<p>Slope Protection in Portion A</p>  A photograph of a slope protection area showing a large pile of earth and a concrete structure. The slope is covered with a grey geotextile material. A worker is visible near the structure.	<p>Silt Removal Facility in Portion E3</p>  A photograph of a silt removal facility with a large pile of earth and a concrete structure. The slope is covered with a grey geotextile material. Several excavators are visible working on the site.

Inspection Date:	11 October 2023	Inspected By:	Jason Man
Time:	14:00	Weather Condition:	Cloudy
Participants:	Kim Tang (ER), Matt Choy (Contractor), Jason Man (ET)		

A	Permits/Licenses	N/A or Not Observed	Yes	No	Remarks / Photo
A1	Are Environmental Permit, license/ other permit displayed at major site exit and vehicle access?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A2	Are Construction Noise Permits/ Environmental license/ other permit available for inspection/posted at site entrance.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A3	Is wastewater discharge licence available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A4	Are trip tickets for chemical waste and construction waste disposal available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A5	Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

B	Air Quality	N/A or Not Observed	Yes	No	Remarks / Photo
B1	Is open burning avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B2	Are plant and equipment well maintained (i.e. without black smoke from powered plant)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B3	Any remedial action undertaken?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B4	Are the worksites wetted with water regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 25 Sep 2023 Observation 1
B5	Are NRMM labels properly affixed on the PMEs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B6	Observed dust source(s)	<input type="checkbox"/> Wind erosion <input type="checkbox"/> Vehicle/ Equipment Movements <input type="checkbox"/> Loading/ unloading of materials <input type="checkbox"/> Others: _____			
Air Pollution Control (Construction Dust) Regulation					
Part I Control Requirements for Notifiable Works					
Demolition of building					
B7	Is the area involved demolition activities sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Construction of the superstructure of a building					
B8	Is scaffolding erected around the perimeter of a building under construction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

B9	Are effective dust screens, sheeting or netting provided to enclose the scaffolding from the ground floor level of the building, or a canopy provided from the first floor level up to the highest level of the scaffolding?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B10	Is the skip for materials transport enclosed by impervious sheeting ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Part III General Control Requirements					
Site boundary and entrance					
B11	Are wheel washing facilities with high pressure water jet provided at all site exits if practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B12	Are the areas of washing facilities and the road section between the washing facilities and the exit point paved with concrete, bituminous materials or hardcore?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B13	Are the hoarding $\geq 2.4\text{m}$ tall provided at the site boundary near a road, street, service lane or other area accessible to the public?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Assess road					
B14	Are every main haul road (having a vehicle passing rate of higher than 4 in any 30 minutes) paved with concrete, bituminous materials, hardcore or metal plates, and kept clear of dusty materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B15	Are every main haul road sprayed with water or a dust suppression chemical?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B16	Is the portion of any road leading only to construction site (within 30m of a vehicle entrance or exit) kept clear of dusty materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B17	Are appropriate speed limit sign displayed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B18	Is unpaved main haul road wet by water spraying?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 25 Sep 2023 Observation 1
Cement and dry pulverized fuel ash (PFA)					
B19	Is every stock of more than 20 bags of cement or dry pulverized fuel ash (PFA) covered entirely by impervious sheeting or placed in an area sheltered on the top and 3 sides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B20	Are the activities of loading, unloading, transfer, handing or storage of bulk cement or dry PFA carried out in a totally enclosed system or facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B21	Is any vent or exhaust fitted with an effective fabric filter or equipment air pollution control system ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Exposed earth					
B22	Is the exposed earth properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within 6 months after last construction activity on the construction site or part of the construction site where the exposed earth lies?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Part IV Control Requirements for Individual Activities					
Stockpiling of dusty materials					
B23	Are the stockpiling of dusty materials (a) covered entirely by impervious sheeting or (b) placed in an area sheltered on the top and the 3 sides or (c) sprayed with water or a dust suppression chemical to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B24	Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Loading, unloading or transfer of dusty materials					
B25	Are all dusty materials sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B26	Are all trucks loaded to a level within the side and tail boards?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Use of vehicles					
B27	Are every vehicle washed immediately to remove any dusty materials from its body and wheels before leaving a construction site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B28	Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B29	Are site vehicle movements confined to designated roads?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pneumatic or power-driven drilling, cutting and polishing					
B30	Are surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operations takes place sprayed with water or a dust suppression chemical continuously? *Unless the process is accompanied by the operation of an effective dust extraction and filtering device.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Debris handling					
B31	Are any debris covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the 3 sides?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B32	Are every debris chute shall be enclosed by impervious sheeting or similar materials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B33	Are the watering spray or a dust suppression chemical conducted before debris is dumped into a debris chute?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Excavation or earth moving					
B34	Are the working area of any excavation or earth moving operation sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Site clearance					
B35	Are the working area for the uprooting of trees, shrubs, or vegetation or for the removal of boulders, poles, pillars or temporary or permanent structures sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B36	Are all demolished items (including trees, shrubs, vegetation, boulders, poles, pillars, structures, debris, rubbish and other items arising from site clearance) that may dislodge dust particles covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides within a day of demolition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

C	Construction Noise	N/A or Not Observed	Yes	No	Remarks / Photo
C1	Is well-maintained plant operated on-site and plant served regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C2	Are vehicles and equipment switched off or throttled down while not in use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C3	Is the noise directed away from nearby NSRs ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C4	Are the silencers or mufflers properly fitted on construction equipment and maintained regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C5	Are mobile and/or noisy plant sited as far away from NSRs as possible and practicable and orientated so that the noise is directed away from nearby NSRs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C6	Are material stockpiles , mobile container office and other structures utilised to screen noisy activities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C7	Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
C8	Are noise barriers (typically density @14kg/m ²) acoustic mat or full enclosure close to noise plants including air compressor, generators and saw etc. provided to protect NSRs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
C9	Is the sequencing operation of construction plants where practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C10	Is the hoarding maintained properly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C11	Air compressors (500 kPa or above) and hand held percussive breaker (mass of above 10 kg) with valid noise labels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C12	Are compressor operated with doors closed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C13	QPME used with valid noise labels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C14	Major noise source(s)	<input checked="" type="checkbox"/> Traffic <input checked="" type="checkbox"/> Construction activities inside of site <input type="checkbox"/> Construction activities outside of site <input type="checkbox"/> Others: _____			

D	Water Quality	N/A or Not Observed	Yes	No	Remarks / Photo
Construction Runoff					
D1a	At the start of site establishment, are perimeter cut-off drains constructed to direct off-site water around the site with internal drainage works and erosion and sedimentation control facilities implemented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D1b	Are channels, earth bunds or sandbag barriers provided on site to properly direct stormwater to silt removal facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D2a	Have dikes or embankments for flood protection implemented around the boundaries of earthwork areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D2b	Have temporary ditches provided to facilitate the runoff discharge into an appropriate watercourse, through a site/ sediment trap?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D2c	Are the sediment/ silt traps incorporated in the permanent drainage channels to enhance deposition rate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D3	Are the retention time for silt/s and traps of the silt removal facilities be 5 minutes under maximum flow conditions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 18 Sep 2023 Observation 6
D4a	Are surface excavation works minimised during rainy seasons (April to September), as possible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D4b	Are all exposed earth areas completed or vegetated as soon as possible after earthworks completed, or alternatively, within 14 days of the cessation of earthworks where practicable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D4c	Are exposed slope surfaces covered by tarpaulin sheets?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Shotcrete in progress. Refer to Observation 2 and 4
D5a	Have the overall slope of the site should be kept a minimum?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D5b	Are all trafficked areas and access roads protected by coarse stone ballast?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D6a	Are all drainage facilities and erosion and sediment control structures inspected regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D6b	Are all drainage facilities and erosion and sediment control structures maintained to ensure proper and efficient operation at all times and particularly following rainstorms?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D6c	Is the deposited silt and grit removed regularly and disposed of by spreading evenly over stable?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D7a	Have the excavation of trenches in wet periods be dug and backfilled in short sections?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D7b	Is rainwater pumped out from trenches discharged into storm drains via silt system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D8	Are open stockpiles of construction materials e.g. aggregates and sand of more than 50m ³ on site covered with tarpaulin or similar fabric during rainstorms?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

D9a	Are manholes adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D9b	Are the discharges of surface run-off into foul sewer always prevented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D10a	Are particular attention paid to the control of silty surface runoff during storm event ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to Observation 1
D10b	Are the precautions to be taken at any time of year when rainstorms are likely? (Appendix A2 of ProPECC PN 1/94) i. Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly. ii. Temporarily exposed slope surfaces should be cover by tarpaulin. iii. Temporary access roads should be protected by crushed stone or gravel. iv. Intercepting channels should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. v. Trenches should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 25 Sep 2023 Observation 3
D10c	Are the actions to be taken when a rainstorm is imminent or forecast ? (Appendix A2 of ProPECC PN 1/94) i. Silt removal facilities, channels and manholes should be checked to ensure that they can function properly. ii. Open stockpiles of construction materials (e.g. aggregates, sand and fill materials) on site should be covered with tarpaulin or similar fabric. iii. All temporary covers to slopes and stockpiles should be secured.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D10d	Are the actions to be taken during or after rainstorms ? (Appendix A2 of ProPECC PN 1/94) i. Silt removal facilities, channels and manholes should be checked and maintained to ensure satisfactory working conditions. Attention should be given to safety when carrying out this work.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11a	Are all vehicles and plant cleaned before leaving a construction site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D11b	Is the wheel washing bay provided at every site exit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11c	Are the vehicle wash-water have sand and silt settled out and removed at least on a weekly basis?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D11d	Is the wheel wash overflow directed to silt removal facilities before being discharged to the storm drain?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D11e	Is the section of construction road between the wheel washing bay and the public road paved with backfill?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11f	Is the treated wastewater reused for vehicle washing, dust suppression and general cleaning ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D12a	Are oil interceptors provided in the site drainage system downstream of any oil/ fuel pollution sources?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

D12b	Are the oil interceptors emptied and cleaned regularly to prevent the release of O&G into the storm water drainage system after accidental spillage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D12c	Has a bypass provided to prevent flushing during heavy rain?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D13	Are the construction solid waste, debris and rubbish on site collected, handled and disposed of properly? (same with waste item)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D14	Are all fuel tanks and storage areas provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D15	Is Intercepting bund or barrier along the roadside constructed to prevent pollution risk arising from work area (waste reception area)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D16	Are site drainage systems provided over the entire project site with sediment control facilities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D17	Are sedimentation tanks provided to treat the large amount of sediment-laden wastewater generated from wheel washing, site runoff and construction works?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D18	Is there any sediment plume observed in nearby watercourses?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sewage Effluent from Workforce (On-site sanitary facilities)					
D19a	Are portable chemical toilets and sewage holding tanks provided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D19b	Is the sewage generated from toilets collected by licensed contractor and responsible for disposal and maintenance?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D20	Are the notices posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
Accidental Spillage of Chemical (Service workshop and maintenance facilities)					
D21a	Are the service workshop and maintenance facilities located within a bunded area, and sumps and oil interceptors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D21b	Are all maintenance of equipment involving activities with potential for leakage and spillage undertaken within the areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D21c	Is chemical leakage or spillages contained and cleaned up immediately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
Surface Water Drainage System					
D22a	Is the temporary surface water drainage system provided to manage runoff?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D22b	Does the system consist of channel as constructed around the perimeter of the site area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D22c	Does the system collect surface water from the areas of higher elevations to those of lower elevations and ultimately to the discharge point?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D22d	Is the erosion minimised?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D23a	Does the system include the use of a silt fence around the soil stockpile areas to prevent sediment from entering the system?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 11 Sep 2023 Observation 3

D23b	Is the regular cleaning carried out to prevent blockage of the passage of waste flow in silt fence?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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E	Waste / Chemical Management	N/A or Not Observed	Yes	No	Remarks / Photo
Waste Management					
General Waste					
E1	Is the general waste generated on-site stored in enclosed bins or compaction units separately from the construction and chemical wastes?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E2a	Is the general waste collected properly by using the waste separation facilities for paper, aluminium cans, plastic bottles etc.?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E2b	Does accumulation of waste avoid?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E2c	Is waste disposed regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E2d	Regular waste collection by approved waste collector in purpose-built vehicles?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E3	Burning of refuse on construction site prohibited?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C&D Materials					
E4a	Are there any contract documents provided to allow and promote the use of recycled aggregates where appropriate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E4b	Are the C&D materials sorted and recycled on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E5a	Is the durable formwork or plastic facing for construction works used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E5b	Do the wooden hoardings avoid to be used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E5c	Is metal hoarding used to enhance the possibility of recycling?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6a	Are the concrete and masonry used as general fill ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6b	Are the steel reinforcement bars used by scrap steel mills?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6c	Is the segregation and storage of C&D wastes undertaken in designated area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6d	Does the use of reusable steel formwork maximise?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E7a	Are the temporary stockpiles maintained regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E7b	Is the excavated fill material reused for backfilling and reinstatement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E8a	Are the excavated slope, stockpile material and bund walls covered by tarpaulin?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E8b	Are covering trucks or transporting wastes in enclosed containers when transportation of waste ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E8c	Are waste storage area properly cleaned and do not cause windblown litter and dust nuisance?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E9	Is hydroseeding of the topsoil on the stockpile implemented to improve visual appearance and prevent soil erosion?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E10	Is the 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 implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

E11	Are the training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concept implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E12	Are the regular cleaning and maintenance programme for drainage systems, sumps, oil interceptors?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
E13a	Are wood, steel and other metals separated for re-use and/or recycling?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E13b	Do the excavated materials appear contaminated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
E13c	If suspected contaminated, appropriate procedures followed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A								
E14	Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E15	Are the public fill and C&D waste segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
Chemical Waste / Waste Oil													
E16	Are chemicals and waste oil recycled or disposed properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 18 Sep 2023 Observation 5 Refer to 3 Oct 2023 Observation 1								
Chemical Packaging													
E17a	Have the containers a capacity of <450 L unless the specification has been approved by EPD?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A								
E17b	Are the containers (holding, resistant to corrosion, maintained in a good condition, and securely closed) used for storage of chemical wastes ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A								
Chemical Labelling													
E18	Is chemical waste or waste oil stored and labelled in English and Chinese properly in designated area? <table border="1" data-bbox="220 1355 746 1518"> <thead> <tr> <th>Capacity of Container</th> <th>Dimensions of Label</th> </tr> </thead> <tbody> <tr> <td>< 50L</td> <td>No less than 90 x 100mm</td> </tr> <tr> <td>50 to 450L</td> <td>No less than 120 x 150mm</td> </tr> <tr> <td>> 450L</td> <td>No less than 180 x 200mm</td> </tr> </tbody> </table>	Capacity of Container	Dimensions of Label	< 50L	No less than 90 x 100mm	50 to 450L	No less than 120 x 150mm	> 450L	No less than 180 x 200mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Capacity of Container	Dimensions of Label												
< 50L	No less than 90 x 100mm												
50 to 450L	No less than 120 x 150mm												
> 450L	No less than 180 x 200mm												
Chemical Waste / Fuel Storage Area													
E19a	Are the storage area are clearly labelled and separated (if needed)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								
E19b	Are the storage area enclosed 3 sides by walls/fence of ≥2m tall and bounded with adequate bund capacity (>110% of largest container) or do the storage area allow storage of 20% of total volume of waste ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								
E19c	Do the storage areas have adequate ventilation and be covered to prevent rainfall entering and reduce heat from sunlight?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								
E19d	Are the fuel tanks and chemical storage areas provided with locks and sited on sealed areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								

E20	Is chemical waste collected by licensed waste collectors and disposed of at licensed facility eg. Chemical Waste Treatment Centre?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Records					
E21	Is a licensed waste hauler used for waste collection ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E22	Are the records of quantities of wastes generated, recycled and disposed properly kept?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E23	For the demolition material / waste, is the number of loads for each day recorded as appropriate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

F	Landfill Gas (LFG)	N/A or Not Observed	Yes	No	Remarks / Photo
Within NENT Landfill Extension					
F1	Are special LFG precautions taken to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F2	Are prominent safety warning signs erected on-site to alert all personnel and visitors of LFG hazards during excavation works.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F3	Is no smoking or burning permitted on-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F4	Are prominent 'No smoking' and 'No Naked Flames' signs erected on-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F5	Is no worker allowed to work alone at any time in excavated trenches or confined areas on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F6	Is adequate fire fighting equipment provided on-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F7	Are construction equipment equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F8	Are electrical motors and extension cords explosion-proof and intrinsically safe for use on-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F9	Is 'Permit to Work' system implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F10	Are welding, flame-cutting or other hot works conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F11a	For pipng assembly or conduit construction , are all valves and seals closed immediately after installation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F11b	Are the pipe ends sealed on one side during installation if installation of large diameter pipes (diameter > 600mm) is required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F11c	Is forced ventilation implemented prior to operation of installed pipeline ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F11d	Is forced ventilation implemented for works inside trenches deeper than 1m ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F12	Is frequency and location of LFG monitoring within excavation area determined prior to commencement of works? *LFG monitoring in excavations should be conducted at < 10mm from exposed ground surface.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F13	For excavation works, Is LFG monitoring 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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

(Construction Phase)

Environmental Site Inspection Checklist (Rev. 3)

F14	Are LFG monitoring conducted periodically when any cracks on ground level encountered on-site? *Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F15a	Are LFG precautionary measures involved in excavation and pipng works provided in accordance with LFG Guidance Note and included in Safety Plan of construction phase?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F15b	Are temporary offices or buildings located where free LFG has been proven or raised clear of ground at a separation distance of at least 500mm?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F16	Is a Safety Officer trained in the use of gas detection equipment and LFG- related hazards present on-site throughout the groundwork phase? *The Safety Officer should be provided with an intrinsically safe portable instrument appropriately calibrated and capable of measuring the following gases: •CH ₄ : 0-100% and LEL: 0-100%/v •CO ₂ : 0-100% •O ₂ : 0-21%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F17a	Periodically during groundwork construction, Is the works area monitored for CH ₄ CO ₂ and O ₂ using appropriately calibrated portable gas detection equipment? *The monitoring frequency and areas should be established prior to commencement of groundwork either by Safety Officer or appropriately qualified person.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F17b	Is routine monitoring carried out in all excavations, manholes, created by temporary storage of building materials on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F17c	Are all measurements in excavations made with monitoring tube located < 10mm from exposed ground surface?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F18	For excavations > 1m, are measurements 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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F19	For excavations 300mm to 1m, are measurements conducted? • Directly after excavation has been completed; and • Periodic all whilst excavation remains open.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F20	For excavations < 300mm, are monitoring omitted at the discretion of Safety Officer or appropriately qualified person?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

G	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo
G1	Is the work site confined within site boundaries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G2	Is damage to surrounding areas avoided ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G3	Are the protective fencing erected along or beyond the perimeter of the tree protection zone of each individual tree?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Advanced screening tree planting					
G4a	Is early planting using fast growing plants and tall shrubs at strategic locations within site implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G4b	Are the roadside planter and shrub planting implemented in front of Cheung Sha Temple ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Boundary Green Belt planting					
G5	Are the fast growing and fire-resistant plant species planted around the site perimeter?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Temporary landscape treatment as green surface cover					
G6	Are grass hydroseeding or synthetic covering material of green colour used as a temporary slope cover ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Existing tree preservation					
G7	Are existing and affected tree which identified as ecological significant preserved whenever possible?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

H	Ecology	N/A or Not Observed	Yes	No	Remarks / Photo
H1	Is transplantation of the important plant species implemented? Is post-transplantation maintained and monitored regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

I	Environmental Complaint	N/A or Not Observed	Yes	No	Remarks / Photo
I1	Environmental Complaint received during this week?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
J General Housekeeping / Others					
J1	Are the defined boundaries of working areas identified to prevent loss of vegetation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
J2	Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Follow up action for previous Site Inspection:




1. 28 August 2023 Observation 2 - The NRMM label was fixated on the generator at the Portion A by the contractor.
2. 28 August 2023 Observation 5 - The dusty stockpile was removed by the contractor.
3. 4 September 2023 Observation 2 - The water spraying was conducted by the contractor at the assess road of Portion A.
4. 18 September 2023 Observation 1 - The demolished tree at Portion B2 was covered with impervious sheets by the contractor.
5. 18 September 2023 Observation 3 - The unpaved road surface at the entrance of Portion B2 was covered with the metal plate by the contractor.
6. 18 September 2023 Observation 4 –The accumulated waste at SBA and at and near the enclosed bin of Portion E4 were removed by the contractor.
7. 25 September 2023 Observation 4 - The accumulated sand and silt in the outlet of the silt removal facility at Portion A was removed by the contractor.
8. 3 October 2023 Observation 2 - The accumulated silt in the channel at Portion E3-1 was collected by the contractor regularly.
9. 3 October 2023 Observation 3 - The depression at the Portion E3-1 was filled with sand and gravel by the contractor.

Observation(s):

1. The accumulated water was found at waste skip of Portion A.
2. The slope surface protection should be enhanced at Portion E4 near entrance and assess road.
3. The drip tray should be placed under the chemical container at Portion E4.
4. The exposed slope should be covered with impervious sheet at the SBA and Portion E4.
5. The accumulated water was found at the drip tray of SBA.

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



1. The contractor was advised to clear the accumulated water at the waste skip and the waste skip should be covered with impervious sheet when rainstorm is forecast.
2. The contractor was recommended that the exposed slope should be covered with impervious sheet in the short term and the shotcrete for slope surface should be conducted in the long term.
3. The contractor was recommended that the drip tray should be placed under the chemical container at Portion E4.
4. The contractor was advised to clear the accumulated water at the drip tray of SBA.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Jason Man	/	Matt Choy/Kristy Wong	Sylvia Ho
Date:	11 October 2023	/	11 October 2023	11 October 2023

PART I Follow-up status of the previous site inspection

Observation and Recommendation	Follow-up status
<p><u>10 July 2023 Observation 5</u></p>  <p>The exposed slope surfaces were not covered by tarpaulin sheets or treated with shotcrete at the Portion E3-1. The contractor has been recommended to implement the cover works of exposed slope surfaces by tarpaulin sheets or shotcrete at the Portion E3-1 to minimise the potential high concentration construction runoff to silt removal facilities.</p>	<p>The site condition at Portion E3-1 was changed and the item is closed.</p>
<p><u>28 August 2023 Observation 2</u></p>  <p>NRMM label should be fixated on the generator in Portion A.</p>	 <p>The NRMM label was fixated on the generator at the Portion A by the contractor.</p>




Observation and Recommendation	Follow-up status
<p data-bbox="132 248 427 271"><u>28 August 2023 Observation 5</u></p>  <p data-bbox="132 1189 759 1240">Dusty stickpiles should be covered with impervious sheet prior rainfall and tropical cyclone.</p>	 <p data-bbox="791 972 1321 999">The dusty stockpile was removed by the contractor.</p>
<p data-bbox="132 1263 451 1285"><u>4 September 2023 Observation 2</u></p>  <p data-bbox="132 1785 759 1836">Dust drift is found at the assess road of Portion A when vehicle moving.</p>	 <p data-bbox="791 1762 1418 1814">The water spraying was conducted by the contractor at the assess road of Portion A.</p>

Observation and Recommendation	Follow-up status
<p data-bbox="134 250 464 275"><u>11 September 2023 Observation 2</u></p>  <p data-bbox="134 663 727 712">The dusty stockpile in SBA should be covered with impervious sheet when the rainfall is forecast.</p>	<p data-bbox="817 472 1414 497">The site condition at SBA was changed and the item is closed.</p>
<p data-bbox="134 734 464 759"><u>11 September 2023 Observation 3</u></p>  <p data-bbox="134 1375 785 1424">The condition of silt fence in SBA should be reviewed after the heavy rainfall over the few days and should be replaced when it is broken.</p>	<p data-bbox="986 1070 1248 1095">Waiting for contractor input</p>

Observation and Recommendation	Follow-up status
<p data-bbox="134 248 464 275"><u>18 September 2023 Observation 3</u></p>  <p data-bbox="134 772 759 824">The metal plate at the vehicle entrance in Portion B2 should cover unpaved road surface.</p>	 <p data-bbox="788 920 1414 972">The unpaved road surface at the entrance of Portion B2 was covered with the metal plate by the contractor.</p>
<p data-bbox="134 994 464 1021"><u>18 September 2023 Observation 1</u></p>  <p data-bbox="134 1704 759 1756">The demolished tree, shrub or vegetation in Portion B2 should be covered with impervious sheets or placed within a shelter.</p>	 <p data-bbox="788 1682 1414 1733">The demolished tree at Portion B2 was covered with impervious sheets by the contractor.</p>

Observation and Recommendation	Follow-up status
<p><u>18 September 2023 Observation 4</u></p> <p><u>SBA</u></p> 	<p><u>SBA</u></p>  <p>The accumulated waste at SBA was removed by the contractor.</p>
<p><u>Portion E4</u></p>  <p>General refuse and non-inert waste should be stored in enclosed bins or compacte unit.</p>	<p><u>Portion E4</u></p>  <p>The accumulated waste at and near the enclosed bin of Portion E4 was cleared by the contractor.</p>



Observation and Recommendation	Follow-up status
<p data-bbox="134 248 464 275"><u>18 September 2023 Observation 5</u></p>  <p data-bbox="134 790 703 844">Empty chemical containers in Portion E3 should be properly stored before the disposal.</p>	<p data-bbox="791 517 1422 571">The site condition at Portion E3-1 was changed and the item is closed.</p>
<p data-bbox="134 866 464 893"><u>18 September 2023 Observation 6</u></p>  <p data-bbox="134 1426 743 1532">Sediment/ silt traps shall be incorporated in the temporary drainage system to enhance retention time for silt/s and traps of the silt removal facilities be 5 minutes under maximum flow conditions.</p>	<p data-bbox="975 1184 1235 1211">Waiting for contractor input</p>

Observation and Recommendation	Follow-up status
<p data-bbox="132 248 464 275"><u>25 September 2023 Observation 1</u></p> <p data-bbox="132 293 181 320"><u>SBA</u></p>   <p data-bbox="132 1317 767 1373">The main haul road and work site should be wetted regularly to minimize the dust dispersion.</p>	<p data-bbox="790 775 839 801"><u>SBA</u></p> <p data-bbox="963 817 1246 844">Waiting for Contractor's Input</p>
<p data-bbox="132 1391 464 1417"><u>25 September 2023 Observation 2</u></p>  <p data-bbox="132 1944 767 2000">Chemical spillage is observed at Portion E4 and chemical containers should be placed on the drip tray.</p>	<p data-bbox="790 1671 1425 1727">The site condition at Portion E4 was changed and the item is closed.</p>

Observation and Recommendation	Follow-up status
<p data-bbox="134 250 464 275"><u>25 September 2023 Observation 3</u></p>  <p data-bbox="134 752 756 806">The exposed slope surface along the channel should be paved to reduce SS level in the wastewater.</p>	<p data-bbox="967 512 1246 539">Waiting for Contractor's Input</p>
<p data-bbox="134 828 464 853"><u>25 September 2023 Observation 4</u></p>  <p data-bbox="134 1328 764 1382">The accumulated sand or silt in the outlet of the silt removal facility at Portion A should be removed.</p>	 <p data-bbox="791 1319 1422 1373">The accumulated sand and silt in the outlet of the silt removal facility at Portion A was removed by the contractor.</p>
<p data-bbox="134 1406 421 1431"><u>3 October 2023 Observation 1</u></p>  <p data-bbox="134 1962 759 1989">The stagnant water in drip tray should be cleared of in Portion E4.</p>	<p data-bbox="967 1682 1246 1709">Waiting for Contractor's Input</p>

Observation and Recommendation	Follow-up status
<p data-bbox="134 250 424 273">3 October 2023 Observation 2</p>  <p data-bbox="134 775 762 824">The accumulated silt in the channel at Portion E3 should be regularly removed.</p>	 <p data-bbox="791 940 1426 990">The accumulated silt in the channel at Portion E3-1 was collected by the contractor regularly.</p>
<p data-bbox="134 1012 424 1034">3 October 2023 Observation 3</p>  <p data-bbox="134 1939 762 1989">The accumulated surface runoff in Portion E3 should be divided to the silt removal facility for wastewater treatment.</p>	 <p data-bbox="791 1711 1426 1760">The depression at the Portion E3-1 was filled with sand and gravel by the contractor.</p>

PART II Observation and recommendation identified during the environmental site inspection







Observation and Recommendation	Follow-up status
<p>11 October 2023 Observation 1</p>  <p>The accumulated water was found at waste skip of Portion A.</p>	<p>Waiting for Contractor Input</p>
<p>11 October 2023 Observation 2</p>  <p>The slope surface protection should be enhanced at Portion E4 near entrance and access road.</p>	<p>Waiting for Contractor Input</p>

Observation and Recommendation	Follow-up status
<p data-bbox="134 293 475 320"><u>11 October 2023 Observation 3</u></p>  <p data-bbox="134 824 762 880">The drip tray should be placed under the chemical container at Portion E4.</p>	<p data-bbox="970 573 1238 600">Waiting for Contractor Input</p>
<p data-bbox="134 904 475 931"><u>11 October 2023 Observation 4</u></p> 	<p data-bbox="970 1379 1238 1406">Waiting for Contractor Input</p>

Observation and Recommendation	Follow-up status
 <p>The exposed slope should be covered with impervious sheet at the SBA and Portion E4.</p>	<p>Waiting for Contractor Input</p>
<p>11 October 2023 Observation 5</p>   <p>The accumulated water was found at the drip tray of SBA.</p>	<p>Waiting for Contractor Input</p>

PART III Temporary Surface Water Drainage System (TSWDS) Photo Record during the environmental site inspection

TSWDS at Portion D	TSWDS at Portion A
	
TSWDS at Portion A	Sedimentation tank at Portion A
	
Sedimentation basin at Portion E4	Sedimentation basin at Portion E4
	

Silt fence with cut-off drain at SBA	Silt fence with cut-off drain at SBA
	
Sedimentation basin at SBA	Sedimentation basin at Portion B1-2
	
Sedimentation basin at Portion B1-2	Sedimentation basin at Portion B1-2
	

Inspection Date:	16 October 2023	Inspected By:	Jason Man
Time:	14:00	Weather Condition:	Sunny
Participants:	Sylvia Ho (ER), Matt Choy (Contractor), Cyrus Lai(ET), Jason Man (ET), Echo Hung (IEC)		

A	Permits/Licenses	N/A or Not Observed	Yes	No	Remarks / Photo
A1	Are Environmental Permit, license/ other permit displayed at major site exit and vehicle access?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A2	Are Construction Noise Permits/ Environmental license/ other permit available for inspection/posted at site entrance.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A3	Is wastewater discharge licence available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A4	Are trip tickets for chemical waste and construction waste disposal available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A5	Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

B	Air Quality	N/A or Not Observed	Yes	No	Remarks / Photo
B1	Is open burning avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B2	Are plant and equipment well maintained (i.e. without black smoke from powered plant)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B3	Any remedial action undertaken?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B4	Are the worksites wetted with water regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 25 Sep 2023 Observation 1
B5	Are NRMM labels properly affixed on the PMEs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B6	Observed dust source(s)	<input type="checkbox"/> Wind erosion <input checked="" type="checkbox"/> Vehicle/ Equipment Movements <input checked="" type="checkbox"/> Loading/ unloading of materials <input type="checkbox"/> Others: _____			
Air Pollution Control (Construction Dust) Regulation					
Part I Control Requirements for Notifiable Works					
Demolition of building					
B7	Is the area involved demolition activities sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Construction of the superstructure of a building					
B8	Is scaffolding erected around the perimeter of a building under construction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

B9	Are effective dust screens, sheeting or netting provided to enclose the scaffolding from the ground floor level of the building, or a canopy provided from the first floor level up to the highest level of the scaffolding?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B10	Is the skip for materials transport enclosed by impervious sheeting ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Part III General Control Requirements					
Site boundary and entrance					
B11	Are wheel washing facilities with high pressure water jet provided at all site exits if practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B12	Are the areas of washing facilities and the road section between the washing facilities and the exit point paved with concrete, bituminous materials or hardcore?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B13	Are the hoarding $\geq 2.4\text{m}$ tall provided at the site boundary near a road, street, service lane or other area accessible to the public?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Assess road					
B14	Are every main haul road (having a vehicle passing rate of higher than 4 in any 30 minutes) paved with concrete, bituminous materials, hardcore or metal plates, and kept clear of dusty materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B15	Are every main haul road sprayed with water or a dust suppression chemical?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B16	Is the portion of any road leading only to construction site (within 30m of a vehicle entrance or exit) kept clear of dusty materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B17	Are appropriate speed limit sign displayed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B18	Is unpaved main haul road wet by water spraying?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 25 Sep 2023 Observation 1
Cement and dry pulverized fuel ash (PFA)					
B19	Is every stock of more than 20 bags of cement or dry pulverized fuel ash (PFA) covered entirely by impervious sheeting or placed in an area sheltered on the top and 3 sides?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B20	Are the activities of loading, unloading, transfer, handing or storage of bulk cement or dry PFA carried out in a totally enclosed system or facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B21	Is any vent or exhaust fitted with an effective fabric filter or equipment air pollution control system ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Exposed earth					
B22	Is the exposed earth properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within 6 months after last construction activity on the construction site or part of the construction site where the exposed earth lies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Part IV Control Requirements for Individual Activities					
Stockpiling of dusty materials					
B23	Are the stockpiling of dusty materials (a) covered entirely by impervious sheeting or (b) placed in an area sheltered on the top and the 3 sides or (c) sprayed with water or a dust suppression chemical to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B24	Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Loading, unloading or transfer of dusty materials					
B25	Are all dusty materials sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B26	Are all trucks loaded to a level within the side and tail boards?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Use of vehicles					
B27	Are every vehicle washed immediately to remove any dusty materials from its body and wheels before leaving a construction site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B28	Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B29	Are site vehicle movements confined to designated roads?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pneumatic or power-driven drilling, cutting and polishing					
B30	Are surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operations takes place sprayed with water or a dust suppression chemical continuously? *Unless the process is accompanied by the operation of an effective dust extraction and filtering device.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Debris handling					
B31	Are any debris covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the 3 sides?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B32	Are every debris chute shall be enclosed by impervious sheeting or similar materials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B33	Are the watering spray or a dust suppression chemical conducted before debris is dumped into a debris chute?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Excavation or earth moving				
B34	Are the working area of any excavation or earth moving operation sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Site clearance				
B35	Are the working area for the uprooting of trees, shrubs, or vegetation or for the removal of boulders, poles, pillars or temporary or permanent structures sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B36	Are all demolished items (including trees, shrubs, vegetation, boulders, poles, pillars, structures, debris, rubbish and other items arising from site clearance) that may dislodge dust particles covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides within a day of demolition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

C	Construction Noise	N/A or Not Observed	Yes	No	Remarks / Photo
C1	Is well-maintained plant operated on-site and plant served regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C2	Are vehicles and equipment switched off or throttled down while not in use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C3	Is the noise directed away from nearby NSRs ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C4	Are the silencers or mufflers properly fitted on construction equipment and maintained regularly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
C5	Are mobile and/or noisy plant sited as far away from NSRs as possible and practicable and orientated so that the noise is directed away from nearby NSRs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C6	Are material stockpiles , mobile container office and other structures utilised to screen noisy activities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C7	Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
C8	Are noise barriers (typically density @14kg/m ²) acoustic mat or full enclosure close to noise plants including air compressor, generators and saw etc. provided to protect NSRs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
C9	Is the sequencing operation of construction plants where practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C10	Is the hoarding maintained properly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C11	Air compressors (500 kPa or above) and hand held percussive breaker (mass of above 10 kg) with valid noise labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
C12	Are compressor operated with doors closed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C13	QPME used with valid noise labels?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C14	Major noise source(s)	<input checked="" type="checkbox"/> Traffic <input checked="" type="checkbox"/> Construction activities inside of site <input type="checkbox"/> Construction activities outside of site <input type="checkbox"/> Others: _____			

D	Water Quality	N/A or Not Observed	Yes	No	Remarks / Photo
Construction Runoff					
D1a	At the start of site establishment, are perimeter cut-off drains constructed to direct off-site water around the site with internal drainage works and erosion and sedimentation control facilities implemented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D1b	Are channels, earth bunds or sandbag barriers provided on site to properly direct stormwater to silt removal facilities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D2a	Have dikes or embankments for flood protection implemented around the boundaries of earthwork areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D2b	Have temporary ditches provided to facilitate the runoff discharge into an appropriate watercourse, through a site/ sediment trap?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D2c	Are the sediment/ silt traps incorporated in the permanent drainage channels to enhance deposition rate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D3	Are the retention time for silt/s and traps of the silt removal facilities be 5 minutes under maximum flow conditions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 18 Sep 2023 Observation 6
D4a	Are surface excavation works minimised during rainy seasons (April to September), as possible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D4b	Are all exposed earth areas completed or vegetated as soon as possible after earthworks completed, or alternatively, within 14 days of the cessation of earthworks where practicable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D4c	Are exposed slope surfaces covered by tarpaulin sheets?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Shotcrete in progress. Refer to 11 October Observation 2
D5a	Have the overall slope of the site should be kept a minimum?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D5b	Are all trafficked areas and access roads protected by coarse stone ballast?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D6a	Are all drainage facilities and erosion and sediment control structures inspected regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D6b	Are all drainage facilities and erosion and sediment control structures maintained to ensure proper and efficient operation at all times and particularly following rainstorms?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D6c	Is the deposited silt and grit removed regularly and disposed of by spreading evenly over stable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D7a	Have the excavation of trenches in wet periods be dug and backfilled in short sections?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D7b	Is rainwater pumped out from trenches discharged into storm drains via silt system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D8	Are open stockpiles of construction materials e.g. aggregates and sand of more than 50m ³ on site covered with tarpaulin or similar fabric during rainstorms?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

D9a	Are manholes adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D9b	Are the discharges of surface run-off into foul sewer always prevented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D10a	Are particular attention paid to the control of silty surface runoff during storm event ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D10b	Are the precautions to be taken at any time of year when rainstorms are likely? (Appendix A2 of ProPECC PN 1/94) i. Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly. ii. Temporarily exposed slope surfaces should be cover by tarpaulin. iii. Temporary access roads should be protected by crushed stone or gravel. iv. Intercepting channels should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. v. Trenches should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D10c	Are the actions to be taken when a rainstorm is imminent or forecast ? (Appendix A2 of ProPECC PN 1/94) i. Silt removal facilities, channels and manholes should be checked to ensure that they can function properly. ii. Open stockpiles of construction materials (e.g. aggregates, sand and fill materials) on site should be covered with tarpaulin or similar fabric. iii. All temporary covers to slopes and stockpiles should be secured.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D10d	Are the actions to be taken during or after rainstorms ? (Appendix A2 of ProPECC PN 1/94) i. Silt removal facilities, channels and manholes should be checked and maintained to ensure satisfactory working conditions. Attention should be given to safety when carrying out this work.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11a	Are all vehicles and plant cleaned before leaving a construction site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11b	Is the wheel washing bay provided at every site exit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11c	Are the vehicle wash-water have sand and silt settled out and removed at least on a weekly basis?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11d	Is the wheel wash overflow directed to silt removal facilities before being discharged to the storm drain?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D11e	Is the section of construction road between the wheel washing bay and the public road paved with backfill?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11f	Is the treated wastewater reused for vehicle washing, dust suppression and general cleaning ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D12a	Are oil interceptors provided in the site drainage system downstream of any oil/ fuel pollution sources?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

D12b	Are the oil interceptors emptied and cleaned regularly to prevent the release of O&G into the storm water drainage system after accidental spillage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D12c	Has a bypass provided to prevent flushing during heavy rain?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D13	Are the construction solid waste, debris and rubbish on site collected, handled and disposed of properly? (same with waste item)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D14	Are all fuel tanks and storage areas provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D15	Is Intercepting bund or barrier along the roadside constructed to prevent pollution risk arising from work area (waste reception area)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D16	Are site drainage systems provided over the entire project site with sediment control facilities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D17	Are sedimentation tanks provided to treat the large amount of sediment-laden wastewater generated from wheel washing, site runoff and construction works?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D18	Is there any sediment plume observed in nearby watercourses?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sewage Effluent from Workforce (On-site sanitary facilities)					
D19a	Are portable chemical toilets and sewage holding tanks provided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D19b	Is the sewage generated from toilets collected by licensed contractor and responsible for disposal and maintenance?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D20	Are the notices posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
Accidental Spillage of Chemical (Service workshop and maintenance facilities)					
D21a	Are the service workshop and maintenance facilities located within a bunded area, and sumps and oil interceptors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D21b	Are all maintenance of equipment involving activities with potential for leakage and spillage undertaken within the areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D21c	Is chemical leakage or spillages contained and cleaned up immediately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
Surface Water Drainage System					
D22a	Is the temporary surface water drainage system provided to manage runoff?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D22b	Does the system consist of channel as constructed around the perimeter of the site area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D22c	Does the system collect surface water from the areas of higher elevations to those of lower elevations and ultimately to the discharge point?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D22d	Is the erosion minimised?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D23a	Does the system include the use of a silt fence around the soil stockpile areas to prevent sediment from entering the system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

D23b	Is the regular cleaning carried out to prevent blockage of the passage of waste flow in silt fence?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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E	Waste / Chemical Management	N/A or Not Observed	Yes	No	Remarks / Photo
Waste Management					
General Waste					
E1	Is the general waste generated on-site stored in enclosed bins or compaction units separately from the construction and chemical wastes?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to Observation 1
E2a	Is the general waste collected properly by using the waste separation facilities for paper, aluminium cans, plastic bottles etc.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E2b	Does accumulation of waste avoid?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to Observation 1
E2c	Is waste disposed regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E2d	Regular waste collection by approved waste collector in purpose-built vehicles?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E3	Burning of refuse on construction site prohibited?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C&D Materials					
E4a	Are there any contract documents provided to allow and promote the use of recycled aggregates where appropriate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E4b	Are the C&D materials sorted and recycled on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E5a	Is the durable formwork or plastic facing for construction works used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E5b	Do the wooden hoardings avoid to be used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E5c	Is metal hoarding used to enhance the possibility of recycling?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6a	Are the concrete and masonry used as general fill ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6b	Are the steel reinforcement bars used by scrap steel mills?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6c	Is the segregation and storage of C&D wastes undertaken in designated area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6d	Does the use of reusable steel formwork maximise?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E7a	Are the temporary stockpiles maintained regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E7b	Is the excavated fill material reused for backfilling and reinstatement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E8a	Are the excavated slope , stockpile material and bund walls covered by tarpaulin?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E8b	Are covering trucks or transporting wastes in enclosed containers when transportation of waste ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E8c	Are waste storage area properly cleaned and do not cause windblown litter and dust nuisance?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E9	Is hydroseeding of the topsoil on the stockpile implemented to improve visual appearance and prevent soil erosion?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E10	Is the 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 implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

E11	Are the training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concept implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E12	Are the regular cleaning and maintenance programme for drainage systems, sumps, oil interceptors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E13a	Are wood, steel and other metals separated for re-use and/or recycling?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E13b	Do the excavated materials appear contaminated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
E13c	If suspected contaminated, appropriate procedures followed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A								
E14	Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E15	Are the public fill and C&D waste segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
Chemical Waste / Waste Oil													
E16	Are chemicals and waste oil recycled or disposed properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 3 Oct 2023 Observation 1								
Chemical Packaging													
E17a	Have the containers a capacity of <450 L unless the specification has been approved by EPD?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A								
E17b	Are the containers (holding, resistant to corrosion, maintained in a good condition, and securely closed) used for storage of chemical wastes ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to Observation 2								
Chemical Labelling													
E18	Is chemical waste or waste oil stored and labelled in English and Chinese properly in designated area? <table border="1" data-bbox="220 1261 746 1424"> <thead> <tr> <th>Capacity of Container</th> <th>Dimensions of Label</th> </tr> </thead> <tbody> <tr> <td>< 50L</td> <td>No less than 90 x 100mm</td> </tr> <tr> <td>50 to 450L</td> <td>No less than 120 x 150mm</td> </tr> <tr> <td>> 450L</td> <td>No less than 180 x 200mm</td> </tr> </tbody> </table>	Capacity of Container	Dimensions of Label	< 50L	No less than 90 x 100mm	50 to 450L	No less than 120 x 150mm	> 450L	No less than 180 x 200mm	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to Observation 2
Capacity of Container	Dimensions of Label												
< 50L	No less than 90 x 100mm												
50 to 450L	No less than 120 x 150mm												
> 450L	No less than 180 x 200mm												
Chemical Waste / Fuel Storage Area													
E19a	Are the storage area are clearly labelled and separated (if needed)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								
E19b	Are the storage area enclosed 3 sides by walls/fence of ≥2m tall and bounded with adequate bund capacity (>110% of largest container) or do the storage area allow storage of 20% of total volume of waste ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								
E19c	Do the storage areas have adequate ventilation and be covered to prevent rainfall entering and reduce heat from sunlight?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								
E19d	Are the fuel tanks and chemical storage areas provided with locks and sited on sealed areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								
E20	Is chemical waste collected by licensed waste collectors and disposed of at licensed facility eg. Chemical Waste Treatment Centre?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									

Records					
E21	Is a licensed waste hauler used for waste collection ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E22	Are the records of quantities of wastes generated, recycled and disposed properly kept?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E23	For the demolition material / waste, is the number of loads for each day recorded as appropriate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

F	Landfill Gas (LFG)	N/A or Not Observed	Yes	No	Remarks / Photo
Within NENT Landfill Extension					
F1	Are special LFG precautions taken to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F2	Are prominent safety warning signs erected on-site to alert all personnel and visitors of LFG hazards during excavation works.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F3	Is no smoking or burning permitted on-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F4	Are prominent 'No smoking' and 'No Naked Flames' signs erected on-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F5	Is no worker allowed to work alone at any time in excavated trenches or confined areas on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F6	Is adequate fire fighting equipment provided on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F7	Are construction equipment equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F8	Are electrical motors and extension cords explosion-proof and intrinsically safe for use on-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F9	Is 'Permit to Work' system implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F10	Are welding, flame-cutting or other hot works conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F11a	For pipng assembly or conduit construction , are all valves and seals closed immediately after installation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F11b	Are the pipe ends sealed on one side during installation if installation of large diameter pipes (diameter > 600mm) is required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F11c	Is forced ventilation implemented prior to operation of installed pipeline ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F11d	Is forced ventilation implemented for works inside trenches deeper than 1m ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F12	Is frequency and location of LFG monitoring within excavation area determined prior to commencement of works? *LFG monitoring in excavations should be conducted at < 10mm from exposed ground surface.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F13	For excavation works, Is LFG monitoring 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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

(Construction Phase)

Environmental Site Inspection Checklist (Rev. 3)

F14	Are LFG monitoring conducted periodically when any cracks on ground level encountered on-site? *Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F15a	Are LFG precautionary measures involved in excavation and pipng works provided in accordance with LFG Guidance Note and included in Safety Plan of construction phase?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F15b	Are temporary offices or buildings located where free LFG has been proven or raised clear of ground at a separation distance of at least 500mm?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F16	Is a Safety Officer trained in the use of gas detection equipment and LFG- related hazards present on-site throughout the groundwork phase? *The Safety Officer should be provided with an intrinsically safe portable instrument appropriately calibrated and capable of measuring the following gases: •CH ₄ : 0-100% and LEL: 0-100%/v •CO ₂ : 0-100% •O ₂ : 0-21%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F17a	Periodically during groundwork construction, Is the works area monitored for CH ₄ CO ₂ and O ₂ using appropriately calibrated portable gas detection equipment? *The monitoring frequency and areas should be established prior to commencement of groundwork either by Safety Officer or appropriately qualified person.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F17b	Is routine monitoring carried out in all excavations, manholes, created by temporary storage of building materials on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F17c	Are all measurements in excavations made with monitoring tube located < 10mm from exposed ground surface?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F18	For excavations > 1m, are measurements 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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F19	For excavations 300mm to 1m, are measurements conducted? • Directly after excavation has been completed; and • Periodic all whilst excavation remains open.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F20	For excavations < 300mm, are monitoring omitted at the discretion of Safety Officer or appropriately qualified person?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

G	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo
G1	Is the work site confined within site boundaries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G2	Is damage to surrounding areas avoided ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G3	Are the protective fencing erected along or beyond the perimeter of the tree protection zone of each individual tree?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Advanced screening tree planting					
G4a	Is early planting using fast growing plants and tall shrubs at strategic locations within site implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G4b	Are the roadside planter and shrub planting implemented in front of Cheung Sha Temple ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Boundary Green Belt planting					
G5	Are the fast growing and fire-resistant plant species planted around the site perimeter?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Temporary landscape treatment as green surface cover					
G6	Are grass hydroseeding or synthetic covering material of green colour used as a temporary slope cover ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Existing tree preservation					
G7	Are existing and affected tree which identified as ecological significant preserved whenever possible?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

H	Ecology	N/A or Not Observed	Yes	No	Remarks / Photo
H1	Is transplantation of the important plant species implemented? Is post-transplantation maintained and monitored regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

I	Environmental Complaint	N/A or Not Observed	Yes	No	Remarks / Photo
I1	Environmental Complaint received during this week?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
J General Housekeeping / Others					
J1	Are the defined boundaries of working areas identified to prevent loss of vegetation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
J2	Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Follow up action for previous Site Inspection:

1. 25 September 2023 Observation 3 - The exposed slope near sedimentation basin at SBA was covered with impervious sheet by the contractor.
2. 11 October 2023 Observation 1 - The accumulated water at the waste skip of Portion A was cleared by the contractor.
3. 11 October 2023 Observation 2 - The exposed slope at assess road of Portion E4 was covered with impervious sheet by the contractor.
4. 11 October 2023 Observation 3 - The drip tray was placed under the chemical container at Portion E4 by the contractor.
5. 11 October 2023 Observation 4 - The exposed slope at assess road of Portion E4 and SBA was covered with impervious sheet by the contractor.
6. 11 October 2023 Observation 5 - The accumulated water at the drip tray of SBA was cleared by the contractor.

Observation(s):





1. The overloading of enclosed bin at Portion A is found.
2. The chemical labelling should be provided for lots of chemicals at SBA and oil drum at Portion E3-1. The chemicals at SBA should be placed at the proper location for storage.

Reminder(s):




1. The contractor has been reminded to provide regular water spraying to the haul road to control the dust level.
2. The contractor has been reminded to be taken the precautions in accordance with Appendix A2 of ProPECC 1/94 for upcoming rainstorm.

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


1. The contractor has been recommended to provide enough enclosed bins for collection of general waste at Portion A and the frequency for collection of general waste should be increased.
2. The contractor has been advised that the suitable chemical label should be placed on the chemical containers. The chemicals should be placed in the proper location for storage.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:				
Name:	Jason Man	Echo Hung	Matt Choy/Kristy Wong	Sylvia Ho
Date:	16 October 2023	16 October 2023	16 October 2023	16 October 2023

PART I Follow-up status of the previous site inspection

Observation and Recommendation	Follow-up status
<p><u>18 September 2023 Observation 6</u></p>  <p>Sediment/ silt traps shall be incorporated in the temporary drainage system to enhance retention time for silt/s and traps of the silt removal facilities be 5 minutes under maximum flow conditions.</p>	<p>Waiting for contractor input</p>
<p><u>25 September 2023 Observation 1</u></p> <p><u>SBA</u></p>   <p>The main haul road and work site should be wetted regularly to minimize the dust dispersion.</p>	<p><u>SBA</u></p> <p>Waiting for Contractor's Input</p>



Observation and Recommendation	Follow-up status
<p><u>25 September 2023 Observation 3</u></p>  <p>The exposed slope surface along the channel should be paved to reduce SS level in the wastewater.</p>	 <p>The exposed slope near sedimentation basin at SBA was covered with impervious sheet by the contractor.</p>
<p><u>3 October 2023 Observation 1</u></p>  <p>The stagnant water in drip tray should be cleared of in Portion E4.</p>	<p>Waiting for Contractor's Input</p>
<p><u>11 October 2023 Observation 1</u></p>  <p>The accumulated water was found at waste skip of Portion A.</p>	 <p>The accumulated water at the waste skip of Portion A was cleared by the contractor.</p>

Observation and Recommendation	Follow-up status
<p data-bbox="132 244 474 273"><u>11 October 2023 Observation 2</u></p> <p data-bbox="132 293 427 322"><u>Site Entrance at Portion E4</u></p>  <p data-bbox="132 784 424 813"><u>Assess Road at Portion E4</u></p>  <p data-bbox="132 1276 694 1335">The slope surface protection should be enhanced at Portion E4 near entrance and assess road.</p>	<p data-bbox="788 472 1082 501"><u>Site Entrance at Portion E4</u></p> <p data-bbox="970 521 1235 551">Waiting for Contractor Input</p> <p data-bbox="788 566 1078 595"><u>Assess Road at Portion E4</u></p>  <p data-bbox="788 1055 1417 1113">The exposed slope at assess road of Portion E4 was covered with impervious sheet by the contractor.</p>
<p data-bbox="132 1355 474 1384"><u>11 October 2023 Observation 3</u></p>  <p data-bbox="132 1888 762 1946">The drip tray should be placed under the chemical container at Portion E4.</p>	 <p data-bbox="788 1926 1417 1984">The drip tray was placed under the chemical container at Portion E4 by the contractor.</p>

Observation and Recommendation	Follow-up status
<p data-bbox="134 253 472 280">11 October 2023 Observation 4</p>  <p data-bbox="134 1733 759 1794">The exposed slope should be covered with impervious sheet at the SBA and Portion E4.</p>	 <p data-bbox="791 1480 1417 1541">The exposed slope at assess road of Portion E4 and SBA was covered with impervious sheet by the contractor.</p>

Observation and Recommendation	Follow-up status
<p data-bbox="135 255 470 277">11 October 2023 Observation 5</p>   <p data-bbox="135 1249 751 1279">The accumulated water was found at the drip tray of SBA.</p>	  <p data-bbox="791 1167 1418 1218">The accumulated water at the drip tray of SBA was cleared by the contractor.</p>

PART II Observation and recommendation identified during the environmental site inspection

Observation and Recommendation	Follow-up status
<p>16 October 2023 Observation 1</p>  <p>The overloading of enclosed bin at Portion A was found.</p>	<p>Waiting for Contractor Input</p>
<p>16 October 2023 Observation 2</p>   <p>The chemical labelling should be provided for lots of chemicals at SBA and oil drum at Portion E3-1. The chemicals at SBA should be placed at the proper location for storage.</p>	<p>Waiting for Contractor Input</p>

PART III Temporary Surface Water Drainage System (TSWDS) Photo Record during the environmental site inspection

<p>TSWDS at Portion D</p>	<p>Sedimentation tank at Portion A</p>
	
<p>TSWDS at Portion A</p>	<p>TSWDS at Portion A</p>
	
<p>TSWDS at Portion A</p>	<p>Silt fence with cut-off drain at SBA</p>
	

Silt fence with cut-off drain at SBA	Silt fence with cut-off drain at SBA
 A photograph showing a silt fence with a cut-off drain at a construction site. The fence is made of black plastic sheeting supported by wooden posts. A white truck is parked on a dirt road to the left. The background shows a hillside with green vegetation.	 A photograph showing a silt fence with a cut-off drain at a construction site. The fence is made of black plastic sheeting supported by wooden posts. A dirt road is in the foreground, and a hillside with green vegetation is in the background.
Sedimentation Basin at SBA	Sedimentation Basin at SBA
 A photograph showing a sedimentation basin at a construction site. The basin is covered with a green plastic sheeting. The surrounding area is rocky and has some green vegetation.	 A photograph showing a sedimentation basin at a construction site. The basin is covered with a green plastic sheeting. The surrounding area is rocky and has some green vegetation.
Silt removal facility with sedimentation basin at Portion E4	Existing Channel at Portion E3-1
 A photograph showing a silt removal facility with a sedimentation basin at Portion E4. The facility is made of blue metal structures. The surrounding area is rocky and has some green vegetation.	 A photograph showing an existing channel at Portion E3-1. The channel is a narrow stream with a concrete wall on one side. The surrounding area is rocky and has some green vegetation.

Existing Channel at Portion E3-1



Inspection Date:	24 October 2023	Inspected By:	Jason Man
Time:	14:00	Weather Condition:	Sunny
Participants:	Henry Lau (ER), Matt Choy (Contractor), Jason Man (ET)		

A	Permits/Licenses	N/A or Not Observed	Yes	No	Remarks / Photo
A1	Are Environmental Permit, license/ other permit displayed at major site exit and vehicle access?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A2	Are Construction Noise Permits/ Environmental license/ other permit available for inspection/posted at site entrance.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A3	Is wastewater discharge licence available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A4	Are trip tickets for chemical waste and construction waste disposal available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A5	Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

B	Air Quality	N/A or Not Observed	Yes	No	Remarks / Photo
B1	Is open burning avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B2	Are plant and equipment well maintained (i.e. without black smoke from powered plant)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B3	Any remedial action undertaken?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B4	Are the worksites wetted with water regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 25 Sep 2023 Observation 1
B5	Are NRMM labels properly affixed on the PMEs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B6	Observed dust source(s)	<input type="checkbox"/> Wind erosion <input checked="" type="checkbox"/> Vehicle/ Equipment Movements <input checked="" type="checkbox"/> Loading/ unloading of materials <input type="checkbox"/> Others: _____			
Air Pollution Control (Construction Dust) Regulation					
Part I Control Requirements for Notifiable Works					
Demolition of building					
B7	Is the area involved demolition activities sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Construction of the superstructure of a building					
B8	Is scaffolding erected around the perimeter of a building under construction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

B9	Are effective dust screens, sheeting or netting provided to enclose the scaffolding from the ground floor level of the building, or a canopy provided from the first floor level up to the highest level of the scaffolding?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B10	Is the skip for materials transport enclosed by impervious sheeting ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Part III General Control Requirements					
Site boundary and entrance					
B11	Are wheel washing facilities with high pressure water jet provided at all site exits if practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B12	Are the areas of washing facilities and the road section between the washing facilities and the exit point paved with concrete, bituminous materials or hardcore?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B13	Are the hoarding $\geq 2.4\text{m}$ tall provided at the site boundary near a road, street, service lane or other area accessible to the public?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Assess road					
B14	Are every main haul road (having a vehicle passing rate of higher than 4 in any 30 minutes) paved with concrete, bituminous materials, hardcore or metal plates, and kept clear of dusty materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B15	Are every main haul road sprayed with water or a dust suppression chemical?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B16	Is the portion of any road leading only to construction site (within 30m of a vehicle entrance or exit) kept clear of dusty materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B17	Are appropriate speed limit sign displayed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B18	Is unpaved main haul road wet by water spraying?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 25 Sep 2023 Observation 1
Cement and dry pulverized fuel ash (PFA)					
B19	Is every stock of more than 20 bags of cement or dry pulverized fuel ash (PFA) covered entirely by impervious sheeting or placed in an area sheltered on the top and 3 sides?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B20	Are the activities of loading, unloading, transfer, handing or storage of bulk cement or dry PFA carried out in a totally enclosed system or facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B21	Is any vent or exhaust fitted with an effective fabric filter or equipment air pollution control system ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Exposed earth					
B22	Is the exposed earth properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within 6 months after last construction activity on the construction site or part of the construction site where the exposed earth lies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Part IV Control Requirements for Individual Activities					
Stockpiling of dusty materials					
B23	Are the stockpiling of dusty materials (a) covered entirely by impervious sheeting or (b) placed in an area sheltered on the top and the 3 sides or (c) sprayed with water or a dust suppression chemical to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B24	Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Loading, unloading or transfer of dusty materials					
B25	Are all dusty materials sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B26	Are all trucks loaded to a level within the side and tail boards?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Use of vehicles					
B27	Are every vehicle washed immediately to remove any dusty materials from its body and wheels before leaving a construction site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B28	Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B29	Are site vehicle movements confined to designated roads?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pneumatic or power-driven drilling, cutting and polishing					
B30	Are surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operations takes place sprayed with water or a dust suppression chemical continuously? *Unless the process is accompanied by the operation of an effective dust extraction and filtering device.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Debris handling					
B31	Are any debris covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the 3 sides?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B32	Are every debris chute shall be enclosed by impervious sheeting or similar materials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B33	Are the watering spray or a dust suppression chemical conducted before debris is dumped into a debris chute?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Excavation or earth moving				
B34	Are the working area of any excavation or earth moving operation sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Site clearance				
B35	Are the working area for the uprooting of trees, shrubs, or vegetation or for the removal of boulders, poles, pillars or temporary or permanent structures sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B36	Are all demolished items (including trees, shrubs, vegetation, boulders, poles, pillars, structures, debris, rubbish and other items arising from site clearance) that may dislodge dust particles covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides within a day of demolition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

C	Construction Noise	N/A or Not Observed	Yes	No	Remarks / Photo
C1	Is well-maintained plant operated on-site and plant served regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C2	Are vehicles and equipment switched off or throttled down while not in use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C3	Is the noise directed away from nearby NSRs ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C4	Are the silencers or mufflers properly fitted on construction equipment and maintained regularly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
C5	Are mobile and/or noisy plant sited as far away from NSRs as possible and practicable and orientated so that the noise is directed away from nearby NSRs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C6	Are material stockpiles , mobile container office and other structures utilised to screen noisy activities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C7	Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
C8	Are noise barriers (typically density @14kg/m ²) acoustic mat or full enclosure close to noise plants including air compressor, generators and saw etc. provided to protect NSRs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
C9	Is the sequencing operation of construction plants where practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C10	Is the hoarding maintained properly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C11	Air compressors (500 kPa or above) and hand held percussive breaker (mass of above 10 kg) with valid noise labels?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C12	Are compressor operated with doors closed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C13	QPME used with valid noise labels?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C14	Major noise source(s)	<input checked="" type="checkbox"/> Traffic <input checked="" type="checkbox"/> Construction activities inside of site <input type="checkbox"/> Construction activities outside of site <input type="checkbox"/> Others: _____			

D	Water Quality	N/A or Not Observed	Yes	No	Remarks / Photo
Construction Runoff					
D1a	At the start of site establishment, are perimeter cut-off drains constructed to direct off-site water around the site with internal drainage works and erosion and sedimentation control facilities implemented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D1b	Are channels, earth bunds or sandbag barriers provided on site to properly direct stormwater to silt removal facilities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D2a	Have dikes or embankments for flood protection implemented around the boundaries of earthwork areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D2b	Have temporary ditches provided to facilitate the runoff discharge into an appropriate watercourse, through a site/ sediment trap?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D2c	Are the sediment/ silt traps incorporated in the permanent drainage channels to enhance deposition rate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D3	Are the retention time for silt/s and traps of the silt removal facilities be 5 minutes under maximum flow conditions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 18 Sep 2023 Observation 6
D4a	Are surface excavation works minimised during rainy seasons (April to September), as possible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D4b	Are all exposed earth areas completed or vegetated as soon as possible after earthworks completed, or alternatively, within 14 days of the cessation of earthworks where practicable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D4c	Are exposed slope surfaces covered by tarpaulin sheets?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Shotcrete in progress.
D5a	Have the overall slope of the site should be kept a minimum?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D5b	Are all trafficked areas and access roads protected by coarse stone ballast?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D6a	Are all drainage facilities and erosion and sediment control structures inspected regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D6b	Are all drainage facilities and erosion and sediment control structures maintained to ensure proper and efficient operation at all times and particularly following rainstorms?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D6c	Is the deposited silt and grit removed regularly and disposed of by spreading evenly over stable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D7a	Have the excavation of trenches in wet periods be dug and backfilled in short sections?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D7b	Is rainwater pumped out from trenches discharged into storm drains via silt system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D8	Are open stockpiles of construction materials e.g. aggregates and sand of more than 50m ³ on site covered with tarpaulin or similar fabric during rainstorms?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D9a	Are manholes adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D9b	Are the discharges of surface run-off into foul sewer always prevented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

D10a	Are particular attention paid to the control of silty surface runoff during storm event ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D10b	Are the precautions to be taken at any time of year when rainstorms are likely? (Appendix A2 of ProPECC PN 1/94) i. Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly. ii. Temporarily exposed slope surfaces should be cover by tarpaulin. iii. Temporary access roads should be protected by crushed stone or gravel. iv. Intercepting channels should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. v. Trenches should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D10c	Are the actions to be taken when a rainstorm is imminent or forecast ? (Appendix A2 of ProPECC PN 1/94) i. Silt removal facilities, channels and manholes should be checked to ensure that they can function properly. ii. Open stockpiles of construction materials (e.g. aggregates, sand and fill materials) on site should be covered with tarpaulin or similar fabric. iii. All temporary covers to slopes and stockpiles should be secured.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D10d	Are the actions to be taken during or after rainstorms ? (Appendix A2 of ProPECC PN 1/94) i. Silt removal facilities, channels and manholes should be checked and maintained to ensure satisfactory working conditions. Attention should be given to safety when carrying out this work.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11a	Are all vehicles and plant cleaned before leaving a construction site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11b	Is the wheel washing bay provided at every site exit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11c	Are the vehicle wash-water have sand and silt settled out and removed at least on a weekly basis?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11d	Is the wheel wash overflow directed to silt removal facilities before being discharged to the storm drain?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D11e	Is the section of construction road between the wheel washing bay and the public road paved with backfill?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11f	Is the treated wastewater reused for vehicle washing, dust suppression and general cleaning ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D12a	Are oil interceptors provided in the site drainage system downstream of any oil/ fuel pollution sources?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D12b	Are the oil interceptors are emptied and cleaned regularly to prevent the release of O&G into the storm water drainage system after accidental spillage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D12c	Has a bypass provided to prevent flushing during heavy rain?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

D13	Are the construction solid waste, debris and rubbish on site collected, handled and disposed of properly? (same with waste item)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D14	Are all fuel tanks and storage areas provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D15	Is Intercepting bund or barrier along the roadside constructed to prevent pollution risk arising from work area (waste reception area)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D16	Are site drainage systems provided over the entire project site with sediment control facilities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D17	Are sedimentation tanks provided to treat the large amount of sediment-laden wastewater generated from wheel washing, site runoff and construction works?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D18	Is there any sediment plume observed in nearby watercourses?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sewage Effluent from Workforce (On-site sanitary facilities)					
D19a	Are portable chemical toilets and sewage holding tanks provided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D19b	Is the sewage generated from toilets collected by licensed contractor and responsible for disposal and maintenance?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D20	Are the notices posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
Accidental Spillage of Chemical (Service workshop and maintenance facilities)					
D21a	Are the service workshop and maintenance facilities located within a bunded area, and sumps and oil interceptors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D21b	Are all maintenance of equipment involving activities with potential for leakage and spillage undertaken within the areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D21c	Is chemical leakage or spillages contained and cleaned up immediately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
Surface Water Drainage System					
D22a	Is the temporary surface water drainage system provided to manage runoff?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D22b	Does the system consist of channel as constructed around the perimeter of the site area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D22c	Does the system collect surface water from the areas of higher elevations to those of lower elevations and ultimately to the discharge point?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D22d	Is the erosion minimised?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D23a	Does the system include the use of a silt fence around the soil stockpile areas to prevent sediment from entering the system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D23b	Is the regular cleaning carried out to prevent blockage of the passage of waste flow in silt fence?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

E	Waste / Chemical Management	N/A or Not Observed	Yes	No	Remarks / Photo
Waste Management					
General Waste					
E1	Is the general waste generated on-site stored in enclosed bins or compaction units separately from the construction and chemical wastes?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 16 Oct 2023 Observation 1 Refer to 24 Oct 2023 Observation 2
E2a	Is the general waste collected properly by using the waste separation facilities for paper, aluminium cans, plastic bottles etc.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E2b	Does accumulation of waste avoid?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 16 Oct 2023 Observation 1
E2c	Is waste disposed regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E2d	Regular waste collection by approved waste collector in purpose-built vehicles?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E3	Burning of refuse on construction site prohibited?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C&D Materials					
E4a	Are there any contract documents provided to allow and promote the use of recycled aggregates where appropriate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E4b	Are the C&D materials sorted and recycled on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E5a	Is the durable formwork or plastic facing for construction works used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E5b	Do the wooden hoardings avoid to be used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E5c	Is metal hoarding used to enhance the possibility of recycling?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6a	Are the concrete and masonry used as general fill ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6b	Are the steel reinforcement bars used by scrap steel mills?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6c	Is the segregation and storage of C&D wastes undertaken in designated area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6d	Does the use of reusable steel formwork maximise?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E7a	Are the temporary stockpiles maintained regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E7b	Is the excavated fill material reused for backfilling and reinstatement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E8a	Are the excavated slope , stockpile material and bund walls covered by tarpaulin?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E8b	Are covering trucks or transporting wastes in enclosed containers when transportation of waste ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E8c	Are waste storage area properly cleaned and do not cause windblown litter and dust nuisance?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E9	Is hydroseeding of the topsoil on the stockpile implemented to improve visual appearance and prevent soil erosion?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

E10	Is the 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 implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E11	Are the training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concept implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E12	Are the regular cleaning and maintenance programme for drainage systems, sumps, oil interceptors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E13a	Are wood , steel and other metals separated for re-use and/or recycling?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E13b	Do the excavated materials appear contaminated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
E13c	If suspected contaminated, appropriate procedures followed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A								
E14	Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E15	Are the public fill and C&D waste segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
Chemical Waste / Waste Oil													
E16	Are chemicals and waste oil recycled or disposed properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 3 Oct 2023 Observation 1								
Chemical Packaging													
E17a	Have the containers a capacity of <450 L unless the specification has been approved by EPD?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A								
E17b	Are the containers (holding, resistant to corrosion, maintained in a good condition, and securely closed) used for storage of chemical wastes ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 16 Oct 2023 Observation 2								
Chemical Labelling													
E18	Is chemical waste or waste oil stored and labelled in English and Chinese properly in designated area? <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Capacity of Container</th> <th>Dimensions of Label</th> </tr> </thead> <tbody> <tr> <td>< 50L</td> <td>No less than 90 x 100mm</td> </tr> <tr> <td>50 to 450L</td> <td>No less than 120 x 150mm</td> </tr> <tr> <td>> 450L</td> <td>No less than 180 x 200mm</td> </tr> </tbody> </table>	Capacity of Container	Dimensions of Label	< 50L	No less than 90 x 100mm	50 to 450L	No less than 120 x 150mm	> 450L	No less than 180 x 200mm	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 16 Oct 2023 Observation 2
Capacity of Container	Dimensions of Label												
< 50L	No less than 90 x 100mm												
50 to 450L	No less than 120 x 150mm												
> 450L	No less than 180 x 200mm												
Chemical Waste / Fuel Storage Area													
E19a	Are the storage area are clearly labelled and separated (if needed)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								
E19b	Are the storage area enclosed 3 sides by walls/fence of ≥2m tall and bounded with adequate bund capacity (>110% of largest container) or do the storage area allow storage of 20% of total volume of waste ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								
E19c	Do the storage areas have adequate ventilation and be covered to prevent rainfall entering and reduce heat from sunlight?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								

E19d	Are the <u>fuel tanks</u> and <u>chemical storage areas</u> provided with locks and sited on sealed areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
E20	Is chemical waste collected by <u>licensed waste collectors</u> and disposed of at <u>licensed facility</u> eg. Chemical Waste Treatment Centre?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Records					
E21	Is a licensed waste hauler used for <u>waste collection</u> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E22	Are the <u>records of quantities of wastes</u> generated, recycled and disposed properly kept?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E23	For the demolition material / waste, is the <u>number of loads</u> for each day recorded as appropriate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

F	Landfill Gas (LFG)	N/A or Not Observed	Yes	No	Remarks / Photo
Within NENT Landfill Extension					
F1	Are special LFG precautions taken to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F2	Are prominent safety warning signs erected on-site to alert all personnel and visitors of LFG hazards during excavation works.?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F3	Is no smoking or burning permitted on-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F4	Are prominent 'No smoking' and 'No Naked Flames' signs erected on-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F5	Is no worker allowed to work alone at any time in excavated trenches or confined areas on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F6	Is adequate fire fighting equipment provided on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F7	Are construction equipment equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F8	Are electrical motors and extension cords explosion-proof and intrinsically safe for use on-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F9	Is 'Permit to Work' system implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F10	Are welding, flame-cutting or other hot works conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F11a	For pipng assembly or conduit construction , are all valves and seals closed immediately after installation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F11b	Are the pipe ends sealed on one side during installation if installation of large diameter pipes (diameter > 600mm) is required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F11c	Is forced ventilation implemented prior to operation of installed pipeline ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F11d	Is forced ventilation implemented for works inside trenches deeper than 1m ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F12	Is frequency and location of LFG monitoring within excavation area determined prior to commencement of works? *LFG monitoring in excavations should be conducted at < 10mm from exposed ground surface.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F13	For excavation works, Is LFG monitoring 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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

(Construction Phase)

Environmental Site Inspection Checklist (Rev. 3)

F14	Are LFG monitoring conducted periodically when any cracks on ground level encountered on-site? *Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F15a	Are LFG precautionary measures involved in excavation and pipng works provided in accordance with LFG Guidance Note and included in Safety Plan of construction phase?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F15b	Are temporary offices or buildings located where free LFG has been proven or raised clear of ground at a separation distance of at least 500mm?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F16	Is a Safety Officer trained in the use of gas detection equipment and LFG- related hazards present on-site throughout the groundwork phase? *The Safety Officer should be provided with an intrinsically safe portable instrument appropriately calibrated and capable of measuring the following gases: •CH ₄ : 0-100% and LEL: 0-100%/v •CO ₂ : 0-100% •O ₂ : 0-21%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F17a	Periodically during groundwork construction, Is the works area monitored for CH ₄ CO ₂ and O ₂ using appropriately calibrated portable gas detection equipment? *The monitoring frequency and areas should be established prior to commencement of groundwork either by Safety Officer or appropriately qualified person.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F17b	Is routine monitoring carried out in all excavations, manholes, created by temporary storage of building materials on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F17c	Are all measurements in excavations made with monitoring tube located < 10mm from exposed ground surface?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F18	For excavations > 1m, are measurements 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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F19	For excavations 300mm to 1m, are measurements conducted? • Directly after excavation has been completed; and • Periodic all whilst excavation remains open.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F20	For excavations < 300mm, are monitoring omitted at the discretion of Safety Officer or appropriately qualified person?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

G	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo
G1	Is the work site confined within site boundaries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G2	Is damage to surrounding areas avoided ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G3	Are the protective fencing erected along or beyond the perimeter of the tree protection zone of each individual tree?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Advanced screening tree planting					
G4a	Is early planting using fast growing plants and tall shrubs at strategic locations within site implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G4b	Are the roadside planter and shrub planting implemented in front of Cheung Sha Temple ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Boundary Green Belt planting					
G5	Are the fast growing and fire-resistant plant species planted around the site perimeter?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Temporary landscape treatment as green surface cover					
G6	Are grass hydroseeding or synthetic covering material of green colour used as a temporary slope cover ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Existing tree preservation					
G7	Are existing and affected tree which identified as ecological significant preserved whenever possible?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

H	Ecology	N/A or Not Observed	Yes	No	Remarks / Photo
H1	Is transplantation of the important plant species implemented? Is post-transplantation maintained and monitored regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

I	Environmental Complaint	N/A or Not Observed	Yes	No	Remarks / Photo
I1	Environmental Complaint received during this week?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
J General Housekeeping / Others					
J1	Are the defined boundaries of working areas identified to prevent loss of vegetation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
J2	Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Follow up action for previous Site Inspection:**Observation(s):**




1. The chemical containers are not placed on the drip tray at Portion E3-1.
2. The general waste was found at the floor of Portion E3-1.

Reminder(s):




1. The contractor has been reminded to increase the water spraying at the unpaved area and assess road.



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


1. The contractor has been recommended that the chemical containers should be placed on the drip tray at Portion E3-1.
2. The enclosed bins should be placed at the proper area of Portion E3-1.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Jason Man	/	Matt Choy/Kristy Wong	Sylvia Ho
Date:	24 October 2023	/	24 October 2023	24 October 2023

PART I Follow-up status of the previous site inspection

Observation and Recommendation	Follow-up status
<p><u>18 September 2023 Observation 6</u></p>  <p>Sediment/ silt traps shall be incorporated in the temporary drainage system to enhance retention time for silt/s and traps of the silt removal facilities be 5 minutes under maximum flow conditions.</p>	<p>Waiting for contractor input</p>
<p><u>25 September 2023 Observation 1</u></p> <p><u>SBA</u></p>   <p>The main haul road and work site should be wetted regularly to minimize the dust dispersion.</p>	<p><u>SBA</u></p> <p>Waiting for Contractor's Input</p>

Observation and Recommendation	Follow-up status
<p data-bbox="132 248 422 275">3 October 2023 Observation 1</p>  <p data-bbox="132 790 759 817">The stagnant water in drip tray should be cleared of in Portion E4.</p>	<p data-bbox="963 521 1246 548">Waiting for Contractor's Input</p>
<p data-bbox="132 840 432 866">16 October 2023 Observation 1</p>  <p data-bbox="132 1361 668 1388">The overloading of enclosed bin at Portion A was found.</p>	<p data-bbox="963 1104 1238 1131">Waiting for Contractor Input</p>

Observation and Recommendation	Follow-up status
<p data-bbox="134 248 437 275"><u>16 October 2023 Observation 2</u></p>  <p data-bbox="134 1267 762 1346">The chemical labelling should be provided for lots of chemicals at SBA and oil drum at Portion E3-1. The chemicals at SBA should be placed at the proper location for storage.</p>	<p data-bbox="970 786 1235 813">Waiting for Contractor Input</p>

PART II Observation and recommendation identified during the environmental site inspection

Observation and Recommendation	Follow-up status
<p><u>24 October 2023 Observation 1</u></p>  <p>The chemical containers are not placed on the drip tray at Portion E3-1.</p>	<p>Waiting for Contractor Input</p>
<p><u>24 October 2023 Observation 2</u></p>  <p>The general waste was found at the floor of Portion E3-1.</p>	<p>Waiting for Contractor Input</p>

PART III Temporary Surface Water Drainage System (TSWDS) Photo Record during the environmental site inspection

TSWDS at Portion D	Sedimentation tank at Portion A
	
Sedimentation basin at Portion E4	
	

Inspection Date:	30 October 2023	Inspected By:	Jason Man
Time:	14:00	Weather Condition:	Sunny
Participants:	Kim Tang (ER), Matt Choy (Contractor), Cyrus Lai(ET), Jason Man (ET)		

A	Permits/Licenses	N/A or Not Observed	Yes	No	Remarks / Photo
A1	Are Environmental Permit, license/ other permit displayed at major site exit and vehicle access?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A2	Are Construction Noise Permits/ Environmental license/ other permit available for inspection/posted at site entrance.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A3	Is wastewater discharge licence available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A4	Are trip tickets for chemical waste and construction waste disposal available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A5	Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

B	Air Quality	N/A or Not Observed	Yes	No	Remarks / Photo
B1	Is open burning avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B2	Are plant and equipment well maintained (i.e. without black smoke from powered plant)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B3	Any remedial action undertaken?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B4	Are the worksites wetted with water regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 25 Sep 2023 Observation 1
B5	Are NRMM labels properly affixed on the PMEs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B6	Observed dust source(s)	<input type="checkbox"/> Wind erosion <input checked="" type="checkbox"/> Vehicle/ Equipment Movements <input checked="" type="checkbox"/> Loading/ unloading of materials <input type="checkbox"/> Others: _____			
Air Pollution Control (Construction Dust) Regulation					
Part I Control Requirements for Notifiable Works					
Demolition of building					
B7	Is the area involved demolition activities sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Construction of the superstructure of a building					
B8	Is scaffolding erected around the perimeter of a building under construction?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

B9	Are effective dust screens, sheeting or netting provided to enclose the scaffolding from the ground floor level of the building, or a canopy provided from the first floor level up to the highest level of the scaffolding?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
B10	Is the skip for materials transport enclosed by impervious sheeting ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
Part III General Control Requirements					
Site boundary and entrance					
B11	Are wheel washing facilities with high pressure water jet provided at all site exits if practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B12	Are the areas of washing facilities and the road section between the washing facilities and the exit point paved with concrete, bituminous materials or hardcore?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B13	Are the hoarding $\geq 2.4\text{m}$ tall provided at the site boundary near a road, street, service lane or other area accessible to the public?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Assess road					
B14	Are every main haul road (having a vehicle passing rate of higher than 4 in any 30 minutes) paved with concrete, bituminous materials, hardcore or metal plates, and kept clear of dusty materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B15	Are every main haul road sprayed with water or a dust suppression chemical?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B16	Is the portion of any road leading only to construction site (within 30m of a vehicle entrance or exit) kept clear of dusty materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B17	Are appropriate speed limit sign displayed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B18	Is unpaved main haul road wet by water spraying?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 25 Sep 2023 Observation 1
Cement and dry pulverized fuel ash (PFA)					
B19	Is every stock of more than 20 bags of cement or dry pulverized fuel ash (PFA) covered entirely by impervious sheeting or placed in an area sheltered on the top and 3 sides?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
B20	Are the activities of loading, unloading, transfer, handing or storage of bulk cement or dry PFA carried out in a totally enclosed system or facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B21	Is any vent or exhaust fitted with an effective fabric filter or equipment air pollution control system ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Exposed earth					
B22	Is the exposed earth properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within 6 months after last construction activity on the construction site or part of the construction site where the exposed earth lies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Part IV Control Requirements for Individual Activities					
Stockpiling of dusty materials					
B23	Are the stockpiling of dusty materials (a) covered entirely by impervious sheeting or (b) placed in an area sheltered on the top and the 3 sides or (c) sprayed with water or a dust suppression chemical to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B24	Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Loading, unloading or transfer of dusty materials					
B25	Are all dusty materials sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B26	Are all trucks loaded to a level within the side and tail boards?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Use of vehicles					
B27	Are every vehicle washed immediately to remove any dusty materials from its body and wheels before leaving a construction site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B28	Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B29	Are site vehicle movements confined to designated roads?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pneumatic or power-driven drilling, cutting and polishing					
B30	Are surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operations takes place sprayed with water or a dust suppression chemical continuously? *Unless the process is accompanied by the operation of an effective dust extraction and filtering device.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Debris handling					
B31	Are any debris covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the 3 sides?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B32	Are every debris chute shall be enclosed by impervious sheeting or similar materials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
B33	Are the watering spray or a dust suppression chemical conducted before debris is dumped into a debris chute?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Excavation or earth moving				
B34	Are the working area of any excavation or earth moving operation sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Site clearance				
B35	Are the working area for the uprooting of trees, shrubs, or vegetation or for the removal of boulders, poles, pillars or temporary or permanent structures sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B36	Are all demolished items (including trees, shrubs, vegetation, boulders, poles, pillars, structures, debris, rubbish and other items arising from site clearance) that may dislodge dust particles covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides within a day of demolition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

C	Construction Noise	N/A or Not Observed	Yes	No	Remarks / Photo
C1	Is well-maintained plant operated on-site and plant served regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C2	Are vehicles and equipment switched off or throttled down while not in use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C3	Is the noise directed away from nearby NSRs ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C4	Are the silencers or mufflers properly fitted on construction equipment and maintained regularly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
C5	Are mobile and/or noisy plant sited as far away from NSRs as possible and practicable and orientated so that the noise is directed away from nearby NSRs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C6	Are material stockpiles , mobile container office and other structures utilised to screen noisy activities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C7	Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
C8	Are noise barriers (typically density @14kg/m ²) acoustic mat or full enclosure close to noise plants including air compressor, generators and saw etc. provided to protect NSRs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
C9	Is the sequencing operation of construction plants where practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C10	Is the hoarding maintained properly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C11	Air compressors (500 kPa or above) and hand held percussive breaker (mass of above 10 kg) with valid noise labels?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C12	Are compressor operated with doors closed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C13	QPME used with valid noise labels?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C14	Major noise source(s)	<input checked="" type="checkbox"/> Traffic <input checked="" type="checkbox"/> Construction activities inside of site <input type="checkbox"/> Construction activities outside of site <input type="checkbox"/> Others: _____			

D	Water Quality	N/A or Not Observed	Yes	No	Remarks / Photo
Construction Runoff					
D1a	At the start of site establishment, are perimeter cut-off drains constructed to direct off-site water around the site with internal drainage works and erosion and sedimentation control facilities implemented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D1b	Are channels, earth bunds or sandbag barriers provided on site to properly direct stormwater to silt removal facilities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D2a	Have dikes or embankments for flood protection implemented around the boundaries of earthwork areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D2b	Have temporary ditches provided to facilitate the runoff discharge into an appropriate watercourse, through a site/ sediment trap?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D2c	Are the sediment/ silt traps incorporated in the permanent drainage channels to enhance deposition rate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D3	Are the retention time for silt/s and traps of the silt removal facilities be 5 minutes under maximum flow conditions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 18 Sep 2023 Observation 6
D4a	Are surface excavation works minimised during rainy seasons (April to September), as possible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D4b	Are all exposed earth areas completed or vegetated as soon as possible after earthworks completed, or alternatively, within 14 days of the cessation of earthworks where practicable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D4c	Are exposed slope surfaces covered by tarpaulin sheets?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Shotcrete in progress.
D5a	Have the overall slope of the site should be kept a minimum?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D5b	Are all trafficked areas and access roads protected by coarse stone ballast?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D6a	Are all drainage facilities and erosion and sediment control structures inspected regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D6b	Are all drainage facilities and erosion and sediment control structures maintained to ensure proper and efficient operation at all times and particularly following rainstorms?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D6c	Is the deposited silt and grit removed regularly and disposed of by spreading evenly over stable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D7a	Have the excavation of trenches in wet periods be dug and backfilled in short sections?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D7b	Is rainwater pumped out from trenches discharged into storm drains via silt system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D8	Are open stockpiles of construction materials e.g. aggregates and sand of more than 50m ³ on site covered with tarpaulin or similar fabric during rainstorms?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D9a	Are manholes adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D9b	Are the discharges of surface run-off into foul sewer always prevented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

D10a	Are particular attention paid to the control of silty surface runoff during storm event ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D10b	Are the precautions to be taken at any time of year when rainstorms are likely? (Appendix A2 of ProPECC PN 1/94) i. Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly. ii. Temporarily exposed slope surfaces should be cover by tarpaulin. iii. Temporary access roads should be protected by crushed stone or gravel. iv. Intercepting channels should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. v. Trenches should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D10c	Are the actions to be taken when a rainstorm is imminent or forecast ? (Appendix A2 of ProPECC PN 1/94) i. Silt removal facilities, channels and manholes should be checked to ensure that they can function properly. ii. Open stockpiles of construction materials (e.g. aggregates, sand and fill materials) on site should be covered with tarpaulin or similar fabric. iii. All temporary covers to slopes and stockpiles should be secured.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D10d	Are the actions to be taken during or after rainstorms ? (Appendix A2 of ProPECC PN 1/94) i. Silt removal facilities, channels and manholes should be checked and maintained to ensure satisfactory working conditions. Attention should be given to safety when carrying out this work.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11a	Are all vehicles and plant cleaned before leaving a construction site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11b	Is the wheel washing bay provided at every site exit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11c	Are the vehicle wash-water have sand and silt settled out and removed at least on a weekly basis?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11d	Is the wheel wash overflow directed to silt removal facilities before being discharged to the storm drain?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D11e	Is the section of construction road between the wheel washing bay and the public road paved with backfill?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D11f	Is the treated wastewater reused for vehicle washing, dust suppression and general cleaning ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D12a	Are oil interceptors provided in the site drainage system downstream of any oil/ fuel pollution sources?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D12b	Are the oil interceptors are emptied and cleaned regularly to prevent the release of O&G into the storm water drainage system after accidental spillage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
D12c	Has a bypass provided to prevent flushing during heavy rain?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

D13	Are the construction solid waste, debris and rubbish on site collected, handled and disposed of properly? (same with waste item)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D14	Are all fuel tanks and storage areas provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 30 Oct 2023 Observation 1
D15	Is Intercepting bund or barrier along the roadside constructed to prevent pollution risk arising from work area (waste reception area)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D16	Are site drainage systems provided over the entire project site with sediment control facilities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D17	Are sedimentation tanks provided to treat the large amount of sediment-laden wastewater generated from wheel washing, site runoff and construction works?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D18	Is there any sediment plume observed in nearby watercourses?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sewage Effluent from Workforce (On-site sanitary facilities)					
D19a	Are portable chemical toilets and sewage holding tanks provided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D19b	Is the sewage generated from toilets collected by licensed contractor and responsible for disposal and maintenance?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D20	Are the notices posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
Accidental Spillage of Chemical (Service workshop and maintenance facilities)					
D21a	Are the service workshop and maintenance facilities located within a bunded area, and sumps and oil interceptors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D21b	Are all maintenance of equipment involving activities with potential for leakage and spillage undertaken within the areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
D21c	Is chemical leakage or spillages contained and cleaned up immediately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
Surface Water Drainage System					
D22a	Is the temporary surface water drainage system provided to manage runoff?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D22b	Does the system consist of channel as constructed around the perimeter of the site area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D22c	Does the system collect surface water from the areas of higher elevations to those of lower elevations and ultimately to the discharge point?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D22d	Is the erosion minimised?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D23a	Does the system include the use of a silt fence around the soil stockpile areas to prevent sediment from entering the system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D23b	Is the regular cleaning carried out to prevent blockage of the passage of waste flow in silt fence?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

E	Waste / Chemical Management	N/A or Not Observed	Yes	No	Remarks / Photo
Waste Management					
General Waste					
E1	Is the general waste generated on-site stored in enclosed bins or compaction units separately from the construction and chemical wastes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E2a	Is the general waste collected properly by using the waste separation facilities for paper, aluminium cans, plastic bottles etc.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E2b	Does accumulation of waste avoid?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E2c	Is waste disposed regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E2d	Regular waste collection by approved waste collector in purpose-built vehicles?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E3	Burning of refuse on construction site prohibited?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C&D Materials					
E4a	Are there any contract documents provided to allow and promote the use of recycled aggregates where appropriate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E4b	Are the C&D materials sorted and recycled on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E5a	Is the durable formwork or plastic facing for construction works used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E5b	Do the wooden hoardings avoid to be used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E5c	Is metal hoarding used to enhance the possibility of recycling?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6a	Are the concrete and masonry used as general fill ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6b	Are the steel reinforcement bars used by scrap steel mills?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6c	Is the segregation and storage of C&D wastes undertaken in designated area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E6d	Does the use of reusable steel formwork maximise?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E7a	Are the temporary stockpiles maintained regularly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E7b	Is the excavated fill material reused for backfilling and reinstatement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E8a	Are the excavated slope, stockpile material and bund walls covered by tarpaulin?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E8b	Are covering trucks or transporting wastes in enclosed containers when transportation of waste ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E8c	Are waste storage area properly cleaned and do not cause windblown litter and dust nuisance?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E9	Is hydroseeding of the topsoil on the stockpile implemented to improve visual appearance and prevent soil erosion?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E10	Is the 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 implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

E11	Are the training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concept implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E12	Are the regular cleaning and maintenance programme for drainage systems, sumps, oil interceptors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E13a	Are wood, steel and other metals separated for re-use and/or recycling?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E13b	Do the excavated materials appear contaminated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
E13c	If suspected contaminated, appropriate procedures followed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A								
E14	Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
E15	Are the public fill and C&D waste segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
Chemical Waste / Waste Oil													
E16	Are chemicals and waste oil recycled or disposed properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 3 Oct 2023 Observation 1 Refer to 30 Oct 2023 Observation 1								
Chemical Packaging													
E17a	Have the containers a capacity of <450 L unless the specification has been approved by EPD?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A								
E17b	Are the containers (holding, resistant to corrosion, maintained in a good condition, and securely closed) used for storage of chemical wastes ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refer to 30 Oct 2023 Observation 1								
Chemical Labelling													
E18	Is chemical waste or waste oil stored and labelled in English and Chinese properly in designated area? <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Capacity of Container</th> <th>Dimensions of Label</th> </tr> </thead> <tbody> <tr> <td>< 50L</td> <td>No less than 90 x 100mm</td> </tr> <tr> <td>50 to 450L</td> <td>No less than 120 x 150mm</td> </tr> <tr> <td>> 450L</td> <td>No less than 180 x 200mm</td> </tr> </tbody> </table>	Capacity of Container	Dimensions of Label	< 50L	No less than 90 x 100mm	50 to 450L	No less than 120 x 150mm	> 450L	No less than 180 x 200mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Capacity of Container	Dimensions of Label												
< 50L	No less than 90 x 100mm												
50 to 450L	No less than 120 x 150mm												
> 450L	No less than 180 x 200mm												
Chemical Waste / Fuel Storage Area													
E19a	Are the storage area are clearly labelled and separated (if needed)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								
E19b	Are the storage area enclosed 3 sides by walls/fence of ≥2m tall and bounded with adequate bund capacity (>110% of largest container) or do the storage area allow storage of 20% of total volume of waste ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								
E19c	Do the storage areas have adequate ventilation and be covered to prevent rainfall entering and reduce heat from sunlight?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								
E19d	Are the fuel tanks and chemical storage areas provided with locks and sited on sealed areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O								

E20	Is chemical waste collected by licensed waste collectors and disposed of at licensed facility eg. Chemical Waste Treatment Centre?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Records					
E21	Is a licensed waste hauler used for waste collection ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E22	Are the records of quantities of wastes generated, recycled and disposed properly kept?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E23	For the demolition material / waste, is the number of loads for each day recorded as appropriate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

F	Landfill Gas (LFG)	N/A or Not Observed	Yes	No	Remarks / Photo
Within NENT Landfill Extension					
F1	Are special LFG precautions taken to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F2	Are prominent safety warning signs erected on-site to alert all personnel and visitors of LFG hazards during excavation works.?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F3	Is no smoking or burning permitted on-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F4	Are prominent ' No smoking ' and ' No Naked Flames ' signs erected on-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F5	Is no worker allowed to work alone at any time in excavated trenches or confined areas on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F6	Is adequate fire fighting equipment provided on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F7	Are construction equipment equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F8	Are electrical motors and extension cords explosion-proof and intrinsically safe for use on-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/O
F9	Is ' Permit to Work ' system implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F10	Are welding, flame-cutting or other hot works conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F11a	For pipng assembly or conduit construction , are all valves and seals closed immediately after installation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F11b	Are the pipe ends sealed on one side during installation if installation of large diameter pipes (diameter > 600mm) is required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F11c	Is forced ventilation implemented prior to operation of installed pipeline ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F11d	Is forced ventilation implemented for works inside trenches deeper than 1m ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
F12	Is frequency and location of LFG monitoring within excavation area determined prior to commencement of works? *LFG monitoring in excavations should be conducted at < 10mm from exposed ground surface.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F13	For excavation works, Is LFG monitoring 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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

(Construction Phase)

Environmental Site Inspection Checklist (Rev. 3)

F14	Are LFG monitoring conducted periodically when any cracks on ground level encountered on-site? *Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F15a	Are LFG precautionary measures involved in excavation and pipng works provided in accordance with LFG Guidance Note and included in Safety Plan of construction phase?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F15b	Are temporary offices or buildings located where free LFG has been proven or raised clear of ground at a separation distance of at least 500mm?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F16	Is a Safety Officer trained in the use of gas detection equipment and LFG- related hazards present on-site throughout the groundwork phase? *The Safety Officer should be provided with an intrinsically safe portable instrument appropriately calibrated and capable of measuring the following gases: •CH ₄ : 0-100% and LEL: 0-100%/v •CO ₂ : 0-100% •O ₂ : 0-21%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F17a	Periodically during groundwork construction, Is the works area monitored for CH ₄ CO ₂ and O ₂ using appropriately calibrated portable gas detection equipment? *The monitoring frequency and areas should be established prior to commencement of groundwork either by Safety Officer or appropriately qualified person.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F17b	Is routine monitoring carried out in all excavations, manholes, created by temporary storage of building materials on-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F17c	Are all measurements in excavations made with monitoring tube located < 10mm from exposed ground surface?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F18	For excavations > 1m, are measurements 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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F19	For excavations 300mm to 1m, are measurements conducted? • Directly after excavation has been completed; and • Periodic all whilst excavation remains open.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F20	For excavations < 300mm, are monitoring omitted at the discretion of Safety Officer or appropriately qualified person?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

G	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo
G1	Is the work site confined within site boundaries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G2	Is damage to surrounding areas avoided ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G3	Are the protective fencing erected along or beyond the perimeter of the tree protection zone of each individual tree?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Advanced screening tree planting					
G4a	Is early planting using fast growing plants and tall shrubs at strategic locations within site implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G4b	Are the roadside planter and shrub planting implemented in front of Cheung Sha Temple ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Boundary Green Belt planting					
G5	Are the fast growing and fire-resistant plant species planted around the site perimeter?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Temporary landscape treatment as green surface cover					
G6	Are grass hydroseeding or synthetic covering material of green colour used as a temporary slope cover ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Existing tree preservation					
G7	Are existing and affected tree which identified as ecological significant preserved whenever possible?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

H	Ecology	N/A or Not Observed	Yes	No	Remarks / Photo
H1	Is transplantation of the important plant species implemented? Is post-transplantation maintained and monitored regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

I	Environmental Complaint	N/A or Not Observed	Yes	No	Remarks / Photo
I1	Environmental Complaint received during this week?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
J General Housekeeping / Others					
J1	Are the defined boundaries of working areas identified to prevent loss of vegetation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
J2	Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Follow up action for previous Site Inspection:




1. 16 October 2023 Observation 1 - The overloading of general waste at Portion A was cleared by the contractor.
2. 16 October 2023 Observation 2 - The lots of chemicals at SBA was removed by the contractor. The chemical labelling was implemented at the oil drum at the Portion E3-1.
3. 24 October 2023 Observation 1 - The chemical containers were covered with impervious sheet and was arranged to collect by the licensed waste collectors.
4. 24 October 2023 Observation 2 - The general waste at Portion E3-1 was cleared and the enclosed bin was provided at the suitable location.

Observation(s):




1. The storage area of chemical containers at Portion E3-1 is without drip tray and other properly setup etc. to prevent the chemicals rainfall entering and reduce heat from sunlight and avoid the risk of land contamination.


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

1. The contractor has been recommended to provide the properly storage area for chemicals and chemical waste including chemical containers to prevent the chemicals rainfall entering and reduce heat from sunlight and avoid the risk of land contamination.



	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Jason Man	/	Matt Choy/Kristy Wong	Sylvia Ho
Date:	30 October 2023	/	30 October 2023	30 October 2023

PART I Follow-up status of the previous site inspection

Observation and Recommendation	Follow-up status
<p><u>18 September 2023 Observation 6</u></p>  <p>Sediment/ silt traps shall be incorporated in the temporary drainage system to enhance retention time for silt/s and traps of the silt removal facilities be 5 minutes under maximum flow conditions.</p>	<p>Waiting for contractor input</p>
<p><u>25 September 2023 Observation 1</u></p> <p><u>SBA</u></p>   <p>The main haul road and work site should be wetted regularly to minimize the dust dispersion.</p>	<p><u>SBA</u></p> <p>Waiting for Contractor's Input</p>

Observation and Recommendation	Follow-up status
<p data-bbox="132 244 422 271">3 October 2023 Observation 1</p>  <p data-bbox="132 786 759 815">The stagnant water in drip tray should be cleared of in Portion E4.</p>	<p data-bbox="963 517 1246 546">Waiting for Contractor's Input</p>
<p data-bbox="132 833 434 860">16 October 2023 Observation 1</p>  <p data-bbox="132 1357 670 1386">The overloading of enclosed bin at Portion A was found.</p>	 <p data-bbox="788 1453 1420 1509">The overloading of general waste at Portion A was cleared by the contractor.</p>

Observation and Recommendation	Follow-up status
<p data-bbox="134 248 435 275"><u>16 October 2023 Observation 2</u></p>   <p data-bbox="788 696 1369 723">The lots of chemicals at SBA was removed by the contractor.</p> <p data-bbox="788 736 911 763"><u>Portion E3-1</u></p>   <p data-bbox="134 1267 759 1346">The chemical labelling should be provided for lots of chemicals at SBA and oil drum at Portion E3-1. The chemicals at SBA should be placed at the proper location for storage.</p> <p data-bbox="788 1267 1414 1317">The chemical labelling was implemented at the oil drum at the Portion E3-1.</p>	<p data-bbox="788 248 834 275"><u>SBA</u></p>
<p data-bbox="134 1379 435 1406"><u>24 October 2023 Observation 1</u></p>   <p data-bbox="134 1906 759 1955">The chemical containers are not placed on the drip tray at Portion E3-1.</p> <p data-bbox="788 1883 1414 1933">The chemical containers were covered with impervious sheet and was arranged to collect by the licensed waste collectors.</p>	

Observation and Recommendation	Follow-up status
<p data-bbox="132 248 435 275"><u>24 October 2023 Observation 2</u></p>  <p data-bbox="132 775 678 801">The general waste was found at the floor of Portion E3-1.</p>	 <p data-bbox="786 741 1406 795">The general waste at Portion E3-1 was cleared and the enclosed bin was provided at the suitable location.</p>

PART II Observation and recommendation identified during the environmental site inspection

Observation and Recommendation	Follow-up status
<p data-bbox="130 288 474 320"><u>30 October 2023 Observation 1</u></p>  <p data-bbox="130 1301 766 1570">The storage area of chemical containers at Portion E3-1 is without drip tray and other properly setup etc. to prevent the chemicals rainfall entering and reduce heat from sunlight and avoid the risk of land contamination. The contractor has been recommended to provide the properly storage area for chemicals and chemical waste including chemical containers to prevent the chemicals rainfall entering and reduce heat from sunlight and avoid the risk of land contamination.</p>	<p data-bbox="970 916 1236 947" style="text-align: center;">Waiting for Contractor Input</p>

PART III Temporary Surface Water Drainage System (TSWDS) Photo Record during the environmental site inspection

TSWDS at Portion D	Silt Fence with temporary ditches at SBA
	
Silt Removal Facility at Portion E4	Sedimentation Basin at Portion E4
	
Sedimentation Tank at Portion A	TSWDS at Portion E3-1
	

Appendix K Environmental Mitigation Implementation Schedule (EMIS)

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

EIA Ref.	EM&A Log Ref.	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Air Quality								
S3.8.1	S3.1.8	B7 – B36	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	Entire NENT Landfill Extension site	To control the dust impact to within the criteria of EIA Report (Register No. AEIAR-111/2007)	✓
		B4, B15 & B18	<ul style="list-style-type: none"> Dust emission from construction vehicle movement is confined within the worksites area. 					✓
		B11 – B12	<ul style="list-style-type: none"> Watering facilities will be provided at every designated vehicular exit point. 					✓
		-	<ul style="list-style-type: none"> Good site practice is recommended during construction phase. 					✓
Construction Noise								
S4	S4.9	C1	1) Use of good site practices to limit noise emissions by considering the following: (a) Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;	Control construction airborne noise by means of good site practices	Contractor	Entire construction site	Noise Control Ordinance	✓
		C2	(b) Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;					✓
		C3	(c) Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;					✓
		C4	(d) Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;					N/A
		C5	(e) Mobile plant should be sited as far away from NSRs as possible and practicable;					✓
		C6	(f) Material stockpiles, mobile container site 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	✓
Construction Runoff								
S5.8.1	S5.2.1	D1	<u>Construction on Site Runoff</u> (a) At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. (b) Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities.	Control construction runoff and erosion from site surface, drainage channel, stockpiles, wheel washing facilities, etc to minimize water quality during construction stage	Contractor	Entire Construction site	ProPECC PN 1/94 Water Pollution Control Ordinance	(a) The perimeter cut-off drains are establishing in progress, related measure will be implemented before or on 31 Oct 2023.
		D2	<ul style="list-style-type: none"> (a) The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. (b) Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/sediment trap. (c) The sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates. 					(a) N/A (b) N/A
		D3	<ul style="list-style-type: none"> 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. 					# (Refer to Appendix J (1) 18 Sep 2023 Weekly site inspection Observation 6)
		D4	<ul style="list-style-type: none"> (a) Construction works should be programmed to minimize surface excavation works during the rainy seasons (April to September). (b) All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. (c) If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means. 					(a) N/A (b) ✓ (c) ✓

Remarks:

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

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

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Construction Runoff (Cont'd)								
S5.8.1	S5.2.1	D5	<ul style="list-style-type: none"> (a) The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all traffic areas and access roads protected by coarse stone ballast. (b) An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows. 	Control construction runoff and erosion from site surface, drainage channel, stockpiles, wheel washing facilities, etc to minimize water quality during construction stage	Contractor	Entire Construction site	ProPECC PN 1/94 DSD Technical Circular TC01/2017 Water Pollution Control Ordinance	(a) N/A (b) N/A
		D6	<ul style="list-style-type: none"> (a) All drainage facilities and erosion and sediment control structures should be regularly inspected and (b) maintained to ensure proper and efficient operation at all times and particularly following rainstorms. (c) Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas. 					(a) ✓ (b) ✓ (c) ✓
		D7	<ul style="list-style-type: none"> (a) Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. (b) Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. 					(a) N/A (b) N/A
		D8	<ul style="list-style-type: none"> Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50 m3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. 					N/A
		D9	<ul style="list-style-type: none"> (a) Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as (b) to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. 					(a) ✓ (b) ✓
		D10	<ul style="list-style-type: none"> 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. 					✓
		D11	<ul style="list-style-type: none"> (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. 					(a) ✓ (b) ✓ (c) ✓ (d) ✓ (c) ✓
		D12	<ul style="list-style-type: none"> (a) Oil interceptors should be provided in the site drainage system downstream of any oil/fuel pollution sources. (b) The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. (c) A bypass should be provided for the oil interceptors to prevent flushing during heavy rain. 					(a) N/A (b) N/A (c) N/A
		D13	<ul style="list-style-type: none"> Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts. Requirements for solid waste management are detailed in Section 6 of this Report. 					✓
		D14	<ul style="list-style-type: none"> 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. 					N/A
		D15	<ul style="list-style-type: none"> To prevent pollution risks arising from works area (waste reception area) and haul roads, intercepting bund or barrier along the roadside should be constructed. 					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
Construction Runoff (Cont'd)								
S5.8.1	S5.2.1	D19	<u>Sewage Effluent from Workforce</u> <ul style="list-style-type: none"> (a) Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. (b) A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance. 	Control sewage effluent arising from the sanitary facilities provided for the on-site construction workforce	Contractor	On-site sanitary facilities	ProPECC PN 1/94 DSD Technical Circular TC01/2017 Water Pollution Control Ordinance Waste Disposal Ordinance	✓
		D20	<ul style="list-style-type: none"> Notices will be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project. 					N/A
		-	<ul style="list-style-type: none"> Regular environmental audit on the construction site can provide an effective control of any malpractices and can achieve continual improvement of environmental performance on site. 					✓
S5.8.1	S5.2.1	D21	<u>Accidental Spillage of Chemical</u> <ul style="list-style-type: none"> (a) Any service workshop and maintenance facilities shall be located within a bunded area, and sumps and oil interceptors shall be provided. (b) Maintenance of equipment involving activities with potential for leakage and spillage will only be undertaken within the areas. 	Control of chemical leakage	Contractor	Service workshop and maintenance facilities	ProPECC PN 1/94 Water Pollution Control Ordinance Waste Disposal Ordinance	(a) N/A (b) N/A
Erosion Control Measures								
S5.8.2	S5.2.2	-	<u>Erosion Control /Measures</u> <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	To be implemented
		-	<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>					To be implemented
		-	<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>					To be implemented

Remarks:

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- 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
Erosion Control Measures (Cont'd)								
S5.8.2	S5.2.2		h. Plastic Sheetting Plastic Sheetting will provide immediate protection to slopes and stockpiles. However, it has been known to transfer erosion problems because water will sheet flow off the plastic at high velocity. This is usually attributable to poor application, installation and maintenance.	Erosion control	Contractor	Drainage system	ProPECC PN 1/94 Water Pollution Control Ordinance	✓
		-	i. Dust Control Dust Control is one preventative measure to minimize the wind transport of soil, prevent traffic hazards and reduce sediment transported by wind and deposited in water resources.					✓
Surface Water Drainage System								
S5.8.2	S5.2.2	D22	<ul style="list-style-type: none"> (a) Temporary surface water drainage system will be provided to manage runoff during construction and operation. (b) This system will consist of channels as constructed around the perimeter of the site area. (c) This system will collect surface water from the areas of higher elevations to those of lower elevations and ultimately to the point of discharge. (d) Erosion will therefore be minimised. 	Surface Water Management/ Control run off	Contractor	Surface water system Construction	Water Pollution Control Ordinance TM-water	(a) ✓ (b) ✓ (c) ✓ (d) ✓
	D23	<ul style="list-style-type: none"> (a) The temporary surface water drainage system will include the use of a silt fence around the soil stockpile areas to prevent sediment from entering the system. (b) Regular cleaning will be carried out to prevent blockage of the passage of water flow in silt fence. 	(a) ✓ (b) ✓					
	-	<ul style="list-style-type: none"> Intermediate drainage system will be installed for filled cell/phase. The major purpose of the intermediate drainage system is to prevent the clean surface water run-off from the filled phases coming into contact with the waste mass in active cell and to prevent excessive surface water infiltration through the intermediate cover, thus contribute to increasing volume of leachate. The intermediate drainage system will collect the clean surface water run-off and divert it to the permanent discharge channels connected to the public drainage system. 	N/A					
	-	<ul style="list-style-type: none"> In addition, surface flow from the haul road (especially near the wheel washing facility) will be collected to a dry weather flow interceptor and conveyed to the on-site leachate treatment plant for further treatment. 	N/A					
Waste Management								
S6	WM1	-	<u>C&D Materials</u> <ul style="list-style-type: none"> Implement proper waste management measures during construction phase as stipulated in the Environmental Management Plan (EMP) in accordance with the ETWB TC(W) No. 19/2005 Environmental Management in Construction Sites. 	Good site practice to minimise C&D waste generation and reuse/recycle all C&D on-site as far as possible	Contractor	Entire construction site	Waste Disposal Ordinance ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010	✓
		-	<ul style="list-style-type: none"> Implement a trip-ticket system to ensure that the movement of C&D materials are properly documented and verified in accordance with DEVB TC(W) No. 6/2010. Copies/counterfoils from trip-tickets (with quantities of C&D Materials off-site) should be kept for record purposes. 					✓
		-	<ul style="list-style-type: none"> Appropriate waste management should be implemented in accordance with the ETWB TC(W) No. 19/2005. 					✓
		E4	<ul style="list-style-type: none"> (a) Make provisions in Contract documents to allow and promote the use of recycled aggregates where appropriate. Ensure material balance in terms of excavated C&D materials in the design of NENT landfill extension project. (b) The contract specifications should specify no excavated materials should be removed from the landfill extension site, but should be fully reused. 					(a) ✓ (b) ✓
		E5	<ul style="list-style-type: none"> Careful design, planning and good site management to minimise over-ordering and waste materials such as concrete, mortars and cement grouts. (a)(b) The design of formwork should maximise the use of standard wooden panels so that high reuse levels can be achieved. (c) Alternatives such as steel formwork or plastic fencing should be considered to increase the potential for reuse. 					(a) ✓ (b) ✓ (c) ✓
		E6	<ul style="list-style-type: none"> (a) The Contractor should recycle as much as possible the C&D waste on-site through proper waste segregation on-site. (b) Concrete and masonry should be used as general fill and steel reinforcement bars can be used by scrap steel mills. (c) Proper areas should be designated for waste segregation and storage wherever site conditions permit. (d) Maximise the use of reusable steel formwork to reduce the amount of C&D material. 					(a) ✓ (b) ✓ (c) ✓ (d) ✓

Remarks:

- ✓ Compliance of mitigation measure
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- # Recommendation was made during site audit but not yet improved/rectified by the contractor.
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- @ (Which measure) Alternative measure was made by the contractor.

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Waste Management (Cont'd)								
S6	WM1	E7	<ul style="list-style-type: none"> (a) Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement. On-site sorting and segregation facility of all type of wastes is considered as one of the best practice in waste management and hence, should be implemented in all projects generating construction waste. (b) The sorted public fill and C&D waste should be properly reused. 	Good site practice to minimise C&D waste generation and reuse/recycle all C&D on-site as far as possible	Contractor	Entire construction site	Waste Disposal Ordinance ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010	(a) ✓ (b) ✓
		E8	<ul style="list-style-type: none"> (a) Excavated slope, stockpiled material and bund walls should be covered by tarpaulin until used in order to prevent wind-blown dust during dry weather, and to reduce muddy runoff during wet weather. (b)(c) Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers 					(a) ✓ (b) ✓ (c) ✓
		E9	<ul style="list-style-type: none"> 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. 					N/A
		E10	<ul style="list-style-type: none"> Nomination of approved personnel to be responsible for good site practices and making arrangements for collection of all wastes generated on-site and effective disposal. 					✓
		E11	<ul style="list-style-type: none"> Training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concepts. 					✓
		E12	<ul style="list-style-type: none"> Regular cleaning and maintenance programme systems, sumps and oil interceptors. 					✓
		E13	<ul style="list-style-type: none"> (a) Prior to disposal of C&D waste, wood, steel and other metals should be separated for re-use and/or recycling to minimise the quantity of waste to be disposed of to landfill. (b)(c) Proper storage and site practices should be implemented to minimise the potential for damage or contamination of construction materials. 					(a) ✓ (b) ✓ (c) N/A
			<ul style="list-style-type: none"> Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. Minimise excessive ordering of concrete, mortars and cement grout by doing careful check before ordering. 					✓
S6	WM2	E16 – E23	<p><u>Chemical Waste</u></p> <ul style="list-style-type: none"> Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. 	Ensure proper disposal of chemical waste generated on-site to minimise the associated hazards on human health and environment	Contractor	Entire construction site	Waste Disposal (Chemical Waste) General Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	# (Refer to Appendix J (1) 3 Oct 2023 Weekly site inspection Observation 1 (2) 30 Oct 2023 Weekly site inspection Observation 1)
		-	<ul style="list-style-type: none"> Plant/equipment maintenance schedule should be designed to optimise maintenance effectiveness and to minimise the generation of chemical wastes. Where possible, chemical wastes (e.g. waste lube oil) should be recycled by licensed treatment facilities 					✓
		E17 & E18	<ul style="list-style-type: none"> 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. 					# (Refer to Appendix J (1) 30 Oct 2023 Weekly site inspection Observation 1)
		E19	<ul style="list-style-type: none"> (a) The storage area for chemical wastes should be clearly labelled and used solely for storage of chemical waste, (b) enclosed with at least 3 sides, having an impermeable floor and bund of sufficient capacity to accommodate 110% of volume of the largest container or 20 % of total volume of waste stored in that area, (c)(d) whichever is the greatest, having adequate ventilation, being covered to prevent rainfall entering, and being arranged so that incompatible materials are adequately separated. 					(a) ✓ (b) N/A (c) N/A (d) N/A
		E20	<ul style="list-style-type: none"> Chemical waste should be collected by licensed waste collectors and disposed of at licensed facility, e.g. Chemical Waste Treatment Centre. 					✓

Remarks:

- ✓ Compliance of mitigation measure
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- N/A Not Applicable at this stage were conducted in the reporting period.
- @ (Which measure) Alternative measure was made by the contractor.

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

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 ₄ : 0-100% and LEL: 0-100%/v •CO ₂ : 0-100% •O ₂ : 0-21%	To minimise the risk of LFG hazards to personnel in construction site	Contractor	Entire construction site	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97) F&IU (Confined Spaces) Regulations	✓
	LFG17	F17	(a) Periodically during groundwork construction, the works area should be monitored for CH ₄ CO ₂ and O ₂ using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas should be established prior to commencement of groundwork either by Safety Officer or appropriately qualified person. (b) Routine monitoring should be carried out in all excavations, manholes, created by temporary storage of building materials on-site. (c) All measurements in excavations should be made with monitoring tube located not more than 10mm from exposed ground surface.				Code of Practice on Safety and Health at Work in Confined Spaces	(a) N/A (b) N/A (c) N/A
	LFG18	F18	For excavations deeper than 1m, measurements should be conducted: • At ground surface before excavation commences; • Immediately before any worker enters the excavation; • At the beginning of each working day for entire period the excavation remains open; and Periodically throughout the working day whilst workers are in excavation.					✓
	LFG19	F19	For excavations between 300mm and 1m, measurements should be conducted: • Directly after excavation has been completed; and Periodic all whilst excavation remains open.					✓
	LFG20	F20	For excavations less than 300mm, monitoring may be omitted at the discretion of Safety Officer or appropriately qualified person.					✓
Landscape and Visual Phases								
S8	LV1	G4	<u>Advanced screening tree planting</u> • Early planting using fast growing trees and tall shrubs at strategic locations within site to block major view corridors to the site from the VSRs, and to locally screen haul roads, excavation works and site preparation works. • Roadside planter and shrub planting design in front of Cheung Shan Temple.	To minimise the impact on existing vegetation retained by personnel in construction	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.					N/A
	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 L Construction Site Activities

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

Remark:

PYE is the Sub-contractor for this project

Appendix M Mitigation Measures of Cultural Landscape Features

DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.
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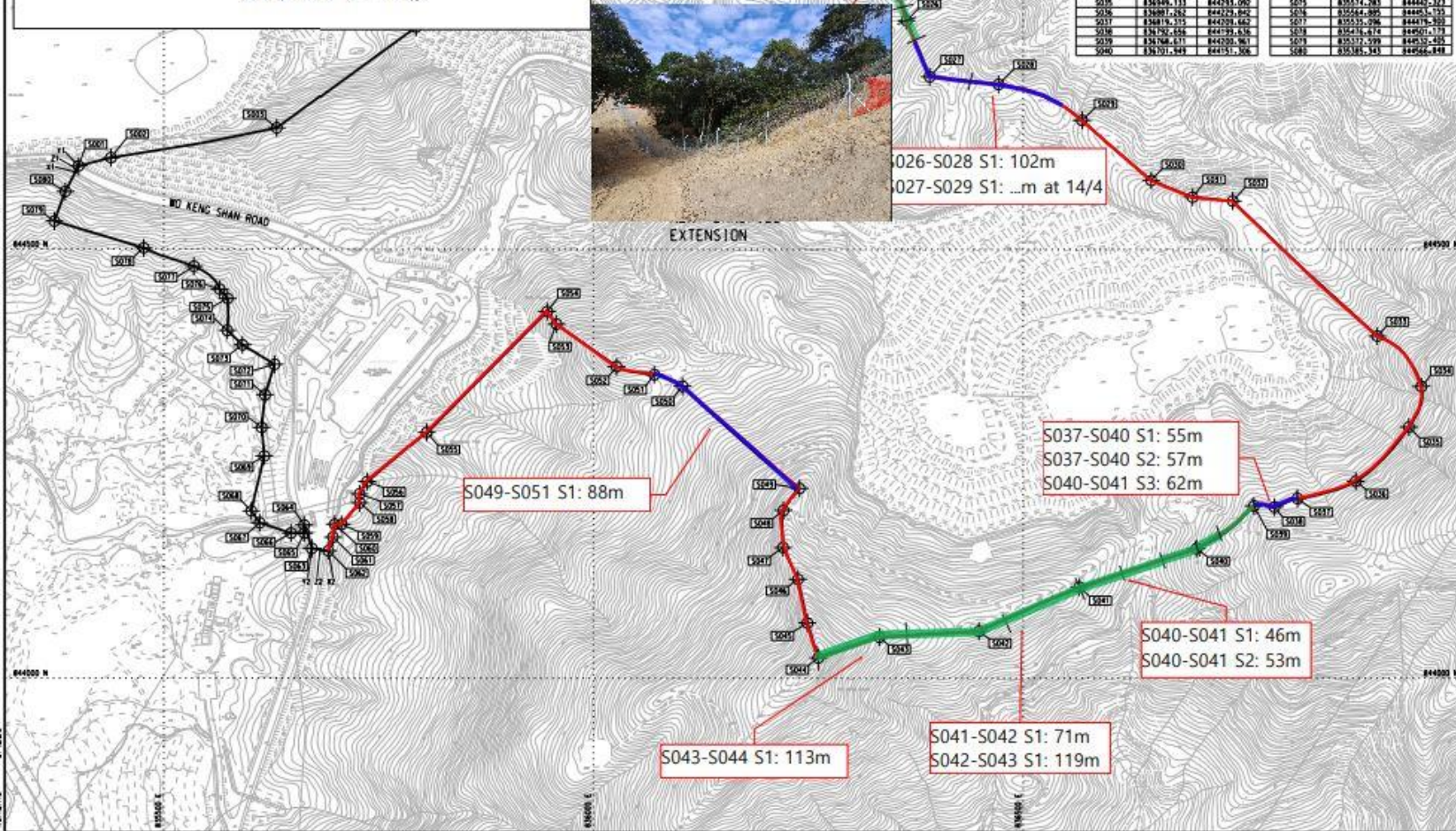


SB Fencing Progress Report as @ 13.3.2023

Start Date: 11.1.2023

Legend

- Proposed fencing length = 3055 m
- Completed footing 1252/3055 m = 41%
- Completed chain link fence 1006/3055 m = 33%



CO-ORDINATES FOR SITE BOUNDARY

SETTING OUT POINT	EASTING	NORTHING
S001	835400.763	844596.681
S002	83476.439	844596.228
S003	83451.400	84441.024
S004	83179.642	844752.456
S005	83876.959	844871.715
S006	83958.265	84498.564
S007	83971.578	84499.837
S008	84012.283	84505.257
S009	84021.422	84507.071
S010	84012.265	84515.203
S011	84024.332	84520.132
S012	84026.142	84522.456
S013	84098.064	84549.446
S014	84098.244	84556.234
S015	84111.658	84553.993
S016	84146.485	84483.801
S017	84176.396	84491.955
S018	84211.023	84487.723
S019	84238.014	84493.211
S020	84254.713	84491.2675
S021	84276.337	84482.156
S022	84312.248	84475.461
S023	84336.358	84446.516
S024	84376.385	84446.428
S025	84393.384	84433.702
S026	84364.427	84456.813
S027	84391.414	84471.854
S028	84471.540	84492.560
S029	84544.625	84453.735
S030	84649.132	84450.613
S031	84641.024	84441.024
S032	84744.086	84456.490
S033	84812.213	84479.086
S034	84876.465	84449.241
S035	84848.113	84473.062
S036	84881.282	84422.852
S037	84876.375	84473.663
S038	84792.656	84499.638
S039	84748.671	84470.961
S040	84701.949	84451.306

SETTING OUT POINT	EASTING	NORTHING
S041	84682.887	84476.358
S042	84648.443	84464.136
S043	84632.773	84408.500
S044	84641.595	84402.718
S045	84649.241	84404.518
S046	84618.243	84415.480
S047	84620.400	84422.506
S048	84621.176	84416.739
S049	84629.876	84427.358
S050	84603.489	84436.447
S051	84605.891	84454.689
S052	84604.843	84461.917
S053	84598.335	84473.126
S054	84594.240	84467.791
S055	84595.399	84464.410
S056	84576.415	84426.429
S057	84621.882	84425.710
S058	84578.112	84424.403
S059	84576.353	84416.372
S060	84568.933	84416.739
S061	84566.895	84416.917
S062	84567.380	84416.362
S063	84547.232	84411.783
S064	84568.311	84416.479
S065	84464.443	84416.397
S066	84548.326	84416.327
S067	84611.414	84411.418
S068	84567.144	84414.567
S069	84546.871	84428.437
S070	84541.597	84438.119
S071	84541.396	84426.125
S072	84541.081	84411.081
S073	84543.967	84432.526
S074	84541.396	84426.125
S075	84541.396	84416.303
S076	84541.396	84443.123
S077	84544.895	84460.125
S078	84541.396	84416.303
S079	84541.396	84491.179
S080	84537.599	84432.492
S081	84541.396	84464.443

CO-ORDINATES FOR VEHICULAR ACCESS

SETTING OUT POINT	EASTING	NORTHING
11	835297.108	844989.614
12	83492.161	84496.687
21	835298.934	84493.141
22	83491.380	84486.162
75	83672.232	84451.163
77	83641.620	84449.363

LEGEND

- SITE BOUNDARY
- SETTING OUT POINT

0	ISSUE FOR TENDER	SS	12/20
Rev	Description	By	Date

Consultant
ARUP 奧雅納工程顧問
 One Amis & Partners Hong Kong Limited
 Project title
 Contract No. EP/SP/77/15
 North East New Territories
 Landfill Extension

Drawing title
**SETTING OUT DETAILS
 OF SITE BOUNDARY**

Drawing No.	215523/01/016	Rev.	0
Drawn By	Date	Checked By	Approved By
Scale	1:2500	Status	TENDER



Appendix N Ecological Monitoring Record

B.1 Incense Tree *Aquilaria sinensis*



Photo B.1.1 : General view of the transplanted individual AS-03.



Photo B.1.2 : Branch condition of the transplanted individual AS-03.



Photo B.1.3 : General view of the transplanted individual AS-02.



Photo B.1.4 : Broken stem of the transplanted individual AS-02.

B.2 Lamb of Tartary *Cibotium barometz*



Photo B.2.1. : General view of the transplanted individual CB-01.



Photo B.2.2. : Leaf condition of the transplanted individual CB-01.



Photo B.2.3. : Leaf condition of the transplanted individual CB-01.



Photo B.2.4. : Leaf condition of the transplanted individual CB-01.

B.3 Bottlebrush Orchid *Goodyera procera*



Photo B.3.1: Individual GP-01.



Photo B.3.2: Individual GP-06.



Photo B.3.3: Individual GP-07.



Photo B.3.4: Individual GP-08.



Photo B.3.5: Individual GP-10.



Photo B.3.6: Individual GP-16.



Photo B.3.7: Individual GP-17.

Appendix O Detail Status of EP Submission

Detail Status of Submissions required under the FEP & EP

FEP Condition	EP Condition	Submission / Measures	Status
2.1	2.3	Management Organization of Main Construction Companies	Submission Date (12 Oct 2022)
2.2	2.4	Setting up of Community Liaison Group (CLG)	Submission Date (12 Oct 2022) 1 st CLG meeting (12 Jan 2023)
2.3	2.5	Submission of EM&A Manual	Submission Date (12 Oct 2022)
2.4	2.6	Submission of Preservation of Cultural Landscape Features	Survey and Preservation of Grave Records: Submission Date (15 Oct 2022) Survey and Preservation of Boulder Paths: Submission Date (12 Oct 2022)
2.5	2.7	Submission of Vegetation Survey (Transplantation Proposal)	Submission Date (2 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 st monitoring (24 Nov 2022) 2 nd monitoring (9 Dec 2022) 3 rd monitoring (21 Dec 2022) 4 th monitoring (13 Jan 2023) 5 th monitoring (26 Jan 2023) 6 th monitoring (8 Feb 2023) 7 th monitoring (24 Feb 2023) 8 th monitoring (20 Mar 2023) 9 th monitoring (21 Apr 2023) 10 th monitoring (17 May 2023) 11 th monitoring (16 Jun 2023) 12 th monitoring (12 Jul 2023) 13 th monitoring (11 Aug 2023) 14 th monitoring (15 Sep 2023) 15 th monitoring (13 Oct 2023)

FEP Condition	EP Condition	Submission / Measures	Status
2.8	2.10	Submission of Translocation Report and Post-Translocation Monitoring	<p>Translocation was carried out in July 2022</p> <p>Submission Date (27 December 2022)</p> <p>1st monitoring (29 Aug 2022)</p> <p>2nd monitoring (28 Sep 2022)</p> <p>3rd monitoring (28 Oct 2022)</p> <p>4th monitoring (28 Oct 2022)</p> <p>5th monitoring (29 Dec 2022)</p> <p>6th monitoring (30 Jan 2023)</p> <p>7th monitoring (24 Feb 2023)</p> <p>8th monitoring (20 Mar 2023)</p> <p>9th monitoring (19 Apr 2023)</p> <p>10th monitoring (12 May 2023)</p> <p>11th monitoring (7 Jun 2023)</p> <p>12th monitoring (18 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 Dec 2022)
3.2	3.2	Submission of Baseline Monitoring Report	Submission Date (30 Nov 2022)

Appendix P Cumulative complaint / enquiry log, Summaries of complaints and enquiries & Environmental complaint reports

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.	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.	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.	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 should be conducted by the contractor as soon as possible.	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 should be conducted by the contractor as soon as possible.	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"

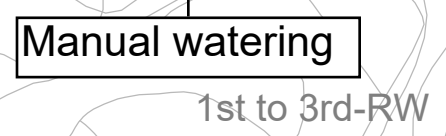
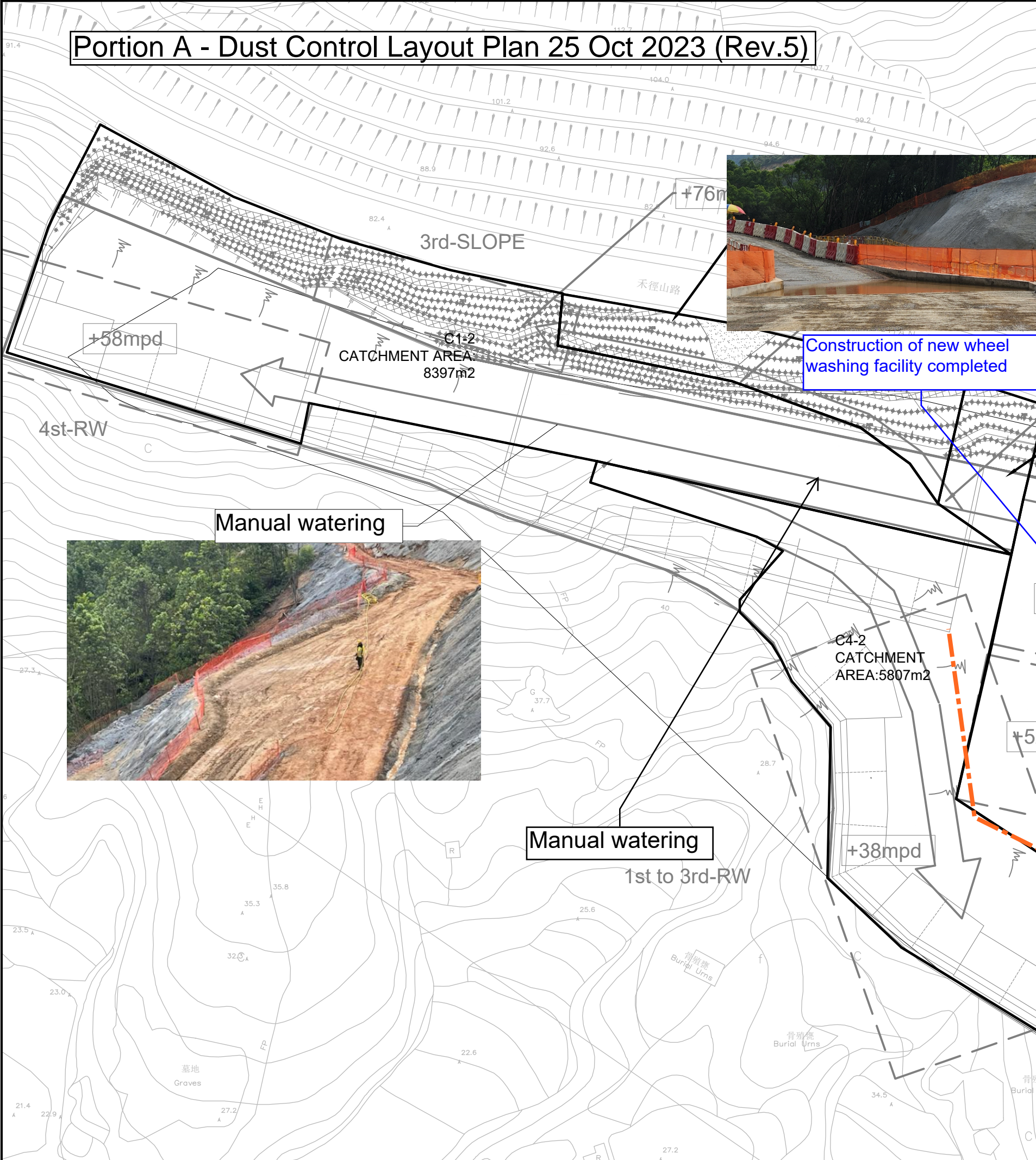
Cumulative Statistics on Complaints

Aspects	Cumulative No. Brought Forward	No. of Complaints This Month	Cumulative Project-to-Date
Air Quality	1	0	1
Noise	0	0	0
Water Quality	5	0	5
Waste Management	0	0	0
Total	6	0	6

Appendix Q Implementation Status on Environmental Mitigation Measures

Dust Control

Portion A - Dust Control Layout Plan 25 Oct 2023 (Rev.5)



NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS STATED OTHERWISE.
2. ALL LEVELS REFER TO HONG KONG PRINCIPAL DATUM (MPD) UNLESS STATED OTHERWISE.
3. ALL ALIGNMENTS OF THE EXISTING DRAINAGE SYSTEM AS SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. THE EXACT LEVEL AND LOCATION OF EXISTING DRAINAGE SYSTEM SHALL BE DETERMINED BY THE CONTRACTOR ON SITE AND AGREED BY THE ENGINEER/ARCHITECT.
4. THE LOCATION DRAWINGS ARE MANHOLES AND ORIENTATION INDICATIVE ONLY.
5. SHOTCRETE SLOPE STABILIZATION SHALL BE USED WHERE NECESSARY.
6. SLOPE STABILIZATION SHALL BE USED WHERE NECESSARY.
7. UC SHALL BE USED WHERE NECESSARY.
8. FOR SUMP PIT TRAP SHALL BE USED WHERE NECESSARY.
9. FOR CATCHPITS SHALL BE USED WHERE NECESSARY.
10. FOR DETAILS SHALL BE USED WHERE NECESSARY.
11. FOR PIPE BED SHALL BE USED WHERE NECESSARY.
12. TEMP. BUND SHALL BE USED WHERE NECESSARY.
13. CHANNEL GRADES SHALL BE USED WHERE NECESSARY.

ENVIRONMENTAL PROTECTION DEPARTMENT

SIGNED: _____
FOR ENVIRONMENTAL PROTECTION DEPARTMENT
DATE: _____

MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD
VERIFICATION BY INDEPENDENT CONSULTANTS

SIGNED: _____
FOR MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD
DATE: _____

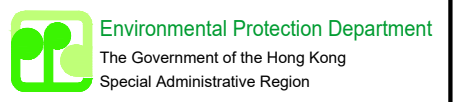
LEGEND
----- Sprinkler alignment

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

DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE.
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Drawn	JT	Check	TL
Design	TL	Approved	DSJS
Date	19 JAN 2023	Scale	1:500 @ A3

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



Civil Contractor
PM Level Sensor (in trial)
Paul Y. Engineering

Supported by
ATKINS
Member of the SNC-Lavalin Group

Working Title
Portion A
Dust Control Layout Plan

Working No. NENTX-ATKI-DW-C-A-182
Rev. I 03



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

Dust Control Layout for Landfilling Area 25 Oct 2023 (rev.1)

↔ Routing of water truck
- - - Sprinkler

Water truck routing
(Frequency depends on weather;
approx. 6 times per day)



Dust control sprinklers all installed along the Haul Road

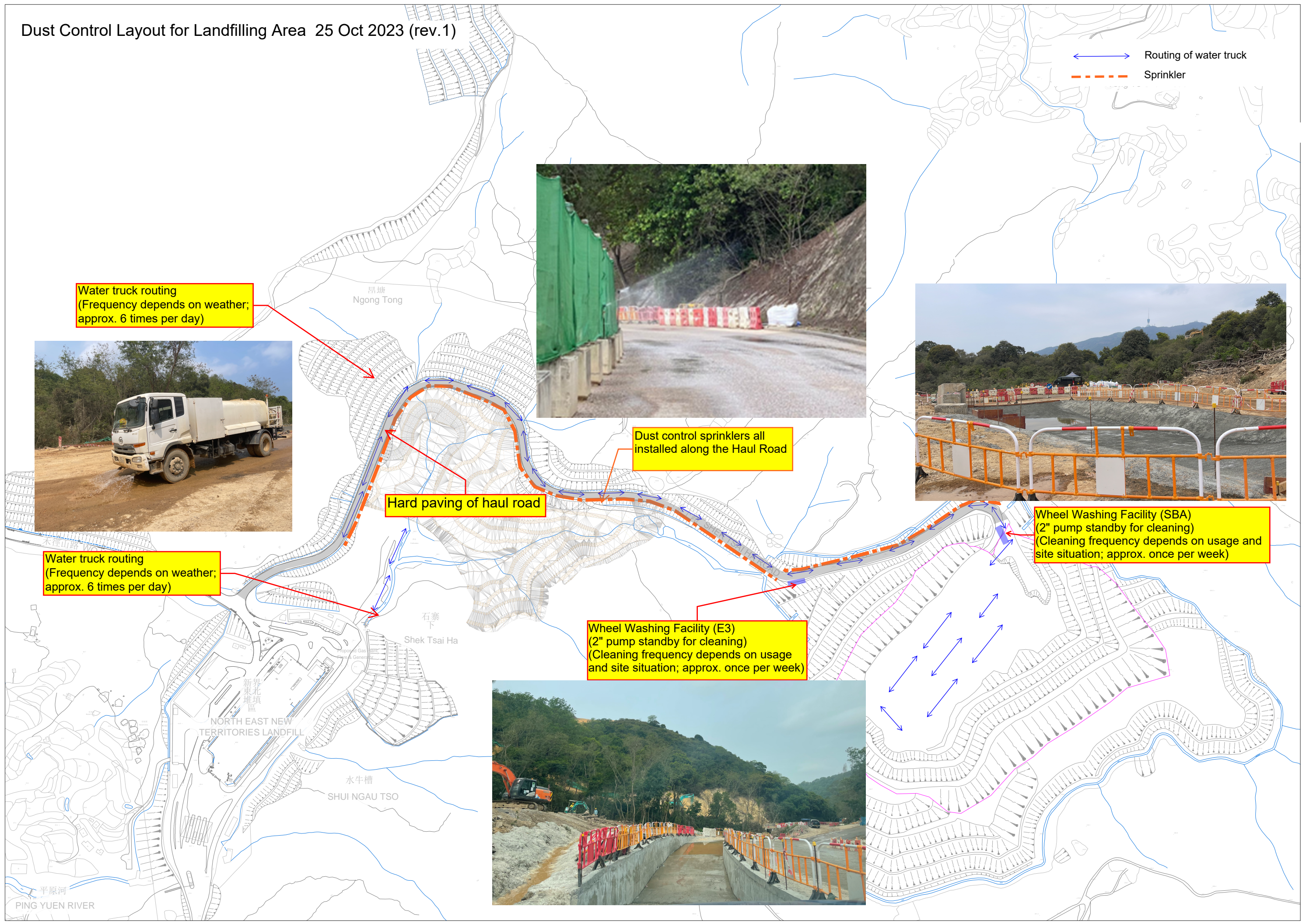


Hard paving of haul road

Wheel Washing Facility (SBA)
(2" pump standby for cleaning)
(Cleaning frequency depends on usage and site situation; approx. once per week)

Water truck routing
(Frequency depends on weather;
approx. 6 times per day)

Wheel Washing Facility (E3)
(2" pump standby for cleaning)
(Cleaning frequency depends on usage and site situation; approx. once per week)



平原河
PING YUEN RIVER

新界北堆填區
NORTH EAST NEW TERRITORIES LANDFILL

水牛槽
SHUI NGAU TSO

石寨下
Shek Tsai Ha

昂塘
Ngong Tong

Temporary Surface Water Drainage System (TSWDS)

Portion A - Temporary Drainage updated on 25 Oct 2023

NOTES

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

ENVIRONMENTAL PROTECTION DEPARTMENT

SIGNED: _____
FOR ENVIRONMENTAL PROTECTION DEPARTMENT

DATE: _____

MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD
VERIFICATION BY INDEPENDENT CONSULTANTS

SIGNED: _____
FOR MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD

DATE: _____

LEGEND

- Finished Temporary Drainage
- - - Proposed Temporary Drainage
- Finished Temporary Bund
- Slope Surface Protection (Visual mitigation)
- Slope Surface Protection (Cement slurry)
- - - Pumping route

I 03	THIRD SUBMISSION ISSUED	JT	JAN 2023	DSJS
I 02	SECOND SUBMISSION ISSUED	CC	NOV 2022	DSJS
I 01	FIRST SUBMISSION ISSUED	CC	JUN 2022	DSJS

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Wastewater treatment facility (discharge to existing channel according to approved WPCO permit after treatment)

Check	TL
Approved	DSJS

Date: 19 JAN 2023 Scale: 1:500 @ A3

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

Environmental Protection Department
The Government of the Hong Kong Special Administrative Region

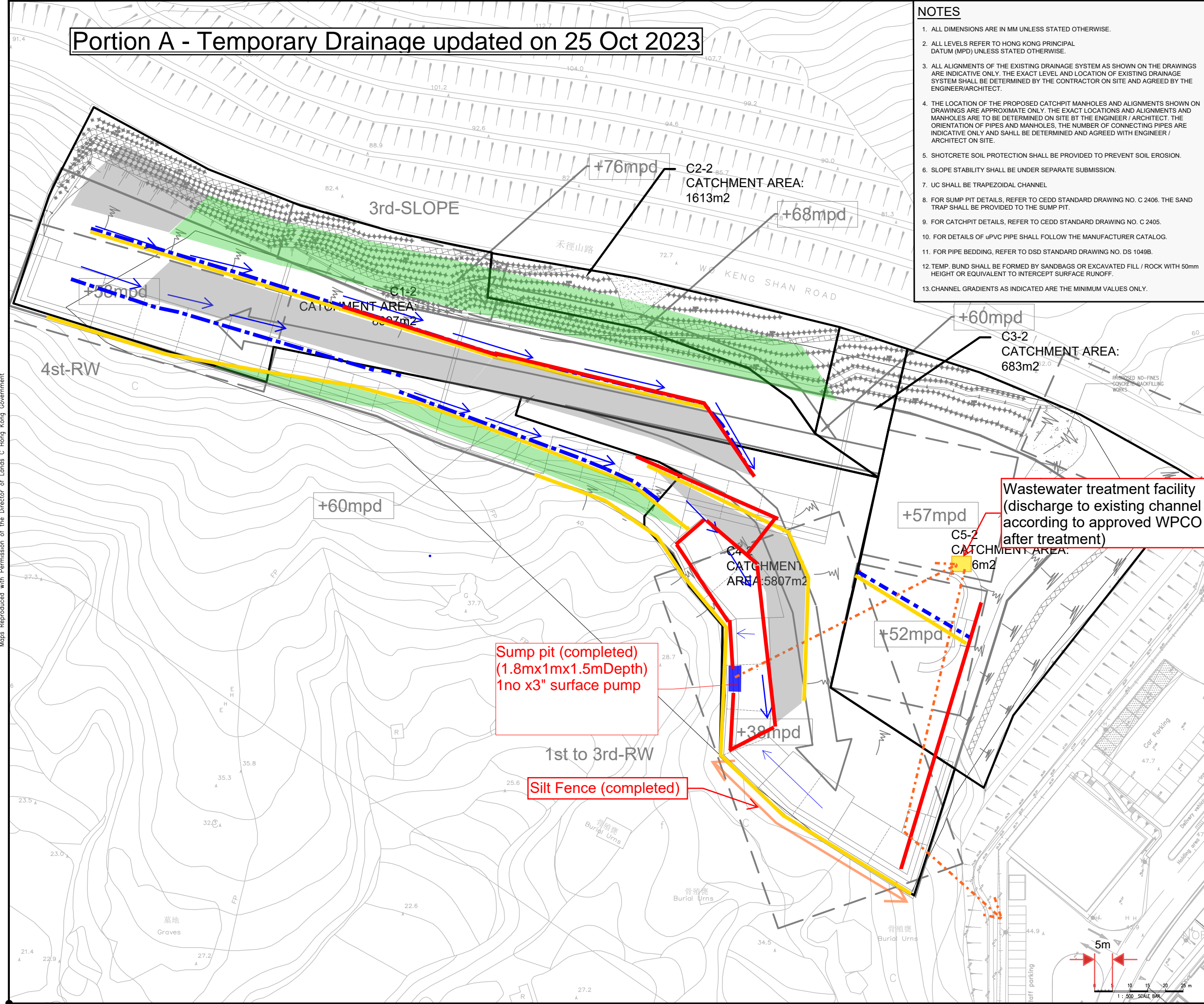
VEOLIA

Civil Contractor
Paul Y 保華建業
Paul Y. Engineering

Supported by
ATKINS
Member of the SNC-Lavalin Group

Drawing Title
PORTION A TEMPORARY DRAINAGE CATCHMENT PLAN - STAGE 2

Drawing No. **NENTX-ATKI-DW-C-A-182** Rev. **1 03**



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Hydroseeding & Green Netting

Green Netting:

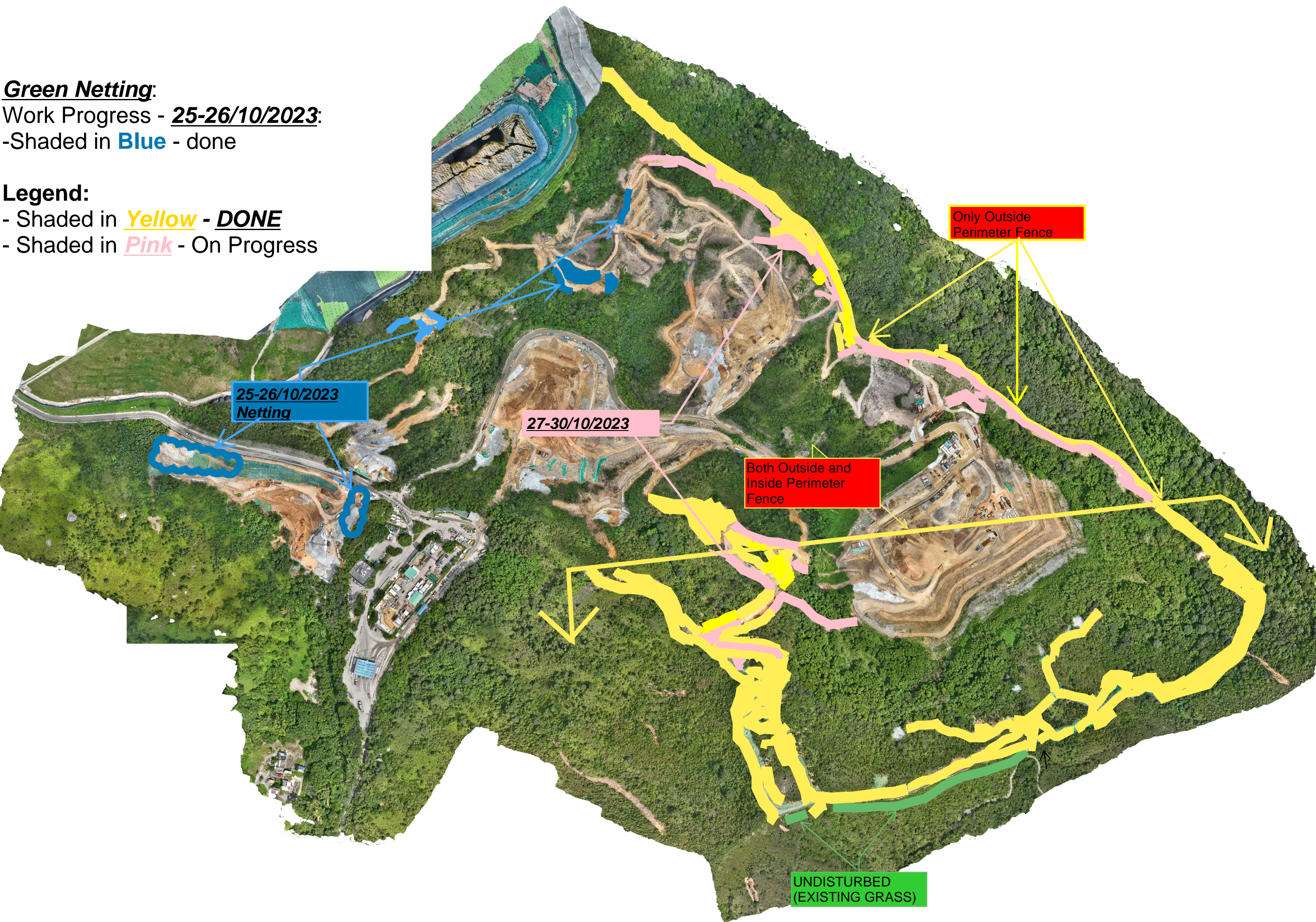
Work Progress - **25-26/10/2023:**

- Shaded in **Blue** - done

Legend:

- Shaded in **Yellow** - **DONE**

- Shaded in **Pink** - On Progress



**25-26/10/2023
Netting**

27-30/10/2023

**Only Outside
Perimeter Fence**

**Both Outside and
Inside Perimeter
Fence**

**UNDISTURBED
(EXISTING GRASS)**

Slope Surface Protection

Other exposed area also carrying out protection by means of hydroseeding and green netting, please refer to separate layout

Portion E1:
Most of the shotcreting completed (Shotcrete equipment could not reach some of the area, will be covered by tarpaulin, target complete by End Oct)

Photo E1

Photo E3

Photo E4

Portion E4-A:
Platform and access formation in progress, shotcreting/cover with tarpaulin on idling slopes ongoing

Portion E4-B:
Vegetation remained on surface during tree felling

Portion A:
Ongoing cover exposed earth by cement slurry or green net after works
Higher Portion with Visual Impact if no planning works for month will cover with green net after shotcrete (Target Completion Date: 27/10/2023)

Shotcreting completed

Photo SBA

Stockpile will be covered by tarpaulin/shotcrete after formation completed (ongoing)

Portion E3-A:
Rock slope formation completed, pending for permanent shotcreting (Target completion date refer to attached)
Works area will be covered by tarpaulin or cement slurry when heavy rainfall is forecasted

SBA:
Shotcreting completed, others ongoing

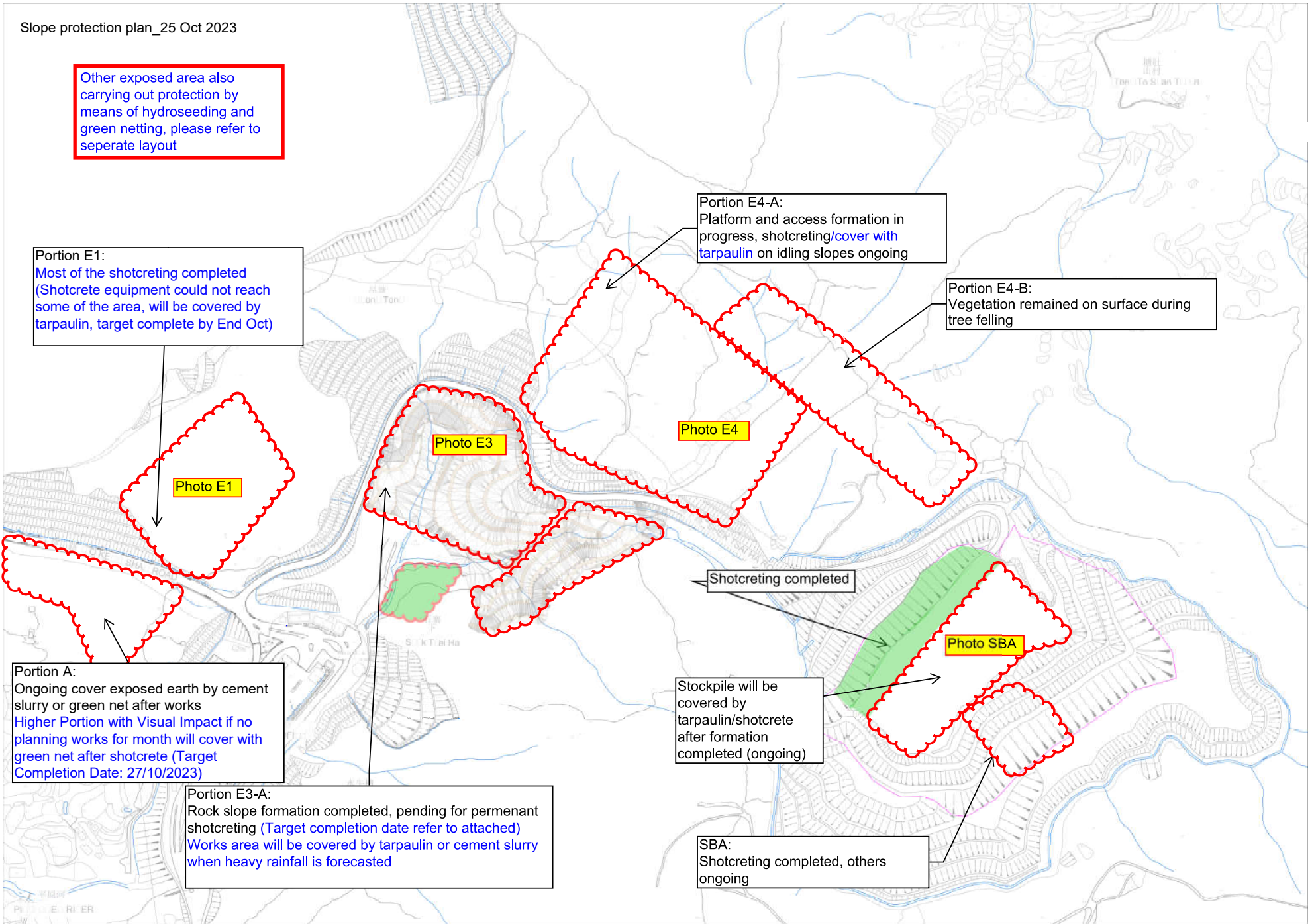




Photo B2 (26/10/2023)



Photo E3 (25/10/2023)



Photo E3 (25/10/2023)



Photo E4 (25/10/2023)



Photo E4 (18/10/2023)



Photo SBA (25/10/2023)

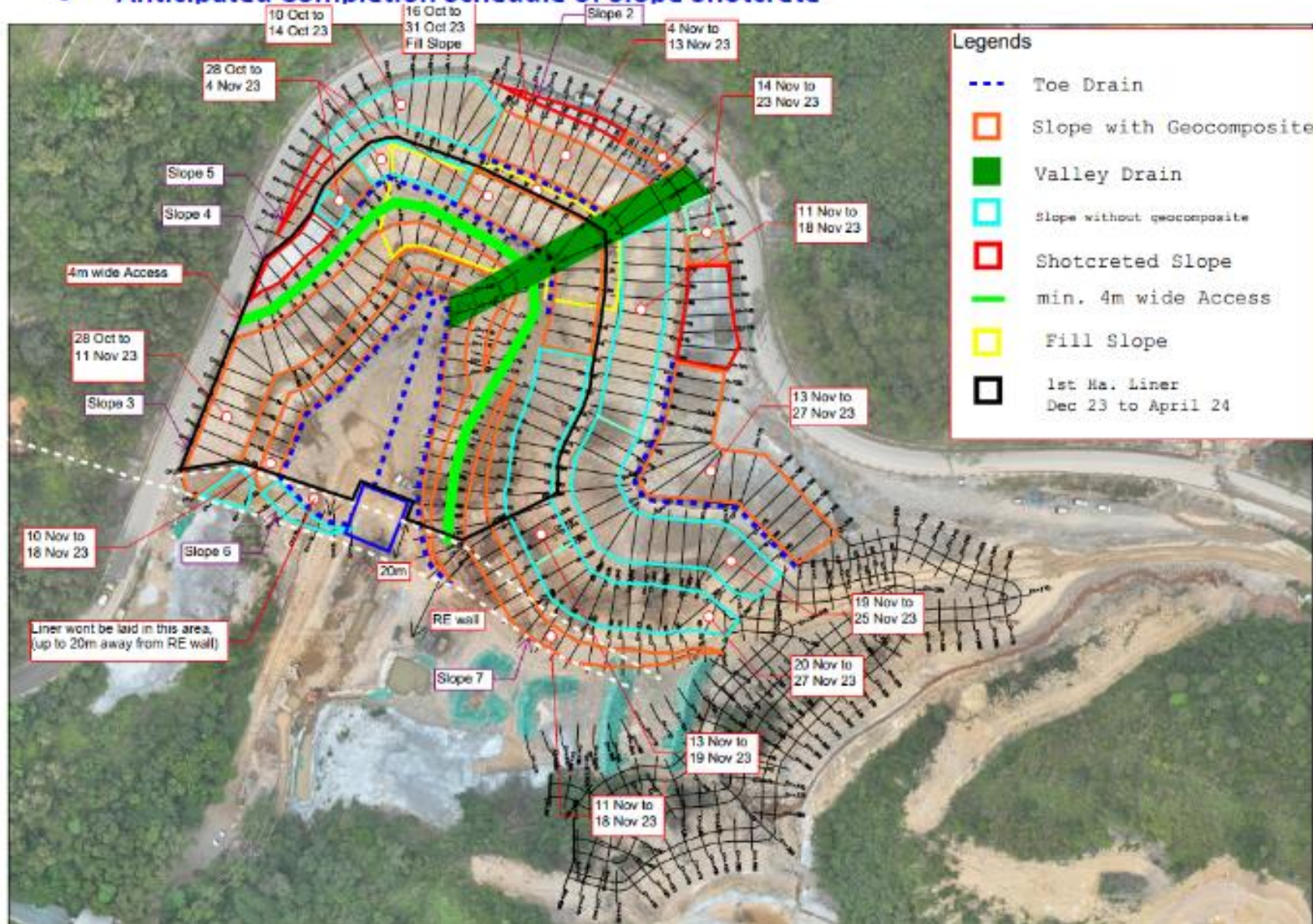


Photo Portion A (26/10/2023)



Photo Portion A (26/10/2023)

● **Anticipated Completion Schedule of Slope Shotcrete**



Prepared by:

Aurecon Hong Kong Limited

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

223 – 231 Wai Yip Street, Kwun Tong,

Kowloon Hong Kong S. A. R.

T: +852 3664 6888

F: +852 3664 6999

E: hongkong@aurecongroup.com

aurecon

*Bringing ideas
to life*

