

Landfill Gas Power
Generation Project at
the West New
Territories (WENT)
Landfill – Phase 2

Monthly Environmental Audit Report No.01 (January 2024)

PREPARED FOR



Castle Peak Power Company Limited

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# Landfill Gas Power Generation Project at the West New Territories (WENT) Landfill – Phase 2

Monthly Environmental Audit Report No.01 (January 2024)

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### 1. INTRODUCTION

The Castle Peak Power Company Limited (CAPCO) is a joint venture between CLP Power Hong Kong Limited (CLP) and China Southern Power Grid Company Limited with CLP as the operator. ERM-Hong Kong, Limited (ERM) was appointed by CAPCO as the Independent Environmental Checker (IEC) (Ms Mandy To of ERM) to undertake environmental audit works for the Landfill Gas Power Generation Units (LFGPGUs) ("the Project") Phase 2 at the West New Territories (WENT) Landfill. The Contractor, ATAL Engineering Limited, is responsible for civil works construction.

### 1.1 PURPOSE OF REPORT

This is the 1st Monthly Environmental Audit Report which summarises the environmental audit findings during the reporting period from 10 to 31 January 2024.

### 1.2 STRUCTURE OF THE REPORT

Section 1: Introduction

It details the purpose and structure of the report.

Section 2: Project Information

It summarises the background and scope of the project, site description, construction programme, construction works undertaken and status of the Environmental Permits/Licenses during the reporting period.

Section 3: Environmental Site Inspection & Implementation Status of the Environmental Mitigation Measures

It summarises the audit findings of the bi-weekly site inspections undertaken and implementation of environmental protection measures within the reporting period.

Section 4: Conclusions



### 2. PROJECT INFORMATION

### 2.1 BACKGROUND

The scope of the Project involves the phased construction, operation and maintenance of up to seven LFGPGUs at the WENT Landfill. Each LFGPGUs will have a generation capacity of 2MW and provide electricity output connected into CLP Power Hong Kong Limited's (CLP) existing power grid. It is a Designated Project under the *Environmental Impact Assessment Ordinance* (Cap. 499) (EIAO). The Phase 1 Programme only includes five LFGPGUs, and this Phase 2 Programme includes the remaining 2 LFGPGUs.

A Project Profile of the Project was prepared in accordance with the *Technical Memorandum of the Environmental Impact Assessment Process* (*EIAO-TM*) and submitted under the EIAO for Applications for Permission to Apply Directly for an Environmental Permit in February 2017. Subsequent to the approval of the Project Profile (*PP-546/2017*), approval from the Director of Environmental Protection (DEP) on permission to apply directly for permit (No. DIR-251/2017) and an Environmental Permit (EP) (EP-536/2017) for the Project was granted by the Director of Environmental Protection (DEP) on 6 April 2017 and 27 April 2017 respectively.

### 2.2 GENERAL SITE DESCRIPTION

The proposed location for the Project is located in the north-western part of the existing WENT Landfill adjacent to the coastline. Two underground pipelines will run from the existing LFG-related facilities within the WENT Landfill to the proposed plant area for provision of LFG. Another underground cable will run from the proposed plant area along Nim Wan Road to the existing power grid near the WENT Landfill entrance/exit gate.

The location plan of key Project components is shown in **Appendix A**.

### 2.3 CONSTRUCTION PROGRAMME AND ACTIVITIES

A summary of the major construction activities undertaken in this reporting period is shown in Table 2-1. The construction programme is presented in **Appendix B**.

TABLE 2-1 CONSTRUCTION PROGRAMME AND ACTIVITIES

### **Construction Activities Undertaken**

- Package substation foundation modification
- Delivery of service containers for site set up

### 2.4 STATUS OF ENVIRONMENTAL LICENCES, NOTIFICATION AND PERMITS

A summary of the valid permits, licences, and/or notifications on environmental protection for this Project is presented in Table 2-2.



## TABLE 2-2 SUMMARY OF ENVIRONMENTAL LICENSING, NOTIFICATION AND PERMIT STATUS

Permit/ Licences/ Notification	Reference	Validity Period	Remarks			
Environmental Permit	EP-536/2017	Throughout the Contract	Permit granted on 27 Apr 2017			



## 3. ENVIRONMENTAL SITE INSPECTION & IMPLEMENTATIONS STATUS OF THE ENVIRONMENTAL PROTECTION REQUREMENTS

### 3.1 ENVIRONMENTAL SITE INSPECTION

Joint bi-weekly site inspections were conducted by representatives of the Contractor, CAPCO Project Team and IEC on 17 and 31 January 2024. No non-compliance was recorded during the site inspections.

Findings and recommendations for the site inspection in this reporting month are summarised as follows:

Nil.

No follow-up actions were required to be undertaken by CAPCO and the Contractor during the reporting period.

## 3.2 IMPLEMENTATIONS STATUS OF THE ENVIRONMENTAL PROTECTION REQUREMENTS

The Contractors have implemented relevant environmental mitigation measures and requirements as stated in the Project Profile and EP for the Project. The implementation status of the environmental mitigation measures for this Project during the reporting period is summarised in *Appendix C*.



### 4. CONCLUSION

This 1<sup>st</sup> Monthly Environmental Audit Report presents environmental audit findings during the reporting period from 10 to 31 January 2024 in accordance with the Project Profile (PP-546/2017), an Environmental Permit (EP) (EP-536/2017).

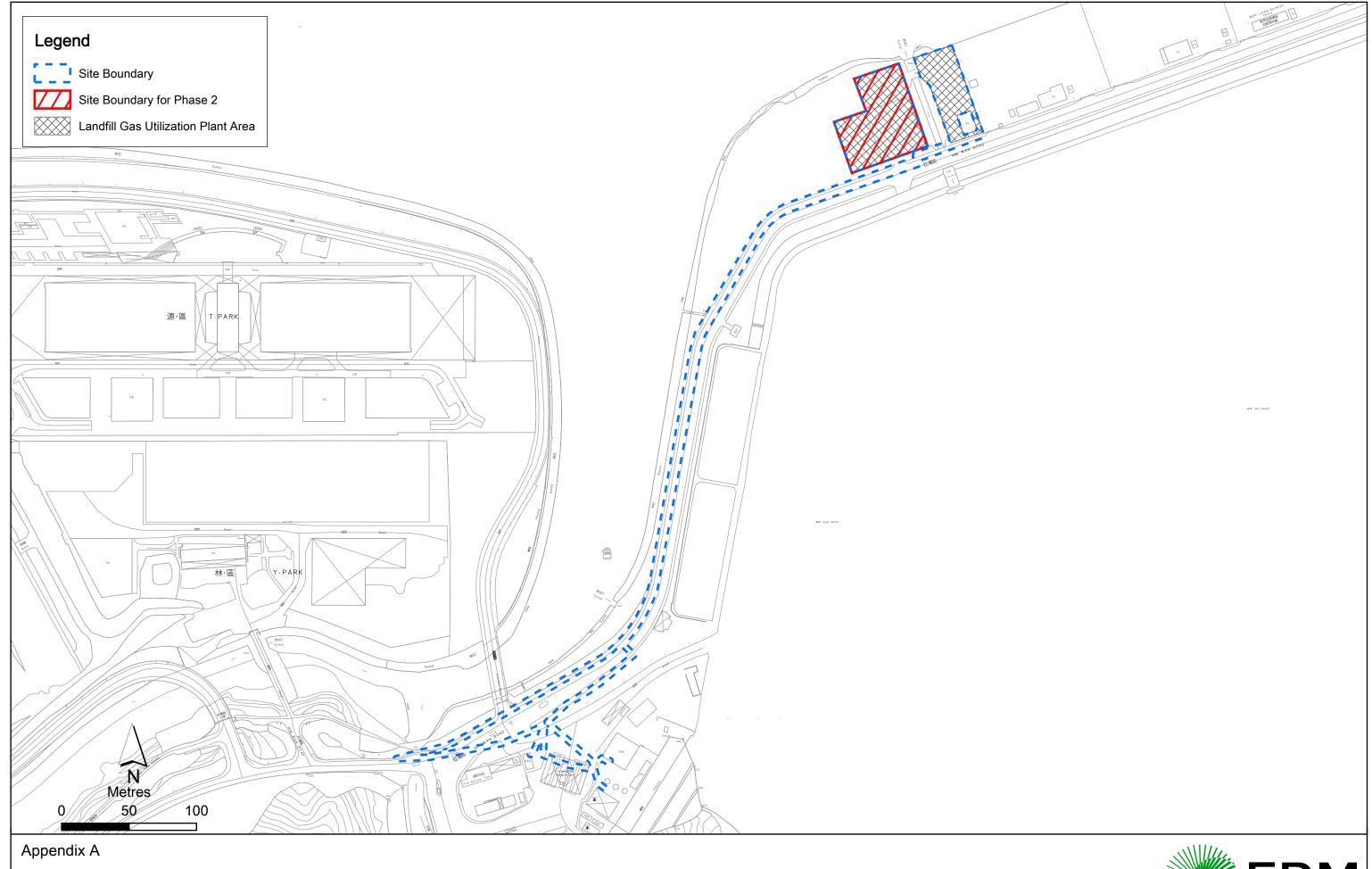
The Contractors have implemented relevant mitigation measures to mitigate the potential environmental impacts during construction. The IEC will continue to keep track of the construction programme to ensure compliance of environmental requirements and the effectiveness and efficiency of the mitigation measures implemented. If necessary, the Contractors will provide more mitigation measures to further alleviate the impacts.



### APPENDIX A

## INDICATIVE LOCATION PLAN OF KEY PROJECT COMPONENTS FOR THE PROJECT





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Indicative Location Plan of Key Project Components



### APPENDIX B

## CONSTRUCTION PROGRAMME FOR THE REPORTING MONTH AND COMING MONTHS



Activity ID	Activity Description		2023 2024																		
		J	F	М	Α	М	J	J	Α	s	0	N I	DΪ	l	FI	1 A	М	J	l l	Α	S
1	Contract Award				<b>•</b>											T					
2	Detail Engineering Design and Approvals														7	T					
3	Major Equipment fabrication and delivery														Ŧ	Ŧ				$\Box$	
4	Civil works ,Equipment Installation, testing & Commissioning																				
5	Operation of Gen sets																				•

Major Milestone

<sup>\*</sup> The project duration is 18 months from date of contract award

### APPENDIX C

### SUMMARY OF IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES



### Annex C - Environmental Mitigation Implementation Status for Landfill Gas Power Generation Project at the West New Territories (WENT) Landfill

#### Note:

- ✓ Compliance of Mitigation Measures
- Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by the Contractor
- Δ Deficiency of Mitigation Measures but rectified by the Contractor
- N/A Not Applicable in Reporting Period

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	When to implement the measures?	Implementation Status
Air Quality			
S5.1.1.1	Good Site Management:	Construction Stage	✓
S5.1.1.1	Good site management is important to help reduce potential air quality impact down to a minimal level. As a general guide, the Contractor should maintain high standards of housekeeping to prevent emissions of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimize the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning. Disturbed Parts of the Roads:	Construction Stage	<b>√</b>
	<ul> <li>Main temporary access points should be paved with concrete, bituminous hardcore materials or metal plates and be kept clear of dusty materials;</li> <li>Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.</li> </ul>	Ü	
S5.1.1.1	Exposed Earth:	Construction Stage	✓
S5.1.1.1	Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies. Loading, Unloading or Transfer of Dusty Materials:	Construction Stage	✓
CF 1.1.1	All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.		,
S5.1.1.1	Debris Handling:	Construction Stage	✓
	<ul> <li>Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides.</li> </ul>		

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	When to implement the measures?	Implementation Status
	<ul> <li>Before debris is dumped into a chute, water should be sprayed onto the debris so that it remains wet when it is dumped</li> </ul>		
S5.1.1.1	Transport of Dusty Materials:	Construction Stage	N/A
	Vehicles used for transporting dusty materials/ spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards.		
S5.1.1.1	Wheel washing:	Construction Stage	N/A
	Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.		
Noise			
5.1.2.1	Good site practice to limit noise emissions at source:	Construction Stage	✓
	<ul> <li>Only well-maintained plant should be operated on-site and the plant should be serviced regularly over the course of construction period</li> </ul>		
	<ul> <li>Machines and plant that may be intermittent in use should be shut down between work periods or should be throttled back to a minimum</li> </ul>		
	<ul> <li>Plant known to emit noise strongly in one direction, should, where possible, be oriented so that the noise is directed away from nearby NSRs</li> </ul>		
	<ul> <li>Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction period</li> </ul>		
	<ul> <li>Mobile plant should be sited as far away from NSRs as possible</li> <li>Material stockpiles and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities</li> </ul>		
	<ul> <li>The Contractor shall at all times comply with all current statutory environmental legislation.</li> </ul>		,
5.1.2.1	Selection of Quieter Plant:	Construction Stage	<b>✓</b>
	The contractor should be requested, as far as possible, to use quiet PME, which has a lower sound power level. This is one		
5.1.2.1	of the most effective measures to reduce noise emission at source and is increasingly practicable. Use of Movable Noise Barrier:	Construction Stage	N/A
	Movable noise barriers can be very effective in screening noise from particular items of plant during construction. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10dB(A) screening for stationary plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.		
5.1.2.1	Use of Noise Enclosure / Acoustic Shed:	Construction Stage	N/A
	The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and generator. With the adoption of noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved.		

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	When to implement the measures?	Implementation Status
Water Quality			
5.1.3.1	For Construction Site Runoff and Drainage:	Construction Stage	N/A
	<ul> <li>Surface runoff should be diverted to sand/silt removal facilities such as sand/silt traps. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to the silt removal facilities.</li> <li>Perimeter channels at site boundaries should be provided to intercept storm runoff from outside the site so that it will not wash across the site</li> </ul>		
	<ul> <li>Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit will be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.</li> <li>Intercepting channels should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces.</li> </ul>		
	<ul> <li>Open stockpiles should be covered with tarpaulin or similar fabric during rainstorms.</li> <li>Measures should be taken to minimize the ingress of rainwater into trenches. Rainwater pumped out from trenches should be discharged into storm drains via silt removal facilities.</li> </ul>		
5.1.3.1	<ul> <li>All discharges from the construction site should comply with the discharge license issued by EPD.</li> <li>For General Good Site Practices:</li> </ul>	Construction Stage	N/A
	<ul> <li>Sewage from the construction workers should be collected by portable chemical toilets and regularly disposed offsite by a licenced contractor.</li> </ul>		
	• Chemicals, fuels/oils and chemical waste storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest container.		
	<ul> <li>Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance.</li> </ul>		
Waste Manageme	nt •	Construction Stage	✓
5.1.4.1	Good Site Practices:	Construction Stage	✓
	<ul> <li>Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.</li> <li>Provision of sufficient waste disposal points and regular collection of waste.</li> <li>Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.</li> <li>Stockpiles of C&amp;D materials should be kept covered by impervious sheets to avoid wind-blown dust.</li> </ul>		
	<ul> <li>All dusty materials including C&amp;D materials should be sprayed with water immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling at the stockpile areas.</li> </ul>		
5.1.4.1	Waste Reduction Measures:	Construction Stage	✓
	<ul> <li>Sort non-inert C&amp;D materials to recover any recyclable portions.</li> <li>Segregation and storage of different types of waste in different containers or skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.</li> </ul>		
	<ul> <li>Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins</li> </ul>		

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	When to implement the measures?	Implementation Status
	<ul> <li>to enable such waste to be segregated from other general refuse generated by the work force.</li> <li>Proper site practices to minimise the potential for damage or contamination of inert C&amp;D materials.</li> <li>Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul>		
5.1.4.1	Inert and Non-inert C&D Materials:	Construction Stage	✓
	<ul> <li>The inert C&amp;D materials should be reused on-site as fill material as far as practicable.</li> <li>The surplus inert C&amp;D materials will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong.</li> <li>The non-inert materials should be reused and recycled on-site as far as possible before disposal at the designated landfill site.</li> </ul>		
5.1.4.1	<ul> <li>Chemical Waste</li> <li>The Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the "Code of Practice on the Packaging Labelling and Storage of Chemical Wastes".</li> <li>Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately.</li> <li>Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidising, irritant, toxic, harmful, corrosive, etc.</li> <li>The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal</li> </ul>	Construction Stage	<b>✓</b>
5.1.4.1	(Chemical Waste) (General) Regulation. General Refuse:	Construction Stage	✓
Landfill Gas Haza	<ul> <li>General refuse should be stored in enclosed bins or compaction units separated from C&amp;D materials.</li> <li>A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from C&amp;D materials.</li> </ul>		
	The Contractor will be required to appoint a Safety Officer, trained in the use of gas detection equipment and landfill gas- related hazards, to be present on-site throughout the groundworks phase. The Safety Officer should be provided with an intrinsically safe portable gas detector, appropriately calibrated and capable of measuring the following gases in the ranges indicated:	Construction Stage	✓
	<ul> <li>Methane (CH<sub>4</sub>) 0-100% Lower Explosion Limit (LEL) and 0-100% by volume</li> <li>Carbon Dioxide (CO<sub>2</sub>) 0-100%; and</li> <li>Oxygen (O<sub>2</sub>) 0-21%</li> <li>The Safety Officer will be responsible for proposing the monitoring frequency and locations prior to commencement of</li> </ul>	Construction Stage	✓
	groundworks.  Routine monitoring should be carried out at all excavations, manholes and chambers and any other confined spaces that may have been created by the temporary storage of building materials on-site.	Construction Stage	N/A

I measurements in excavations should be made with the monitoring tube located not more than 10mm from the exposed ound surface.  onitoring of excavations should be undertaken as follows:  For excavations deeper than 1m, measurements should be conducted:  At ground surface before excavation commences;  Immediately before any worker enters the excavation;	Construction Stage	N/A
At the beginning of each working day for the entire period the excavation remains open; and Periodically throughout the working day whilst workers are in the excavation.  For excavations between 300mm and 1m, measurements should be conducted:  Directly after the excavation has been completed; and Periodically whilst the excavation remains open.  For excavations less than 300mm, monitoring may be omitted at the discretion of the fety Officer or other appropriately qualified person.		
ther appropriately qualified person. As a minimum these should encompass those actions specified in Table 5.1 of the oject Profile of the Project.  The Contractor will also be required to implement appropriate safety measures during construction phase, as commended in Chapter 8 of the Landfill Gas Hazard Assessment Guidance Note.	Construction Stage	<b>✓</b>
itigation measures proposed for air, noise, water, waste and landscape could act as precautionary measures to prevent d minimize any indirect disturbance or pollution arisen from construction activities on local ecology and offsite habitat.	Construction Stage	✓
Extent of works areas will be minimised as far as practicable.  Construction period will be minimised and construction phasing carefully considered to minimise potential landscape and visual impacts.  Sensitive hoarding, canvas and / or screens will be used to visually screen the construction activities and works areas. Sensitive design of above-ground structures in terms of scale, height and bulk will be adopted to minimise visual impacts.  Appropriate colours and tones will be used for all hard elements to avoid unnecessary visual intrusion.  Trees to be retained on-site, if any, will be carefully protected during construction. Detailed Tree Protection	Construction Stage	<b>√</b>
Ffee pheeojojititid	Directly after the excavation has been completed; and Periodically whilst the excavation remains open.  or excavations less than 300mm, monitoring may be omitted at the discretion of the ty Officer or other appropriately qualified person.  ending on the results of the monitoring, actions required will vary and should be set down by the Safety Officer or rappropriately qualified person. As a minimum these should encompass those actions specified in Table 5.1 of the ect Profile of the Project.  Contractor will also be required to implement appropriate safety measures during construction phase, as mmended in Chapter 8 of the Landfill Gas Hazard Assessment Guidance Note.  gation measures proposed for air, noise, water, waste and landscape could act as precautionary measures to prevent minimize any indirect disturbance or pollution arisen from construction activities on local ecology and offsite habitat.  d Site Practice:  Extent of works areas will be minimised as far as practicable.  Construction period will be minimised and construction phasing carefully considered to minimise potential landscape and visual impacts.  Sensitive hoarding, canvas and / or screens will be used to visually screen the construction activities and works areas. Sensitive hoarding, canvas and / or screens will be used to visually screen the construction activities and works areas. Sensitive hoarding, canvas and / or screens will be used to visually screen the construction activities and works areas. Sensitive design of above-ground structures in terms of scale, height and bulk will be adopted to minimise visual impacts.  Appropriate colours and tones will be used for all hard elements to avoid unnecessary visual intrusion.	Directly after the excavation has been completed; and Periodically whilst the excavation remains open.  or excavations less than 300mm, monitoring may be omitted at the discretion of the ty Officer or other appropriately qualified person.  ending on the results of the monitoring, actions required will vary and should be set down by the Safety Officer or appropriately qualified person. As a minimum these should encompass those actions specified in Table 5.1 of the exct Profile of the Project.  Contractor will also be required to implement appropriate safety measures during construction phase, as memended in Chapter 8 of the Landfill Gas Hazard Assessment Guidance Note.  Gation measures proposed for air, noise, water, waste and landscape could act as precautionary measures to prevent minimize any indirect disturbance or pollution arisen from construction activities on local ecology and offsite habitat.  d Site Practice:  Construction Stage  Extent of works areas will be minimised as far as practicable.  Construction period will be minimised and construction phasing carefully considered to minimise potential landscape and visual impacts.  Sensitive hoarding, canvas and / or screens will be used to visually screen the construction activities and works areas. Sensitive design of above-ground structures in terms of scale, height and bulk will be adopted to minimise visual impacts.  Appropriate colours and tones will be used for all hard elements to avoid unnecessary visual intrusion.  Trees to be retained on-site, if any, will be carefully protected during construction. Detailed Tree Protection Specification should be provided in the Contract Specification, under which the Contractor should be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	When to implement the measures?	Implementation Status
	<ul> <li>Trees unavoidably affected will be transplanted where practicable. Where possible, trees should be transplanted directly from existing locations to their final recipient locations without being held in a temporary nursery site. Detailed Tree Transplanting Specification should be provided in the Contract Specification and sufficient time for preparation should be allowed in the construction programme. Should trees be unavoidably affected, a Tree Preservation and Removal Proposal will be submitted to Lands Department for approval in accordance with Lands Department's Lands Administration Office Practice Note No. 7/2007 or any other relevant guidelines.</li> <li>Compensatory tree planting will be provided if trees are affected due to the Project. Native species, such as Celtis sinensis, Ficus microcarpa, Litsea glutinosa, Sterculia lanceolata and any other appropriate native tree species should be considered.</li> </ul>		

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