

CASTLE PEAK POWER COMPANY LIMITED

Enhanced Ash Utilisation and Water Management Facilities at Castle Peak Power Station

Monthly Audit Report for May 2020

June 2020

AECOM ASIA CO. LTD.

Disclaimer:

This report is prepared for **Castle Peak Power Company Limited** (**CAPCO**) and is given for its sole benefit in relation to and pursuant to **Enhanced Ash Utilisation and Water Management Facilities at Castle Peak Power Station** and may not be disclosed to, quoted to or relied upon by any person (other than **CAPCO**) without our prior written consent. No person other than **CAPCO** into whose possession a copy of this report comes may rely on this report without our express written consent and **CAPCO** may not rely on it for any purpose other than as described above.

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1 INTRODUCTION

1.1 Project Background

- 1.1.1 Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection (DEP) granted an environmental permit (No. EP-441/2012) to the Castle Peak Power Company Limited (CAPCO) on 23 July 2012 to construct and operate the designated project for Enhanced Ash Utilisation and Water Management Facilities at Castle Peak Power Station (hereinafter referred to as "the Project"). An application for variation of environmental permit (VEP) was subsequently made and the revised EP (No: EP-441/2012/A) was issued by DEP on 29 June 2018.
- 1.1.2 CAPCO appointed AECOM Asia Company Limited (AECOM) as the Independent Checker (IC) to undertake environmental audit work for the Project. Yee Hop Engineering Company Limited is the Contractor for construction of Ash Silo, while Shanxi Province Gouxin Energy Development Group Company Limited is the Contractor for the enhancement works of Water Management Facilities.

1.2 Purpose of the Report

1.2.1 Under the EP Condition 2.3, the audit for the implementation of all mitigation measures recommended in the Project Profile (Register No. PP-468/2012) commenced in November 2019. This is the seventh Monthly Audit Report which summarises the audit findings for the Project during the reporting period from 1 to 31 May 2020.

1.3 Report Structure

- 1.3.1 This Monthly Audit Report is organised as follows:
 - Section 1: Introduction
 - Section 2: Project Information
 - Section 3: Environmental Site Inspection
 - Section 4: Implementation Status of Environmental Mitigation Measures
 - Section 5: Conclusions

2 **PROJECT INFORMATION**

2.1 Site Description

2.1.1 The Project site is located within the boundary of the existing Castle Peak Power Station (CPPS). The locations of the key project components are shown in **Appendix A**.

2.2 Construction Programme and Activities

2.2.1 The major construction activities of the Project undertaken in the reporting month includes:

Ash Silo Construction Works

- Excavation of founding level; and
- Removal of construction waste.

Water Management facilities Enhancement Works

- Erect hoarding around the works area of water management facilities.
- 2.2.2 The major construction activities for the coming month includes:

Ash Silo Construction Works

• Conduct the foundation works (rebar fixing and formworks).

Water Management Facilities Enhancement Works

- Erect hoarding around the works area of water management facilities.
- 2.2.3 The construction programmes for the above-mentioned construction / enhancement works are presented in **Appendix B.**

2.3 Status of Environmental Licences, Notification and Permits

2.3.1 Relevant environmental licences, permits and/or notifications on environmental protection for this Project and valid in the reporting month are summarised in **Tables 2.1** and **2.2**.

Table 2.1 Status of Environmental Licences, Notifications and Permits for Ash Silo Construction Works

Permit / Licence No. / Notification/ Reference	Valid F	Period	Status	Remarks					
No.	From	То							
Environmental Permit		1							
EP-441/2012/A	29 June 2018		Valid						
Billing Account for Cons	struction Waste D	Disposal							
7033071	25 January 2019		Valid						
Notification Under Air Pollution Control (Construction Dust) Regulation									
444243	15 April 2019		Valid						

Table 2.2 Status of Environmental Licences, Notifications and Permits for Water Management Facilities Enhancement Works

Permit / Licence No. / Notification/ Reference	Valid F	Period	Status	Remarks
No.	From	То		
Environmental Permit		I		
EP-441/2012/A	29 June 2018		Valid	
Billing Account for Cons	struction Waste D	Disposal		
7037396	27 May 2020		Valid	
Notification Under Air Po	ollution Control (Construction Du	st) Regulation	
455899	7 May 2020		Valid	

3 ENVIRONMENTAL SITE INSPECTION

3.1 Environmental Site Inspection

- 3.1.1 Site inspections were carried out by the IC on a bi-weekly basis to monitor the implementation of mitigation measures for the Project.
- 3.1.2 In the reporting month, the site inspections were carried out jointly with the Contractor on 8 and 29 May 2020, respectively. No non-compliance was recorded during the site inspections. Findings and recommendations for the site inspections are summarised below. Details of observations recorded during the site inspections are presented in **Appendix C**.

Ash Silo Construction Works

- 8 May 2020
 - Dry exposed area was observed. The Contractor was advised watering the exposed area regularly.
- 29 May 2020
 - Emission of dark smoke from the excavator was observed. The Contractor was advised to check and maintain the excavator properly to avoid dark smoke emission.

Water Management facilities Enhancement Works

- 8 May 2020
 - No construction activity was observed. No major site observation was recorded.
- 29 May 2020
 - Decoloured Non-road Mobile Machinery (NRMM) label was observed at a crane. The Contractor was advised to replace the decoloured NRMM label.
 - The Contractor was reminded to post the Environmental Permit at the construction site entrance
- 3.1.3 All follow-up actions requested by the IC during the site inspections were taken as reported by the Contractor and confirmed by the IC in the subsequent site inspections. There is no outstanding follow-up action at the time of this report.

4 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

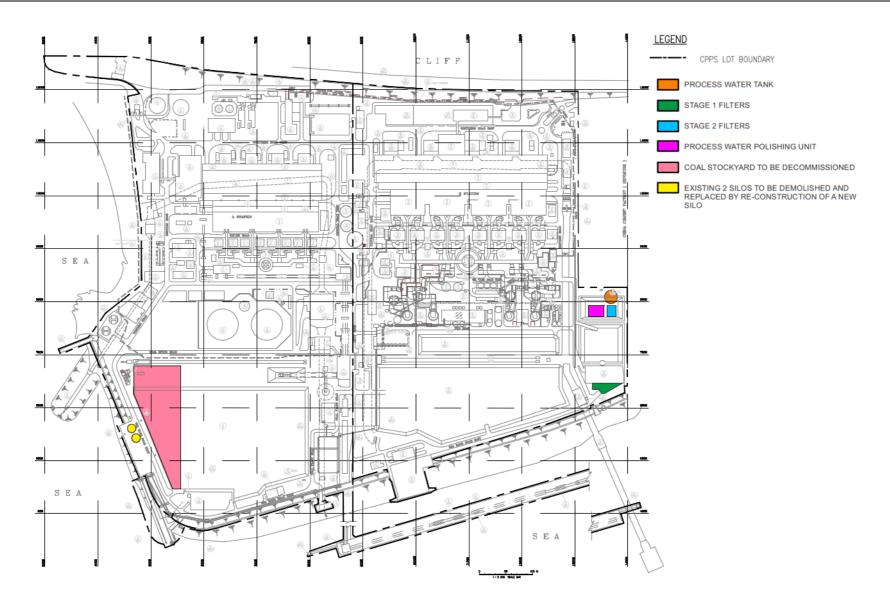
4.1.1 The Contractor has implemented all the relevant environmental mitigation measures as recommended in the Project Profile. The implementation status of the environmental mitigation measures during the reporting period is summarised in **Appendix D**.

5 CONCLUSION

- 5.1.1 Two environmental site inspections were carried out for the Project in the reporting month of May 2020. No non-compliance was recorded during the site inspections. Based on the observations during the site inspections, the Contractor has implemented all the relevant environmental mitigation measures as recommended in the Project Profile (Register No. PP-468/2012).
- 5.1.1 Referring to the information provided by the Contractor, no complaint, notification of summons and successful prosecution was received in the reporting month.

Appendix A

Location Plan of Key Project Components (2017 Scheme)



Source: Environmental Review Report of "Enhanced Ash Utilisation and Water Management Facilities at castle Peak Power Station", January 2018, Castle Peak Power Company Limited

Appendix B

Construction Programme



J9589_Construction of Ash Silo and the Associated E&M Plants & Equipment for Ash Handling (Master Programme Rev. 3 - September 2019)

Appendix B1

Jan M24 Dec M23 Nov M22 Oct M21 Sep M20 6/8 Aug M19 May Jun Jul M16 M17 M18 2020 -Mar Apr 1 M14 M15 Feb M13 N Jan M12 Í 15/12 Dec Oct Nov I M9 M10 N 0110 Sep M8 Aug 2019 Jul M6 Jun M5 May Feb Mar Apr M1 M2 M3 Ì 14/2 **38%** 100% 100%100% 2% 2% 60% 60% 60% 49% 100% 60% 60% 0% 0% 0% %0 %0 %0 %0 %0 %0 %0 100% 100% 100%0%0 0%0 0%0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 0%0 % Comp. Fri 1/1/21 Thu 14/2/19 Thu 6/8/20 Fri 10/5/19 Wed 10/4/19 Fri 10/5/19 Mon 30/9/19 Wed 20/2/19 Wed 27/2/19 Wed 20(3/19 Mon 30/9/19 Wed 10(4/19 Wed 10(4/19 Wed 24/4/19 Mon 4/5/20 Fri 21/2/20 Sat 25/5/19 Tue 19/11/19 Tue 10/12/19 Wed 25/12/19 Fri 24/1/20 Fri 14/2/20 Fri 28/2/20 Sun 4/10/20 Fri 17/4/20 Thu 7/5/20 Thu 14/5/20 Thu 11/6/20 Thu 2/7/20 Thu 6/8/20 Fri 1/1/21 Fri 13/11/20 Fri 27/11/20 Sun 27/12/20 Fri 11/12/20 Sat 12/12/20 Fri 1/1/21 Wed 27/2/19 Wed 20/2/19 Thu 19/12/19 Fri 27/12/19 Fri 3/7/20 Thu 6/8/20 Fri 7/6/19 Wed 6/3/19 Wed 6/3/19 Sat 1/6/19 Thu 6/8/20 Thu 6/8/20 Sun 15/9/19 Mon 4/5/20 Wed 9/10/19 Fri 3/4/20 Sun 20/9/20 Mon 26/10/20 Wed 11/11/20 Sun 15/12/19 Sat 28/11/20 Fri 1/1/21 Finish Thu 14/3/19 Thu 21/3/19 Thu 22/3/19 Thu 22/4/19 Thu 25/4/19 Thu 25/4/19 Sun 25/4/19 Mon 29/19 Wed 20/1/19 Wed 20/1/19 Wed 32/1/19 Wed 32/19 Wed 32/1/19 Wed 32/1/19 Wed 32/1/19 Wed 32/119 Wed 32/19 Wed 32/19 Wed 32/19 Wed 32/19 Wed 32/19 Wed Fri 13/12/19 Fri 20/12/19 Sat 28/12/19 Tue 27/10/20 Sat 14/11/20 Sat 28/11/20 Sat 28/11/20 Sat 28/11/20 Sun 13/12/20 Thu 14/2/19 Thu 14/2/19 Tue 12/3/19 Tue 12/3/19 Tue 12/3/19 Thu 11/4/19 Sat 11/5/19 Fri 10/7/20 Thu 14/2/19 Thu 28/2/19 Thu 28/2/19 Sat 25/1/20 Sat 15/2/20 Sat 29/2/20 Sun 15/12/19 Sun 5/1/20 Mon 2/3/20 Sat 4/4/20 Fri 8/5/20 Fri 15/5/20 Fri 12/6/20 Fri 3/7/20 Thu 6/8/20 Sun 5/1/20 Sun 5/1/20 Fri 3/7/20 Fri 7/8/20 Mon 21/9/20 Mon 28/9/20 Sun 30/8/20 Start Demolition of existing conveyor belts and associated supporting frames down to existing ground level Submission and BD Acknowledgement of BA14A for Demolition Works Submission and BD Acknowledgement of BA14 for Foundation Works On-site preparation works for subsequent installation of Silo & Hopper Construction of Silo Top Frame including Removable Grating Design Submission of Demolition Amendment (if any) Milestone 2 (501 days from Contract Commencement) Milestone 1 (305 days from Contract Commencement) Submission and BD Acknowledgement of BA13 Erection of Steel Supporting Frame & Staircases Removal of Metal Scaffolding & Site Clearance BD Approval & Consent for Demolition Works Condition Survey of Interior of Ash Silo A1 & A2 Foundation & Superstructure Works Submission Erection of Maintenance Platform at Silo Top Excavate to Formation Level of Raft Footing Site Possession Design Submission and Statutory Requirements Erection of Chain Link Fence/ Water Barriers Fabrication & Delivery of Silo & Hopper Removal of ash accumulated in Ash Silo Carry out Plate Load Test Cast Blinding Layer Erection of Formwork and Rebar Fixing Removal of ash accumulated in Ash Silo Removal of Dust Filters of both Ash Silos Demolition of Steel Supporting Frame Demolition of Steel Supporting Frame BD Consent for Superstructure Works Disconnection of Exiting E&M Services Demolition of Existing Ash Silo A1 & A2 Allow Others for Installation of E&M Installation of Aluminium Cladding Install 2nrs of Height Warning Post BD Consent for Foundation Works Installation of monitoring Instrument Pre-Construction Condition Survey Demolition of Existing Footings Demolition of Existing Footings Erection of Metal Scaffolding Erection of Metal Scaffolding Erection of Metal Scaffolding Construction of New Ash Silo A1 nstallation of Silo & Hopper Demolition of Silo & Hopper Demolition of Silo & Hopper Demolition Works Submission Concreting for Raft Footing Demolition of Appendages Demolition of Appendages Demolition of Ash Silo A2 Demolition of Ash Silo A1 Superstructure Works Plant Mobilization Foundation Works General Site Works **UU Survey** Setting Out Contract Period Site Setup Task Name 16 17 18 19 20 20 21 22 23 23 24 52 53 55 56 57 58 58 10 12 13 14 15 25 26 27 28 29 30 32 34 36 38 39 40 41 42 44 44 45 46 46 46 48 48 49 48 49 50 51 51 59 09 31 33 35

Appendix B2 Tentative Schedule for the Water Management Facilities Enhancement Works

Milestone	Works Description	Dates	Duration
1	Commencement of Contract	12 March 2020	N/A
2a	Construction of Plant House of Process Water Recycling Facility	By 458 days from commencement of Contract (13 June 2021)	458 days (15 months approx.)
2b	T&C Works of Process Water Recycling Facility	By 641 days from commencement of Contract (13 December 2021)	641 days (21 months approx.)
3a	Construction of Process Water Tank	By 458 days from commencement of Contract (13 June 2021)	458 days (15 months approx.)
3b	T&C Works of Process Water Tank	By 641 days from commencement of Contract (13 December 2021)	641 days (21 months approx.)
4a	Construction of FS Water Tank and T&C Works of FS Water Tank	By 337 days from commencement of Contract (12 February 2021)	337 days (11 months approx.)
4b	Construction of Modified Fire Service System for CPA	By 641 days from commencement of Contract (13 December 2021)	641 days (21 months approx.)
5a	Construction of Storm/ Process Water Management Facilities	By 337 days from commencement of Contract (12 February 2021)	337 days (11 months approx.)
5b	T&C Works of Storm/ Process Water Management Facilities	By 397 days from commencement of Contract (13 April 2021)	397 days (13 months approx.)
6	Handing over of the West Coal Store to the Contractor for construction	By 307 days from commencement of Contract (13 January 2021)	307 days (10 months approx.)
7	Works related to Partial De- commissioning of West Coal Store	By 641 days from commencement of Contract (13 December 2021)	641 days (21 months approx.)
8	Drainage Modification Works including the necessary T&C Works	By 458 days from commencement of Contract (13 June 2021)	458 days (15 months approx.)
9	Completion of All Related Works	By 458 days from commencement of Contract (13 June 2021)	458 days (15 months approx.)
10	Completion of all Contract works	By 641 days from commencement of Contract (13 December 2021)	641 days (21 months approx.)

Appendix C

Environmental Audit Records

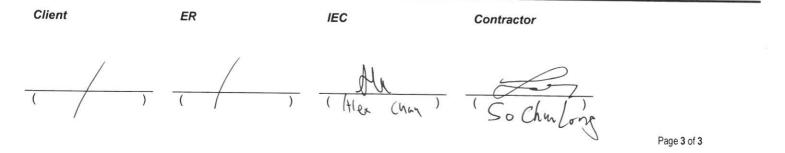


Contr Inspe Date: Time: PART Weath	ract no:	Rain	Inspected by Client: ER: IEC: Contractor:		Alex	 Chan Chun Long		
Wind:		Caln	ı					
PART	B: SITE AUDIT		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
1.01	Is wetting of materials and surfaces avoided excess use of water?			7				<u> </u>
1.02	Are channels, earth bunds or sand bag barriers provided on-site to properly direct stormwater to desilting facilities?							
1.03	Are existing on-site silt removal facilities, channels and manholes, if any, maintained and the deposited silt and grit removed regularly, at the onse of and after each rainstorm and to ensure that these facilities are functioning properly at all times?							
1.04	Are other manholes, if any, including any newly constructed ones adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system?							
1.05	Are open stockpiles of materials on site avoided or where unavoidable covered with tarpaulin or similar fabric during rainstorm? Are measures taken to prevent the washing away of construction materials, soil, silt or debris?							
1.06	Is sewage arising from the construction workers on-site collected by temporary sanitary facilities where necessary, e.g. portable chemical toilets? Are portable toilets used coupled with tankering away services provided by a reputable collector?		口					
1.07	Are all site drainages comply with the terms and conditions of a valid discharge licence issued by EPD?		d					
1.08	Are vehicle washing facilities drained into desilting facilities before discharge? Is water recycled on-site wherever possible? Is the wash wat from wheel wash basins either reused for site watering or pumped to the on-site desilting facilities for treatment?							
1.09	Are desilting facilities checked and the deposited silt and grit removed regularly to ensure that they are working properly at all times?		\square					
1.10	Are all fuel tanks and chemical storage sited on sealed and bunded area and provided with locks?	S		₫				
1.11	Are storage areas surrounded by bunds with a capacity equal to 110% o the storage capacity of the largest tank to prevent accidental spillage, if necessary?	f		╓				
1.12	Are oil and grease removal facilities provided where appropriate, e.g. in area near plant workshop/maintenance area, if any?		\square					
1.13	Is chemical waste arising from the site properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation?	е						

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
Sectio	n 2: Air Quality						
2.01	Are all areas involving site clearance and excavation works sprayed with water before, during and after the operations to maintain the entire surface wet?						
2.02	Are materials dropped from restricting heights as far as practicable to minimize the fugitive dust arising from loading/unloading?		₫				
2.03	Is hoarding of not less than 2.4m high from ground level along the major work site boundary erected, for the new process water tank and the new PFA storage silo, where appropriate?		₫				
2.04	Are all vehicles washed to remove any dusty materials from the bodies and wheels immediately before leaving a work site?		₫				
2.05	Is the load of the vehicle leaving a work site is carrying a load of dusty materials covered entirely by clean impervious sheeting to ensure that the dusty materials will not be released from the vehicle?		☑				
2.06	Is stockpile of dusty materials on-site covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides?		\square				
2.07	Is stockpile of dusty materials on-site sprayed with water immediately prior to any loading, unloading or transfer operation to dampen the dusty materials?						
2.08	Is the travelling speed of vehicles within the work sites controlled to within 10 km/h to reduce the traffic induced dusty dispersion and re-suspension?		\square				
2.09	Is unpaved haul road sprayed with water to maintain the entire road surface wet?						Observation 1
2.10	Is coal dust suppressed by water sprays using the spray guns and water browser as existing normal operations at the coal stockyard during the clearance of the coal pile?						
Sectio	on 3: Noise						
3.01	Is unused equipment turned off?		\square				
3.02	Is PME kept to a minimum and the parallel use of noisy equipment / machinery avoided?		Ú				
3.03	Are all plant and equipment maintained regularly?		Ć				
3.04	Are material stockpiles and other on-site structures effectively used as noise barriers, where practicable?		\checkmark				
3.05	Are purpose-built movable noise barrier, silencer and quiet plant used as necessary?		\square				
Sectio	on 4: Waste/Chemical Management						
4.01	Is reuse / recycling of all materials on-site investigated and exhausted prior to treatment / disposal off-site?						
4.02	Are all waste materials sorted on-site into inert and non-inert C&D materials, and where the materials recycled or reused, are they further segregated?		┢				·
4.03	Is trip-ticket system implemented in accordance with the contract and the requirements of WBTC 31/2004 "Trip Ticket System for Disposal of Construction and Demolition Material"?		₫				
4.04	Is the Contractor registered as a Chemical Waste Producer if chemical wastes are generated on-site?	\square					
4.05	Are licensed chemical waste collectors employed to collect any chemical waste generated at site?	\square					
4.06	Are handling, storage, transportation and disposal of chemical wastes conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD?						
4.07	Are sufficient number of covered bins provided on-site for the containment of general refuse to prevent visual impacts and nuisances? Are these bins emptied daily and the collected waste disposed of to WENT Landfill?		Ø				
4.08	Is the site maintained clean and hygienic throughout the project works?		\square				Page 2 of 3



		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks			
4.09	Are toolbox talks provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling?	\square								
Sectio	on 5: Others									
5.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits or at a convenient location for public's information at all times??		ď							
5.02	Others:									
Rema	Remarks: Obser Vation									
Ι.	E	Va	l	obse	rve d					
	drog. The Contractor	Wα	Ŀ	C	a d l	lisec	l			
ĸ	watering the exposed		che	9	re g	ulav	(y.			



Contr Inspe Date: Time PART Weat	rract no:	Clin		Alex	 x Chan Chun Long		
PART	TB: SITE AUDIT	Not	Vac	Ne	Follow	NI/A	Photo/
Secti	on 1: Water Quality	Obs.	Yes	No	up	N/A	Remarks
1.01	Is wetting of materials and surfaces avoided excess use of water?						
1.02	Are channels, earth bunds or sand bag barriers provided on-site to properly direct stormwater to desilting facilities?		\square				
1.03	Are existing on-site silt removal facilities, channels and manholes, if any, maintained and the deposited silt and grit removed regularly, at the onset of and after each rainstorm and to ensure that these facilities are functioning properly at all times?	Ź					
1.04	Are other manholes, if any, including any newly constructed ones adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system?		\square				
1.05	Are open stockpiles of materials on site avoided or where unavoidable covered with tarpaulin or similar fabric during rainstorm? Are measures taken to prevent the washing away of construction materials, soil, silt or debris?		Ø				
1.06	Is sewage arising from the construction workers on-site collected by temporary sanitary facilities where necessary, e.g. portable chemical toilets? Are portable toilets used coupled with tankering away services provided by a reputable collector?	Ń					
1.07	Are all site drainages comply with the terms and conditions of a valid discharge licence issued by EPD?	\square					
1.08	Are vehicle washing facilities drained into desilting facilities before discharge? Is water recycled on-site wherever possible? Is the wash wate from wheel wash basins either reused for site watering or pumped to the on-site desilting facilities for treatment?	er 🗾					
1.09	Are desilting facilities checked and the deposited silt and grit removed regularly to ensure that they are working properly at all times?	\square					
1.10	Are all fuel tanks and chemical storage sited on sealed and bunded areas and provided with locks?						
1.11	Are storage areas surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent accidental spillage, if necessary?						
1.12	Are oil and grease removal facilities provided where appropriate, e.g. in area near plant workshop/maintenance area, if any?	\square					
1.13	Is chemical waste arising from the site properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation?						

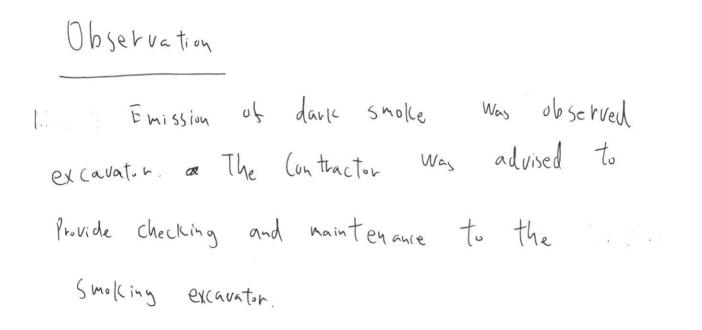
		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
Sectio	n 2: Air Quality						
2.01	Are all areas involving site clearance and excavation works sprayed with water before, during and after the operations to maintain the entire surface wet?		\square				
2.02	Are materials dropped from restricting heights as far as practicable to minimize the fugitive dust arising from loading/unloading?		\square				
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2.04	Are all vehicles washed to remove any dusty materials from the bodies and wheels immediately before leaving a work site?		\square				
2.05	Is the load of the vehicle leaving a work site is carrying a load of dusty materials covered entirely by clean impervious sheeting to ensure that the dusty materials will not be released from the vehicle?		₫				
2.06	Is stockpile of dusty materials on-site covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides?						
2.07	Is stockpile of dusty materials on-site sprayed with water immediately prior to any loading, unloading or transfer operation to dampen the dusty materials?		┢				
2.08	Is the travelling speed of vehicles within the work sites controlled to within 10 km/h to reduce the traffic induced dusty dispersion and re-suspension?						
2.09	Is unpaved haul road sprayed with water to maintain the entire road surface wet?		\square				
2.10	Is coal dust suppressed by water sprays using the spray guns and water browser as existing normal operations at the coal stockyard during the clearance of the coal pile?		₫				
Sectio	on 3: Noise		/				
3.01	Is unused equipment turned off?		白				
3.02	Is PME kept to a minimum and the parallel use of noisy equipment / machinery avoided?		1				
3.03	Are all plant and equipment maintained regularly?		\square				
3.04	Are material stockpiles and other on-site structures effectively used as noise barriers, where practicable?		Ď				
3.05	Are purpose-built movable noise barrier, silencer and quiet plant used as necessary?						
Sectio	on 4: Waste/Chemical Management		/				
4.01	Is reuse / recycling of all materials on-site investigated and exhausted prior to treatment / disposal off-site?		白				
4.02	Are all waste materials sorted on-site into inert and non-inert C&D materials, and where the materials recycled or reused, are they further segregated?		₫				
4.03	Is trip-ticket system implemented in accordance with the contract and the requirements of WBTC 31/2004 "Trip Ticket System for Disposal of Construction and Demolition Material"?		⊿				
4.04	Is the Contractor registered as a Chemical Waste Producer if chemical wastes are generated on-site?						
4.05	Are licensed chemical waste collectors employed to collect any chemical waste generated at site?	\square					
4.06	Are handling, storage, transportation and disposal of chemical wastes conducted in accordance with the <i>Code of Practice on the Packaging,</i> <i>Labelling and Storage of Chemical Wastes</i> and A <i>Guide to the Chemical</i> <i>Waste Control Scheme</i> both published by EPD?		₫				
4.07	Are sufficient number of covered bins provided on-site for the containment of general refuse to prevent visual impacts and nuisances? Are these bins emptied daily and the collected waste disposed of to WENT Landfill?		\square				
4.08	Is the site maintained clean and hygienic throughout the project works?		\square				Page 2 of 3

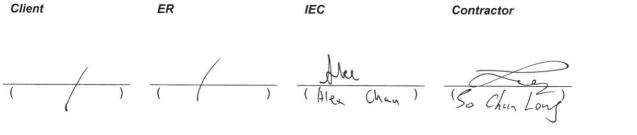


Environmental Audit Checklist

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks				
4.09	Are toolbox talks provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling?	₫									
Sectio	Section 5: Others										
5.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits or at a convenient location for public's information at all times??										
5.02	Others: avoided ?						Observation 1				

Remarks:





Environmental Audit Checklist

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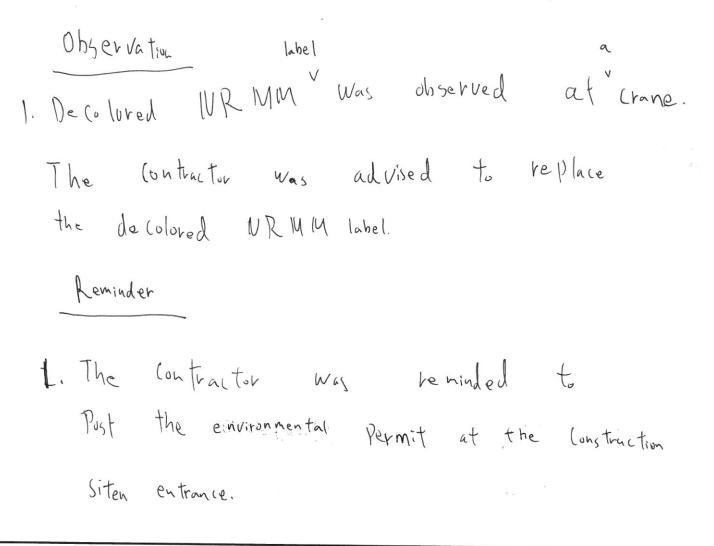
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		Not	Yes	No	Follow	N/A	Photo/
Sectio	on 1: Water Quality	Obs.			ир		Remarks
1.01	Is wetting of materials and surfaces avoided excess use of water?						
1.02	Are channels, earth bunds or sand bag barriers provided on-site to properly direct stormwater to desilting facilities?		\square				
1.03	Are existing on-site silt removal facilities, channels and manholes, if any, maintained and the deposited silt and grit removed regularly, at the onset of and after each rainstorm and to ensure that these facilities are functioning properly at all times?						
1.04	Are other manholes, if any, including any newly constructed ones adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system?						
1.05	Are open stockpiles of materials on site avoided or where unavoidable covered with tarpaulin or similar fabric during rainstorm? Are measures taken to prevent the washing away of construction materials, soil, silt or debris?	б					
1.06	Is sewage arising from the construction workers on-site collected by temporary sanitary facilities where necessary, e.g. portable chemical toilets? Are portable toilets used coupled with tankering away services provided by a reputable collector?	Ø					
1.07	Are all site drainages comply with the terms and conditions of a valid discharge licence issued by EPD?	\checkmark					
1.08	Are vehicle washing facilities drained into desilting facilities before discharge? Is water recycled on-site wherever possible? Is the wash water from wheel wash basins either reused for site watering or pumped to the on-site desilting facilities for treatment?						
1.09	Are desilting facilities checked and the deposited silt and grit removed regularly to ensure that they are working properly at all times?	\square					
1.10	Are all fuel tanks and chemical storage sited on sealed and bunded areas and provided with locks?						
1.11	Are storage areas surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent accidental spillage, if necessary?		ď				
1.12	Are oil and grease removal facilities provided where appropriate, e.g. in area near plant workshop/maintenance area, if any?						
1.13	Is chemical waste arising from the site properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation?	d					

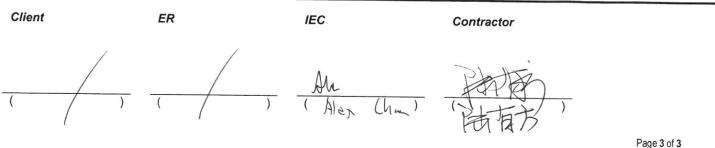
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		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks	
Sectio	Section 2: Air Quality							
2.01	Are all areas involving site clearance and excavation works sprayed with water before, during and after the operations to maintain the entire surface wet?							
2.02	Are materials dropped from restricting heights as far as practicable to minimize the fugitive dust arising from loading/unloading?		\square					
2.03	Is hoarding of not less than 2.4m high from ground level along the major work site boundary erected, for the new process water tank and the new PFA storage silo, where appropriate?							
2.04	Are all vehicles washed to remove any dusty materials from the bodies and wheels immediately before leaving a work site?		\square					
2.05	Is the load of the vehicle leaving a work site is carrying a load of dusty materials covered entirely by clean impervious sheeting to ensure that the dusty materials will not be released from the vehicle?							
2.06	Is stockpile of dusty materials on-site covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides?							
2.07	Is stockpile of dusty materials on-site sprayed with water immediately prior to any loading, unloading or transfer operation to dampen the dusty materials?		Ø					
2.08	Is the travelling speed of vehicles within the work sites controlled to within 10 km/h to reduce the traffic induced dusty dispersion and re-suspension?							
2.09	Is unpaved haul road sprayed with water to maintain the entire road surface wet?	,	\square					
2.10	Is coal dust suppressed by water sprays using the spray guns and water browser as existing normal operations at the coal stockyard during the clearance of the coal pile?		\square					
Sectio	n 3: Noise		/					
3.01	Is unused equipment turned off?		1					
3.02	Is PME kept to a minimum and the parallel use of noisy equipment / machinery avoided?		Ø					
3.03	Are all plant and equipment maintained regularly?							
3.04	Are material stockpiles and other on-site structures effectively used as noise barriers, where practicable?		⊿					
3.05	Are purpose-built movable noise barrier, silencer and quiet plant used as necessary?		$\not \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$					
Sectio	on 4: Waste/Chemical Management							
4.01	Is reuse / recycling of all materials on-site investigated and exhausted prior to treatment / disposal off-site?						<u>12-11 - 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7</u>	
4.02	Are all waste materials sorted on-site into inert and non-inert C&D materials, and where the materials recycled or reused, are they further segregated?							
4.03	Is trip-ticket system implemented in accordance with the contract and the requirements of WBTC 31/2004 "Trip Ticket System for Disposal of Construction and Demolition Material"?							
4.04	Is the Contractor registered as a Chemical Waste Producer if chemical wastes are generated on-site?	₫						
4.05	Are licensed chemical waste collectors employed to collect any chemical waste generated at site?	\square						
4.06	Are handling, storage, transportation and disposal of chemical wastes conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD?							
4.07	Are sufficient number of covered bins provided on-site for the containment of general refuse to prevent visual impacts and nuisances? Are these bins emptied daily and the collected waste disposed of to WENT Landfill?		ф					
4.08	Is the site maintained clean and hygienic throughout the project works?		Z				Page 2 of 3	

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
4.09	Are toolbox talks provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling?						
Sectio	on 5: Others						
5.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits or at a convenient location for public's information at all times??						Reminder 1
5.02	Others: 1s Won-road Mobile Machinery Properly Others: Labelled?				ď		Observation 1







Appendix D

Summary of Implementation Status of Environmental Mitigation Measure

Environmental Aspect	Recommended Mitigation Measures	Implementation Status
Air Quality	Measures for Construction Activities involving Excavations, Loading and Unloading of Soils	
(Section 4.1 of Project Profile)	 All areas involving site clearance and excavations works will be sprayed with water before, during and after the operations to maintain the entire surface wet; 	Y
	 Restricting heights from which materials are to be dropped, as far as practicable to minimize the fugitive dust arising from unloading/ loading; 	Y
	 Erection of hoarding of not less than 2.4 m high from ground level along the major work site boundary (the new process water tank and the new PFA storage silo), where appropriate; 	N/A
	 Immediately before leaving a work site, all vehicles shall be washed to remove any dusty materials from the bodies and wheels. However, wetting of materials and surfaces should avoid excessive use of water; 	Y
	 Where a vehicle leaving a work site is carrying a load of dusty materials, the load shall be covered entirely by clean impervious sheeting to ensure that the dusty materials will not be released from the vehicle; 	Y
	 Any stockpile of dusty materials on-site will be covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides. They should also be sprayed with water immediately prior to any loading, unloading or transfer operation to dampen the dusty materials; 	Y
	 To reduce the traffic induced dust dispersion and re-suspension, the travelling speed of vehicles within the work sites should be controlled to within 10 km/h; 	Y
	• Any unpaved haul road shall be sprayed with water so as to maintain the entire road surface wet.	•
	Measures for Partial Decommissioning of the West Coal Stockyard	
	 During the clearance of the coal pile, coal dust will be suppressed by water sprays using the spray guns and water browser as existing normal operations at the coal stockyard. 	N/A
Noise	Good Site Practice	
(Section 4.2 of Project Profile)	 Unused equipment should be turned off. PME will be kept to a minimum and the parallel use of noisy equipment/ machinery will be avoided; 	Y
	Regular maintenance of all plant and equipment;	Y
	• Material stockpiles and other on-site structures will be effectively used as noise barriers, where practicable;	N/A
	Use of purpose-built movable noise barrier, silencer and quiet plant as necessary.	N/A

Appendix D1 Implementation Status of Recommended Mitigation Measures during Construction Stage – Ash Silo Construction Works

Environmental Aspect	Recommended Mitigation Measures	Implementation Status
Water Quality	Measures for Construction Site Runoff and Discharge	
(Section 4.3 of Project Profile)	 Surface runoff from the affected works areas are to be directed towards desilting facilities before discharging into the stormwater drainage; 	N/A
	 Channels, earth bunds or sand bag barriers will be provided on-site to properly direct stormwater to the above- mentioned facilities; 	Y
	• Existing on-site silt removal facilities, channels and manholes, if any, will be maintained and the deposited silt and grit will be removed regularly, at the onset of and after each rainstorm and to ensure that these facilities are functioning properly at all times;	N/A
	• Other manholes, if any, including any newly constructed ones will be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system;	Y
	• Open stockpiles of materials on site will be avoided or where unavoidable covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of construction materials, soil, silt or debris;	N/A
	• Sewage arising from the construction workers on-site will be collected by temporary sanitary facilities where necessary e.g. portable chemical toilets. Portable toilets will be used coupled with tankering away services provided by a reputable collector;	N/A
	• All site discharges will comply with the terms and conditions of a valid discharge license issued by EPD;	N/A
	• Vehicle washing facilities will be drained into desilting facilities before discharge. Water will be recycled on-site wherever possible. It is suggested that the wash water from wheel wash basins are either reused for site watering or pumped to the on-site desilting facilities for treatment;	N/A
	• Desilting facilities will be checked and the deposited silt and grit will be removed regularly to ensure that they are working properly at all times.	N/A
	Protection against Accidental Spillage	
	 The works may occasionally involve the handling of fuel and generates a small amount of chemical wastes. It must be ensured that all fuel tanks and chemical storage are sited on sealed and bunded areas and provided with locks; 	N/A
	 If necessary, the storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent accidentally spillage; 	N/A
	 Oil and grease removal facilities will be provided where appropriate, for example, in area near plant workshop/ maintenance areas, if any; 	Y
	• Chemical waste arising from the site will be properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation.	N/A

Environmental Aspect	Recommended Mitigation Measures	Implementation Status
Waste	Waste Management Plan (WMP)	
<i>Management Implications (Section 4.4 of the Project Profile)</i>	The main contractor of the Project shall prepare a <i>Waste Management Plan (WMP</i>), which will become part of the <i>Environmental Management Plan (EMP</i>), with reference to the requirements set out in the <i>ETWB TCW No. 19/2005, Waste Management on Construction Sites</i> and the Practice Note for Authorized Persons and Registered Structural Engineers, <i>e.g. Practice Note No. 243 – Construction and Demolition Waste.</i> The WMP shall include monthly Waste Flow Tables (WFT) which indicate the amounts of waste generated, recycled and disposed of (including final disposal site), and it should be updated regularly.	Y
	General waste management measures during Construction	
	• The reuse/recycling of all materials on-site shall be investigated and exhausted prior to treatment/ disposal off-site;	Y
	• All waste materials shall be sorted on-site into inert and non-inert C&D materials, and where the materials can be recycled or reused, they shall be further segregated. Inert material, or public fill shall be disposed of at Fill Bank at Tuen Mun Area 38 whilst non-inert materials or construction waste shall be disposed of at the WENT Landfill.	Y
	• The contractor shall be responsible for identifying what materials can be recycled/ reused, whether on-site or off-site. In the event of the latter, the contractor shall arrange for the collection of the recyclable materials.	Y
	• In order to monitor the disposal of public fill and construction waste at public filling facilities and landfills, and control fly- tipping, a trip-ticket system shall be implemented by the Contractor, in accordance with the contract and the requirements of WBTC 31/2004 " <i>Trip Ticket System for Disposal of Construction and Demolition Material</i> ";	Y
	• Under the Waste Disposal (Chemical Waste) (General) Regulation, the Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated on-site. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD;	N/A
	• A sufficient number of covered bins shall be provided on-site for the containment of general refuse to prevent visual impacts and nuisances. These bins shall be emptied daily and the collected waste disposed of to the WENT Landfill. Further to the issue of ETWB TCW No. 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness, the contractor will be required to maintain a clean and hygienic site throughout the project works;	Y
	• Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.	N/A
Land Contamination (Section 4.5 of Project Profile)	Based on the recent SI result, signs of land contamination were not identified and no mitigation measures are considered necessary. However, the situation will be reconfirmed after the SI work at the coal stockyard proposed in the CAP is completed. The SI results will be documented in a Contamination Assessment Report (CAR). If contamination is identified, the necessary remediation method will be proposed and documented in the Remediation Action Plan (RAP) for EPD's approval. If remediation is necessary, the CAPCO will clean up the contaminated land according to the approved RAP, and a Remediation Report (RR) will be prepared to demonstrate that the concerned area(s) have been cleaned up to the	N/A

Environmental Aspect	Recommended Mitigation Measures	Implementation Status
	relevant RBRG's standards. The RR will be submitted to EPD for agreement prior to the commencement of any development or redevelopment works.	
Landscape & Visual (Section 4.7 of Project Profile)	No mitigation measures for landscape and visual impacts are considered necessary, as no adverse landscape and visual impacts are identified during the construction and operation of the Project.	N/A

Notes:

Y Compliance of Mitigation Measures N Non-compliance of Mitigation Measures D Deficiency of Mitigation Measures N/A Not Applicable in Reporting Period

Non-compliance of Mitigation Measures but rectified by the Contractor ٠

 \diamond Deficiency of Mitigation Measures but rectified by the Contractor

Environmental Aspect	Recommended Mitigation Measures	Implementation Status
Air Quality	Measures for Construction Activities involving Excavations, Loading and Unloading of Soils	
(Section 4.1 of Project Profile)	 All areas involving site clearance and excavations works will be sprayed with water before, during and after the operations to maintain the entire surface wet; 	Y
	 Restricting heights from which materials are to be dropped, as far as practicable to minimize the fugitive dust arising from unloading/ loading; 	Y
	• Erection of hoarding of not less than 2.4 m high from ground level along the major work site boundary (the new process water tank and the new PFA storage silo), where appropriate;	N/A
	 Immediately before leaving a work site, all vehicles shall be washed to remove any dusty materials from the bodies and wheels. However, wetting of materials and surfaces should avoid excessive use of water; 	Y
	 Where a vehicle leaving a work site is carrying a load of dusty materials, the load shall be covered entirely by clean impervious sheeting to ensure that the dusty materials will not be released from the vehicle; 	Y
	 Any stockpile of dusty materials on-site will be covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides. They should also be sprayed with water immediately prior to any loading, unloading or transfer operation to dampen the dusty materials; 	Y
	 To reduce the traffic induced dust dispersion and re-suspension, the travelling speed of vehicles within the work sites should be controlled to within 10 km/h; 	Y
	 Any unpaved haul road shall be sprayed with water so as to maintain the entire road surface wet. 	Y
	Measures for Partial Decommissioning of the West Coal Stockyard	
	 During the clearance of the coal pile, coal dust will be suppressed by water sprays using the spray guns and water browser as existing normal operations at the coal stockyard. 	N/A
Noise	Good Site Practice	
(Section 4.2 of Project Profile)	 Unused equipment should be turned off. PME will be kept to a minimum and the parallel use of noisy equipment/ machinery will be avoided; 	Y
	Regular maintenance of all plant and equipment;	Y
	• Material stockpiles and other on-site structures will be effectively used as noise barriers, where practicable;	N/A
	Use of purpose-built movable noise barrier, silencer and quiet plant as necessary.	N/A

Appendix D2 Implementation Status of Recommended Mitigation Measures during Construction Stage - Water Management Facilities Enhancement Works Facilities Enhancement Works

Environmental Aspect	Recommended Mitigation Measures	Implementation Status
Water Quality	Measures for Construction Site Runoff and Discharge	
(Section 4.3 of Project Profile)	 Surface runoff from the affected works areas are to be directed towards desilting facilities before discharging into the stormwater drainage; 	N/A
	 Channels, earth bunds or sand bag barriers will be provided on-site to properly direct stormwater to the above- mentioned facilities; 	Y
	• Existing on-site silt removal facilities, channels and manholes, if any, will be maintained and the deposited silt and grit will be removed regularly, at the onset of and after each rainstorm and to ensure that these facilities are functioning properly at all times;	N/A
	• Other manholes, if any, including any newly constructed ones will be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system;	Y
	• Open stockpiles of materials on site will be avoided or where unavoidable covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of construction materials, soil, silt or debris;	N/A
	• Sewage arising from the construction workers on-site will be collected by temporary sanitary facilities where necessary e.g. portable chemical toilets. Portable toilets will be used coupled with tankering away services provided by a reputable collector;	N/A
	• All site discharges will comply with the terms and conditions of a valid discharge license issued by EPD;	N/A
	 Vehicle washing facilities will be drained into desilting facilities before discharge. Water will be recycled on-site wherever possible. It is suggested that the wash water from wheel wash basins are either reused for site watering or pumped to the on-site desilting facilities for treatment; 	N/A
	• Desilting facilities will be checked and the deposited silt and grit will be removed regularly to ensure that they are working properly at all times.	N/A
	Protection against Accidental Spillage	
	 The works may occasionally involve the handling of fuel and generates a small amount of chemical wastes. It must be ensured that all fuel tanks and chemical storage are sited on sealed and bunded areas and provided with locks; 	N/A
	• If necessary, the storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent accidentally spillage;	N/A
	 Oil and grease removal facilities will be provided where appropriate, for example, in area near plant workshop/ maintenance areas, if any; 	Y
	• Chemical waste arising from the site will be properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation.	N/A

Environmental Aspect	Recommended Mitigation Measures	Implementation Status
Waste	Waste Management Plan (WMP)	
<i>Management Implications (Section 4.4 of the Project Profile)</i>	The main contractor of the Project shall prepare a <i>Waste Management Plan (WMP</i>), which will become part of the <i>Environmental Management Plan (EMP</i>), with reference to the requirements set out in the <i>ETWB TCW No. 19/2005, Waste Management on Construction Sites</i> and the Practice Note for Authorized Persons and Registered Structural Engineers, <i>e.g. Practice Note No. 243 – Construction and Demolition Waste.</i> The WMP shall include monthly Waste Flow Tables (WFT) which indicate the amounts of waste generated, recycled and disposed of (including final disposal site), and it should be updated regularly.	Y
	General waste management measures during Construction	
	• The reuse/recycling of all materials on-site shall be investigated and exhausted prior to treatment/ disposal off-site;	Y
	• All waste materials shall be sorted on-site into inert and non-inert C&D materials, and where the materials can be recycled or reused, they shall be further segregated. Inert material, or public fill shall be disposed of at Fill Bank at Tuen Mun Area 38 whilst non-inert materials or construction waste shall be disposed of at the WENT Landfill.	Y
	• The contractor shall be responsible for identifying what materials can be recycled/ reused, whether on-site or off-site. In the event of the latter, the contractor shall arrange for the collection of the recyclable materials.	Y
	• In order to monitor the disposal of public fill and construction waste at public filling facilities and landfills, and control fly- tipping, a trip-ticket system shall be implemented by the Contractor, in accordance with the contract and the requirements of WBTC 31/2004 " <i>Trip Ticket System for Disposal of Construction and Demolition Material</i> ";	Y
	• Under the Waste Disposal (Chemical Waste) (General) Regulation, the Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated on-site. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD;	N/A
	• A sufficient number of covered bins shall be provided on-site for the containment of general refuse to prevent visual impacts and nuisances. These bins shall be emptied daily and the collected waste disposed of to the WENT Landfill. Further to the issue of ETWB TCW No. 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness, the contractor will be required to maintain a clean and hygienic site throughout the project works;	Y
	• Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.	N/A
Land Contamination (Section 4.5 of Project Profile)	Based on the recent SI result, signs of land contamination were not identified and no mitigation measures are considered necessary. However, the situation will be reconfirmed after the SI work at the coal stockyard proposed in the CAP is completed. The SI results will be documented in a Contamination Assessment Report (CAR). If contamination is identified, the necessary remediation method will be proposed and documented in the Remediation Action Plan (RAP) for EPD's approval. If remediation is necessary, the CAPCO will clean up the contaminated land according to the approved RAP, and a Remediation Report (RR) will be prepared to demonstrate that the concerned area(s) have been cleaned up to the	N/A

Environmental Aspect	Recommended Mitigation Measures	Implementation Status
	relevant RBRG's standards. The RR will be submitted to EPD for agreement prior to the commencement of any development or redevelopment works.	
Landscape & Visual (Section 4.7 of Project Profile)	No mitigation measures for landscape and visual impacts are considered necessary, as no adverse landscape and visual impacts are identified during the construction and operation of the Project.	N/A

Notes:

Y Compliance of Mitigation Measures N Non-compliance of Mitigation Measures D Deficiency of Mitigation Measures N/A Not Applicable in Reporting Period

Non-compliance of Mitigation Measures but rectified by the Contractor ٠

 \diamond Deficiency of Mitigation Measures but rectified by the Contractor