

13 January 2024

Our Ref: JC/MC/KW/N74027/24/tt

The EIA Ordinance Register Office, 27th floor, Southorn Centre, 130 Hennessy Road, Wan Chai, Hong Kong

Attn: Ms. Trista Lau

Dear Sirs.

Contract No. EP/SP/77/15
North-East New Territories Landfill Extension (NENTX)
NENTX – Submission of Quarterly EM&A Report (No. 4) – October to December 2023

In accordance with requirements of the EM&A Manual for the North East New Territories (NENT) Landfill Extension Project (the Project), we are now submitting 2 hard copies and one electronic copy (in CD-ROM format) of the Quarterly EM&A Report (No. 4) – October to December 2023 dated 12 January 2024 together with ET's certification letter and IEC's verification for your perusal.

If you have any questions, please contact our Matt Choy at 2902 5261.

Yours faithfully
For and on behalf of
VEOLIA HONG KONG HOLDING LIMITED

Colin Mitchell Project Manager

Encl.

cc. EPD - Davy Lau / Nikita Chan (by email only)

Arup - Anson Cheung (1 copy & email)

MIEL - Steve Kok / Claudine Lee (email only)

Aurecon - Fredrick Leong (1 copy & email)

VHK - JC / MC / KW

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

Quarterly Environmental Monitoring and Audit Report (No. 4) – October to December 2023

2024-01-12





Meinhardt Infrastructure and Environment Ltd

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Our Ref.: CL/91823/0980-VES Date: 12 January 2024

By Email

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

Attn.: Mr. Colin Mitchell

Dear Sir

Re: Contract No. EP/SP/77/15

North-East New Territories Landfill Extension (NENTX)

Quarterly Environmental Monitoring and Audit Report (No.4) -

October to December 2023

I refer to Section 2.6 to 2.10 and Section 12.3 of the Environmental Monitoring and Audit Manual, regarding the submission of a quarterly Environmental Monitoring and Audit report. I hereby verify the captioned "Quarterly Environmental Monitoring and Audit Report (No.4) – October to December 2023" dated 12 January 2024.

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

Yours faithfully

MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD

Claudine Lee

Independent Environmental Checker

Aurecon Hong Kong Limited Unit 1608, 16/F, Tower B, Manulife Financial Centre, 223 – 231 Wai Yip Street, Kwun Tong Hong Kong T +852 3664 6888 F +852 3664 6999 E hongkong@aurecongroup.com w aurecongroup.com



Ref: P521530-0000-REP-NN-0080

By Email

12 January 2024

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

Attn: Ms. Claudine Lee,

Dear Claudine,

Re: Contract No. EP/SP/77/15

Northeast New Territories Landfill Extension

Quarterly Environmental Monitoring and Audit Report (No. 4) – October to December

2023

In accordance with the requirement specified in Section 2.6 to 2.10 & Section 12.3 of Environmental Monitoring and Audit (EM&A) Manual, we are pleased to submit the certified "Quarterly Environmental Monitoring and Audit Report (No. 4) – October to December 2023" dated 12 January 2024 for your verification.

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

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

Fredrick Leong

Environmental Team Leader

Encl.

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^{1.} Quarterly Environmental Monitoring and Audit Report (No. 4) – October to December 2023

^{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

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Document control aurecon							
Report title		Quarterly Environmental 2023	Quarterly Environmental Monitoring and Audit Report (No. 4) –October to December 2023				
Docu	ıment ID		Project number				
File p	oath						
Clien	it	Veolia Hong Kong Holding	Veolia Hong Kong Holding Ltd.				
Clien	t contact		Client reference				
Rev	Date	Revision details/status	Author	Reviewer	Verifier (if required)	Approver	
0	7 January 2024	Submit to IEC	J Man	K.Chau		FL	
1	11 January 2024	Submit to IEC	J Man	K.Chau		FL	
2	12 January 2024	Submit to IEC	J Man	K.Chau		FL	
Current revision		2					

Approval			
Reviewer's signature	A Common of the	Approver's signature	Tul
Name	Keith Chau	Name	Fredrick Leong
Title	Associate, Environmental	Title	Environmental Team Leader

Contents

cutive Summary	1
ntroduction	2
Project Information	4
Air Quality Monitoring	7
Noise Monitoring	. 12
Nater Quality Monitoring	. 16
_andfill Gas Monitoring	. 24
andscape and Visual	. 27
Cultural Heritage	. 28
Ecological Monitoring	. 29
Site Inspection and Audit	. 31
Environmental Non-conformance	. 36
Conclusion	
	cutive Summary

Figure

Figure 1	Location of the Project Site
Figure 2	Impact Monitoring Locations
Figure 3	Landfill Gas Monitoring Locations

Appendix

Appendix A	Construction Programme
Appendix B	Construction Site Activities
Appendix C	Project Organization Chart & Management Structure
Appendix D	Detail Status of FEP & EP Submission
Appendix E	Graphical Presentations
Appendix F	Notification of Environmental Quality Limits Exceedance
Appendix G	Waste Flow Table
Appendix H	Environmental Mitigation Implementation Schedule (EMIS)
Appendix I	Mitigation Measures of Cultural Landscape Features
Appendix J	Cumulative complaint / enquiry log and Summaries of complaints and enquiry

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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 4th Quarterly EM&A Report presents the EM&A works conducted from 1 October to 31 December 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:

Construction Activities Undertaken	Reporting Month			
	Oct 2023	Nov 2023	Dec 2023	
 Material loading and unloading, site traffic 	√	✓	✓	
- Construction of site buildings	√	√	√	
- Site clearance	√	√	√	
- Installation of permanent fencing	√	√	√	
- Site formation	√	√	√	
- Tree felling	√	√	√	
Shotcreting (Permanent and Temporary)	√	✓	✓	
Soil Nail Installation			√	

Environmental Exceedance

Air Quality, Noise, Surface Water Quality & 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-conformance event, complaint, summons/prosecutions were recorded and received in this reporting period.

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, Quarterly EM&A report should be submitted to the Director of Environmental Protection (DEP) within 10 working days after the end of the reporting quarter. 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-**

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

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

1.3. Purpose of this Report

1.3.1. This is the 4th Quarterly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 01 October to 31 December 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 - Conclusion

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 **Table 2-1**. Construction programme is illustrated in **Appendix A**. Detailed construction activities are summarized in **Appendix B**.

Table 2-1 Major Construction Activities Undertaken in the Reporting Period

Construction Activities	Reporting Month			
Undertaken	Oct 2023	Nov 2023	Dec 2023	
 Material loading and unloading, site traffic 	✓	✓	✓	
- Construction of site buildings	\checkmark	\checkmark	\checkmark	
- Site clearance	√	√	√	
 Installation of permanent fencing 	√	✓	✓	
- Site formation	√	√	√	
- Tree felling	√	√	√	
Shotcreting (Permanent and Temporary)	√	✓	✓	
Soil Nail Installation			√	

2.2. Project Organization & Management Structure

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

Table 2-2 Contact Information of Key Personnel

Party	Name	Contact Number
Contractor (Veolia Hong Kong Holding Ltd.)	Mr. Matt Choy	2902 5296
Independent Environmental Checker (IEC)	Ms. Claudine Lee	2859 5409
(Meinhardt Infrastructure and Environment Ltd.)		
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 2-3**. 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 D**

Table 2-3 Status of Submissions required under the FEP & EP during reporting period

	2 21 2 4 4 4 1 1 1 1	solono required under the r Er & E	
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	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	Submitted
		Report and Post-Transplantation Monitoring	15 th monitoring (13 Oct 2023)
2.8	2.10	Submission of Translocation Report and Post-Translocation Monitoring	Submitted
2.9	2.11	Submission of Detailed Landfill Gas Hazard Assessment Report	Submitted
2.10	2.12	Submission of Waste Management Plan	Submitted
3.2	3.2	Submission of Baseline Monitoring Report	Submitted
3.3	3.3	Submission of Monthly EM&A	11 th report (Oct 2023)
	Report		12 th report (Nov 2023)
			13 th report (Dec 2023)

2.4. Status of Environmental Approval Document

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

Table 2-4 Summary of the relevant valid permits, licences, and/or notifications on environmental protection

Permit / Licenses / Notification	Reference	Expiry Date	Remark
Environmental Permit (EP)	EP-292/2007	Throughout the Contract	Permit granted on 26 November 2007
Further Environmental Permit (FEP)	FEP-01/292/2007	Throughout the Contract	Permit granted on 28 April 2022
Further Environmental Permit (FEP)	FEP-02/292/2007	Throughout the Contract	Permit granted on23 August 2023
Notification of Construction Works as required under Air Pollution Control (Construction Dust) Regulation	479809	Throughout the Construction Phase	Notified on 13 May 2022
Registration of Waste Producer under Waste Disposal Ordinance	7043692	Throughout the Contract	Registered on 13 April 2022
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 (Replaced CNP No. GW-RN0619-23)
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)

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 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 Results

3.1.3.1 The impact dust monitoring results are summarized in **Table 3-3** and **Table 3-4.** The graphical presentations of monitoring data are presented in **Appendix E**.

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

	Average 1-hr TSP Concentration, μg/m³ (Range)			
Month	Dust Monitoring Station			
	AM1	AM2	AM3	
Oct 2023	31 (21 – 40)	42 (34 – 52)	46 (32 – 60)	
Nov 2023	28 (22 – 36)	34 (30 – 39)	37 (30 – 43)	
Dec 2023	29 (26 – 34)	37 (23 – 59)	51 (40 – 67)	
Action Level	>285	>279	>285	
Limit Level		>500		

Table 3-4 Summary of Impact 24-hr TSP Monitoring Results

	Average 24-hr TSP Concentration, μg/m³ (Range)			
Month	Dust Monitoring Station			
	AM1	AM2	AM3	
Oct 2023	70 (62 – 77)	55 (43 – 77)	70 (61 – 78)	
Nov 2023	112 (101 – 128)	89 (70 – 110)	101 (88 – 117)	
Dec 2023	97 (71 – 108)	81 (65 – 119)	91 (70 – 122)	
Action Level	>164	>152	>163	
Limit Level	>260			

3.1.3.2 The Summary of Impact 1-hr & 24-hr TSP Exceedance are shown in **Table 3-5**.

Table 3-5 Summary of Impact 1-hr & 24-hr TSP Exceedance

Dust Mon	Dust Monitoring Station		VI1	A	M2	A	M3
Level Exceedance Parameters		Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
1-hr TSP	Exceedance Date	-	-	-	-	-	-
	Exceedance Count	0	0	0	0	0	0
24-hr TSP	Exceedance Date	-	-	-	-	-	-
	Exceedance Count	0	0	0	0	0	0

Remarks: * equal to non-project related

3.1.3.3 No Action / Limit Level exceedance for 1-hr & 24-hr TSP impact monitoring at AM1, AM2 & AM3 was recorded during the reporting period. The Notification of Environmental Quality Limits Exceedances are presented in **Appendix F**.

3.1.4 Recommended Mitigation Measures

- 3.1.4.1 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.

3.1.5 Event and Action Plan

3.1.5.1 Should non-compliance of the criteria occur, action in accordance with the action plan in **Table 3-6** shall be carried out.

Table 3-6 Event and Action Plan for dust impact

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

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

4 Noise Monitoring

4.1 Monitoring Requirement

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

4.2 Monitoring Locations, Parameters and Frequency

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

4.3.1 The impact noise monitoring results are summarized in **Table 4-3**. The graphical presentations of monitoring data are presented in **Appendix E**.

Table 4-3 Summary of Noise Monitoring Results during normal working hours (07:00-19:00, Monday to Saturday)

	Average Leq, 30min, dB(A) (Range)		
Month	Noise Monitoring Station		
	NM1a	NM2a	
Oct 2023	63.1 (59.6 – 64.8)	55.2 (53.8 – 56.3)	
Nov 2023	60.0 (52.2 – 63.3)	49.1 (47.7 – 49.8)	
Dec 2023	61.9 (57.7 – 64.1)	53.5 (49.6 – 54.9)	
Action Level	When one documented complaint is received		
Limit Level	>750	iB(A)	

Remark:

- (1) * A correction of +3 dB(A) was made to the free field measurements
- (2) If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.
- 4.3.2 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 F**.
- 4.3.3 No particular observations are identified near the monitoring stations during the monitoring period.

4.4 Recommended Mitigation Measures

- 4.4.1 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 onsite construction activities.
- 2. Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.

4.5 Event and Action Plan

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

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

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

5 Water Quality Monitoring

5.1 Groundwater Monitoring

5.1.1 Monitoring Requirement

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

5.2 Surface Water Monitoring

5.2.1 Monitoring Requirement

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

5.2.2 Monitoring Locations, Parameters and Frequency

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

Table 5-1 Surface water quality monitoring locations

Monitoring	Location	Coordinate	s (HK Grid)
Station	Location	Easting	Northing
WM1	Upstream of Lin Ma Hang River	836665	845020
WM2	Ping Yuen River	835592	844186
GR3*	Ping Yuen River	835361	844134

Remarks:

[&]quot;*" The monitoring location only conducted based on the environmental complaint.

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

Parameter	Frequency
pH, Electrical conductivity, DO, Turbidity, SS, Alkalinity, COD, BOD ₅ , TOC, Ammonianitrogen, 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 Results

5.2.3.1 The summary of monitoring results is presented in **Table 5-3** & **Table 5-4**. Detailed graphical presentations at each monitoring station of surface water quality (DO, SS and Turbidity) at the monitoring stations are given in **Appendix E**.

Table 5-3 Summary of Impact Surface Water Monitoring Results at WM1

	Monitoring Station WM1				
Monitoring	Monitoring Results				
Parameter(s)	Oct 2023			Action Level	Limit Level
рН	7.4	7.6	7.6	>7.7	>7.8
DO in mg/L	7.9	7.5	7.6	<7.4	<4
Turbidity in NTU	6.6	5.1	5.8	>9.2	>9.5
Electrical Conductivity in µS/cm	51	59	95		
SS in mg/L	4.0	2.5	9.5	>9.7	>11.4
Alkalinity	14	17	16		
COD	21	7	7		
BOD ₅	<2	<2	<2		
TOC	2	2	<1		
Ammonia-nitrogen	0.08	0.07	0.03		
TKN	0.3	0.5	0.2		
Nitrate	0.06	0.05	0.03		
Sulphate	<1	<1	3		
Sulphite	<2	<2	<2		
Phosphate	0.01	0.0	0.0		
Chloride	6	6	6		
Sodium	6790	8120	8380		
Mg	450	480	500		
Ca	2850	3330	3290		
K	530	600	400		
Fe	330	420	930		
Ni	<1	<1	1.0		
Zn	10	13	<10		
Mn	28	41	57		
Cu	<1	2.0	<1		
Pb	<1	<1	<1		
Cd	<0.2	<0.2	<0.2		
Coliform Count	1600	25	Not Detected		
Oil and Grease	<5	<5	<5		

Remarks: "TBC" equal to To Be Confirm

Table 5-4 Summary of Impact Surface Water Monitoring Results at WM2

	Monitoring Station WM2				
Monitoring	N	Monitoring Results			
Parameter(s)	Oct 2023	Nov 2023	Dec 2023	Action Level	Limit Level
рН	7.6	7.5	7.5	>7.6	>7.7
DO in mg/L	7.5	6.5	5.6	<5	<4
Turbidity in NTU	43.2	20.8	60.2	>108.3	>108.9
Electrical Conductivity in µS/cm	148	159	191		
SS in mg/L	19.4	10.0	44.6	>94.7	>94.7
Alkalinity	36	44	54		
COD	<5	<5	7		
BOD ₅	<2	<2	<2		
TOC	2	2	2		
Ammonia-nitrogen	0.11	0.06	0.26		
TKN	0.2	0.1	0.5		
Nitrate	0.25	0.19	0.15		
Sulphate	18	24	22		
Sulphite	<2	<2	<2		
Phosphate	<0.01	<0.01	<0.01		
Chloride	5	6	8		
Sodium	5190	6010	7770		
Mg	1320	1470	1970		- -
Ca	16500	19400	23800		
K	2470	2010	2480		
Fe	1780	1340	3080		
Ni	1.0	2	2		
Zn	13	20	26		
Mn	703	1350	2540		
Cu	1	1	3		
Pb	5	1	4		
Cd	<0.2	<0.2	<0.2		
Coliform Count	1000	56	10		
Oil and Grease	<5	<5	<5		

Remarks: "TBC" equal to To Be Confirm

5.2.3.2 The Summary of Impact Surface Water Quality Exceedance are shown in Table 5-5.

Table 5-5 Summary of Impact Surface Water Quality Exceedance during the reporting period

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

Remarks: * equal to non-project related

5.2.3.3 No exceedance of Action and Limit Levels of surface water monitoring was recorded during the reporting period. The Notification of Environmental Quality Limits Exceedance is presented in Appendix G.

5.2.4 Recommended Mitigation Measure

- 5.2.4.1 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.

5.2.5 Event and Action Plan

5.2.5.1 Should non-compliance of the criteria occurs, action in accordance with the action plan in **Table 5-6** shall be carried out.

Table 5-6 Event and Action Plan for Water Quality

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

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

6 Waste Management

- 6.1 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 G**.
- **6.2** 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 excavation 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 Location

- 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 Period	oring Period Monitoring Location Type of works	
Oct to Dec 2023	Portion A +50 mpD to 70 mpD Platform	Excavation Works

7.3 Monitoring Results

7.3.1 The LFG monitoring was conducted at Portion A +50 mpD to 70 mpD Platform during the reporting period (conducted on working days). The LFG monitoring results are summarized in **Table 7-2.**

Table 7-2 Summary of LFG Monitoring Results

LFG	Monitoring	Monitoring Parameter(s)					
Monitoring	Date	CH₄ in %	LEL in %/v	CO ₂ in %	O ₂ in %		
Station		Average Monitoring Results (Range)					
Oct 2023	Oct 2023	0	0	0	20.2		
	OCI 2023		U	(20.1 – 20.3)			
+50 mpD to	Nov 2023	0	0	0	20.1		
70 mpD	NOV 2023	JV 2023 U	U	U	(20.0 - 20.2)		
Platform	Dec 2023	0	0	0	20.1		
	Dec 2023	U	U	0	(20.0 - 20.2)		
Actio	Action Level			>0.5%** CO ₂	<19%		
Limit Level		>20% LEL		>1.5% CO ₂	<18%		

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

- 7.3.2 No exceedance of Action and Limit Levels of LFG was recorded during the reporting period. The Notification of Environmental Quality Limits Exceedance is presented in **Appendix G**.
- 7.3.3 No effect that arose from the other special phenomena and work progress of the concerned site was noted during the current monitoring month.

7.4 Recommended Mitigation Measures

- 7.4.1 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.

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

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.

7.5 Event and Action Plan (EAP)

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

Table 7-3 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.

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

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

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 H**.

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 25 April 2022 and the verification works carried out on 23 August 22 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 22 August 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 I**. 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 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 October 2023) presents the details of requirements, monitoring results and site inspection with photos. During the reporting period, the numbers, measurements, and health conditions of the transplanted plant species are recorded. The post-transplantation monitoring had been completed in October 2023. No further post-transplantation monitoring will be conducted in accordance with the requirement of the approved Transplantation Proposal for Plant Species of Conservation Importance (Rev.1).
- 10.1.2 In the reporting period, the post-translocation monitoring for the Endemic Freshwater Crab *Somanniathelphusa zanklon* was based on the requirement of the approved Revised Translocation Proposal for the Endemic Freshwater Crab *Somanniathelphusa zanklon*. 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/.

Milestone of the Ecological Monitoring **Table 10-1**

-1 Milestone of the Ecological Monitoring					
Type of Monitoring	Monitoring Event No.	Monitoring Date			
Post-	1 st	24 Nov 2022			
transplantation	2 nd	9 Dec 2022			
Monitoring	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-	1 st (Aug 2022)	29 Aug 2022			
translocation	2 nd (Sep 2022)	28 Sep 2022			
Monitoring	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 Total 13 weekly environmental site inspections were conducted during the reporting period. 3 of them were the joint environmental site inspections with the representatives of ER, Contractor, IEC and ET. There was no noncompliance recorded during the site inspections.
- 11.1.3 Details of observations and recommendations are summarized in Table 11-1.

Table 11-1 Observations and Recommendations of Site Audit

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Air Quality	16 Oct 2023	Reminder: The contractor was reminded to provide regular water spraying to the haul road to control the dust level.	The contractor was reminded to provide regular water spraying to the haul road to control the dust level.
	24 Oct 2023	Reminder: The contractor was reminded to increase the water spraying at the unpaved area and assess road.	The contractor was reminded to increase the water spraying at the unpaved area and assess road.
	6 Nov 2023	Observation: The outside surrounding of the scaffolding without dust screen, sheeting or netting was found at the Portion D.	The contractor was advised that the effective dust screens, sheeting or netting should be 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.
	13 Nov 2023	Observation: The loaded dump truck without covering impervious sheet was found at the assess road between Portion A and E4.	The contractor was recommended to ensure all of loaded dump trucks should be covered by impervious sheeting.
	27 Nov 2023	Reminder: The contractor was reminded that water spraying shall be provided regularly for dust control.	The contractor was reminded that water spraying shall be provided regularly for dust control.
	4 Dec 2023	Observation: The dust dispersion was observed in the site.	The contractor was advised to regularly water the works area and provide enough sprayers to dampen the surface of construction materials and the site, especially during the work process, to minimize dust dispersion.
	11 Dec 2023	Observation: The accumulated uprooting of trees at portion E4 was observed.	The contractor was advised to regularly water the uprooted trees to prevent dust dispersion and arrange for regular disposal to avoid accumulation.

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Air Quality	18 Dec 2023	Observation: Stockpiling of dusty material without covered by impervious sheet at Portion D was observed.	The contractor was reminded that stockpiling of dusty material should be covered by impervious sheet at Portion D to prevent dust dispersion.
	18 Dec 2023	Reminder: The contractor was recommended that the exposed slope surface at SBA should be covered by an impervious sheet in the short term and should be shotcrete or other measurements for long-term surface protection.	The contractor was recommended that the exposed slope surface at SBA should be covered by an impervious sheet in the short term and should be shotcrete or other measurements for long-term surface protection.
	27 Dec 2023	Observation: Assess road was dry and fugitive dust was observed, especially at portion E4.	The contractor was recommended to arrange watering and provide enough sprayers to minimize dust dispersion at all assess road.
	27 Dec 2023	Observation: Exposed slope surface without covered by tarpaulin sheets at portion E4 was observed.	The contractor was advised that the exposed slope surface at portion E4 should be covered by tarpaulin sheets or other measurement like shotcrete or hydroseeding for long term slope surface protection.
	27 Dec 2023	Observation: Dusty materials without covered by impervious sheet at portion E4 was observed.	The contractor was reminded that the dusty materials should be covered with impervious sheet to prevent dust suppression.
Noise	No specific obs	servation was identified in the reportin	g period.
Water Quality	3 Oct 2023	Observation: 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.
	3 Oct 2023 Observation: The accumulated surface rur Portion E3 should be divided silt removal facility for waste treatment.		The contractor was advised to divide the surface runoff to the silt removal facility for proper wastewater treatment.
	11 Oct 2023	Observation: The slope surface protection should be enhanced at Portion E4 near entrance and assess 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.
	11 Oct 2023	Observation: 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.

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Water Quality	6 Nov 2023	Observation: The muddy water which is caused from the water spraying by the water sprinkler at the Portion A was found. The deposited silt and grit are found under the tower crane at the Portion A.	The contractor was recommended that the sandbag barriers or bunds should be provided and established along the water safety barriers at the Portion A. The muddy water should be collected from the proper channel, final to the silt removal facility for treatment. The deposited silt and grit under the tower crane at the Portion A should be removed.
	6 Nov 2023	Observation: The slope surface at the Portion E4 should be covered by impervious sheet properly.	The contractor was advised to cover the exposed slope surface by impervious sheet properly.
	20 Nov 2023	Observation: The slope surface at SBA without covering impervious sheets properly was found.	The contractor was recommended that the exposed slope should be covered by impervious sheet.
	4 Dec 2023	Observation: The muddy water which is caused from the watering at the Portion D was found. The deposited silt and grit were found under the construction materials at the Portion D	The contractor was reminded that the muddy water should be collected from the proper channel and final to the silt removal facility for treatment. The deposited silt and grit under the construction materials at the Portion D should be removed.
	18 Dec 2023	Observation: Insufficient silt fence around the stockpile area at SBA was observed.	The contractor was advised to provide and maintain sufficient silt fence around the stockpile area in each layer, ensuring that each layer effectively prevents sediment from entering the surface water drainage system.
	The contractor was recommended that the exposed slope surface at SBA should be covered by an impervious sheet in the short term and should be		The contractor was recommended that the exposed slope surface at SBA should be covered by an impervious sheet in the short term and should be shotcrete or other measurements for long-term surface protection.
	27 Dec 2023	Observation: Dusty materials without covered by impervious sheet at portion E4 was observed.	The contractor was reminded that the dusty materials should be covered with impervious sheet to prevent dust suppression.
Waste and Chemical Management	3 Oct 2023	Observation: 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.

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Waste and Chemical Management	11 Oct 2023	Observation: 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.
	11 Oct 2023	Observation: 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.
	11 Oct 2023	Observation: 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 Oct 2023	Observation: 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.
	16 Oct 2023	Observation: The chemical labelling should be provided for lots of chemicals at SBA and oil drum at Portion E3-1.	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.
	24 Oct 2023	Observation: 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.
	24 Oct 2023	Observation: 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.
	30 Oct 2023	Observation: 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.
	6 Nov 2023	Observation: The food waste was found at the waste skip of SBA. The general waste should be stored in the enclosed bins.	The contractor was advised that the additional enclosed bin should be increased at the SBA. The "type of waste" label should be labelled at the surrounding of the enclosed bins or waste skip for easily identify for on-site workers.

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Waste and Chemical Management	20 Nov 2023	Observation: The general waste at the waste skip of SBA was found. The contractor was reminded that the general waste includes food waste should be stored at the enclosed bins.	The enclosed bin with clear label should be provided at SBA near the waste skip.
	20 Nov 2023	Observation: The overloading of accumulated waste at portion A was found.	The contractor was advised that the enough waste skip should be provided, and the waste should be clean regularly at portion A to prevent and avoid accumulated waste place on the floor.
	4 Dec 2023	Observation: The general waste shall be removed and disposed in the enclosed bin at Portion D.	The contractor was recommended to clean up the site regularly and provide enough enclosed bin onsite to keep the site clean and tidy.
Landscape and Visual Impact	No specific obs	servation was identified in the reportir	ng period.
Permit / Licenses	No specific obs	servation was identified in the reportir	ng period.

11.1.4 Two general site inspection on 27 November and 11 December 2023 was conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG).

12 Environmental Non-conformance

12.1 Summary of Monitoring Exceedance

Air Quality Monitoring

12.1.1 No Action / Limit Level exceedance impact monitoring was recorded at designated monitoring stations during the reporting period. The Summary of Impact 1-hr & 24-hr TSP Exceedance are shown in **Table 12-1**.

Table 12-1 Summary of Impact 1-hr & 24-hr TSP Exceedance during the reporting period

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

Remarks: * equal to non-project related

Noise Monitoring

12.1.2 No exceedance of the Action and Limit Levels was recorded at designated monitoring stations during the reporting period. The Summary of Impact Noise Exceedance are shown in Table 12-2.

Table 12-2 Summary of Impact Noise Exceedance during the reporting period

Noise Monitoring Station		NM	1(a)	NM2(a)	
Level Exceedance Parameters		Action Level	Limit Level	Action Level	Limit Level
LA _{eq} (30mins)	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0

Remarks: * equal to non-project related

Surface Water Quality Monitoring

12.1.3 No exceedance of Action and Limit Levels of surface was recorded at designated monitoring stations during the reporting period. The Summary of Impact Surface Water Quality Exceedance are shown in **Table 12-3**.

Table 12-3 Summary of Impact Surface Water Quality Exceedance during the reporting period

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

Remarks: * equal to non-project related

Landfill Gas Monitoring

12.1.4 No exceedance of the Action and Limit Levels for were recorded at designated monitoring stations during the reporting period. The Summary of Landfill Gas Exceedance are shown in **Table 12-4**.

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

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

Remarks: * equal to non-project related

12.2 Summary of Environmental Non-compliance

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

12.3 Summary of Environmental Complaint

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

Table 12-5 Cumulative Statistics on Environmental Complaints

		Environmental Aspects					
Reporting Period		Air Quality	Noise	Water Quality	Waste	Ecology	
O-t 2022	Complaint Date	-	-	-	-	-	
Oct 2023	No. of Complaint	0	0	0	0	0	
Nav. 2022	Complaint Date	-	-	-	-	-	
Nov 2023	No. of Complaint	0	0	0	0	0	
D 0000	Complaint Date	-	-	-	-	-	
Dec 2023	No. of Complaint	0	0	0	0	0	
Total during the reporting period		0	0	0	0	0	
Accum	ulate of project	1	0	5	0	0	

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

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

12.4 Summary of Environmental Summons and Successful Prosecution

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

13 Implementation Status on Environmental Mitigation Measures

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 implemented mitigation measures are considered effective. The implementation status during the reporting period is summarized in **Appendix H**.

14 Conclusion

- 14.1.1 1-hr & 24-hr TSP impact monitoring was carried out in the reporting period. No Action / Limit Level exceedance for 1-hr & 24-hr TSP impact monitoring at AM1, AM2 & AM3 was recorded during the reporting period.
- 14.1.2 Construction noise monitoring was carried out in the reporting period. No Action / Limit Level exceedance for construction noise monitoring at NM1a & NM2a was recorded during the reporting period.
- 14.1.3 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.
- 14.1.4 Surface water monitoring was carried out in the reporting period. No Action / Limit Level exceedance for surface water monitoring at WM1 & WM2 was recorded during the reporting period.
- 14.1.5 Landfill Gas Monitoring was carried out in the reporting period. No exceedance of Action and Limit Levels of LFG was recorded during the reporting period.
- 14.1.6 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.
- 14.1.7 1 post-transplantation monitoring, and no post-translocation monitoring was conducted during the reporting period.
- 14.1.8 13 environmental site inspections were carried out in the reporting period. Recommendations on mitigation measures for Permit/ Licenses were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 14.1.9 No environmental complaint was recorded during the reporting period.
- 14.1.10 No non-compliance event was recorded during the reporting period.
- 14.1.11 No notification of summons and prosecution was received during the reporting period.

Comment and Recommendations

- 14.1.12 The recommended environmental mitigation measures, as proposed in the EIA reports and EM&A Manuals shall be effectively implemented to minimize the potential environmental impacts from the Project. The EM&A programme would effectively monitor the environmental impacts generated from the construction activities and ensure the proper implementation of mitigation measures.
- 14.1.13 According to the environmental audit performed in the reporting period, the following recommendations were made:

Air Quality Impact

- The Contractor was reminded to increase the water spraying at the unpaved area and all assess roads to control the dust level.
- The Contractor was advised that the effective dust screens, sheeting or netting should be 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.
- The Contractor was recommended to ensure all loaded dump trucks should be covered by impervious sheeting.
- The Contractor was advised to regularly water the works area and provide enough sprayers to dampen the surface of construction materials and the site, especially during the work process, to minimize dust dispersion.

- The Contractor was advised to regularly water the uprooted trees to prevent dust dispersion and arrange for regular disposal to avoid accumulation.
- The Contractor was reminded that stockpiling of dusty material should be covered by impervious sheet at Portion D to prevent dust dispersion.
- The Contractor was recommended that the exposed slope surface should be covered by impervious sheets in the short term and should be shotcrete, hydroseeding or other measurements for long-term surface protection.

Construction Noise Impact

No specific observation was identified in the reporting period.

Water Quality Impact

- The Contractor was advised to conduct regularly cleaning works to remove the accumulated silt in the channel.
- The Contractor was advised to divide the surface runoff to the silt removal facility for proper wastewater treatment.
- The Contractor was recommended that the exposed slope should be covered with impervious sheet properly in the short term and the shotcrete for slope surface should be conducted in the long term.
- The Contractor was recommended that the sandbag barriers or bunds should be provided and established along the water safety barriers at the Portion A. The muddy water should be collected from the proper channel, final to the silt removal facility for treatment. The deposited silt and grit should be removed regularly.
- The Contractor was advised to provide and maintain sufficient silt fence around the stockpile area in each layer, ensuring that each layer effectively prevents sediment from entering the surface water drainage system.

Waste and Chemical Management

- The Contractor was reminded to clear the stagnant water in the drip tray.
- 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 Contractor was recommended that the drip tray should be placed under the chemical container.
- The Contractor was recommended to provide enough enclosed bins for collection of general waste and the frequency for collection of general waste should be increased.
- The Contractor was advised that the chemicals should be placed at the proper location for storage and the suitable chemical label should be placed on the chemical containers.
- 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.
- The Contractor was advised that the additional enclosed bin should be increased at the proper location to prevent and avoid accumulated waste place on the floor. The "type of waste" label should be labelled at the surrounding of the enclosed bins or waste skip for easily identify for on-site workers.

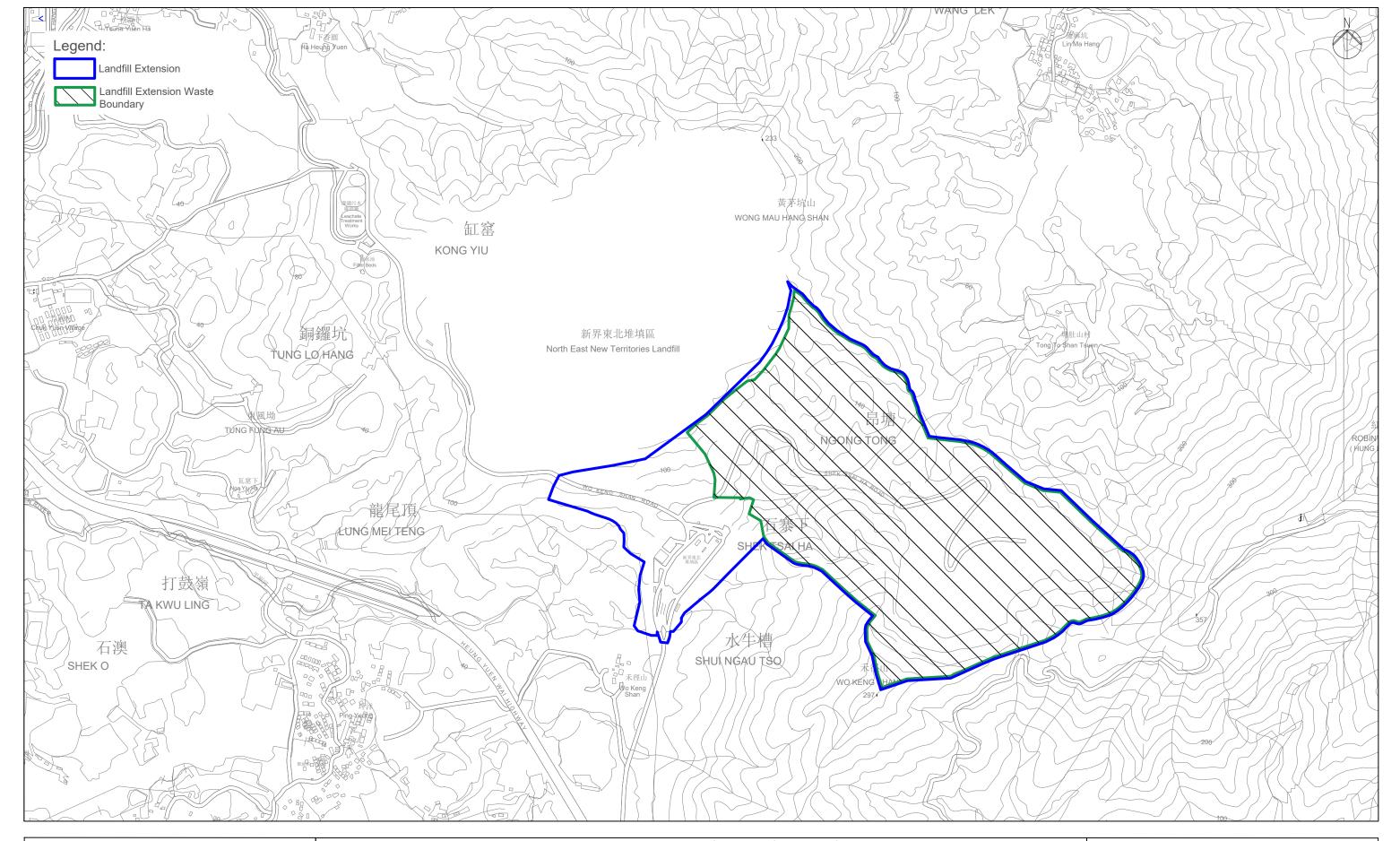
Landscape and Visual Impact

No specific observation was identified in the reporting period.

Permit / Licenses

- No specific observation was identified in the reporting period.
- 14.1.14 The Contractor has generally implemented environmental mitigation measures and requirements as stated in the EIA Report, the EP and EM&A Manual and the contract documents. The implemented mitigation measures are considered effective.
- 14.1.15 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



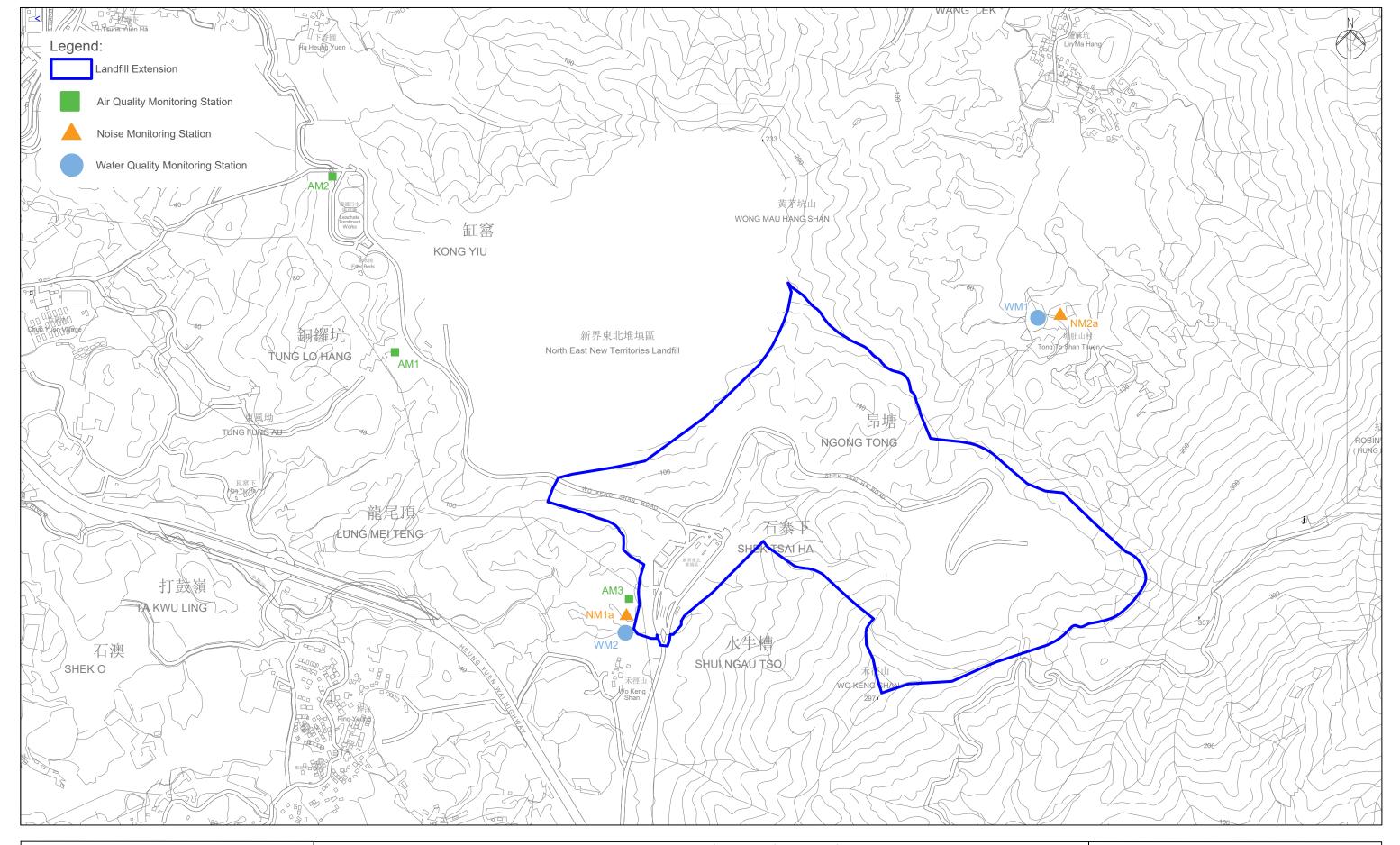


North-East New Territories (NENT) Landfill Extension Location Plan of the Project Site

Figure 1.1

Scale: 1:10000

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





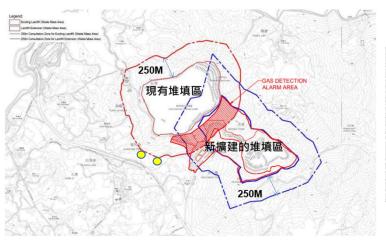
North-East New Territories (NENT) Landfill Extension Impact Monitoring Locations

Figure 2

Scale: 1:10000

Figure 3 Landfill Gas Monitoring Locations

Gas Monitoring Point • Monitoring Frequency: 2 times per day



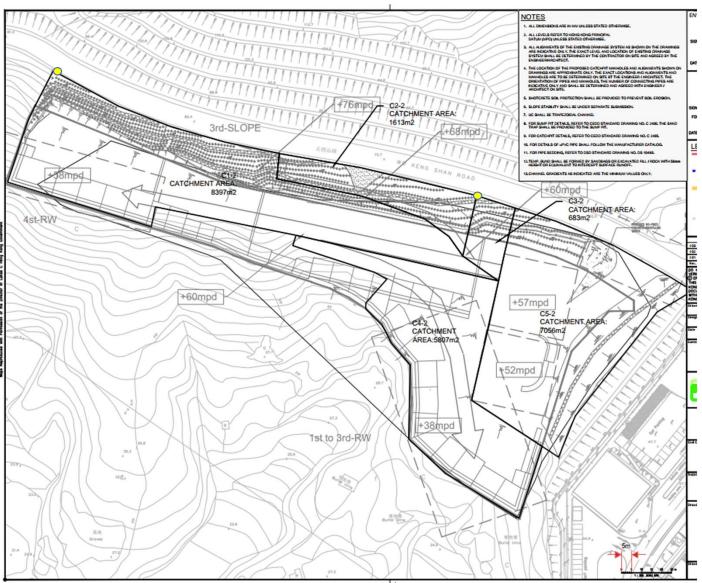
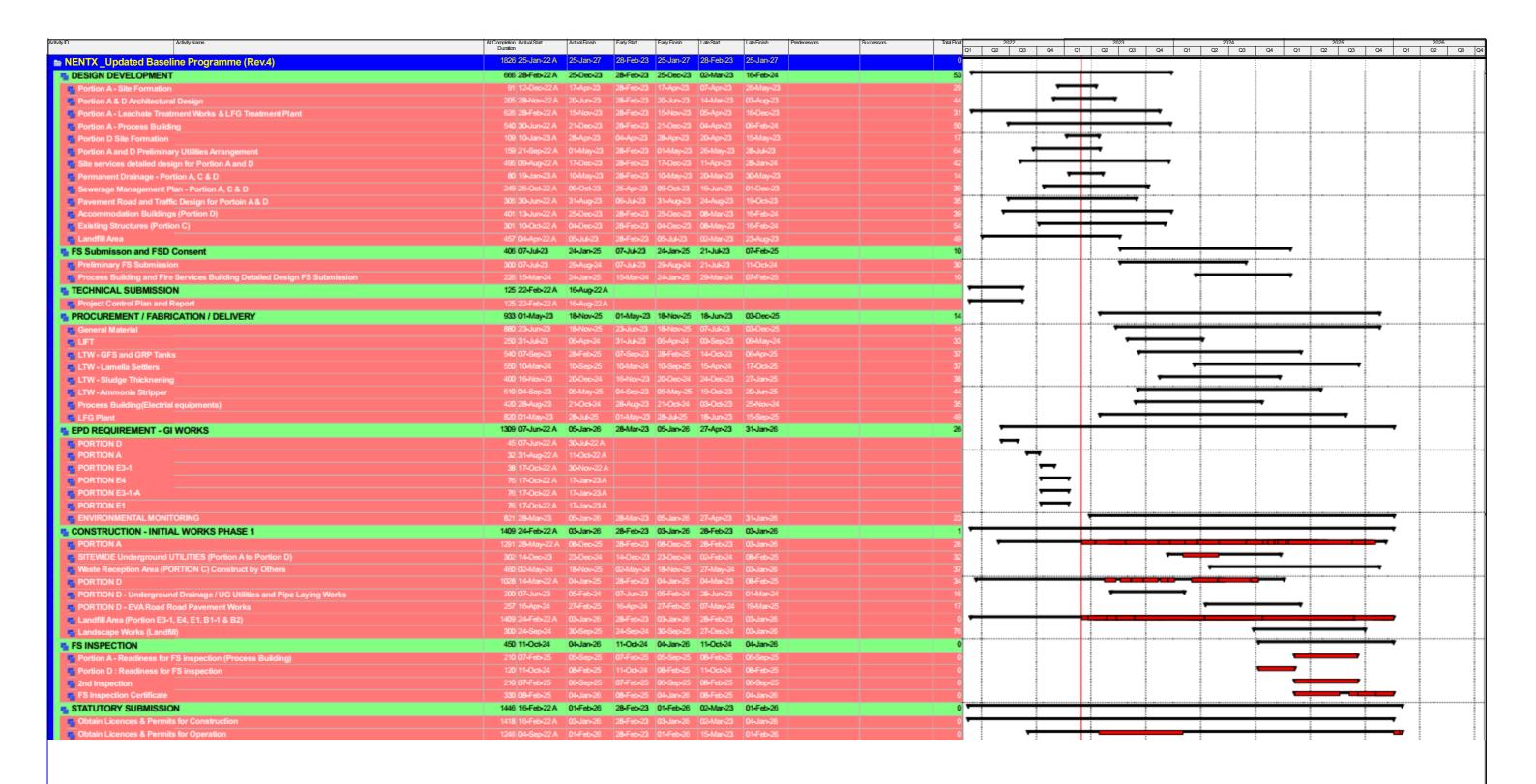


Figure 3 Landfill Gas Monitoring Locations

Appendix A Construction Programme







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



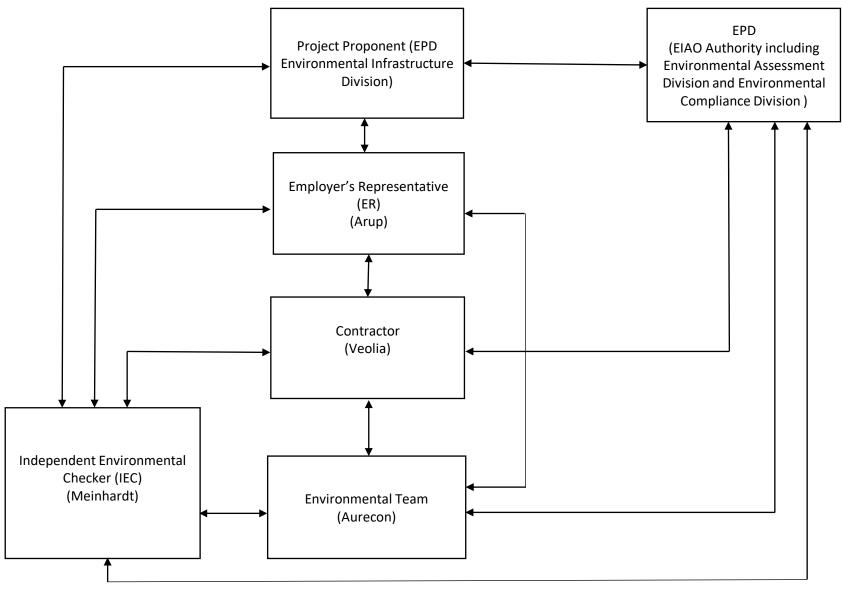
Revision	Ch	Appr
GENERAL REVISION		
GENERAL REVISION		
	GENERAL REVISION	GENERAL REVISION

Appendix B 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 Covering of cement storage area,
Soil Nail Installation	Portion A, E1/B2, E4	PYE	Dust	Covering of cement storage area, enclosure of mixing area, watering during works, install dust screen at work area

Remark: PYE is the Sub-contractor for this project

Appendix C Project Organization Chart & Management Structure



Notes:

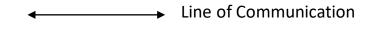
EPD - Environmental Protection Department

Arup – Ove Arup & Partners Limited

Veolia - Veolia Environmental Services Hong Kong Limited

Meinhardt - Meinhardt Infrastructure And Environment Limited

Aurecon - Aurecon Hong Kong Limited



Appendix D Detail Status of FEP & EP Submission

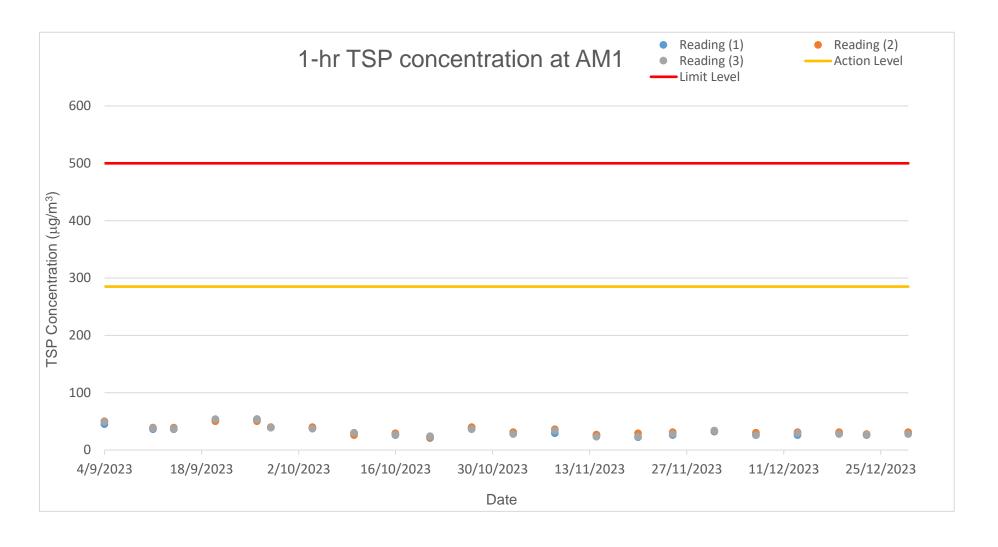
Detail Status of Submissions required under the FEP & EP

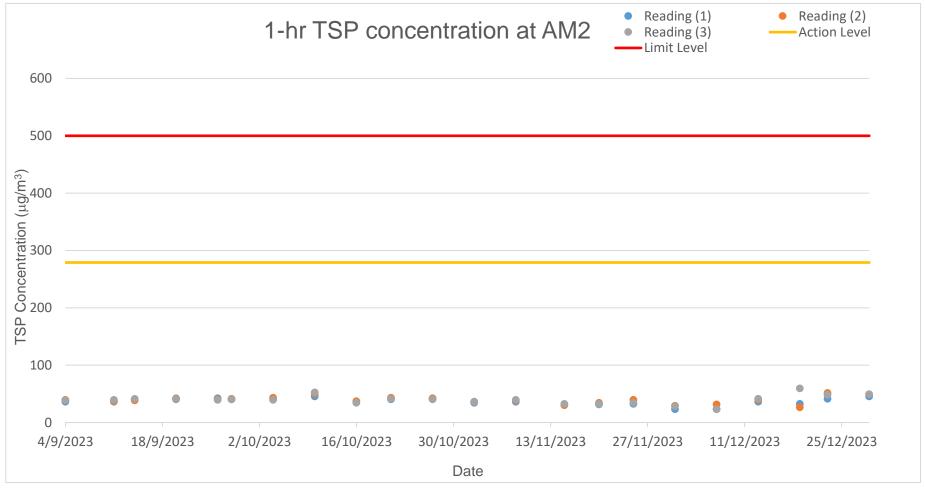
FEP Condition	EP Condition	Submission / Measures	Status
2.1	2.3	Management Organization of Main Construction Companies	Submission Date (12 Oct 2022)
2.2	2.4	Setting up of Community Liaison Group (CLG)	Submission Date (12 Oct 2022)
			1 st CLG meeting (12 Jan 2023)
2.3	2.5	Submission of EM&A Manual	Submission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

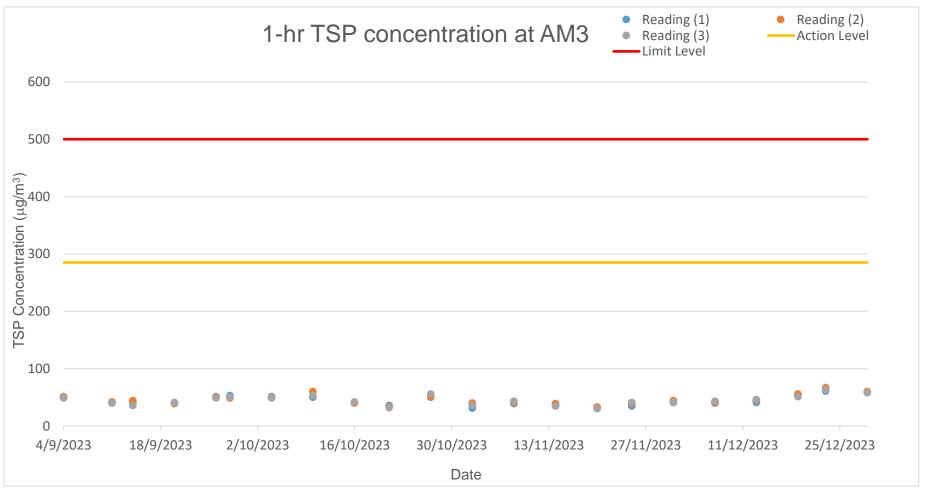
FEP Condition	EP Condition	Submission / Measures	Status
2.8	3 2.10 Submission of Translocation Report and Post-Translocation Monitoring	Translocation was carried out in July 2022	
			Submission Date (27 December 2022)
			1 st monitoring (29 Aug 2022)
			2 nd monitoring (28 Sep 2022)
			3 rd monitoring (28 Oct 2022)
			4 th monitoring (22 Nov 2022)
			5 th monitoring (29 Dec 2022)
			6 th monitoring (30 Jan 2023)
			7 th monitoring (24 Feb 2023)
			8 th monitoring (20 Mar 2023)
			9 th monitoring (19 Apr 2023)
			10 th monitoring (17 May 2023)
			11 th monitoring (7 Jun 2023)
			12 th monitoring (12 Jul 2023)
2.9	2.11	Submission of Detailed Landfill Gas Hazard Assessment Report	Submission Date (6 Oct 2022)
2.10	2.12	Submission of Waste Management Plan	Submission Date (30 December 2022)
3.2	3.2	Submission of Baseline Monitoring Report	Submission Date (30 Nov 2022)
3.3	3.3	Submission of Monthly EM&A Report	1 st report (Dec 2022)
			2 nd report (Jan 2023)
			3 rd report (Feb 2023)
			4 th report (Mar 2023)
			5 th report (Apr 2023)
			6 th report (May 2023)
			7 th report (Jun 2023)
			8 th report (Jul 2023)
			9 th report (Aug 2023)
			10 th report (Sep 2023)
			11 th report (Oct 2023)
			12 th report (Nov 2023)
			13 th report (Dec 2023)

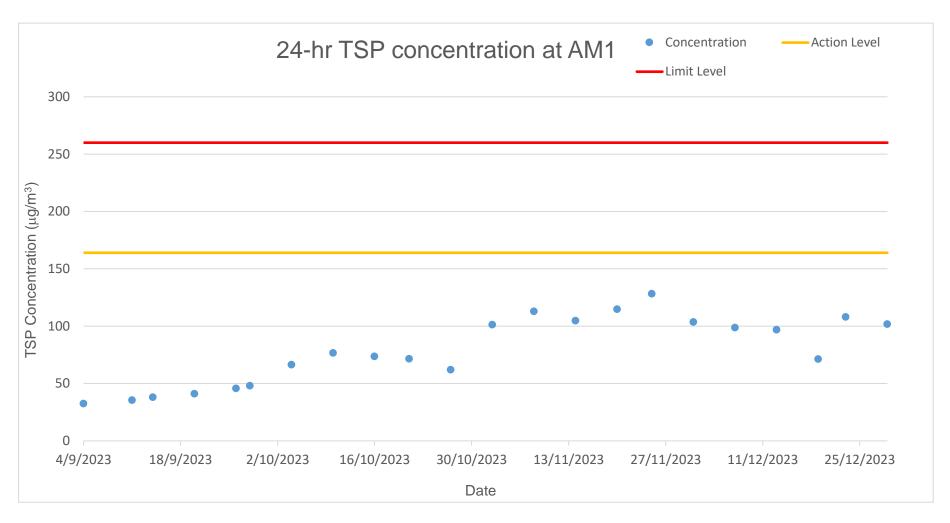
Appendix E Graphical Presentations

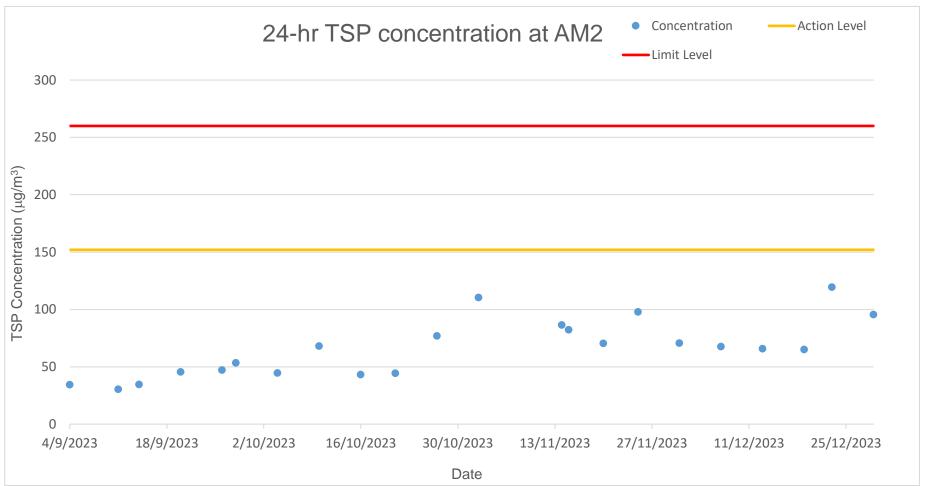
Air Quality

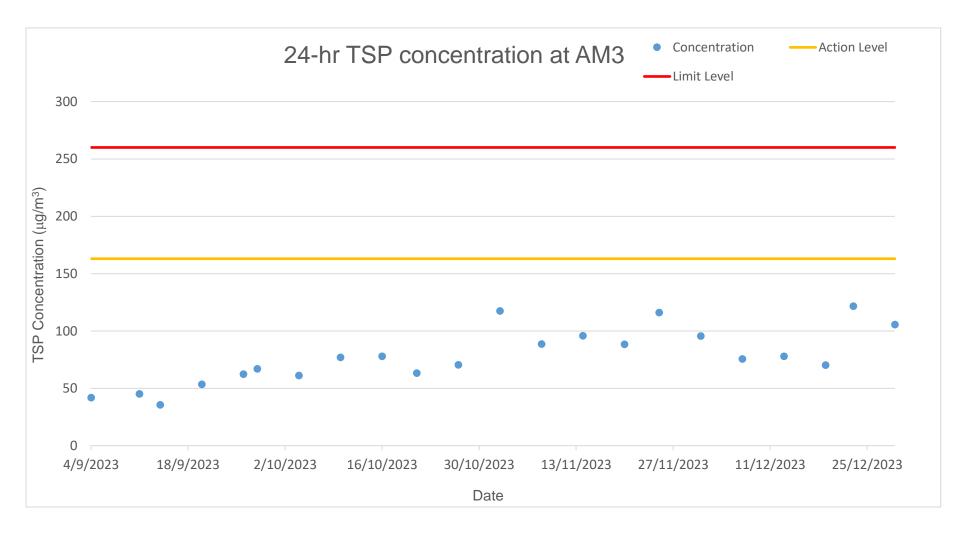




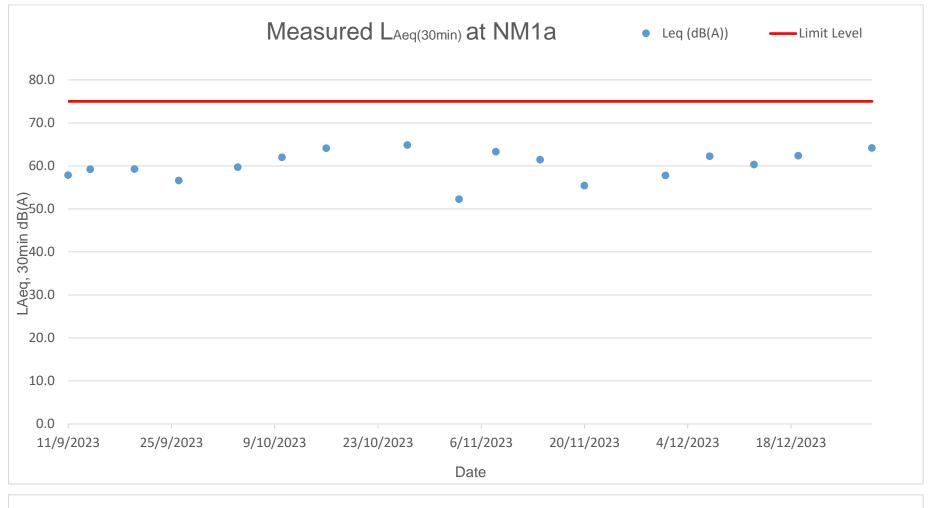


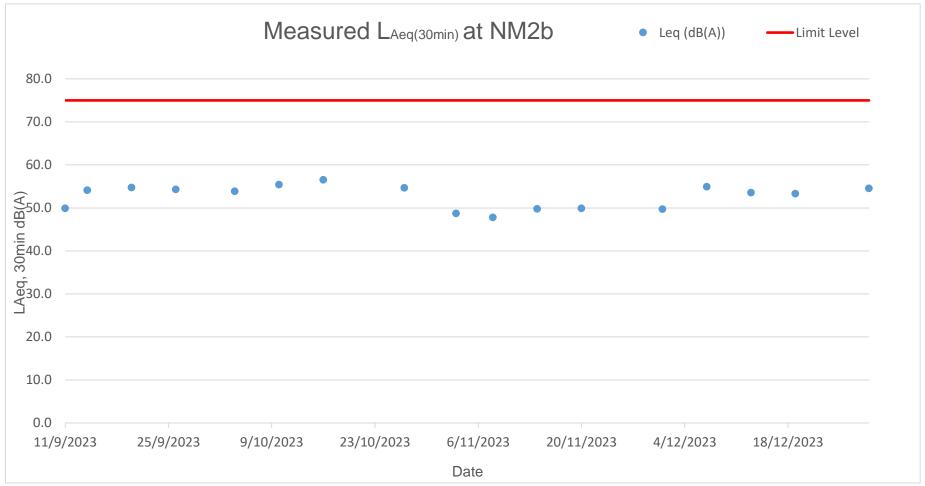






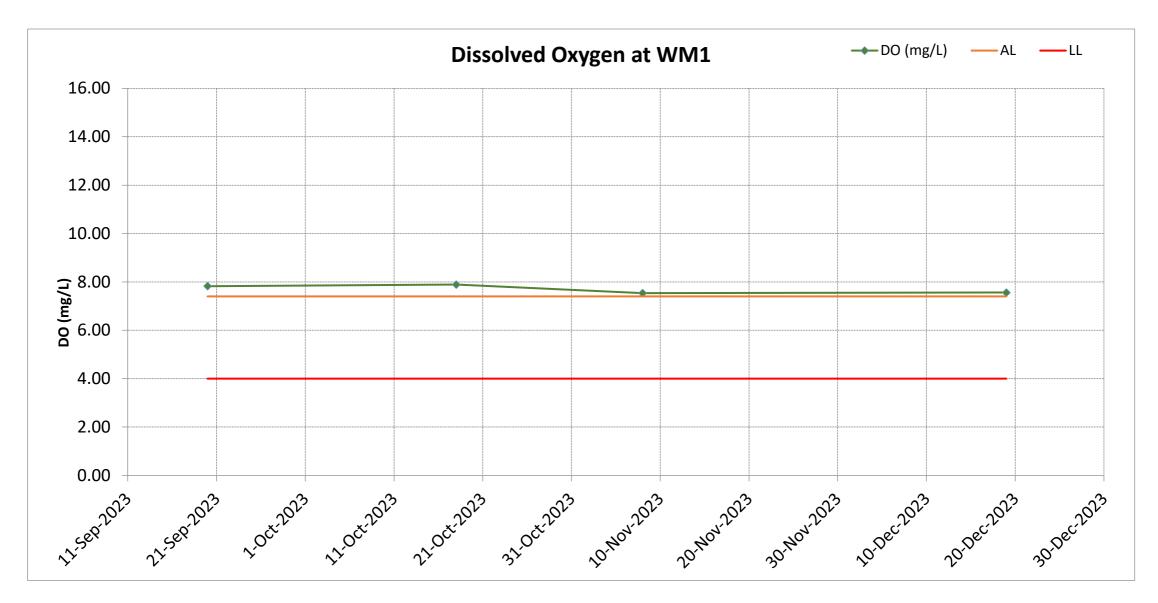
Noise

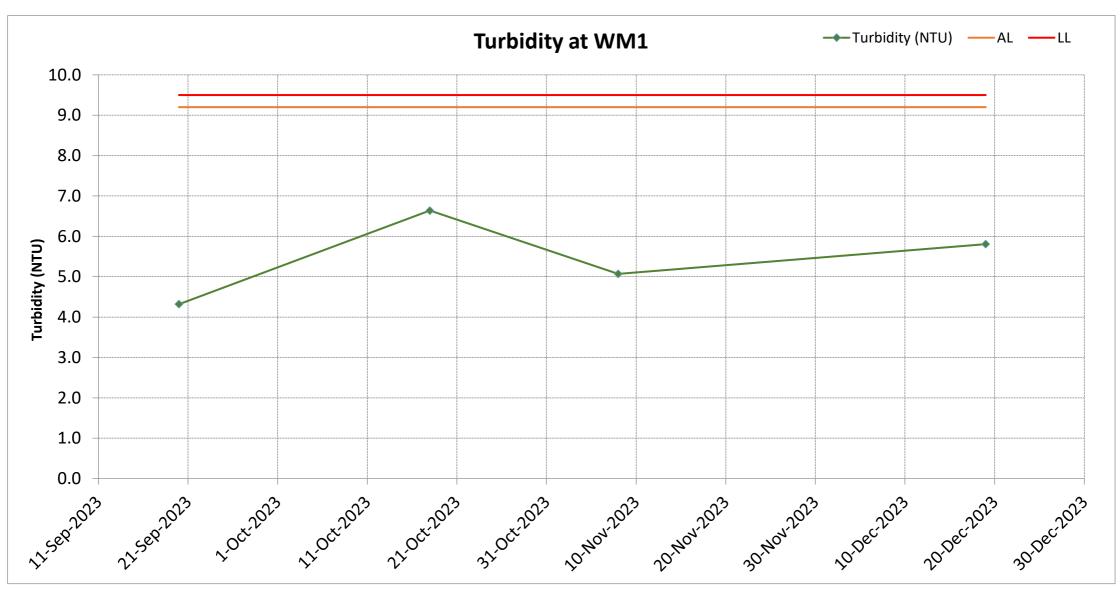




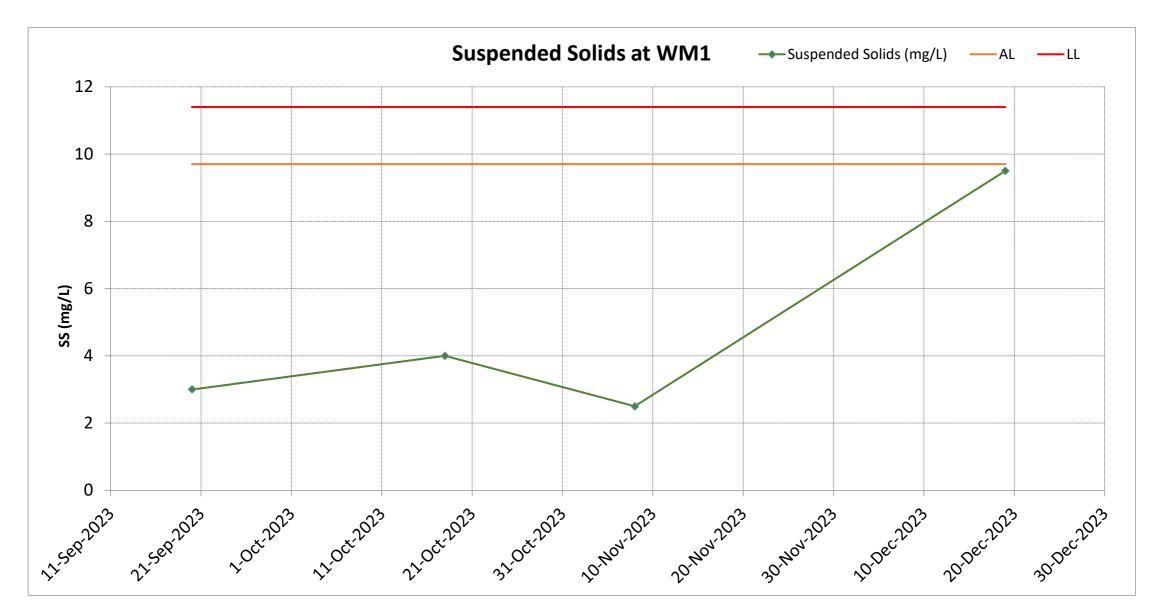
Water Quality

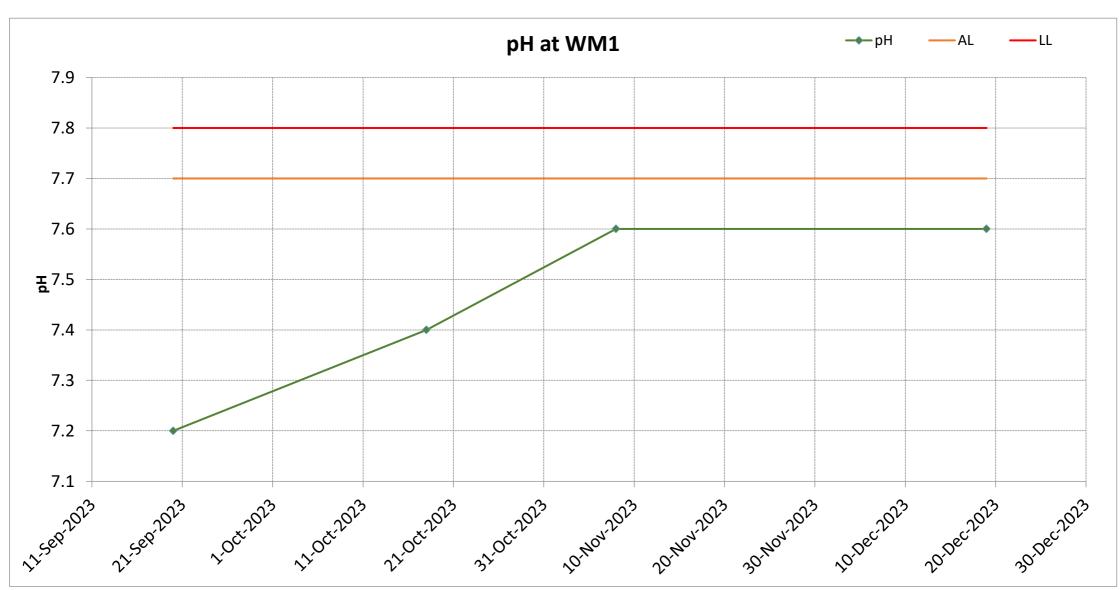
Surface Water Monitoring Results at WM1



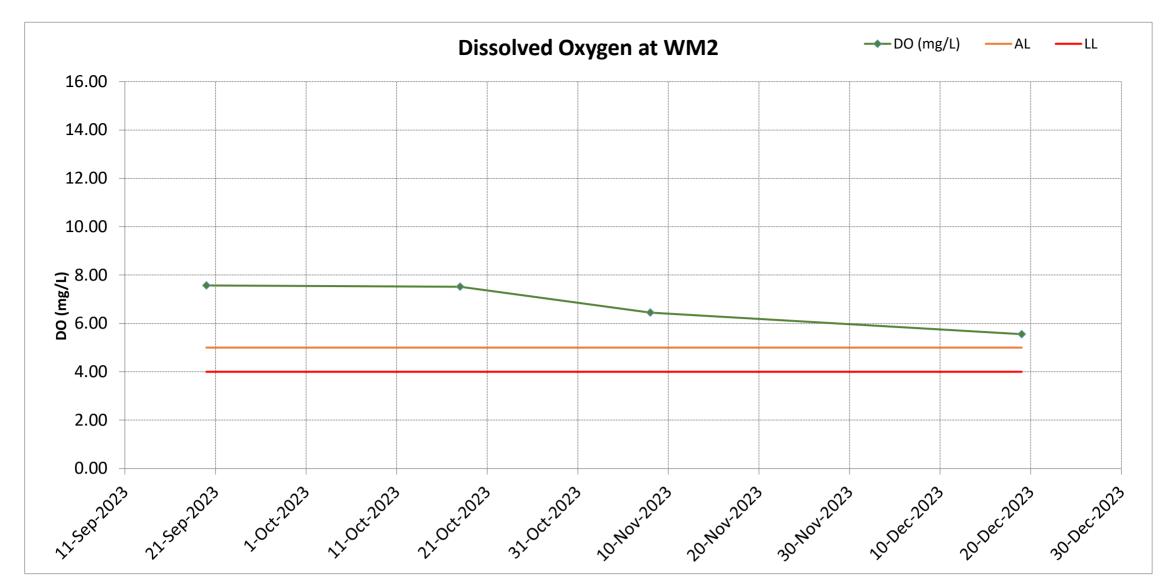


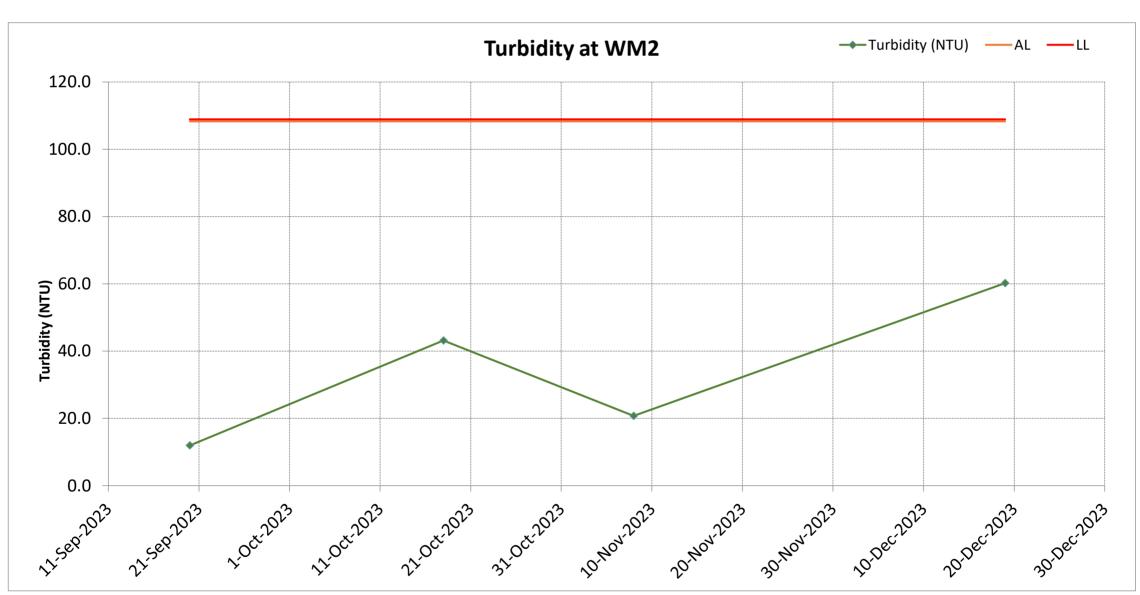
Surface Water Monitoring Results at WM1



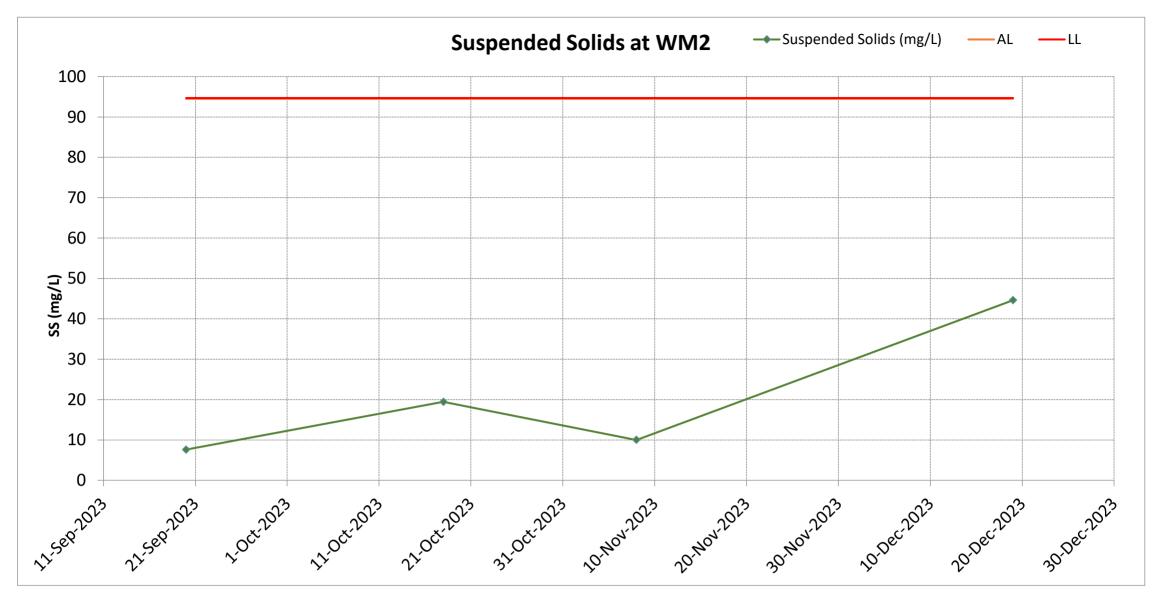


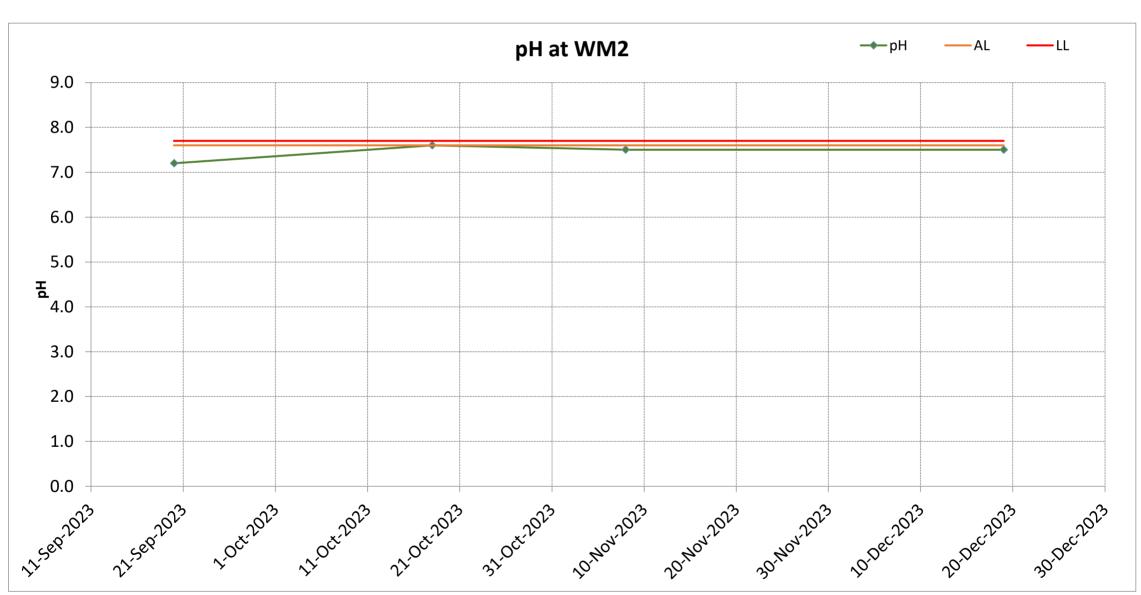
Surface Water Monitoring Results at WM2





Surface Water Monitoring Results at WM2





Appendix F Notification of Environmental Quality Limits Exceedance

Notification of Environmental Quality Limits Exceedance

Air Quality Monitoring - Construction Dust

				1-ł	nr TSP Exce	eedance Co	unt	24-hr TSP Exceedance Count					
Dust Monitoring	Level	Monitoring F	Parameter (s)	Reportir	ng period		ate project date	Reportir	ng period		ate project date		
Station	Exceedance	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 replated		
A N 4 4	Action	0	0	0	0	0	0	0	0	0	2		
AM1	Limit	0	0	0	0	0	0	0	0	0	3		
A N A O	Action	0	0	0	0	0	0	0	0	0	0		
AM2	Limit	0	0	0	0	0	0	0	0	0	0		
4.8.40	Action	0	0	0	0	0	0	0	0	0	4		
AM3	Limit	0	0	0	0	0	0	0	0	0	3		

Noise Monitoring

			LAec	q (30mins) E	xceedance C	Count	
Noise Monitoring	Level	Monitoring Parameter	Reportir	ng period	Accumulate project to date		
Station	Exceedance	LAeq (30mins)	Project related	Non- project related	Project related	Non- project related	
NIN 44 -	Action	0	0	0	0	0	
NM1a	Limit	0	0	0	0	0	
NIMO	Action	0	0	0	0	0	
NM2a	Limit	0	0	0	0	0	

Notification of Environmental Quality Limits Exceedance

Surface Water Monitoring

Surface												Ex	ceeda	nce Co	unt						
Water	Level	Moni	toring	Parame	ter (s)			R	eportir	ng perio	od			Accumulate project to date							
Quality Monitoring	Evceedance					Project related			Non-project replated				Project related				Non-project replated				
Station		DO	рН	Turb	SS	DO	рН	Turb	SS	DO	рН	Turb	SS	DO	рН	Turb	SS	DO	рН	Turb	SS
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Action	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
WM1	Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\A/\ 40	Action	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WM2	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	Monitoring	No. of Exceedance
Station	Parameter(s)	Limit Level
	CH₄	0
Portion A +50 mpD to +70 mpD Platform	CO ₂	0
	O_2	0

Appendix G Waste Flow Table

Waste Flow Table

		Total Qua		ert C&D Mate m the Contr	erials to be (Generated	Total Qua	ntities of Re	cyclables G	eneration			D Materials the Contract
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics	Yard Waste (to Y-Park)	Chemical Waste	General Refuse	Others, e.g. non- recyclable yard waste
	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in '000L)	(in tonne)	(in tonne)
Dec-22	84.77	0	0	0	0	0	0	0	0	11.49	0	7.53	65.75
Jan-23	24.51	0	0	0	0	0	0	0	0	0	0	24.51	0
Feb-23	506.45	0	0	0	0	0	0	0	0	3.16	0	5.85	497.44
Mar-23	9,581.15	0	0	9,187	0	0	0	0	0	3.69	0	6.96	383.5
Apr-23	18,532.07	0	0	18,466	0	0	0	0	0	1.97	0	5.81	58.29
May-23	28,889.61	0	0	28,473	0	0	0	0	0	0	0	7.45	409.16
Jun-23	11,574.89	0	0	11,211	0	0	0	0	0	2.38	0	14.69	346.82
Jul-23	50,595.49	0	0	50,307	0	0	0	0	0	0	0	25.54	262.95
Aug-23	63,178.52	0	0	63,076	0	0	0	0	0	0	0	30.77	71.75
Sep-23	42,709.75	0	0	42,676	0	0	0	0	0	0	0	33.38	0
Oct-23	55,551.68	0	0	55,405	0	0	0	0	0	2.56	0	28.05	116.07
Nov-23	76,127.24	0	0	73,352	0	2629.37	0	0	0	0	0	35.13	110.74
Dec-23	63,389.25	0	0	57,681	0	5296.17	0	0	0	2.48	0	34.26	375.34
Total	420,745.38	0.00	0.00	409,834	0.00	7,925.54	0.00	0.00	0.00	27.73	0.00	259.93	2,697.81

Note:

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

Appendix H Environmental Mitigation Implementation Schedule (EMIS)

North East New Territories (NENT) Landfill Extension

			ion 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 Quali						_		
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	Contractor	Entire NENT Landfill Extension site	To control the dust impact to within the criteria of EIA Report (Register No. AEIAR-111/2007)	# (Refer to Appendix J (1) 27 Dec 2023 Weekly Site Inspection Observation 2 (2) 27 Dec 2023 Weekly Site Inspection Observation 3)
		B4, B15 & B18	Dust emission from construction vehicle movement is confined within the worksites area.	criteria.				# (Refer to Appendix J 27 Dec 2023 Weekly Site Inspection Observation 1)
		B11 – B12	Watering facilities will be provided at every designated vehicular exit point.					✓ Vehicle washing facilities provided at vehicular exit point in Portion A, B1-2, D, E3-1 & E4
		-	Good site practice is recommended during construction phase.					✓
Construc	ction Noise			<u> </u>	1			
S4	S4.9	C1	 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; 	Control construction airborne noise by means of good site	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;	practices		Site		√
		C3	(c) Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;					√
		C4	(d) Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;					N/A
		C5	(e) Mobile plant should be sited as far away from NSRs as possible and practicable;					√
		C6	(f) Material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.					√
S4 Construc	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	✓
S5.8.1	S5.2.1	D1	Construction on Site Runoff (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	Contractor	Entire Construction site	ProPECC PN 1/94 Water Pollution Control Ordinance	(a) The perimeter cut-off drains are establishing in progress (Completion: 85%)(b) ✓
		D2	 (a) The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. (b) Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/sediment trap. (c) The sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates. 	washing facilities, etc to minimize water quality during construction stage				(a) N/A(b) ✓(c) ✓
		D3	 The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silts and sediment traps should be 5 minutes under maximum flow conditions. 					✓

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.

North East New Territories (NENT) Landfill Extension

Friving mental Mitigation Implementation Schedule (EMIS) Construction Phase

			tion Schedule (EMIS) Construction Phase				1	
EIA	EM&A	Weekly	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of the	What requirement or	Status
Ref.	Log Ref	Site	(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	measures	standards for the measures to	
		Inspection		Measures & Main	the		achieve?	
		Item		Concerns to address	measures?			
	tion Runoff	<u> </u>		<u> </u>		T	1	
S5.8.1	S5.2.1	D4	(a) Construction works should be programmed to minimize surface excavation works during the rainy seasons	Control construction	Contractor	Entire	ProPECC PN 1/94	(a) √
			(April to September). (b) All exposed earth areas should be completed and vegetated as soon as possible after	runoff and erosion		Construction	DOD T 1 1 101 1	(b) √
			earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where	from site surface,		site	DSD Technical Circular	(c) # (Refer to Appendix J
			practicable. (c) If excavation of soil cannot be avoided during the rainy season, or at any time of year when	drainage channel,			TC01/2017	27 Dec 2023 Weekly Site Inspection
			rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	stockpiles, wheel			Water Pollution Control	Observation 2)
		D5	• (a) The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water	washing facilities, etc to minimize water			Ordinance	(a) √
			flows, and all traffic areas and access roads protected by coarse stone ballast. (b) An additional advantage	quality during			Ordinance	(b) N/A
			accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement	construction stage				
			weather and the reduction of surface sheet flows.	- constitution stage				
		D6	(a) All drainage facilities and erosion and sediment control structures should be regularly inspected and (b)					(a) √
			maintained to ensure proper and efficient operation at all times and particularly following rainstorms. (c)					(b) √
			Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated					(d) √
		D7	areas.					
		ן טי	(a) Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of tangels is used as in used as					(a) √
			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					(b) √
			removal facilities.					
		D8	Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50 m ³					√
			should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the					'
			washing away of construction materials, soil, silt or debris into any drainage system.					
			washing away of constitution materials, soil, sit of acons into any drainage system.					
		D9	(a) Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed					(a) √
			so as (b) to prevent silt, construction materials or debris being washed into the drainage system and storm					(b) √
			runoff being directed into foul sewers.					(6) 4
		D10	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm					✓
			is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2					
			of ProPECC PN 1/94. Particular attention should be paid to the control of silly surface runoff during storm					
			events, especially for areas located near steep slopes.					
		D11	(a) All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris					(a) √
			and the like is deposited by them on roads. (b) An adequately designed and sited wheel washing bay should					(b) √
			be provided at every construction site exit. (c) Wash-water should have sand and silt settled out and removed					(c) √
			at least on a weekly basis (d) to ensure the continued efficiency of the process. (e) The section of access road					(d) √
			leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall					(c) √
		D40	toward the wheel-wash bay to prevent vehicle tracking of soil and silly water to public roads and drains.					
		D12	(a) Oil interceptors should be provided in the site drainage system downstream of any oil/fuel pollution sources. (b) The sit interceptors about the amount of site and second regularly to prevent the release of site and graphs into the provided by					(a) N/A
1			(b) The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into					(b) N/A (c) N/A
			the storm water drainage system after accidental spillage. (c) A bypass should be provided for the oil interceptors to prevent flushing during heavy rain.					(O) IN/A
1		D13	 Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to 					./
1		טוט	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.					✓
1		D14	 All fuel tanks and storage areas should be provided with docks and sited on sealed areas, within bunds of a 					√
			capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching					Y
1			water sensitive receivers nearby.					
1		D15	To prevent pollution risks arising from works area (waste reception area) and haul roads, intercepting bund or					N/A
			barrier along the roadside should be constructed.					
			The state of the s					
Remarks:								

Compliance of mitigation measure

Recommendation was made during site audit but improved/rectified by the contractor

Not Applicable at this stage were conducted in the reporting period. N/A

North East New Territories (NENT) Landfill Extension

ΊA	EM&A	Weekly	tion Schedule (EMIS) Construction Phase Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of the	What requirement or	Status
lef.	Log Ref	Site	(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	measures	standards for the measures to	
	ŭ	Inspection		Measures & Main	the		achieve?	
		Item		Concerns to address	measures?			
onstruct	ion Runoff ((Cont'd)	,		- 1	•		
5.8.1	S5.2.1	D19	Sewage Effluent from Workforce	Control sewage	Contractor	On-site	ProPECC PN 1/94	✓
			• (a) Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage	effluent arising from		sanitary		
			generated by the workforce. (b) A licensed contractor should be employed to provide appropriate and adequate	the sanitary facilities		facilities	DSD Technical Circular	
			portable toilets and be responsible for appropriate disposal and maintenance.	provided for the on-			TC01/2017	
		D20	Notices will be posted at conspicuous locations to remind the workers not to discharge any sewage or	site construction				N/A
			wastewater into the nearby environment during the construction phase of the Project.	workforce			Water Pollution Control	
		-	Regular environmental audit on the construction site can provide an effective control of any malpractices and				Ordinance	✓
			can achieve continual improvement of environmental performance on site.				Waste Disposal Ordinance	
5.8.1	S5.2.1	D21	Accidental Spillage of Chemical	Control of chemical	Contractor	Service	ProPECC PN 1/94	(a) N/A
7.0.1	00.2.1	DZI	(a) Any service workshop and maintenance facilities shall be located within a bunded area, and sumps and oil	leakage	Contractor	workshop and	1101 200 110 1/94	(b) N/A
			interceptors shall be provided. (b) Maintenance of equipment involving activities with potential for leakage and	loukugo		maintenance	Water Pollution Control	
			spillage will only be undertaken within the areas.			facilities	Ordinance	
			Springe will only be undertaken within the areas.			Taomino o		
							Waste Disposal Ordinance	
osion C	ontrol Meas	sures	1	<u>I</u>	1			1
.8.2	S5.2.2	-	Erosion Control /Measures	Erosion control	Contractor	Drainage	ProPECC PN 1/94	✓
			a. Preserve Natural Vegetation			system		
			This Best Management Practices will involve preserving natural vegetation to the greatest extent possible				Water Pollution Control	
			during the construction process. and after construction where appropriate. Maintaining natural vegetation is				Ordinance	
			the most effective and inexpensive form of erosion prevention control.					
		-	b. Provision of Buffer Zone					✓
			A buffer zone consists of an undisturbed area or strip of natural vegetation or an established suitable planting					
			adjacent to a disturbed area that reduces erosion and runoff. The rooted vegetation holds soils acts as a wind	-				
			break and filters runoff that may leave the site.					
		-	c. Seeding (Temporary/Permanent)					✓
			A well-established vegetative cover is one of the most effective methods of reducing erosion. Vegetation should					
			be established on construction sites as the slopes are finished, rather than waiting until all the grading is					
			complete. Besides, Hydroseeding will be applied on the surface of stockpiled soil and on temporary soil covers	ers				
			for inactive tipping areas to prevent soil erosion during rainy season.	-				To be involved at
		-	d. Ground Cover					To be implemented
			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.					
		_	e. Hydraulic Application	-				To be implemented
			Hydraulic application is a mechanical method of applying erosion control materials to bare soil in order to					To be implemented
			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.					
			f. Sod	1				✓
			Establishes permanent turf for immediate erosion protection and stabilizes rainageways.					·
			g. Matting	1				√
			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.	1		1		

Remarks:

Compliance of mitigation measure

Recommendation was made during site audit but improved/rectified by the contractor

N/A Not Applicable at this stage were conducted in the reporting period.

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

			tion Schedule (EMIS) Construction Phase					
EIA	EM&A	Weekly	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of the	What requirement or	Status
Ref.	Log Ref	Site	(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	measures	standards for the measures to	
		Inspection		Measures & Main	the		achieve?	
		Item		Concerns to address	measures?			
Erosion (Control Mea	sures (Cont'o))			•		•
S5.8.2	S5.2.2		h. Plastic Sheeting	Erosion control	Contractor	Drainage	ProPECC PN 1/94	✓
			Plastic Sheeting will provide immediate protection to slopes and stockpiles. However, it has been known to			system		·
			transfer erosion problems because water will sheet flow off the plastic at high velocity. This is usually				Water Pollution Control	
			attributable to poor application, installation and maintenance.				Ordinance	
		_	i. Dust Control	-			oramanos	√
			Dust Control is one preventative measure to minimize the wind transport of soil, prevent traffic hazards and					Y
			reduce sediment transported by wind and deposited in water resources.					
0 (\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0 1	reduce sediment transported by while and deposited in water resources.					
		age System		10 ()	Ta	T	T	
S5.8.2	S5.2.2	D22	• (a) Temporary surface water drainage system will be provided to manage runoff during construction and	Surface Water	Contractor	Surface water	Water Pollution Control	(a) √
			operation. (b) This system will consist of channels as constructed around the perimeter of the site area. (c)	Management/ Control		system	Ordinance	(b) √
			This system will collect surface water from the areas of higher elevations to those of lower elevations and	run off		Construction		(c) √
			ultimately to the point of discharge. (d) Erosion will therefore be minimised.				TM-water	
		Doo		4				(d) √
		D23	(a) The temporary surface water drainage system will include the use of a silt fence around the soil stockpile					(a) # (Refer to Appendix J
		1	areas to prevent sediment from entering the system. (b) Regular cleaning will be carried out to prevent blockage					18 Dec 2023 Weekly Site Inspection
		1	of the passage of water flow in silt fence.					Observation 2)
								(b) √
		-	• Intermediate drainage system will be installed for filled cell/phase. The major purpose of the intermediate					N/A
			drainage system is to prevent the clean surface water run-off from the filled phases coming into contact with					
			the waste mass in active cell and to prevent excessive surface water infiltration through the intermediate cover,					
			thus contribute to increasing volume of leachate. The intermediate drainage system will collect the clean					
			surface water run-off and divert it to the permanent discharge channels connected to the public drainage					
			system.					
			,	-				N/A
		-	• In addition, surface flow from the haul road (especially near the wheel washing facility) will be collected to a					IVA
			dry weather flow interceptor and conveyed to the on-site leachate treatment plant for further treatment.					
Waste M	1anagement							
S6	WM1	-	C&D Materials	Good site practice to	Contractor	Entire	Waste Disposal Ordinance	✓
				minimise C&D waste		construction		
			• Implement proper waste management measures during construction phase as stipulated in the Environmental	generation and		site	ETWB TC(W) No. 19/2005	
			Management Plan (EMP) in accordance with the ETWB TC(W) No. 19/2005 Environmental Management in	reuse/recycle all C&D				
			Construction Sites.	on-site as far as			DEVB TC(W) No. 6/2010	
		_	Implement a trip-ticket system to ensure that the movement of C&D materials are properly documented and	possible				√
			verified in accordance with DEVB TC(W) No. 6/2010. Copies/counterfoils from trip-tickets (with quantities of					Y
			C&D Materials off-site) should be kept for record purposes.					
		-	Appropriate waste management should be implemented in accordance with the ETWB TC(W) No. 19/2005.	1				✓
				_				•
		E4	• (a) Make provisions in Contract documents to allow and promote the use of recycled aggregates where					(a) √
			appropriate. Ensure material balance in terms of excavated C&D materials in the design of NENT landfill					(b) √
			extension project. (b) The contract specifications should specify no excavated materials should be removed					
		1	from the landfill extension site, but should be fully reused.					
		<u> </u>		4				
		E5	Careful design, planning and good site management to minimise over-ordering and waste materials such as					(a) √
		1	concrete, mortars and cement grouts. (a)(b) The design of formwork should maximise the use of standard					(b) √
		1	wooden panels so that high reuse levels can be achieved. (c) Alternatives such as steel formwork or plastic					(c) √
		1	fencing should be considered to increase the potential for reuse.					
		F0	() 71 0 () 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
		E6	• (a) The Contractor should recycle as much as possible the C&D waste on-site through proper waste					(a) √
		1	segregation on-site. (b) Concrete and masonry should be used as general fill and steel reinforcement bars can					(b) √
		1	be used by scrap steel mills. (c) Proper areas should be designated for waste segregation and storage					(c) √
		1	wherever site conditions permit. (d) Maximise the use of reusable steel formwork to reduce the amount of C&D					(d) √
		1	material.					(u) Y

Remarks:

Compliance of mitigation measure

Recommendation was made during site audit but improved/rectified by the contractor

N/A Not Applicable at this stage were conducted in the reporting period.

Alternative measure was made by the contractor. @ (Which measure)

		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		
e Ma	anagement ((Cont'd)								
	WM1	E7	 (a) Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement. On-site sorting and segregation facility of all type of wastes is considered as one of the best practice in waste management and hence, should be implemented in all projects generating construction waste. (b) The sorted public fill and C&D waste should be properly reused. 	Good site practice to minimise C&D waste generation and reuse/recycle all C&D on-site as far as	Contractor	Entire construction site	Waste Disposal Ordinance ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010	(a) √ (b) √		
		E8	(a) Excavated slope, stockpiled material and bund walls should be covered by tarpaulin until used in order to prevent wind-blown dust during dry weather, and to reduce muddy runoff during wet weather. (b)(c) Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers					(a) ✓ (b) ✓ (c) ✓		
	-	E9	If any topsoil-like materials need to be stockpiled for any length of time, consideration should be given to hydroseeding of the topsoil on the stockpile to improve its visual appearance and prevent soil erosion.					N/A		
	-	E10 •	 Nomination of approved personnel to be responsible for good site practices and making arrangements for collection of all wastes generated on-site and effective disposal. 					√		
		E11	 Training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concepts. 	ical waste						√
		E12	Regular cleaning and maintenance programme systems, sumps and oil interceptors.					✓		
		E13	(a) Prior to disposal of C&D waste, wood, steel and other metals should be separated for re-use and/or recycling to minimise the quantity of waste to be disposed of to landfill. (b)(c) Proper storage and site practices should be implemented to minimise the potential for damage or contamination of construction materials.	, , , , , , , , , , , , , , , , , , ,				(a) √ (b) √ (c) N/A		
			Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. Minimise excessive ordering of concrete, mortars and cement grout by doing careful check before ordering.					✓		
	WM2	E16 – E23	 Chemical Waste 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	Contractor	Entire construction site	Waste Disposal (Chemical Waste) General Regulation Code of Practice on the	√		
		-	 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 	on human health and environment			Packaging, Labelling and Storage of Chemical Waste	✓		
		E17 & E18	 Containers used for storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD. Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulation. 	nical cy to urea, and				✓		
	E1	E19	(a) The storage area for chemical wastes should be clearly labelled and used solely for storage of chemical waste, (b) enclosed with at least 3 sides, having an impermeable floor and bund of sufficient capacity to accommodate 110% of volume of the largest container or 20 % of total volume of waste stored in that area, (c)(d) whichever is the greatest, having adequate ventilation, being covered to prevent rainfall entering, and being arranged so that incompatible materials are adequately separated.					(a) ✓ (b) N/A (c) N/A (d) N/A		
	-	E20	Chemical waste should be collected by licensed waste collectors and disposed of at licensed facility, e.g. Chemical Waste Treatment Centre.				✓			

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.

5

EM&, Log F	Ref Site	spection	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
lanagen	nent (Con	nt'd)						
WM3	3 E1		 General Refuse 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	Contractor	Entire construction site	Waste Disposal Ordinance	✓
	E2	2	• (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	visual nuisance				 (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.				Landfill Gas Hazard	✓
	-		• Office waste paper should recycled if the volume warrant collection by recyclers. Participation in community waste paper recycling programme should be considered by the Contractor, including waste paper, aluminium cans, plastic bottles, waste batteries, etc.					✓
	ndfill Exte							
LFG1	1 F1		Special LFG precautions should be taken due to close proximity of NENT landfill extension site to existing landfill	To minimise the risk	Contractor	Entire		N/A
1.500			to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity).	of LFG hazards to		construction	Assessment Guidance Note	
LFG2	2 F2	2	Prominent safety warning signs should be erected on-site to alert all personnel and visitors of LFG hazards during	personnel in construction site		site	n Assessment Guidance Note (EPD/TR8/97) F&IU (Confined Spaces)	✓
LFG3	3 F3	2	excavation works. No smoking or burning should be permitted on-site.	Construction site				√
LFG4			Prominent 'No smoking' and 'No Naked Flames' signs should be erected on-site.				Regulations	Y
LFG5			<u> </u>					Υ
			No worker should be allowed to work alone at any time in excavated trenches or confined areas on-site.				Code of Practice on Safety	V
LFG6			Adequate fire fighting equipment should be provided on-site.				and Health at Work in	Y
LFG7			Construction equipment should be equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors.				Confined Spaces	✓
LFG8			Electrical motors and extension cords should be explosion-proof and intrinsically safe for use on-site.					✓
LFG9	9 F9		'Permit to Work' system should be implemented.					✓
LFG1	10 F1		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.					✓
LFG1	11 F1		(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
LFG1	12 F1:	2	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.					√
LFG1	13 F1:		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.					✓
LFG1	14 F1	4	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.	ı should				√
LFG1	15 F1:	5	(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

Remark

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.

North East New Territories (NENT) Landfill Extension

			tion Schedule (EMIS) Construction Phase	Ohio ations of the	\\/\b - +-	Lagging	M/h of your instance	Chatrica
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 (C								
		dfill Extension		1	T	T =	1	1 .
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.					✓
Landsc	ape and Vi	isual Phases			•	•		
S8	LV1	G4	Advanced screening tree planting 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	√
S8	LV2	G5	Boundary Green Belt planting 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			and Hard Landscape Features DEVB TC(W) No. 6/2011 -	To be implemented during operation phase
S8	LV3	G6	Temporary landscape treatment as green surface cover 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.	mitigation measures			Maintenance of Man-made Slopes and Emergency Repair on Stability of Land	√
S8	LV4	G7	Existing tree preservation 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.

North East New Territories (NENT) Landfill Extension

Fryironmental Mitigation Implementation Schedule (EMIS) Construction Phase

<u>nviron</u> m	vironmental Mitigation Implementation Schedule (EMIS) Construction Phase									
EIA	EM&A	Weekly Site	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of the	What requirement or	Status		
Ref.	Log	Inspection	(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	measures	standards for the measures to			
	Ref	Item		Measures & Main	the		achieve?			
		1.0		Concerns to address	measures?		456761			
Caalaa				Concerns to address	measures:					
colog										
		on Measures:								
S10	E1	-	-	Restriction of construction activities to the work areas that would be clearly demarcated.	To minimise	Contractor	Entire	Practice Note for Professional	✓	
				environmental		construction site	Persons (ProPECC),			
	E2	_	Reinstatement of the work areas immediately after completion of the works.	impacts and			Construction Site Drainage	√		
	LZ		Remark of the work areas immediately after completion of the works.	therefore potential			(PN1/94)	Y		
				ecological impacts			,			
	E3	-	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the	within and near the			Code of Practice on the Packaging, Labelling and	✓		
			construction programme.	construction site						
	E4		Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work		1					
	□ □ 4	-					Storage of Chemical Wastes, EPD (1992) ETWB TC(W)) No. 33/2002 Management of Construction and Demolition Material Including Rock DEVB TC(W) No. 6/2010 Trip Ticket System for Disposal of Construction and Demolition Materials	✓		
			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					\checkmark		
			away from nearby NSRs.							
	E6		Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction					N/A		
	E0	-						IN/A		
			works.							
	E7	-	Mobile plant should be sited as far away from NSRs as possible and practicable.					✓		
								·		
	E8		Matarial at alcillar aits office and other structures about he affectively utilized subsequentiable to accomp					,		
	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.					✓		
	F40		Construction phase mitigation measures in the Practice Note for Professional Persons on Construction Site				ETWB TC(W)No.19/2005			
	E10	-	· · · · · · · · · · · · · · · · · · ·				Environmental Management	✓		
			Drainage.				on Construction Sites			
	E11	1 -	Design and set up of the temporary on-site drainage system will be undertaken by the contractor prior to the					✓		
			commencement of construction.					,		
	E40	-								
	E12	-	Design and incorporation of silt/sediment traps in the permanent drainage channels to enhance deposition rates					✓		
			and regular removal of reposited silt and grit.							
	E13	1 -	Minimization of surface excavation works during the rainy seasons (April to September), and in particular, control					N/A		
			of silty surface runoff during storm events, especially for areas located near steep slopes.							
		-								
	E14		Regular inspection and maintenance of all drainage facilities and erosion and sediment control structures to					✓		
			ensure proper and efficient operation at all times and particularly following rainstorms.							
	E15	1-	Provision of oil interceptors in the drainage system downstream of any oil/fuel pollution sources					N/A		
			The state of the s							

Remarks:

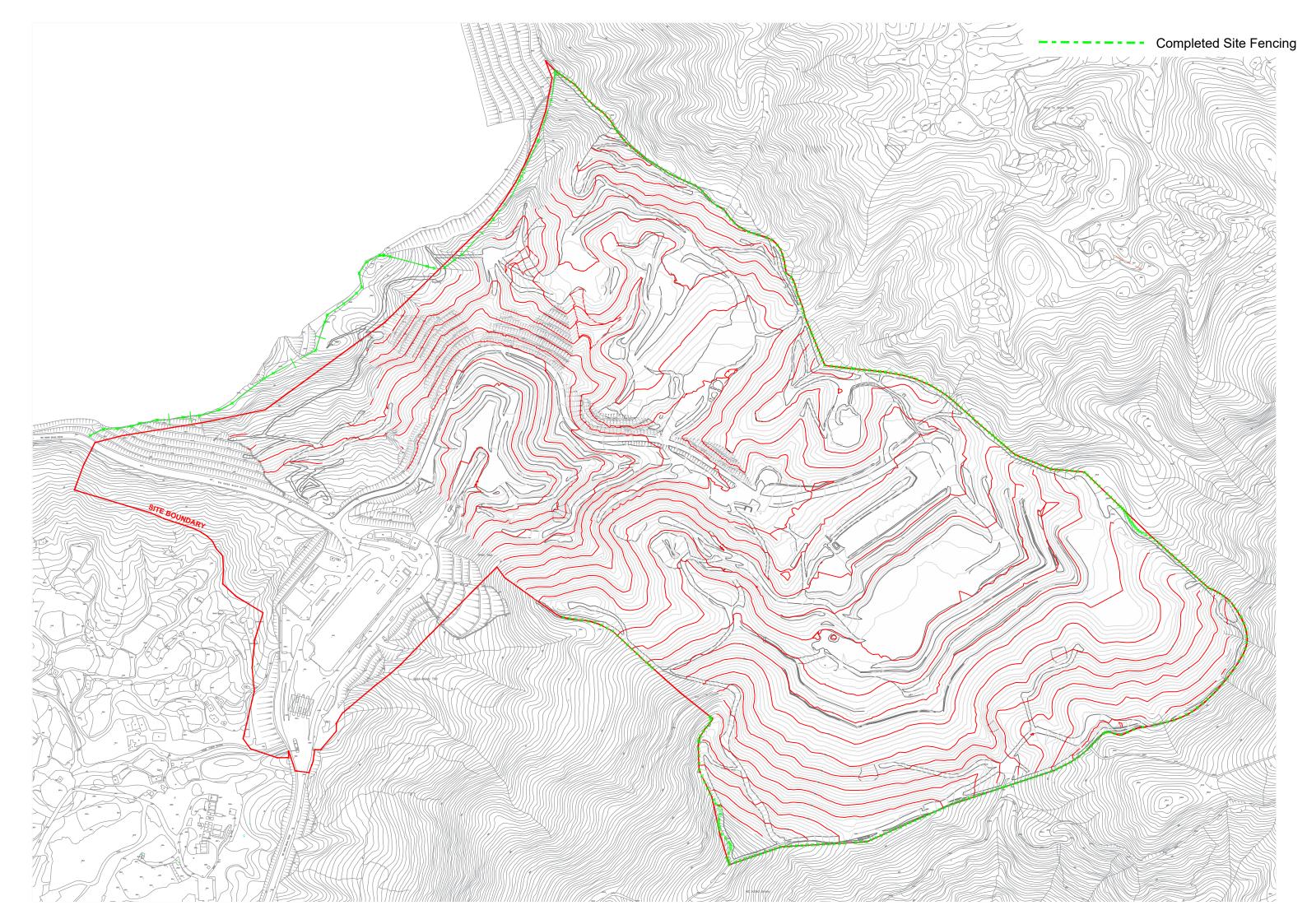
Compliance of mitigation measure

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.

Not Applicable at this stage were conducted in the reporting period. N/A

Appendix I Mitigation Measures of Cultural Landscape Features



Appendix J Cumulative complaint / enquiry log & Summaries of complaints and enquiries

Environmental Complaints Log

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

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

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

Remarks:

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

Environmental Enquiries Log

Enquiry Ref. No.	Date of Enquiry Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
NA	NA	NA	NA	NA	NA	NA	NA

Remarks:

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

Cumulative Statistics on Complaints

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

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