

香港電燈有限公司  
The Hongkong Electric Co., Ltd.



# **Re-provision of Open Cycle Gas Turbines at Lamma Power Station**

## **Decommissioning/ Demolition & Construction Phases**

### **Monthly Environmental Monitoring & Audit Report**

**June 2024**



香港電燈有限公司  
The Hongkong Electric Co., Ltd.



**ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499**

**ENVIRONMENTAL PERMIT NO. EP-600/2022**

**RE-PROVISION OF OPEN CYCLE GAS TURBINES  
AT LAMMA POWER STATION**

|              |  |
|--------------|--|
| Title        | <u>Monthly EM&amp;A Report (June 2024)</u>   |
| Date         | <u>15 July 2024</u>  |
| Certified by | <br><u>(Mr. Kenneth Fung,<br/>Environmental Team Leader)</u>                                      |
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## EXECUTIVE SUMMARY

In April 2022, an Environmental Permit (EP-600/2022) was granted to the Hongkong Electric Co., Ltd. (HK Electric) for the decommissioning/ demolition, construction and operation of the Project entitled “Re-provision of Open Cycle Gas Turbines at Lamma Power Station”. This report, prepared by the Environmental Team, presents the Environmental Monitoring and Audit (EM&A) findings for the Project in June 2024 and is the 24<sup>th</sup> Monthly EM&A Report for the decommissioning/ demolition and construction phases of the Project.

### Key Construction Activities Undertaken

The construction activities undertaken in the reporting month are as follows:

- Trenching works
- Scraped material removal works;
- Lifting and cut;
- Operation of crawler crane;
- Operation of cherry picker;
- Take down the equipment and steel frame;
- Discharge oil

### Environmental Monitoring

According to the EM&A Manual, no environmental monitoring was necessary in view of the anticipated insignificant environmental impact.

### Site Environmental Audit and Implementation of Mitigation Measure

EPD officials from Regional Office (South) visited Lamma Power Station on 6/6/2024. There was no adverse comment from EPD regarding the construction site.

Independent Environmental Checker (IEC) conducted a site inspection on 25/6/2024. The site conditions were generally satisfactory.

Weekly site audits were carried out to monitor environmental issues on the construction site. The site conditions were generally satisfactory. All recommended environmental mitigation measures were properly implemented. No environmental non-compliance was recorded in the reporting month.

### Environmental Licensing and Permitting

| License/Permit                          | Ref. No.             | Valid Period |    | Authority/Holder       | Date Issued |
|---|----------------------|--------------|----|------------------------|-------------|
|   |                      | From         | To |                        |             |
| Environmental Permit                    | EP-600/2022          | 01/04/2022   | -  | EPD / HK Electric      | 01/04/2022  |
| Waste Disposal Billing Account          | Account No.: 7044319 | 27/06/2022   | -  | EPD / Civil Contractor | 27/06/2022  |
| Registration of Chemical Waste Producer | 5213-912-P2781-22    | 22/02/2016   | -  | EPD / Civil Contractor | 22/02/2016  |
| EPD Notification (Dust) Construction,   | 481782               | 07/07/2022   | -  | EPD / Civil Contractor | 07/07/2022  |

| License/Permit                                       | Ref. No.             | Valid Period |            | Authority/Holder       | Date Issued |
|--|----------------------|--------------|------------|------------------------|-------------|
|  |                      | From         | To         |                        |             |
| Air Pollution Control (Construction Dust) Regulation |                      |              |            |                        |             |
| Construction Noise Permit                            | GW-RS0112-24         | 22/02/2024   | 21/08/2024 | EPD / Civil Contractor | 14/02/2024  |
| Waste Disposal Billing Account                       | Account No.: 7045179 | 28/09/2022   | -          | EPD / E&M Contractor   | 28/09/2022  |
| Registration of Chemical Waste Producer              | 5517-912-K2931-02    | 05/12/2022   | -          | EPD / E&M Contractor   | 05/12/2022  |
| Construction Noise Permit                            | GW-RS0408-24         | 22/05/2024   | 21/11/2024 | EPD / E&M Contractor   | 03/05/2024  |
| WPCO Discharge Licence                               | WT10001647-2023      | 29/11/2023   | 30/11/2028 | EPD / Civil Contractor | 29/11/2023  |

### Environmental Complaints / Summons/ Prosecutions

No complaint in relation to the environmental impact of the construction activities was received in the reporting month. There was also no notification of summon and successful prosecution for breaches of relevant environmental legislations received in the reporting month.

### Future Key Issues

The construction activities scheduled for the coming month are mainly, trenching works, anchor bolt replacement, piping works, scraped material removal works, lifting and cut, operation of crawler crane, operation of cherry picker and oil discharge.

The future key issues to be considered in the coming month are as follows:

- Relevant environmental legislations should be observed.
- Relevant environmental licenses/permits should be obtained, if required.
- Required environmental mitigation measures should be properly implemented.
- Good site practices should be adopted to minimize environmental impacts.
- Dust suppression measures should be implemented for the construction activities.
- Works conducted during restricted hours should comply with the valid CNP.
- Wastewater from site facilities should be properly collected and stored within the site area.
- Wastewater should be properly treated in sedimentation pit and tanks before discharge in compliance with the WPCO discharge licence already obtained.
- Generation of waste should be minimized.
- Waste generated should be properly stored and disposed of.

### Reporting Changes

There was no reporting change in the reporting month.

### Concluding Remarks

The environmental performance of the Project was generally satisfactory.

## 1. INTRODUCTION

### 1.1 Background

In April 2022, an Environmental Permit (EP-600/2022) was granted to HK Electric for the decommissioning/ demolition, construction and operation of the Project entitled “Re-provision of Open Cycle Gas Turbines at Lamma Power Station”. An Environmental Team was then formed to implement the Environmental Monitoring and Audit (EM&A) programme in accordance with the EM&A Manual for the Project.

The key components of the Project are outlined as follows:

- Decommissioning and demolition of four oil-fired open cycle gas turbine units (GT2, GT3, GT4 and GT6) and one gas-fired combined cycle gas turbine unit (GT57), and auxiliary equipment including the black start gas turbine (BSGT), the miscellaneous storage shed, and the lube oil storage tank near GT5;
- Construction of four new oil-fired open cycle gas turbine units (GT8, GT9, GT 10 and GT11), and installation of the new BSGT and Battery Energy Storage System (BESS);
- Construction of new cable trenches, staircase and lift, and reconstruction of the GT57 Auxiliary Building (GTAB) to a new 132kV Switching Station; and
- Operation of four new oil-fired open cycle gas turbine units (GT8, GT9, GT10 and GT11).

The EM&A programme was commenced on 1 July 2022. This is the 24<sup>th</sup> monthly EM&A report which summarizes the environmental monitoring and audit work for the Project for the month of June 2024.

### 1.2 Project Organization

The management structure to oversee the Project includes the following:

- Project Proponent (HK Electric);
- Environmental Protection Department (EPD);
- Independent Environmental Checker (IEC);
- Environmental Team (ET); and
- Contractor.

The project organisation chart for the EM&A programme is shown in [Appendix A](#).

### 1.3 Key Construction Works Undertaken during the Reporting Month

The Project area is shown in [Figure 1.1](#), and the tentative decommissioning and construction phasing schedule is shown in [Figure 1.2](#).

The locations of air, noise and water sensitive receivers are shown in [Figure 1.3](#), [Figure 1.4](#) and [Figure 1.5](#) respectively.

The main construction activities carried out during the reporting month and the corresponding environmental mitigation measures are summarized in [Table 1.1](#). The implementation status of the major mitigation measures in the reporting month can be found in [Appendix C](#).

Table 1.1 Construction Activities and Corresponding Environmental Mitigation Measures

| Item                  | Activities                     | Environmental Mitigation Measures   |
|-----------------------|--------------------------------|---|
| Civil Works - General |                                |   |
| 1.                    | Trenching works                | <p><i>Air</i></p> <ul style="list-style-type: none"> <li>- All regulated machine attached with valid exception/ approval NRMM labels.</li> <li>- Water spraying for concrete breaking works.</li> <li>- Concrete debris will be covered while pending to removal.</li> <li>- Material in dump truck will be covered during transfer.</li> </ul> <p><i>Wastewater</i></p> <ul style="list-style-type: none"> <li>- Reuse treated wastewater, no wastewater discharged at this moment.</li> <li>- Geotextile and sand bag barriers were set up as preventive measures at gully.</li> </ul> <p><i>Noise</i></p> <ul style="list-style-type: none"> <li>- Noise emission label was provided for air compressor.</li> <li>- Works conducted during restricted hours should comply with the valid CNP.</li> </ul> <p><i>Waste Management</i></p> <ul style="list-style-type: none"> <li>- Scrape metal will be recycled.</li> <li>- Concrete debris was removed to temporary storage location pending for disposal.</li> <li>- Chemical waste should be collected by licensed collector.</li> </ul> |
| E&M Works - General   |                                |   |
| 2.                    | Scraped material removal works | <p><i>Air</i></p> <ul style="list-style-type: none"> <li>- All regulated machine attached with exception/ approval NRMM labels.</li> </ul> <p><i>Noise</i></p> <ul style="list-style-type: none"> <li>- No works will be conducted during restricted hours at this moment.</li> </ul> <p><i>Wastewater</i></p> <ul style="list-style-type: none"> <li>- No wastewater is required to be discharged for this works.</li> </ul> <p><i>Waste Management</i></p> <ul style="list-style-type: none"> <li>- Scrap metal will be recycled.</li> </ul>  |
| 3.                    | Lifting and cut                | <p><i>Air</i></p> <ul style="list-style-type: none"> <li>- Fence off the working area to avoid dust emission.</li> </ul> <p><i>Noise</i></p> <ul style="list-style-type: none"> <li>- No works will be conducted during restricted hours at this moment.</li> </ul> <p><i>Wastewater</i></p> <ul style="list-style-type: none"> <li>- No wastewater is required to be discharge for this works.</li> </ul> <p><i>Waste Management</i></p>   |

| Item | Activities                              | Environmental Mitigation Measures  |
|------|---|--|
|      |   | <ul style="list-style-type: none"> <li>- Scrap metal will be recycled.</li> </ul>  |
| 4.   | Operation of crawler crane              | <p><i>Air</i></p> <ul style="list-style-type: none"> <li>- All regulated machine attached with exception/ approval NRMM labels.</li> </ul> <p><i>Noise</i></p> <ul style="list-style-type: none"> <li>- No works will be conducted during restricted hours at this moment.</li> </ul> <p><i>Wastewater</i></p> <ul style="list-style-type: none"> <li>- No wastewater is required to be discharged for this works.</li> </ul> <p><i>Waste Management</i></p> <ul style="list-style-type: none"> <li>- No waste will be generated.</li> </ul> |
| 5.   | Operation of cherry picker              | <p><i>Air</i></p> <ul style="list-style-type: none"> <li>- All regulated machine attached with exception/approval NRMM labels.</li> </ul> <p><i>Wastewater</i></p> <ul style="list-style-type: none"> <li>- No wastewater is required to be discharged for this works.</li> </ul> <p><i>Noise</i></p> <ul style="list-style-type: none"> <li>- No works will be conducted during restricted hours at this moment.</li> </ul> <p><i>Waste Management</i></p> <ul style="list-style-type: none"> <li>- No waste will be generated.</li> </ul>  |
| 6.   | Take down the equipment and steel frame | <p><i>Air</i></p> <ul style="list-style-type: none"> <li>- Fence off the working area to avoid dust emission.</li> </ul> <p><i>Noise</i></p> <ul style="list-style-type: none"> <li>- No works will be conducted during restricted hours at this moment.</li> </ul> <p><i>Wastewater</i></p> <ul style="list-style-type: none"> <li>- No wastewater is required to be discharge for this works.</li> </ul> <p><i>Waste Management</i></p> <ul style="list-style-type: none"> <li>- Scrap metal will be recycled.</li> </ul>                  |
| 7.   | Discharge oil                           | <p><i>Air</i></p> <ul style="list-style-type: none"> <li>- Fence off the working area to avoid dust emission.</li> </ul> <p><i>Noise</i></p> <ul style="list-style-type: none"> <li>- No works will be conducted during restricted hours at this moment.</li> </ul>  |



| Item | Activities | Environmental Mitigation Measures  |
|------|------------|--|
|      |            | <i>Wastewater</i> <ul style="list-style-type: none"><li>- setup the nylon sheet on ground.</li></ul> <i>Waste Management</i> <ul style="list-style-type: none"><li>- Oil would be handled by specific chemical waste disposal company.</li></ul> |

## 1.4 Summary of EM&A Requirements

### *Impact Monitoring*

According to the EM&A Manual, no routine impact monitoring for air quality, noise and water quality is necessary in view of the anticipated insignificant environmental impact.

### *Environmental Audit*

Regular environmental audits on air quality, noise, water quality, waste management, and land contamination are required. Details of the audits are summarized in [Section 2](#) of this report.

Report on complaints, notification of summons and successful prosecutions are given in [Section 3](#) of this report.

Future key issues are given in [Section 4](#) of this report.

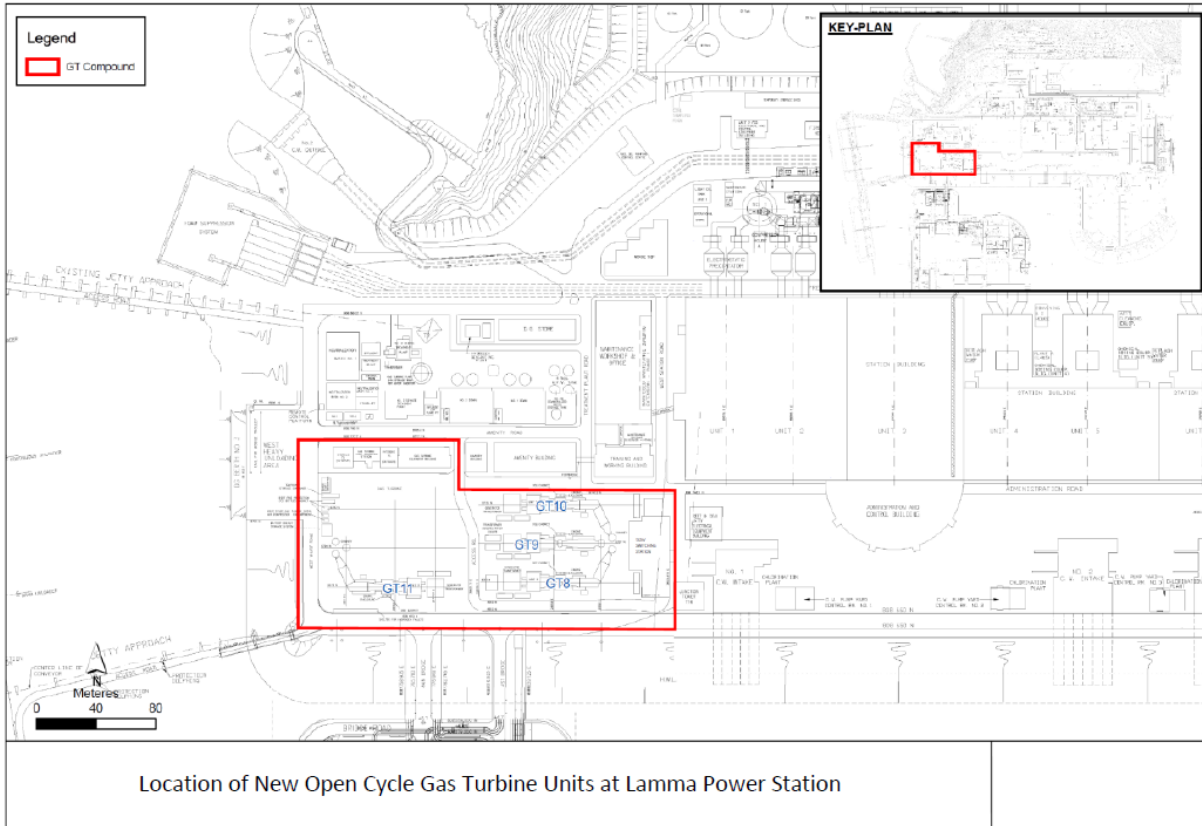
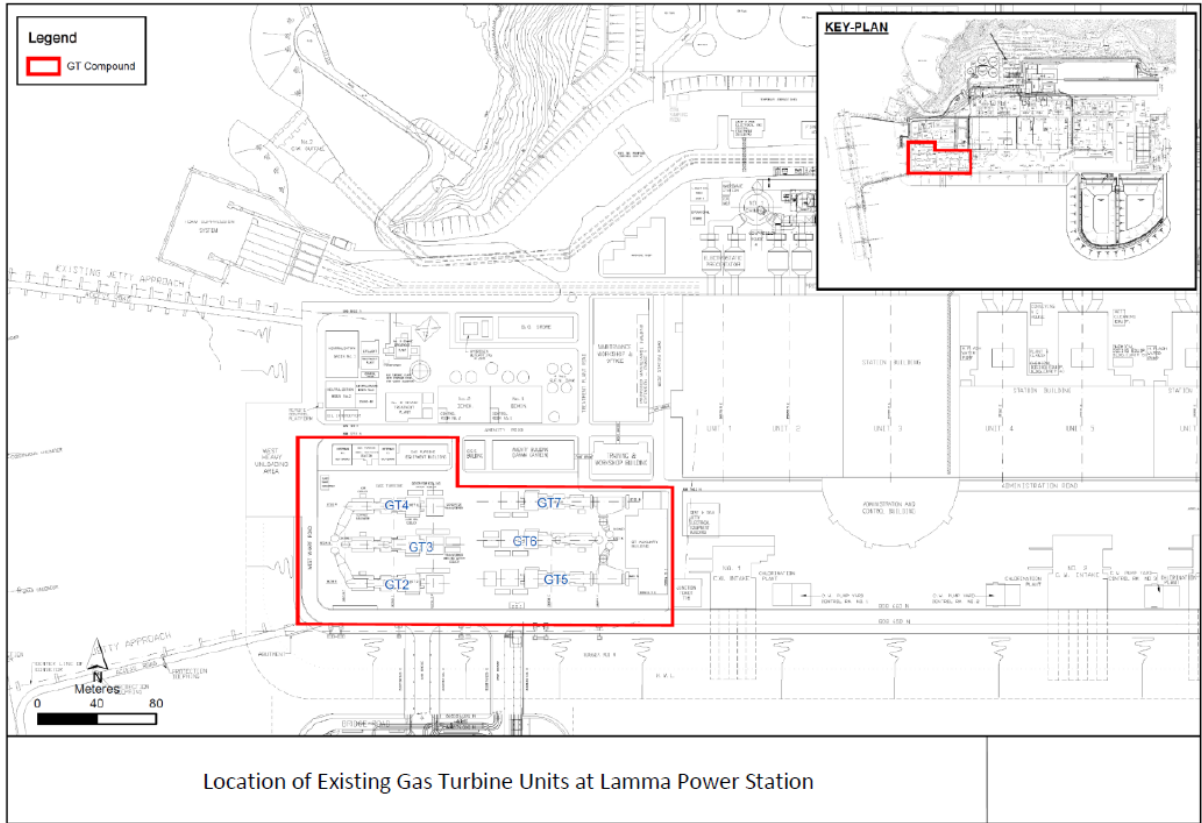


Figure 1.1 The Project Area

|                   |   | Q1 2022       | Q2 2022 | Q3 2022 | Q4 2022 | Q1 2023 | Q2 2023 | Q3 2023 | Q4 2023 | Q1 2024 | Q2 2024 | Q3 2024 | Q4 2024 | Q1 2025 | Q2 2025 | Q3 2025 | Q4 2025 | Q1 2026 | Q2 2026 | Q3 2026 | Q4 2026 |
|-------------------|---|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| GT57              | Decommissioning of GT57   |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Demolition of GT7 | Demolition of E&M equipment in GTAB   |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                   | Demolition of HRSG<br>Demolition of gas turbine, generator, generator transformer and auxiliary equipment |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| GT10              | Anchor bolt replacement   |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                   | Stack refurbishment   |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                   | Construction of gas turbine, generator, generator transformer and auxiliary equipment                     |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                   | Testing and Commissioning   |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Demolition of GT5 | Demolition of HRSG  |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                   | Demolition of gas turbine, generator, generator transformer and auxiliary equipment                       |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| GT8               | Anchor bolt replacement   |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                   | Construction of gas turbine, generator, generator transformer and auxiliary equipment                     |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                   | Testing and Commissioning   |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                   | Decommissioning   |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Demolition of GT6 | Demolition of gas turbine, generator, generator transformer and auxiliary equipment                       |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                   | Anchor bolt replacement   |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| GT9               | Construction of gas turbine, generator, generator transformer and auxiliary equipment                     |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                   | Testing and Commissioning   |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                   | Decommissioning   |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| GT2               | Decommissioning   | To be advised |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                   | Demolition  |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| GT3               | Decommissioning   |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                   | Demolition  |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| GT4               | Decommissioning   |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                   | Demolition  |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| GT11              | Construction  |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                   | Testing and Commissioning   |               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |

Figure 1.2 Decommissioning and Construction Phasing Schedule

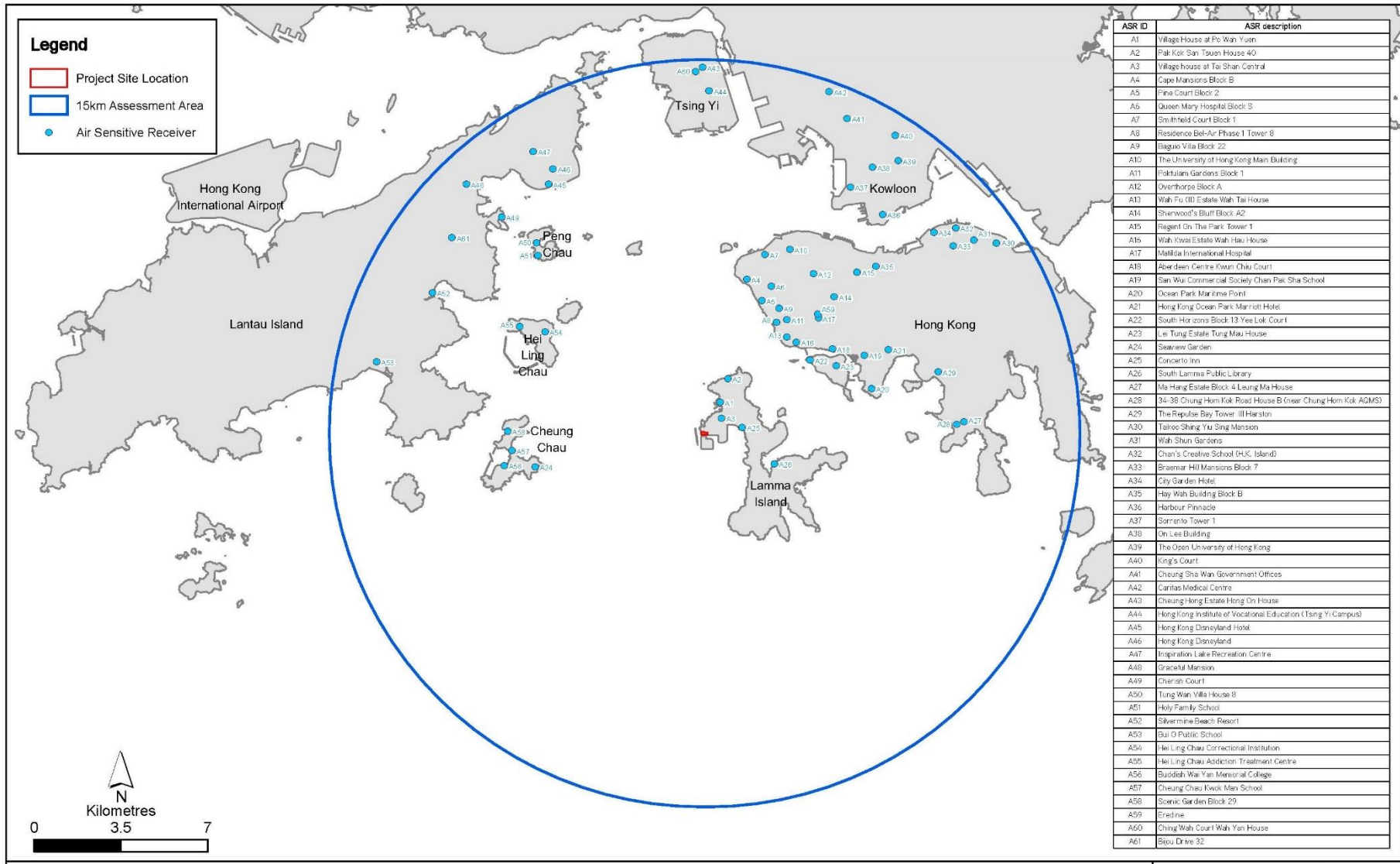


Figure 1.3 Locations of Air Sensitive Receivers within the 15km Assessment Area

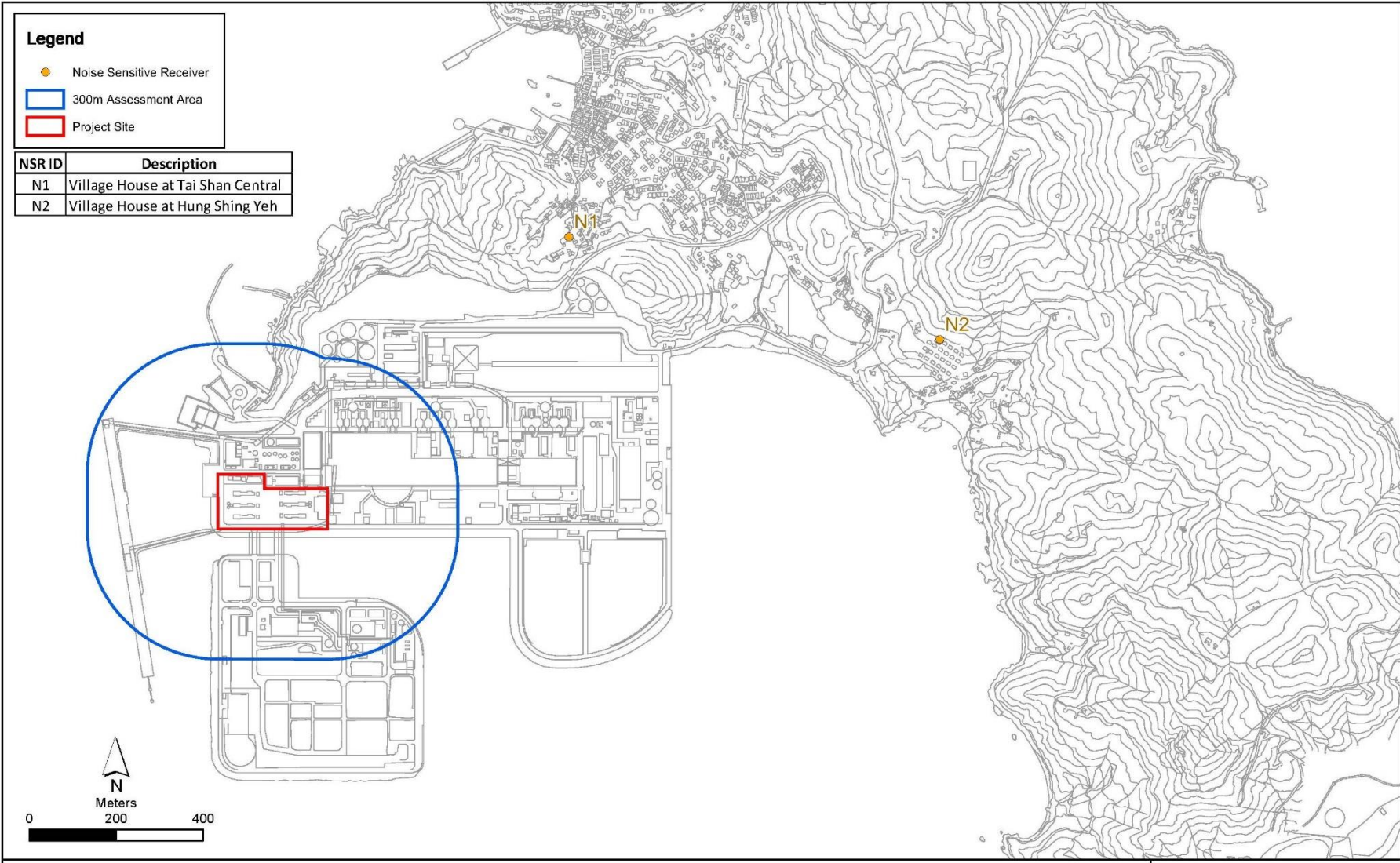


Figure 1.4 Locations of Noise Sensitive Receivers

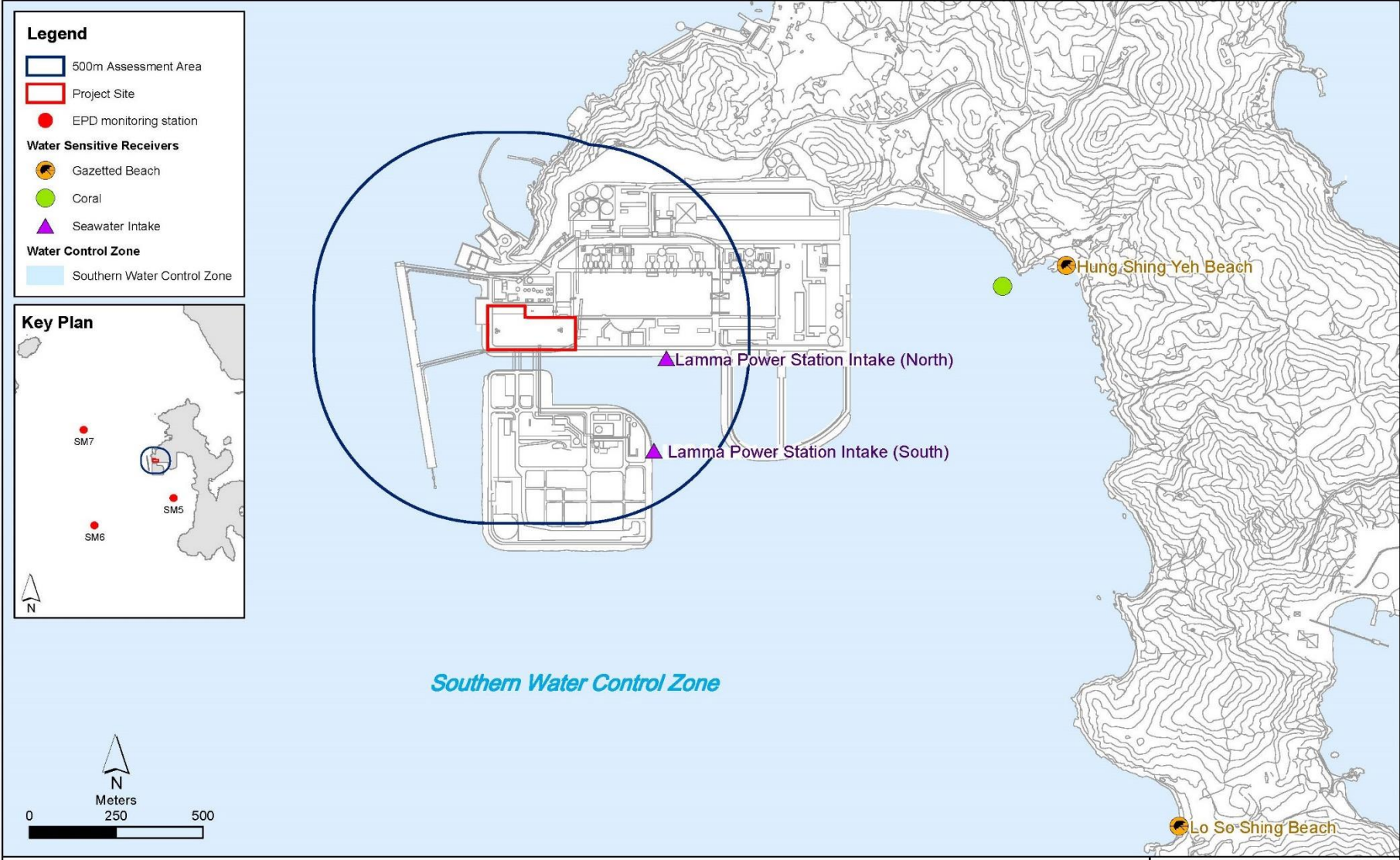


Figure 1.5 Locations of Water Sensitive Receivers

## 2. ENVIRONMENTAL AUDIT

### 2.1 Site Inspection

EPD officials from Territory South Group and Regional Office (South) visited Lamma Power Station on 6/6/2024. There was no adverse comment from EPD regarding the construction site.

Independent Environmental Checker (IEC) conducted a site inspection on 25/6/2024. The site conditions were generally satisfactory.

Weekly site audits were carried out by the Environmental Team in the reporting month to ensure compliance with relevant legislations and other requirements. The site audit findings or recommendations in the reporting month are summarized in [Appendix D](#). The site conditions were generally satisfactory. No non-compliance was recorded during the site inspection. All recommended mitigation measures were properly implemented.

### 2.2 Status of Environmental Licensing and Permitting

The licenses/permits obtained for the Project as of end June 2024 are summarised in [Table 2.1](#).

Table 2.1 Status of Environmental Licensing and Permitting

| License/Permit   | Ref. No.             | Valid Period |            | Description  | Status |
|--|----------------------|--------------|------------|--|--------|
|  |                      | From         | To         |  |        |
| Environmental Permit   | EP-600/2022          | 01/04/2022   | -          | For the decommissioning/ demolition, construction and operation of the Project | Valid  |
| Waste Disposal Billing Account   | Account No.: 7044319 | 27/06/2022   | -          | Civil Work   | Valid  |
| Registration of Chemical Waste Producer  | 5213-912-P2781-22    | 22/02/2016   | -          | Civil Work   | Valid  |
| EPD Notification (Dust) Construction, Air Pollution Control (Construction Dust) Regulation | 481782               | 07/07/2022   | -          | Civil Work   | Valid  |
| Construction Noise Permit  | GW-RS0112-24         | 22/02/2024   | 21/08/2024 | Civil Work<br>Operation of PME during restricted hours                         | Valid  |
| Waste Disposal Billing Account   | Account No.: 7045179 | 28/09/2022   | -          | E&M Work   | Valid  |
| Registration of Chemical Waste Producer  | 5517-912-K2931-02    | 05/12/2022   | -          | E&M Work   | Valid  |
| Construction Noise Permit  | GW-RS0408-24         | 22/5/2024    | 21/11/2024 | E&M Work<br>Operation of PME   | Valid  |

| License/Permit          | Ref. No.        | Valid Period |            | Description             | Status |
|-------------------------|-----------------|--------------|------------|-------------------------|--------|
|                         |                 | From         | To         |                         |        |
|                         |                 |              |            | during restricted hours |        |
| WPCO Discharge Licence# | WT10001647-2023 | 29/11/2023   | 30/11/2028 | Civil Work              | Valid  |

Note: # - Water quality monitoring was carried out in May 2024 and the results of which would be reported separately by the contractor.

### 2.3 Waste Management

All wastes produced were managed in accordance with the Waste Management Plan, good waste management practices, and statutory regulations and requirements.

The estimated quantities of wastes generated in June 2024 are summarized in [Table 2.2](#).

Table 2.2 Estimated Quantities of Waste Generated in June 2024

| Total Inert C&D Waste Materials | Non-inert C&D Materials |                                   |                |
|---------------------------------|-------------------------|-----------------------------------|----------------|
|                                 | C&D Materials Recycled  | C&D Waste Disposed of at Landfill | Chemical Waste |
| 0 Tonnes                        | 2.06 Tonnes             | 28.48 Tonnes                      | 0 Liters       |

The monthly waste flow tables prepared by the contractors are attached in [Appendix E](#).

### 2.4 Implementation Status of Land Contamination Assessment

The EIA study has recommended to conduct site investigation and sampling at five hotspot locations (i.e. 4 boreholes and 1 trial pit) to assess the potential land contamination impacts within the Project site in accordance with the Contaminated Assessment Plan (CAP). Site investigation and soil and groundwater sampling will be undertaken in accordance with the CAP under the supervision of a Land Contamination Specialist when the proposed sampling locations are made available after the demolition of the existing units and structures. The updated CAP was submitted to EPD in December 2022 for approval. EPD's comments on the CAP were received on 20/12/2022 and a revised CAP was submitted to EPD on 13/1/2023. EPD's approval for the CAP was granted on 2/3/2023.

Site investigation work on Lube Oil Tank area (BH1) was started on 22/5/2023 and the samples obtained had been delivered to laboratory for further analysis. Laboratory test result has been received on 26/7/2023. While no contamination was identified in Lube Oil Tank area based on the test result, the corresponding Contamination Assessment Report was compiled and currently under internal review.

### 2.5 Implementation Status of Environmental Mitigation Measures

Mitigation measures detailed in the Environmental Permit and the EM&A Manual are required to be implemented. A summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in [Appendix C](#).



### 3. REPORT ON COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

#### 3.1 Implementation Status of Environmental Complaint Handling Procedures

No complaint in relation to the environmental impact of the construction activities was received in the reporting month.

Table 3.1 Environmental Complaints Received in June 2024

| <b>Case Reference /<br/>Date, Time Received /<br/>Date, Time Concerned</b> | <b>Descriptions /Actions Taken</b> | <b>Conclusion / Status</b> |
|--|------------------------------------|----------------------------|
| Nil  | N/A                                | N/A                        |

Table 3.2 Outstanding Environmental Complaints Carried Over

| <b>Case Reference /<br/>Date, Time Received /<br/>Date, Time Concerned</b> | <b>Descriptions /Actions Taken</b> | <b>Conclusion / Status</b> |
|--|------------------------------------|----------------------------|
| Nil  | N/A                                | N/A                        |

#### 3.2 Environmental Summon and Successful Prosecution

No notification of summon or successful prosecution was received in the reporting month.

Table 3.3 Notifications of Summon or Successful Prosecution Received in June 2024

| <b>Case Reference /<br/>Date, Time Received /<br/>Date, Time Concerned</b> | <b>Descriptions /Actions Taken</b> | <b>Conclusion / Status</b> |
|--|------------------------------------|----------------------------|
| Nil  | N/A                                | N/A                        |

Table 3.4 Notifications of Summon or Successful Prosecution Carried Over

| <b>Case Reference /<br/>Date, Time Received /<br/>Date, Time Concerned</b> | <b>Descriptions /Actions Taken</b> | <b>Conclusion / Status</b> |
|--|------------------------------------|----------------------------|
| Nil  | N/A                                | N/A                        |

## 4. FUTURE KEY ISSUES

### 4.1 Construction Program for the Coming Month

The construction activities scheduled for the coming month are mainly trenching works, anchor bolt replacement, piping works, scraped material removal works, lifting and cut, operation of crawler crane, operation of cherry picker and oil discharge. (see [Appendix B](#)).

### 4.2 Key Issues for the Coming Month

Key issues to be considered and recommended in the coming month include:

#### Civil Works

##### *General*

- Relevant environmental legislations should be observed.
- Relevant environmental licenses/permits should be obtained, if required.
- Required environmental mitigation measures should be properly implemented.

##### *Air*

- Dust suppression measures should be implemented for the construction activities.

##### *Noise*

- General noise mitigation measures should be employed at work site.
- Works conducted during restricted hours should comply with the valid CNP.

##### *Water*

- Wastewater from site facilities should be properly collected and stored within the site area.
- Wastewater should be properly treated in sedimentation pit and tanks before discharge in compliance with the WPCO discharge licence already obtained.
- Good site practices should be adopted.

##### *Waste*

- Waste Management Plan submitted should be implemented
- Good site practices should be adopted.

##### *Land Contamination*

- Good site practices should be adopted.

#### E&M Works

##### *General*

- Relevant environmental legislations should be observed.
- Relevant environmental licenses/permits should be obtained, if required.
- Required environmental mitigation measures should be properly implemented.

*Air*

- Dust suppression measures should be implemented for the construction activities.

*Noise*

- General noise mitigation measures should be employed at work site.
- Works conducted during restricted hours should comply with the valid CNP.

*Water*

- Wastewater from site facilities should be properly collected and stored within the site area.
- Good site practices should be adopted.

*Waste*

- Waste Management Plan submitted should be implemented
- Good site practices should be adopted.

*Land Contamination*

- Good site practices should be adopted.

## **5. CONCLUSION**

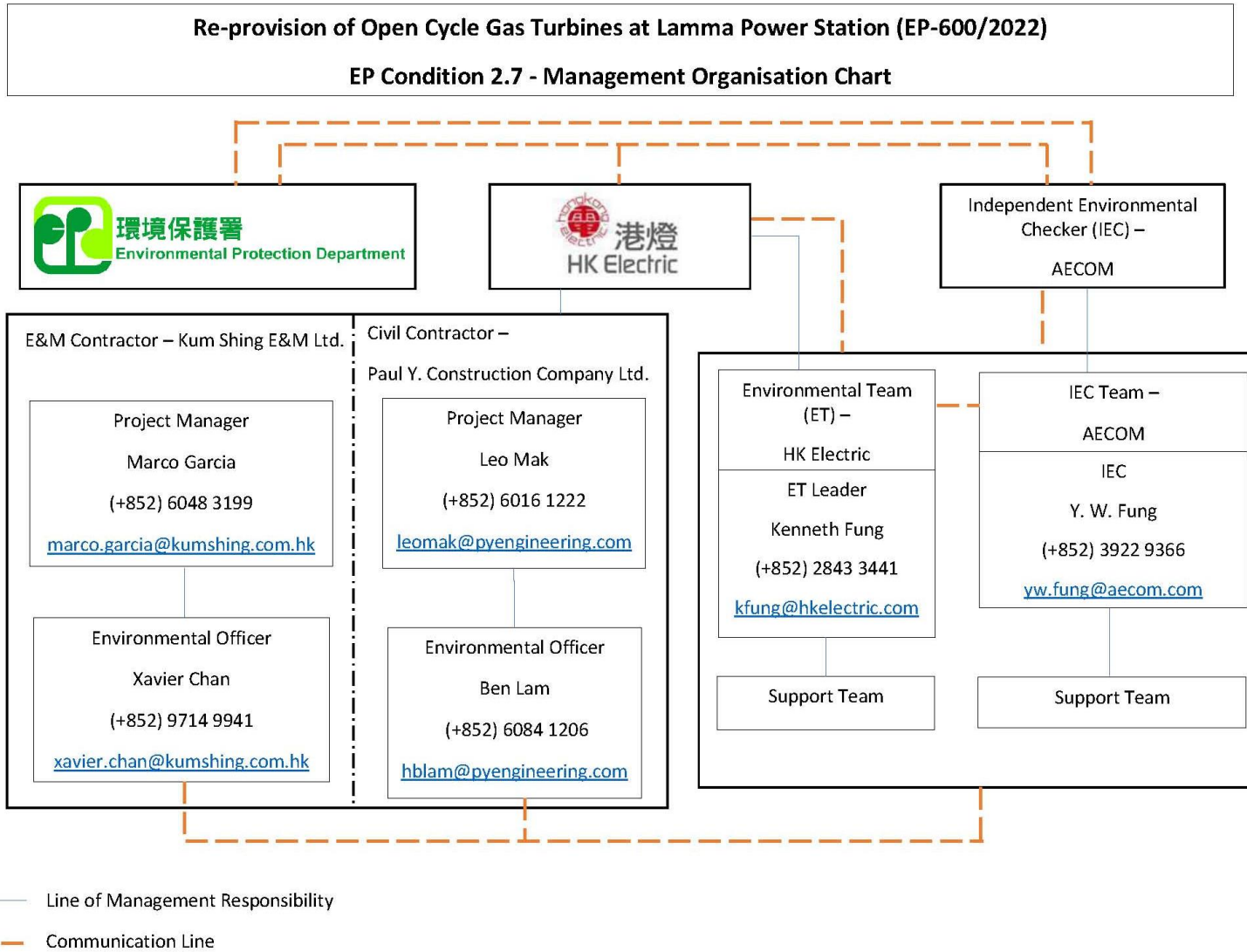
According to the EM&A Manual, environmental monitoring was not necessary in view of the anticipated insignificant environmental impact. Environmental audits were performed in accordance with the EM&A Manual.

All recommended environmental mitigation measures were properly implemented. No complaint in relation to the environmental impact of the construction activities was received in the reporting month. There was also no notification of summon and successful prosecution for breaches of relevant environmental legislations received in the reporting month.

No non-compliance was recorded in the reporting month.

The environmental performance of the Project was generally satisfactory.

## Appendix A Organization Chart



**Appendix B1**

**Tentative Decommissioning and Construction Programme**

**(Civil Contractor)**























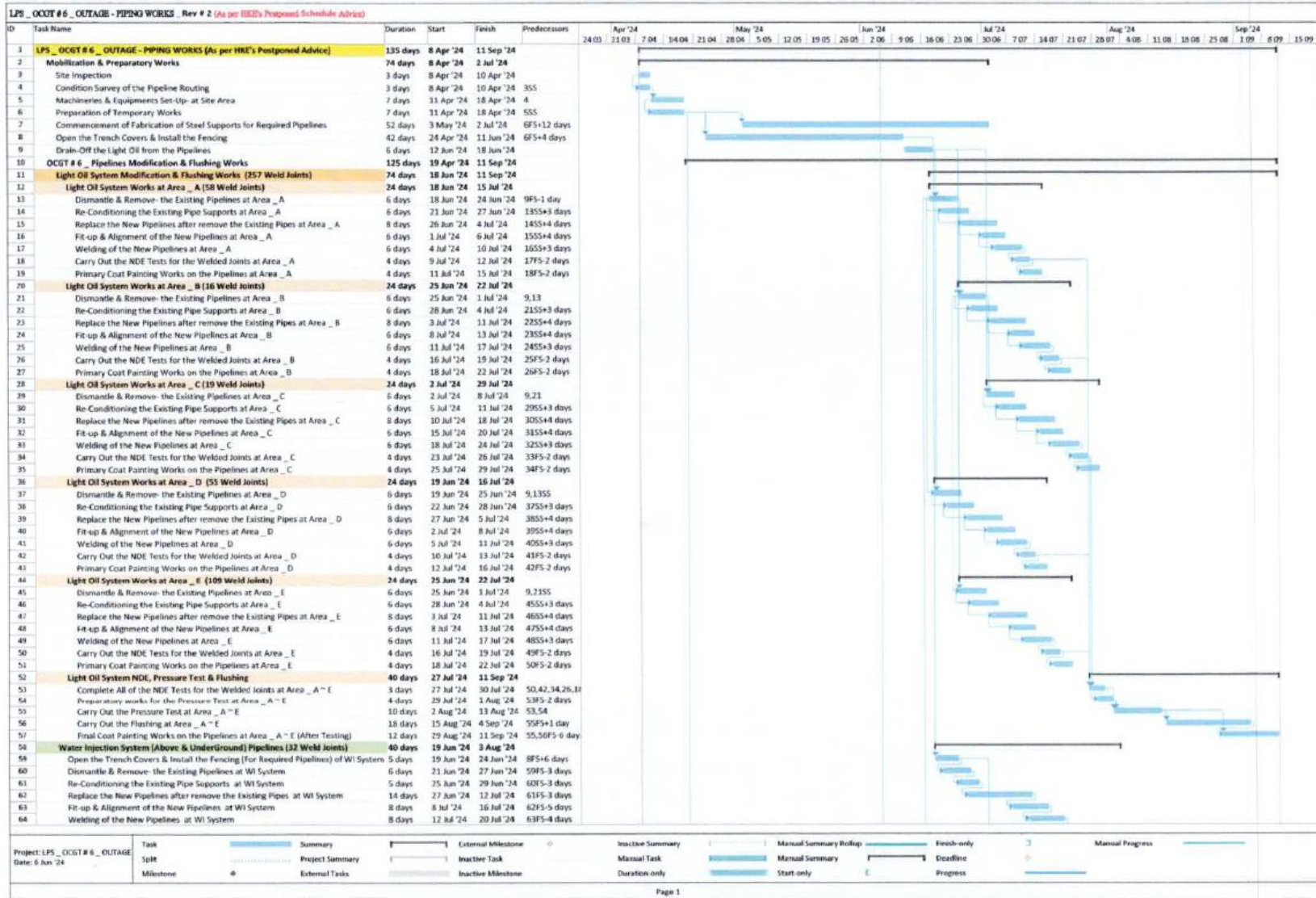


**Appendix B2**

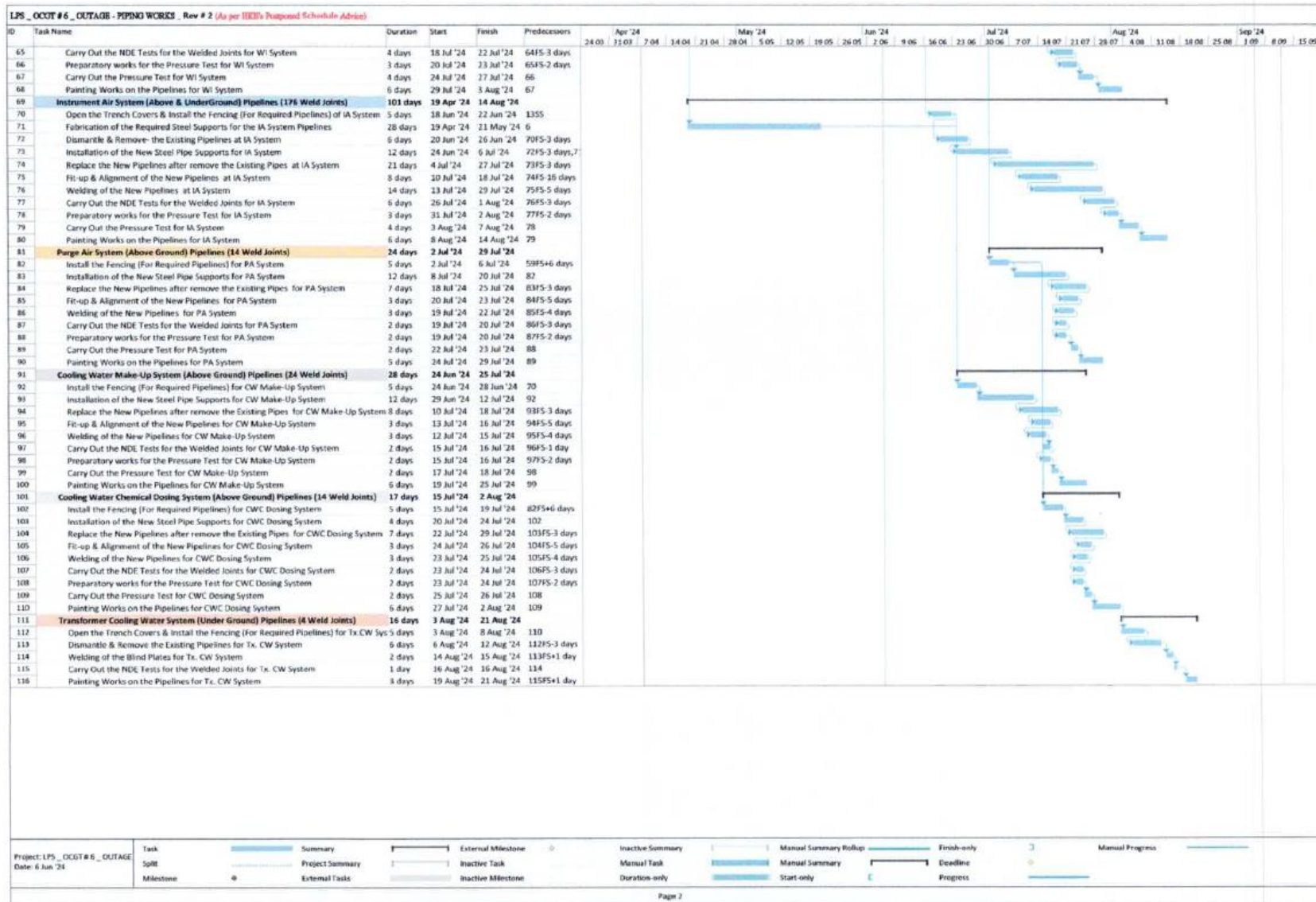
**Tentative Decommissioning and Construction Programme**

**(E&M Contractor)**

Re-provision of Open Cycle Gas Turbines at Lamma Power Station  
 Monthly EM&A Report for June 2024



Re-provision of Open Cycle Gas Turbines at Lamma Power Station  
 Monthly EM&A Report for June 2024



## Appendix C Summary of EMIS

**Table C.1 Mitigation Measures and their Implementation in the Reporting Month**

| <b>EM&amp;A Log Ref.</b> | <b>Recommended Mitigation Measures</b>   | <b>Implementation Status</b> |
|--------------------------|--|------------------------------|
|                          | <b>AIR QUALITY</b>   |                              |
| EM&A: S2                 | Impervious sheet will be provided for skip hoist for material transport.   | Complied                     |
| EM&A: S2                 | The area where dusty work takes place should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after dusty activities as far as practicable.   | Complied                     |
| EM&A: S2                 | All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation.   | Complied                     |
| EM&A: S2                 | Dropping heights for excavated materials should be controlled to a practical height to minimise the fugitive dust arising from unloading.  | Complied                     |
| EM&A: S2                 | During transportation by truck, materials should not be loaded to a level higher than the side and tail boards, and should be dampened or covered before transport.  | Complied                     |
| EM&A: S2                 | Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets or sprayed with water to maintain the entire surface wet all the time.  | Complied                     |
| EM&A: S2                 | Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.  | Complied                     |
| EM&A: S2                 | All exposed areas will be kept wet always to minimise dust emission.   | Complied                     |
| EM&A: S2                 | Ultra-low-sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites. | Complied                     |
| EM&A: S2                 | The engine of the construction equipment during idling will be switched off.   | Complied                     |
| EM&A: S2                 | Regular maintenance of construction equipment deployed on-site will be conducted to prevent black smoke emission.  | Complied                     |
| EM&A: S2                 | All marine vessels fuelled in Hong Kong will operate using marine light diesel with Sulphur content lower than 0.05%.  | Complied                     |
| EM&A: S2                 | NRMMs, e.g. mobile generator and air compressor, will comply with the prescribed emission standards with a proper label approved by EPD.   | Complied                     |
| EM&A: S2                 | Electric power supply for on-site machinery will be provided as far as practicable for construction activities.  | Complied                     |
| EM&A: S2                 | To ensure proper implementation of the recommended dust mitigation measures and good construction site practices during the decommissioning/ demolition/ construction phases, environmental site audits on weekly basis is recommended throughout the construction period.   | Complied                     |

| <b>EM&amp;A Log Ref.</b> | <b>Recommended Mitigation Measures</b>  | <b>Implementation Status</b> |
|--------------------------|---|------------------------------|
| APCO                     | Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving construction site.  | Complied                     |
|                          | <b>NOISE</b>  |                              |
| EM&A: S3                 | Machines and construction plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.  | Complied                     |
| EM&A: S3                 | Only well-maintained construction plant should be operated on-site and should be serviced regularly.  | Complied                     |
| NCO                      | Valid construction noise permits, if required, are available for inspection.  | Complied                     |
| NCO                      | Conditions of construction noise permits, if any, for the relevant part(s) of the works are implemented accordingly.  | Complied                     |
| NCO                      | Valid noise emission labels are fixed at air compressors and hand held percussive breakers.   | Complied                     |
|                          | <b>WATER QUALITY</b>  |                              |
| EM&A: S4                 | Wastewater, chemical waste and effluent from cleaning of existing OCGTs would be collected, stored for proper disposal by licensed contractor.  | Complied                     |
| EM&A: S4                 | Silt removal facilities such as silt traps or sedimentation facilities will be provided where necessary to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly. | Complied                     |
| EM&A: S4                 | Appropriate surface drainage will be designed and provided, where necessary.  | Complied                     |
| EM&A: S4                 | The precautions to be taken at any time of year when rainstorms are likely together with the 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.  | Complied                     |
| EM&A: S4                 | Oil interceptors will be provided in the drainage system where necessary and regularly emptied to prevent the release of oil and grease into the stormwater drainage system after accidental spillages.   | Complied                     |
| EM&A: S4                 | Temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge, if any, will be adequately designed for the controlled release of storm flows.   | Complied                     |
| EM&A: S4                 | The temporary diverted drainage, if any, will be reinstated to the original condition when the construction work has finished or when the temporary diversion is no longer required.  | Complied                     |
| EM&A: S4                 | Appropriate numbers of portable toilets shall be provided by a licensed contractor where necessary to serve the construction workers over the construction site to prevent direct disposal of sewage into the water environment.  | Complied                     |
| EM&A: S4                 | To ensure proper implementation of the recommended water quality mitigation measures and good construction site practices during the decommissioning/ demolition, and construction phases, environmental  | Complied                     |

| EM&A Log Ref. | Recommended Mitigation Measures   | Implementation Status |
|---------------|---|-----------------------|
|               | site audits on weekly basis is recommended throughout the construction period.  |                       |
|               | <b>WASTE MANAGEMENT</b>   |                       |
| EM&A: S5      | The contractor(s) must ensure that all the necessary waste disposal licences are obtained prior to the commencement of the decommissioning/ demolition and construction works.  | Complied              |
| EM&A: S5      | The contractor will open a billing account with EPD in accordance with the Waste Disposal (Charges for Disposal of Construction Waste) Regulation for the payment of disposal charges.  | Complied              |
| EM&A: S5      | A trip-ticket system will be established in accordance with DEVB TC(W) No. 6/2010 to monitor the reuse of surplus excavated materials off-site and disposal of construction waste and general refuse at transfer facilities/ landfills, and to control fly-tipping.   | Complied              |
| EM&A: S5      | A WMP as stated in the PNAP ADV-19 for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established and implemented during the construction phase as part of the Environmental Management Plan (EMP). The Contractor will be required to prepare the EMP and submits it to the Architect/ Engineer under the Contract for approval prior to implementation.   | Complied              |
| EM&A: S5      | C&D materials will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the Site will be designated for such segregation and storage if immediate use is not practicable. Prefabrication will be adopted as far as practicable to reduce the construction waste arisings.  | Complied              |
| EM&A: S5      | The contractor(s) will register as a chemical waste producer with the EPD. Chemical waste will be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes.  | Complied              |
| EM&A: S5      | Containers used for storage of chemical wastes will: <ul style="list-style-type: none"> <li>• Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;</li> <li>• Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and</li> <li>• Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations.</li> </ul>   | Complied              |
| EM&A: S5      | The storage area for chemical wastes will: <ul style="list-style-type: none"> <li>• Be clearly labelled and used solely for the storage of chemical waste;</li> <li>• Be enclosed on at least 3 sides;</li> <li>• Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest;</li> <li>• Have adequate ventilation;</li> <li>• Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and</li> <li>• Be arranged so that incompatible materials are appropriately separated.</li> </ul> | Complied              |
| EM&A: S5      | Chemical waste will be disposed of: <ul style="list-style-type: none"> <li>• Via a licensed chemical waste collector; and</li> </ul>  | Complied              |

| EM&A Log Ref.             | Recommended Mitigation Measures   | Implementation Status        |
|---------------------------|---|------------------------------|
|                           | <ul style="list-style-type: none"> <li>To a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility which also offers a chemical waste collection service and can supply the necessary storage containers.</li> </ul>  |                              |
| EM&A: S5                  | General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered separately from construction and chemical wastes for offsite disposal on a daily basis to reduce odour, pest and litter impacts.  | Complied                     |
| EM&A: S5                  | Recycling bins will be provided at strategic locations within the Project Site to facilitate recovery of recyclable materials (including aluminium cans, waste papers, glass bottles and plastic bottles, etc.). Materials recovered will be sold for recycling.  | Not applicable at this stage |
| EM&A: S5                  | To avoid any odour and litter impact, appropriate number of portable toilets will be provided for workers on-site where appropriate.  | Not applicable at this stage |
| EM&A: S5                  | At the commencement of the decommissioning/demolition and construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.  | Complied                     |
| EM&A: S5                  | General refuse and non-recyclables will be stored in enclosed bins and collected by existing waste management contractor at Lamma Power Station for disposal at the landfills on a daily basis for avoidance of pest and odour nuisance.  | Complied                     |
| EM&A: S5                  | Recycling bins for recyclable materials (including aluminium cans, waste papers, glass bottles and plastic bottles) will be placed at the site office and transported off- site for recycling on a regular basis.   | Complied                     |
| EM&A: S5                  | It is recommended that weekly audits of the waste management practices be carried out during the decommissioning/demolition, and construction phases to determine if wastes are being managed in accordance with the recommended good site practices and WMP. The audits will investigate all aspects of waste management including waste generation, storage, handling, recycling, transportation and disposal.  | Complied                     |
| <b>LAND CONTAMINATION</b> |   |                              |
| EM&A: S6                  | During the demolition stage, a Land Contamination Specialist shall oversee the removal / demolition activities and record any new visual signs of potential contamination such as oil leakage or oil stains. The Land Contamination Specialist shall also review the need of additional sampling to capture potential contamination observed during the demolition stage.   | Complied                     |
| EM&A: S6                  | SI and sampling shall be carried out when the proposed sampling locations are available after the demolition stage.   | Complied                     |
| EM&A: S6                  | Soil and groundwater sampling works will be supervised by a Land Contamination Specialist.  | Complied                     |
| EM&A: S6                  | Prior to commencement of demolition works in the Project site, the leftover diesel or other petroleum products in the equipment to be demolished shall be removed as much as possible. The removed diesel or other petroleum products will be reused as far as practicable. The removed diesel and other petroleum products, which cannot be reused are considered as chemical waste and are controlled under the Waste Disposal (Chemical Waste)(General) Regulation. The demolition contractor who will generate the chemical waste or cause it to be | Complied                     |

| EM&A Log Ref. | Recommended Mitigation Measures   | Implementation Status |
|---------------|---|-----------------------|
|               | <p>produced should register with the EPD as a chemical waste producer. Removed diesel and petroleum products shall be labelled and stored in accordance with the requirement stipulated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes issued by EPD. The removed petrol and petroleum products are required to be collected by licensed chemical waste collector for disposal. Trip tickets system shall be implemented during the collection and disposal of removed petrol and diesel.</p>   |                       |
| EM&A: S6      | <p>During demolition and construction phases, the following good housekeeping practices shall be implemented to ensure that risk of ground contamination as a result of oil spills or leaks is kept to a practical minimum:</p> <ul style="list-style-type: none"> <li>• Regular visual inspections to detect any early signs of fuel leakage prior to demolition;</li> <li>• Provision of impermeable lining or absorbent materials to contain leaks;</li> <li>• Provision of secondary containment for the temporary storage of removed diesel or petroleum products, demolished structures and pipes; and</li> <li>• Provision of spill control materials and equipment</li> </ul> | Complied              |
| EM&A: S6      | <p>To ensure proper implementation of the good housekeeping practices, weekly site inspections should be carried out during the decommissioning/demolition, and construction phases of the Project.</p>   | Complied              |

Remarks:

APCO: Air Pollution Control Ordinance  
 EM&A: EM&A Manual  
 NCO: Noise Control Ordinance



## **Appendix D Summary of Site Audit Findings or Recommendation**

### Civil contractor

Dates of Inspection: 4/6/2024, 11/6/2024, 18/6/2024 and 25/6/2024

### Summary of Findings or Recommendation

#### *Air Quality*

- No environmental deficiency identified.

#### *Noise*

- No environmental deficiency identified.

#### *Water Quality*

- No environmental deficiency identified.

#### *Waste Management*

- No environmental deficiency identified.

#### *Land Contamination*

- No environmental deficiency identified.

E&M contractor

Dates of Inspection: 4/6/2024, 11/6/2024, 18/6/2024 and 25/6/2024

Summary of Findings or Recommendation

*Air Quality*

- No environmental deficiency identified.

*Noise*

- No environmental deficiency identified.

*Water Quality*

- No environmental deficiency identified.

*Waste Management*

- No environmental deficiency identified.

*Land Contamination*

- No environmental deficiency identified.

## **Appendix E**

### **Monthly Waste Flow Table for June 2024**

# Appendix E1 Monthly Waste Flow Table for June 2024 (Civil Contractor)

## Monthly Waste Flow Table for June 2024

Project: Civil Works for Re-Provision of Open Cycle Gas Turbine at Lamma Power Station

Contractor: Paul Y. Construction Company, Limited

Record by: Ben Lam

Year of Record: 2022, 2023 & 2024

| MM.YYYY     | Actual Quantities of Inert C&D Materials Generated Monthly |                                |   |   |                         |                          |                         |                                | Actual Quantities of Non-inert C&D Materials Generated Monthly |                                      |  |                                   |   |   |                            |
|-------------|--|--------------------------------|---|---|-------------------------|--------------------------|-------------------------|--------------------------------|--|--------------------------------------|--|-----------------------------------|---|---|----------------------------|
|             | Excavated Materials  |                                |   |   | Non-excavated Materials |                          |                         |                                | Metals (steel bar / metal strip) <sup>(1)</sup>                | Metals (aluminum can) <sup>(1)</sup> | Paper / cardboard packaging <sup>(1)</sup> | Plastics <sup>(1) &amp; (6)</sup> | Chemical waste (waste of lubricant oil/oil container) | Chemical waste (waste of lubricant oil/oil container) | Other, e.g. general refuse |
|             | Disposed in Public Fill                                    | Disposed in Sorting Facilities | Others (e.g. Reused in the Contract / Other Projects) | Broken Concrete or Construction Waste Collected by Recycled Company | Reused in the Contract  | Reused in other Projects | Disposed in Public Fill | Disposed in Sorting Facilities |  |                                      |  |                                   |   |   |                            |
| (in '000kg) | (in '000kg)  | (in '000kg)                    | (in '000kg)   | (in '000kg)   | (in '000kg)             | (in '000kg)              | (in '000kg)             | (in '000kg)                    | (in '000kg)  | (in '000kg)                          | (in '000kg)                                | (in '000L)                        | (in '000kg)   | (in '000kg)   |                            |
| Jul 2022    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 0.00                       |
| Aug 2022    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 0.00                       |
| Sep 2022    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 0.00                       |
| Oct 2022    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 0.00                       |
| Nov 2022    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 0.00                       |
| Dec 2022    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 11.21                      |
| Jan 2023    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 2.72                       |
| Feb 2023    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 6.32                       |
| Mar 2023    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 5.26   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 0.00                       |
| Apr 2023    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 7.37                       |
| May 2023    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 5.07                       |
| Jun 2023    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 4.09                       |
| Jul 2023    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 5.87                       |
| Aug 2023    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 41.53                      |
| Sep 2023    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 11.80                      |
| Oct 2023    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.000                                      | 0.00                              | 0.00  | 0.00  | 21.25                      |
| Nov 2023    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 10.59  | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 34.67                      |
| Dec 2023    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 9.58   | 0.00                                 | 0.00                                       | 0.00                              | 0.00  | 0.00  | 5.34                       |
| Jan 2024    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.000                                      | 0.00                              | 0.00  | 0.00  | 16.36                      |
| Feb 2024    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 10.10  | 0.00                                 | 0.000                                      | 0.00                              | 0.00  | 0.00  | 43.89                      |
| Mar 2024    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 0.00   | 0.00                                 | 0.000                                      | 0.00                              | 0.00  | 0.00  | 28.86                      |
| Apr 2024    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 1.50   | 0.00                                 | 0.000                                      | 0.00                              | 0.00  | 0.00  | 14.92                      |
| May 2024    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 4.90   | 0.00                                 | 0.000                                      | 0.00                              | 0.00  | 0.00  | 55.00                      |
| Jun 2024    | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 2.06   | 0.00                                 | 0.000                                      | 0.00                              | 0.20  | 0.00  | 28.48                      |
| Total       | 0.00   | 0.00                           | 0.00  | 0.00  | 0.00                    | 0.00                     | 0.00                    | 0.00                           | 44.99  | 0.00                                 | 0.00                                       | 0.00                              | 0.80  | 0.00  | 344.75                     |

| Total Inert C&D Waste Materials Generated | Non-inert C&D Materials |                                   |                |
|---|-------------------------|-----------------------------------|----------------|
|   | C&D Materials Recycled  | C&D Waste Disposed of at Landfill | Chemical Waste |
| 0.00 tonnes                               | 44.99 tonnes            | 344.75 tonnes                     | 800.00 Litre   |

- Where (A) Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 0.00 tonnes of inert C&D material were generated from the Project, of which 0.00 tonnes were reused in this and other contracts, and the remaining 0.00 tonnes were disposed as public fill to Fill Banks / Sorting Facilities.
- (B) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
- (C) 2060 kg of metals, 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.
- (D) Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at Landfill.

- Notes:
- (1) metal, paper & plastic were collected by recycler
  - (2) The performance target of waste recycling are specified in the Contract.
  - (3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
  - (4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material.
  - (5) Broken concrete for recycling into aggregates.
  - (6) Disposal of inert waste to public fill or sorting facilities will NOT be considered as recycled waste.

## Appendix E2 Monthly Waste Flow Table for June 2024 (E&M Contractor)

### Monthly Waste Flow Table for June 2024

Project: C/N 22 23001 Lamna Repronision of OCGT Demolition & Erection Work  
 Contractor: Kum Shing  
 Record by: Peter Chan  
 Year of Record: 2024

|             | Actual Quantities of Inert C&D Materials Generated Monthly |                                |   |  |                        |                          |                         | Actual Quantities of Non-inert C&D Materials Generated Monthly |                       |                             |             |  |  |                            |                                |
|-------------|--|--------------------------------|---|--|------------------------|--------------------------|-------------------------|--|-----------------------|-----------------------------|-------------|--|--|----------------------------|--------------------------------|
|             | Excavated Materials  |                                |   | Non-excavated Materials  |                        |                          |                         | Metals (steel bar/ metal strip)                                | Metals (aluminum can) | Paper / cardboard packaging | Plastics    | Chemical waste (wasted lubricant oil/ oil container) | Chemical waste (wasted lubricant oil/ oil container) | Other, e.g. general refuse |                                |
|             | Disposed in Public Fill                                    | Disposed in Sorting Facilities | Others (e.g. Reused in the Contract / Other Projects) | Broken Concrete or Constructi on Waste Collected by Recycled Company | Reused in the Contract | Reused in other Projects | Disposed in Public Fill |  |                       |                             |             |  |  |                            | Disposed in Sorting Facilities |
| (in '000kg) | (in '000kg)  | (in '000kg)                    | (in '000kg)   | (in '000kg)  | (in '000kg)            | (in '000kg)              | (in '000kg)             | (in '000kg)  | (in '000kg)           | (in '000kg)                 | (in '000kg) | (in '000kg)  | (in '000kg)  |                            |                                |
| 2022        | 0  | 0                              | 0   | 0  | 0                      | 0                        | 0                       | 0  | 0                     | 0                           | 0           | 0  | 0  | 0                          |                                |
| 2023        | 0  | 0                              | 0   | 0  | 0                      | 0                        | 0                       | 22.15  | 903.81                | 0                           | 0           | 0  | 121.2  | 13.65                      | 1014.13                        |
| Jan-24      | 0  | 0                              | 0   | 0  | 0                      | 0                        | 0                       | 0  | 0                     | 0                           | 0           | 0  | 0  | 0                          | 37.7                           |
| Feb-24      | 0  | 0                              | 0   | 0  | 0                      | 0                        | 0                       | 0  | 0                     | 0                           | 0           | 0  | 7.4  | 0                          | 5.24                           |
| Mar-24      | 0  | 0                              | 0   | 0  | 0                      | 0                        | 0                       | 30.5   | 0                     | 0                           | 0           | 0  | 0  | 0                          | 0                              |
| Apr-24      | 0  | 0                              | 0   | 0  | 0                      | 0                        | 0                       | 15.74  | 0                     | 0                           | 0           | 0  | 0  | 0                          | 2.8                            |
| May-24      | 0  | 0                              | 0   | 0  | 0                      | 0                        | 0                       | 0  | 0                     | 0                           | 0           | 0  | 0  | 0                          | 0                              |
| Jun-24      | 0  | 0                              | 0   | 0  | 0                      | 0                        | 0                       | 0  | 0                     | 0                           | 0           | 0  | 0  | 0                          | 0                              |
| Total       | 0  | 0                              | 0   | 0  | 0                      | 0                        | 0                       | 68.39  | 903.81                | 0                           | 0           | 0  | 128.6  | 13.65                      | 1059.87                        |

| Total Inert C&D Waste Materials |  | Non-inert C&D Materials                                |  |                                  |
|---------------------------------|--|--|--|----------------------------------|
| Generated                       |  | C&D Materials (Metal (Steel bar/metal strip)) Recycled | C&D Waste (General Refuse) Disposed of at Landfill | Chemical Waste                   |
| 68.39 tonnes                    |  | 903.81 tonnes  | 1059.87 tonnes                                     | 128.60 kjo litre<br>13.65 tonnes |

Where

- (A) Inert C&D materials include bricks, concrete, building debris, rubble and In total, 68.39 tonnes of inert C&D material were generated from the Project, of which 0.00 tonnes were reused in this and other contracts, and the remaining 68.39 tonnes were disposed as public fill to Fill Banks/Sorting
- (B) Non-inert C&D materials (construction wastes) include metals, paper/cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
- (C) 903810 kg of metals, 0 kg of papers/cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.
- (D) Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals waste were disposed of at landfill.

Notes:

- (1) Metal, paper & plastic were collected by recycler.  
 (2) The performance target of waste recycling are specified in  
 (3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.  
 (4) Plastics refer to plastic bottles/containers, plastic/foam from packaging materials.  
 (5) Broken concrete for recycling into aggregates.  
 (6) Disposal of inert waste to public fill or sorting facilities will NOT be considered as recycled waste.