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PLAN

DESIGN AND BUILD CONTRACT FOR 1200MW IT
POWER FITOUT OF GREENFIELD DATA CENTRE
FOR YU AO SDN BHD IN JOHOR BAHRU,
MALAYSIA

ENVIRONMENTAL MANAGEMENT PLAN (EMP)

| Action | Name | Designation | Signature |
|--------------------|-------------------------------|----------------------------|---|
| General Contractor | | | |
| Prepared by | Nor Ain Fatimah Mohd Azizi | Environmental Officer |  |
| Reviewed by | Wong Chun Kai | Senior Project Manager |  |
| Approved by | Ir. Muhammad Hatta Anuar | Deputy Project Director |  |

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REVISION HISTORY

| Rev No. | Effective Date | Change Descriptions | Prepared By | Approved By |
|---------|----------------|--|--|--|
| 00 | 15/01/2025 | New Issue |  Nor Ain Fatimah Mohd Azizi |  Ir. Muhammad Hatta Anuar |
| 01 | 20/01/2026 | 1. EPMC Organization Chart (Updated) 2. Section 4: Environmental Quality Monitoring 3. Waste Management Plan (Updated) |  Nor Ain Fatimah Mohd Azizi |  Ir. Muhammad Hatta Anuar |

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SECTION 1: INTRODUCTION

1.1 Project Brief

The Project Proponent is **Yu Ao Sdn Bhd**. Any inquiry pertaining to the EMP shall be directed to the following:

Address : Registered address
D-8-3A, Menara SuezCap 1, KL Gateway,
59200 Kuala Lumpur, W.P. Kuala Lumpur

Business address
1 Jalan Kilang Timor, #04-02 Pacific Tech Centre,
Singapore 159303

Contact No. : +65 98157997
Email : edmund.yeo@epochdigital.org

The Principal Contractor for the Project is **PMX Malaysia**. Any inquiry pertaining to the EMP shall be directed to the following:

Address : Company Registered/KL Office Address:
51-2, The Boulevard,
Mid Valley City,
Lingkaran Syed Putra,
59200 Kuala Lumpur.

Johor Office:
No. 256, Jalan Ekoperniagaan 7,
Taman Ekoperniagaan 2, Senai Airport City,
81400 Senai, Johor.

1. Contact Person : Ho Kok Siang (General Manager)
Contact No. : +607-5981907
Email : info@pmxmalaysia.com

2. Contact Person : Nor Ain Fatihah Mohd Azizi (Certified Environmental Officer)
Contact No. : +6014-964 9810
Email : ain.azizi@pmxmalaysia.com

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1.2 Project Description

| | |
|--|--|
| Title | Design and Build Contract for 120MW IT Power Fitout of Greenfield Data Centre for Yu Ao Sdn Bhd In Johor Bahru, Malaysia |
| Project Activities | Development of a data centre comprising 3 phases. Phase 1 includes a 2-storey substation building 275kV/33kV. Meanwhile, Phase 2 consists of a 2-storey data centre building with office space, 2 M&E equipment rooms (gensets), also 2 storeys. It includes 1 guardhouse, 1 garbage hut with recycling room, and 2 pumping houses. Finally, Phase 3 includes a 2-storey data centre building with a 2-storey office space, 2 M&E equipment rooms (gensets) across 2 levels, and 2 pumping houses. |
| Site Address | PTD 227195 dan PTD 227196, Jalan Mega 1, Kawasan Perindustrian Nusa Cemerlang, Mukim Pulai, Daerah Iskandar Puteri, Johor Darul Ta'zim |
| Project Schedule | |
| Including all planning, provisioning, and construction phases | 86 weeks |
| Commencement date | 1 st August 2024 |
| Contractor | |
| Principal design architect for construction work | PMX Solution Sdn Bhd Suite C-05-3, block c, Setiawalk, Persiaran Wawasan, Pusat Bandar Puchong, 47160, Puchong Selangor, Malaysia |
| Principal contractor for construction work | PMX Malaysia Sdn. Bhd. Johor Office: No. 256, Jalan Ekoperniagaan 7, Taman Ekoperniagaan 2, Senai Airport City, 81400 Senai, Johor. |

The Construction drawings are shown in **Appendix – I**.

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1.3 Objectives

The Environmental Management Plan (EMP) is designed to establish a structured approach to managing and mitigating the environmental impacts of projects and activities. The key objectives of an EMP include:

- i. To minimize and manage adverse environmental impacts associated with project activities.
- ii. To ensure adherence to relevant environmental laws, regulations, and standards.
- iii. To reduce waste and encourage recycling and reuse of materials.
- iv. To prevent pollution and reduce emissions of pollutants to air, water, and soil.
- v. To implement measures for waste management and reduction.
- vi. To identify potential environmental risks and implement strategies to mitigate them.

1.4 Relevant Standards, Regulations and Guidelines

- I. Environmental Quality Act 1974
- II. Environmental Quality (Amendment) Act 2024
- III. Occupational Safety and Health Act 1994
- IV. Factory and Machinery Act 1967 Environmental Quality (Clean Air) Regulations 2014
- V. Environmental Quality (Scheduled Wastes) Regulations 2005
- VI. Environmental Quality (Sewage) Regulations 2009
- VII. National Water Quality Standards for Malaysia
- VIII. Malaysia Ambient Air Quality Standard (2020)
- IX. Guidelines for Environmental Noise Limits and Control 2019
- X. Planning Guidelines for Vibration Limits and Control in the Environment
- XI. Guidelines for Erosion and Sediment Control in Malaysia Land-Disturbing Pollution Prevention and Mitigation Measures (LD-P2M2)

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SECTION 2: ENVIRONMENTAL POLICY

2.1 Environmental, Health and Safety (EHS) Policy

The project proponent and contractor are committed to provide a safe and healthy workplace for its employees as well as incorporation of effective environmental protection measures in its activities to ensure that potential adverse impacts to the environment from the project implementation are controlled. The commitment shown is encompasses in their Environmental, Health and Safety (EHS) Policy.

The EHS Policy of PMX Malaysia Sdn Bhd is outlined as follows:

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|  | PMX MALAYSIA SDN BHD | Form. No.: PMX_MGT_IM01_App |
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**PMX ENVIRONMENTAL, OCCUPATIONAL SAFETY AND HEALTH POLICY
(English)**

PMX Malaysia is committed to ensure the Environmental, Occupational Safety and Health for all employees, visitors, and contractors

PMX Malaysia believes that Occupational Safety and Health is an integral part of our daily business activities and shall constantly strive to achieve the following:

1. Provide a safe and healthy environment workplace with necessary welfare facilities.
2. Comply with applicable Occupational Safety and Health legal and other requirements.
3. Create a proactive culture where all Occupational Safety and Health risks associated with its activities are adequately controlled by eliminating or reducing the risks to a level as low as reasonably practicable (ALARP).
4. Continuously improve Occupational Safety and Health management system across the whole organization.
5. Consult and include participation of employees where applicable in the planning, implementation, performance evaluation or actions in Occupational Safety and Health management system.
6. Comply with all legal requirements on Environmental as stipulated in the Environmental Quality Act 1974.
7. Improve environmental performance through compliance with local legislation, waste minimization and prevention of pollution.
8. Prevent discharge of harmful substances into the environment and waste minimization.

The policy shall be reviewed and revised for its continuing suitability and be disseminated to all relevant parties.

“Environment and Safety Is Our Absolute Priority”



Colin Phua
Managing Director
1st January 2025

Figure2.1: Environmental, Health & Safety Policy of PMX Malaysia Sdn Bhd

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SECTION 3: ORGANISATION CHART

The environmental management of the project shall include all parties involved in the construction, which comprises of various experts and professionals in their own fields. The effective implementation of EMP will require a clear understanding of the responsible authorities involved and proper lines of communication needed in managing the environment. Therefore, the main lines of communication will be from the consultant to contractor and to project director.

3.1 Project Organization Structure

The effective implementation of EMP requires a clear identification of the personnel and their roles and responsibilities. The project site management team will ensure all the mitigation measures proposed in this EMP and other legal requirement are well implemented. The project manager is responsible for the overall coordination at site and responsible for the implementation of the mitigation measures. The organization chart of the site management is shown in Appendix - II which details out the responsibilities of individuals that make up the team.

MERCURY PROJECT – ORGANIZATIN CHART

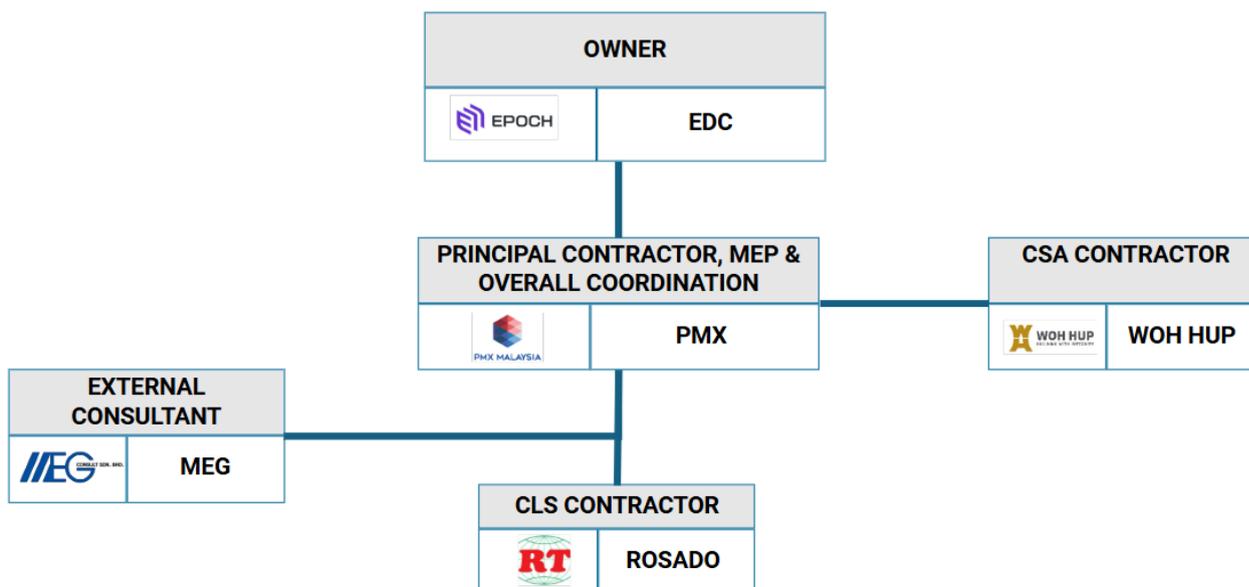


Figure: 3.1: Organization Structure of Mercury Project

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3.2 Environmental Performance Monitoring Committee (EPMC)

To address the environmental issues on site, an Environmental Performance Monitoring Committee (EPMC) is set up. The management has designated Environmental Officer (EO) who is responsible to organize, coordinate, execute and monitor the implementation of EMP. The EO will liaise with environmental consultant, analytical and monitoring laboratory and any relevant vendors and suppliers, as well as present regular progress environmental report to the Project Manager and relevant authority such as Department of Environment (DOE) on the status of EMP implementation on site.

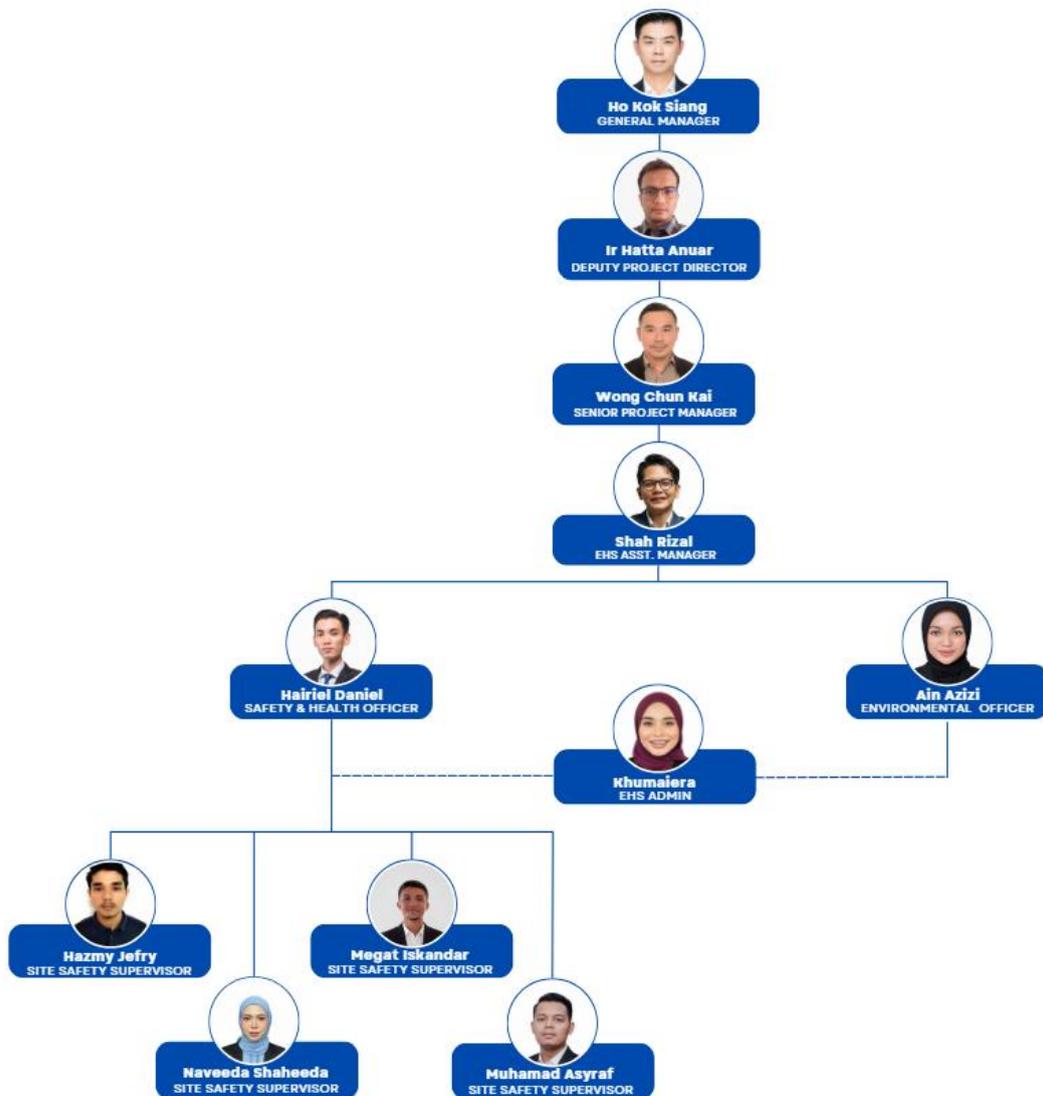


Figure 3.2: Environmental, Health and Safety (EHS) Organization Chart of PMX Malaysia Sdn Bhd

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3.3 Roles and Responsibilities in Environmental Management

In environmental management, roles and responsibilities vary depending on the specific position. However, the following outlines general roles and responsibilities typically associated with the person in charge in the project.

Table3.1: Roles and Responsibilities in Environmental Management

| Roles | Responsibilities |
|------------------|---|
| Project Director | <ul style="list-style-type: none"> ▪ To meet the schedule progress of project within the approved budget in adherence to the environmental guidelines. ▪ To ensure environmental management system is implemented and adhered throughout all stages of project execution. ▪ To assure compliance to all relevant code of practices, legal and other requirements all the time. ▪ To review and approve all the officials and documentation. |
| Project Manager | <ul style="list-style-type: none"> ▪ Handle assigned projects and to ensure that project completes on time and within budget cost and to the specified quality in adherence to the environmental guidelines. ▪ To implement any and all relevant policies, procedures and work instruction as defined in the Company’s Quality Management System. ▪ Ensure construction works comply with Client’s/Owner requirements and policies on environmental management, safety and health and Malaysian Statutory requirement that applicable to the works. ▪ Implement the specific EMP. ▪ Ensure all environmental management procedures defined in EMP is adhered to; <ul style="list-style-type: none"> ○ Adhere to the requirements of all areas of environmental management set out in the contract document and this EMP including, understand, communicate, train through site inductions and delegate the Project environmental responsibilities to the Project team; |

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| | <ul style="list-style-type: none"> ○ Communicate with Client on environmental matters, potential problem areas and obtain agreement to proceed with the proposed work in environmentally sensitive areas; ○ Report progress and environmental issues via the monthly report; ○ Be responsible for all site environmental matters. <ul style="list-style-type: none"> ▪ Ascertain potential hazards or processes before commencement of work and inform all site staff and owner accordingly; <ul style="list-style-type: none"> ○ To ensure that all contractors/ vendors comply to their obligations under current legislation, codes of practice, conditions of contract and follow all environmental requirements as stated in this EMP; ○ Ensure that a safe system or work is established and maintained by the Engineers / Supervisors / Vendors and employees at the worksite; ○ To coordinate with EHS Lead on safety and health matters. ○ To coordinate with the Environmental Officer on environmental matters; and ○ To attend and chair Environment, Health & Safety Committee meeting regularly. |
| <p style="text-align: center;">Environmental Officer</p> | <ul style="list-style-type: none"> ▪ A competent Environmental Officer (EO) has been appointed in line with the requirement stated in the Environmental Quality Act 1974. Please refer to Appendix-III for the certification. ▪ The EO is responsible of the following tasks: <ul style="list-style-type: none"> ○ Provide advice to the management team on environmental regulatory and compliance issues; ○ Provide technical advice to the engineering and construction teams on the implementation of mitigation measures in EMP; ○ Act as a liaison person with environmental-related authorities on environmental matters at the work sites; |

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| | <ul style="list-style-type: none"> ○ Adhere to all associated requirements stipulated in the Environmental Quality Act 1974 and associated regulations; ○ Implement and monitor the EMP on site and recommend any monitoring and mitigation amendments to the plan where necessary to the Environmental Consultant; ○ Supervise the erosion and sediment control works on site as stated in the LD-P2M2; ○ Conduct physical site environmental inspections at each work areas that covers the pollution control measures as well as the BMPs components which may include perimeter drain, check dam, silt trap, wash trough, slope protection etc. on a daily basis and recorded in site diary. The summary of inspection findings and status shall be incorporated in the Monthly Environmental Report. ○ Conduct measurement and analysis of the in-situ parameters of turbidity and total suspended solids (TSS) at the final discharge point of silt traps/sediment basins not exceeding 30 minutes after every rainfall. If there is continuous rainfall exceeding 24 hours, the analysis shall be carried out once every day (failure to comply must be stated with concrete and reasonable evidence); ○ Ensure good housekeeping practices based on the “5S” concept (sort, set in order, shine, standardize and sustain) be implemented on site; ○ Conduct Environmental Awareness/Induction Briefing to new employees; ○ Limit any Project activities if potential or presenting environmental issues are identified until rectified; ○ Ensure all work crews working on the Project are inducted in Project environmental procedures and are aware of any changes to the EMP or associated procedures, as necessary; and |
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SECTION 4: ENVIRONMENTAL QUALITY MONITORING

4.1 Environmental Quality Monitoring

The Environmental Quality Monitoring will be conducted on monthly basis for river water quality, ambient air quality, and environmental noise levels in accordance with the approved Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) of NCIP Development. The monitoring stations for air, noise, and water quality were revised following discussions with the Department of Environment (DOE) to better reflect the current stage of project development. The project, entitled “Pembangunan Pusat Data (Data Centre) Di Atas PTD 227195 Dan PTD 227196, Jalan Mega 1, Kawasan Perindustrian Nusa Cemerlang, Mukim Pulau, Iskandar Puteri, Daerah Johor Bahru, Johor Darul Takzim,” is an EIA-prescribed activity with the EMP approved by DOE Johor on 11 September 2008 and Kebenaran Merancang (KM) approved by MBIP on 10 December 2022. In compliance with the EIA and EMP Conditions of Approval, the Project Proponent is required to conduct and submit monthly environmental monitoring reports covering water quality, ambient air quality, and noise levels to DOE Johor.

4.2 Environmental Quality Monitoring Location

Environmental Monitoring Program will be carried out by monthly basis consist of Ambient Air Quality, Noise Level measurement and Water Quality monitoring.

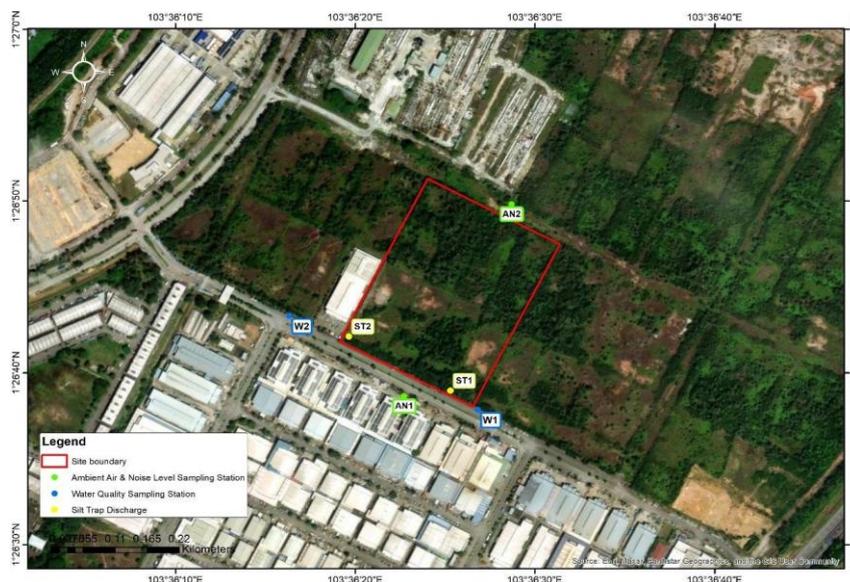


Figure 4.1: Location of Sampling Points

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4.3 Air Quality Monitoring

Air Quality sampling for this Project will be sampled monthly at two (2) sampling points at the Project boundary and sensitive receptors nearest to the Project site. The sampling locations are shown in Figure 2 and described in Table 1.

Table 4.1: Air Quality Sampling Point Locations

| Sampling Point | Description | Coordinate |
|----------------|---|--------------------------------|
| A1 | Boundary Project Site (nearest other industrial area) | 1°26'38.64"N 103°36'22.73"E |
| A2 | Boundary Project Site (nearest other industrial area) | 1°26'49.82"N 103°36'28.70"E |

4.4 Noise Level Monitoring

Noise Level measurement will be sampled monthly at two (2) selected sampling points at the project boundary and nearest sensitive receptors as well to identify significant sources of noise in the surrounding environment. Sampling locations are shown in Figure 2 and described in Table 2.

Table 4.2: Noise Level Sampling Point Locations

| Sampling Point | Description | Coordinate |
|----------------|--|--------------------------------|
| N1 | Boundary Project Site (nearest others industrial area) | 1°26'38.64"N 103°36'22.73"E |
| N2 | Boundary Project Site (nearest others industrial area) | 1°26'49.82"N 103°36'28.70"E |

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4.5 Water Quality Monitoring

Water Quality sampling for this Project will be sampled at two (2) sampling points located upstream and downstream of the Project site. Silt Trap discharge from project site were also sampled at two (2) sampling points.

The locations of the sampling points are shown in Figure 4.1 and described in Table 4.3.

Table 4.3: Water Quality Sampling Point Locations

| Sampling Point | Description | Coordinate |
|----------------|--|--------------------------------|
| W1 | Upstream of project site public | 1°26'37.85"N 103°36'26.83"E |
| W2 | Downstream of project site public | 1°26'43.32"N 103°36'16.32"E |
| ST1 | Water crossing from opposite direction; boundary of site project | 1°26'38.96"N 103°36'25.30"E |
| ST2 | Water crossing Second Link Expressway; boundary of site project | 1°26'42.11"N 103°36'19.65"E |

Table 4.4: List of Parameters

| Parameter | NWQS Class III |
|----------------------------------|----------------|
| pH (in-situ) | 5-9 |
| Temperature, °C (in-situ) | Normal + 2 °C |
| Dissolved Oxygen, mg/L (in-situ) | 3-5 |
| Turbidity, NTU (in-situ) | 250.0 |
| COD, mg/L | ≤ 50 |
| BOD ₅ at 20°C, mg/L | ≤ 6 |
| Total Suspended Solids, mg/L | ≤ 150 |
| Oil & Grease, mg/L | N |
| Ammoniacal Nitrogen, mg/L | ≤ 0.9 |
| Total Coliform, CFU/100mL | 50 000 |

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4.6 Methodology

4.6.1 Air Quality Monitoring and Analysis

This study will provide data for the Particulates Matter 10µm (PM 10), and Particulates Matter 2.5µm (PM2.5), contents generated from the surrounding areas at the selected points.

The environmental air samples will be collected from the selected points by drawing the air from surrounding area through the absorbing media via a precalibrated portable pump stationed at the fixed points. For PM 10 and PM 2.5., the air samples were collected using the MiniVol TAS Portable Tactical Air Sampler Gravimetric Method. The air samples will be collected then brought back to the laboratory for further analysis

4.6.2 Noise Level Sampling and Analysis

Noise level will be measured with appropriate sound level meter. The instrument is high precision sound level meter, Tenmars, SoundTEK ST-109 Class 1 Sound Level Meter. The sound level meter consists of a microphone, electronic circuits and a readout display.

The instrument will be mounted on a tripod with approximately 1 to 1.5 meter above ground, and the meter will be set to fast time response and A-weighted frequency response. Noise level is generally taken as the L_{Aeq} (Equivalent A-Weighted Continuous Sound Level). The measurement results are displayed in decibels (dB). The measurement is direct reading from sound level meter.

4.6.3 Water Quality Sampling And Analysis

Water samples will be collected from river and final discharge from project site. The sample will be taken using grab sample and will be sent to ALS Technichem (M) Sdn. Bhd., a 'Skim Akreditasi Makmal Malaysia' (SAMM No.047) an accredited laboratory for water quality analysis. In-situ measurements for parameter pH, Dissolved Oxygen and temperature will be conducted by using Hanna Instruments, HI98196 Multiparameter pH/ORP/DO/Pressure/Temperature Waterproof Meter.

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SECTION 5: EROSION AND SEDIMENT MANAGEMENT PLAN

5.1 Erosion and Sediment Management Plan

Soil erosion may result from the earthworks activities at site which can potentially disturb the soil structure leading to lose soil spots which are subjected to rain impact and subsequently unbridled surface runoffs. Soil erosion will lead to sedimentation in the receiving waterways, thus deterioration of the water quality therein. In minimising soil erosion and sedimentation, priority should be given to preventive rather than treatment measures. Refer Appendix – IV for the Approved ESCP.

Table5.1: Pollution Prevention and Mitigation Measures (P2M2)

| No. | Pollution Prevention and Mitigation Measures (P2M2) | Responsible Party |
|-----|---|--|
| 1. | Sediment control measures such as check dams, temporary perimeter earth drains, silt fences, check dams, silt traps / sedimentation ponds / sediment basin, and wheel washing facilities shall be constructed in accordance with the approved ESCP prior to commencement of works and shall be maintained at all times. | Project Director, Project Manager |
| 2. | Surface runoff control, erosion control and sediment control shall be implemented effectively and maintained as detailed in the EMP and complies with ESCP. | Project Manager, Environmental officer |
| 3. | BMPs for erosion control and sedimentation should be provided in each of the areas that are likely to cause erosion and silt issues, including areas with space constraints, workspace and mitigation space. | Project Manager, Environmental officer |
| 4. | Exposed soil areas shall be compacted and graded after placement of the fill to channel surface run-off. | Project Manager, Environmental officer |
| 5. | All excavation works to be stabilized as rapidly as possible and suitable drainage to be installed | Project Manager |
| 6. | Sand/soil/spoil materials placed closer than 2 m from hazard areas will be removed. Such hazard areas include | Project Manager, Environmental officer |

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| | any areas of high velocity water flows, paved areas and driveways. | |
| 7. | External flows originating offsite shall be temporarily diverted around the site. | Environmental officer |
| 8. | All erosion and sediment control measures will be kept in good working condition until all earthwork activities are completed and the site is stabilized. | Project Manager, Environmental officer |
| 9. | Any pollutant removed from the sediment pond will be disposed off in areas where further pollution to down slope lands and waterways should not occur. | Project Manager, Environmental officer |
| 10 | Cleared vegetation and debris is not to be deposited or pushed into watercourses. | Project Manager, Environmental officer |
| 11 | Temporary erosion protection for exposed slopes under construction shall be provided until such time when the permanent protection measures are provided. Permanent erosion protection shall be completed after reaching the required formation levels. | Environmental officer |
| 12 | Permanent erosion protection measures shall comprise, but not limited to close turfing or geotextile together with hydroseeding. | Project Manager, Environmental officer |
| 13 | Temporary earth slopes that are to be exposed shall be covered immediately upon formation with geotextile. The geotextile shall be secured to the slope(s) by suitable fasteners in accordance with the manufacturer's recommendation. Where such slopes will remain unmodified for periods longer than 4 months, they shall be hydroseed. | Environmental officer |
| 14 | Surface of construction area to be properly compacted to ensure that the soil particles are not readily eroded by runoff. | Project Manager, |
| 15 | Maintenance of temporary drainage shall be carried out regularly by removing the accumulated sediments manually. | Project Manager, Environmental officer |

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| 16 | The effectiveness of the drainage system shall be checked during all rain events and promptly rectified if required. | Project Manager, Environmental officer |
| 17 | Maintenance of the silt fence shall be conducted regularly by removing the accumulated sediments manually. | Environmental Officer |
| 18 | Provision of wash trough at the ingress/egress point. | Environmental Officer |
| 19 | All construction vehicles shall have their wheels washed at a wheel washing facility before leaving the site onto public roads. | Environmental Officer |
| 20 | Wheel washing facility shall be properly managed and maintained to ensure that the immediate public road is clean and free from construction dirt (earth, debris, etc.). This may include cleaning and sweeping such areas. | Environmental Officer |
| 21 | All components of Best Management Practices (BMPs) must be inspected daily and should be maintained where necessary. Such inspections and maintenance shall be recorded. | Environmental Officer |
| 22 | Rainfall events 12.5mm required BMP inspections (immediately or 30 minutes after heavy rain event) and ESC online reporting. Environmental Officer | Rainfall events 12.5mm required BMP inspections (immediately or 30 minutes after heavy rain event) and ESC online reporting. Environmental Officer |

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SECTION 6: ENVIRONMENTAL IMPACTS AND CONTROL MEASURES

This section depicts all the project activities involved in the construction and completion of the project. A summary of the major potential impacts caused to the existing environment and the environmental issues concerned during the construction of the project and its appropriate pollution prevention to be implemented are present in Table 6.1. The proposed mitigation measure shall be implemented before earthwork is started as per the implementation table provided.

Table 6.1: Proposed pollution prevention for the construction phase of the project

| LD-P2M2 | Description | Implementation Scheduled |
|---------------------------------------|---|---|
| Runoff Management | <ul style="list-style-type: none"> ▪ Ensure no direct discharge of surface runoff into the public drain or marine. | <ul style="list-style-type: none"> ▪ Throughout the construction phase |
| Erosion Control | <ul style="list-style-type: none"> ▪ Install wash trough. ▪ Conduct street sweeping. | <ul style="list-style-type: none"> ▪ Throughout the construction phase ▪ At least twice a day |
| Site Inspection | <ul style="list-style-type: none"> ▪ Site inspection shall be conducted to check and to ascertain that all the proposed P2M2s have been properly installed and maintained. | <ul style="list-style-type: none"> ▪ Throughout the construction phase |
| Maintenance and Monitoring | <ul style="list-style-type: none"> ▪ Maintenance and monitoring on the performance of the installed BMPs such as silt fence, silt trap, slope protection and check dam shall be conducted. | <ul style="list-style-type: none"> ▪ As soon as BMPs installed/ applied and continue throughout the construction until the permanent measures are established and functioning. |
| Chemicals, Fuel and Wastes Management | <ul style="list-style-type: none"> ▪ The areas of inspection include the sanitary facilities, solid waste and scheduled wastes storage area. ▪ Chemical, fuel and wastes management at all areas within the | <ul style="list-style-type: none"> ▪ Throughout the construction phase. |

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| | project site should be visually inspected by the EO on daily basis. | |
|--|---|--|

6.1 Pollution Prevention and Mitigation Measures (P2M2)

The project owner/contractors/vendors should implement all pollution prevention and mitigation measures (P2M2) on site to ensure raw materials, chemicals, non-scheduled wastes, scheduled wastes and sewage are properly managed during the construction phase as recommended in Table 7.2.

Table7.2: Pollution Prevention and Mitigation Measures (P2M2) Proposed for the Construction Phase of the Project

| Aspect | P2M2 |
|---------------------------------------|--|
| Chemical and Fuel Management | <ul style="list-style-type: none"> ▪ Fuel and chemical storage tanks and drums/containers at the project site must be placed within a properly designed and constructed storage area, which is away from any watercourses/waterways. ▪ Fill the fuel and chemical containers are to be temporarily placed outside of the proper storage area, drip trays shall be constructed to contain any spills on the soils. ▪ The physical barrier should be sufficiently high to contain 110% of the largest container's capacity when the fuel or chemical is spilled. ▪ Pumping facility and spill kit shall be provided at the storage areas to clean the spilled/leaked liquid. |
| Non-Scheduled Solid Wastes Management | <ul style="list-style-type: none"> ▪ Disposal of any non-hazardous solid waste (e.g. construction wastes, demolition wastes, domestic wastes, etc.) into any water courses or illegal dumpsite is prohibited. ▪ Good housekeeping practices shall be implemented at all times. ▪ Prohibit open burning of solid wastes including biomass. ▪ All non-hazardous solid wastes are to be temporary disposed at the designated waste disposal areas within the project site and |

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| | <p>finally disposed to landfill/dumpsite approved by the Local Authority.</p> <ul style="list-style-type: none"> ▪ Wastes segregation is required to be carried out and clearly labelled (i.e. domestic waste, construction waste, etc.). ▪ Domestic waste shall be collected in covered garbage bins. |
| <p>Scheduled Wastes Management</p> | <ul style="list-style-type: none"> ▪ Scheduled waste shall be collected by a DOE licensed scheduled waste contractor for treatment, recovery or disposal at premises licensed by the DOE. These scheduled wastes generated from the project site will likely include the following categories as shown in Waste Management Plan. ▪ Scheduled wastes management on-site shall comply with the Environmental Quality (Scheduled Waste) Regulations 2005. ▪ DOE Johor shall be notified of the scheduled waste category and quantity, within 30 days from its generation, by using electronic scheduled waste information systems (eSWIS). ▪ The inventory and information of schedule wastes (consignment note) in accordance with the Fifth Schedule and Sixth Schedule of the Environmental Quality (Scheduled Waste) Regulations 2005 shall be updated and recorded in the eSWIS. ▪ Scheduled wastes shall be stored in containers which are compatible with the scheduled wastes to be stored, durable and able to prevent spillage or leakage. ▪ The scheduled waste containers shall be clearly labelled with: <ul style="list-style-type: none"> ○ The date when its first generated; ○ Waste generator's name, address and contact number. ○ The type of scheduled wastes as specified in Third Schedule of Environment Quality (Scheduled Wastes) Regulations 2005. ○ Scheduled waste code as specified in the First Schedule of Environment Quality (Scheduled Wastes) Regulations 2005. ▪ Containers containing scheduled wastes shall always be closed during |

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| Scheduled Wastes Management (Cont.) | <p>storage except when it is necessary to add or remove the scheduled wastes.</p> <ul style="list-style-type: none"> ▪ Areas for storage of the containers shall be designed, constructed and maintained in accordance with the Guidelines for Packaging, Labelling and Storage of Scheduled Wastes in Malaysia (DOE, 2014) to prevent spillage/leakage. ▪ All scheduled wastes shall be stored within a bunded area with concrete base and pump facility for spillage control. The bunded area shall be capable to contain 110% storage capacity of the largest container. ▪ Incompatible scheduled wastes shall be stored in separate containers, and such containers shall be placed in separate secondary containment areas. ▪ All scheduled waste shall be disposed of by a DOE licensed scheduled waste contractor within 180 days after its generation or when its accumulated quantity reaches 20 metric tons. ▪ Scheduled waste inventory that is up-to-date and accurate in accordance with the Fifth Schedule of Environmental Quality (Scheduled Wastes) Regulations 2005 shall be kept for a period up to three years from the date the scheduled waste was generated. ▪ All scheduled wastes shall be handled by trained personnel following proper handling procedures such as proper identification, packaging, labelling, transportation and disposal of the wastes. ▪ Scheduled wastes storage area shall be a restricted area and only authorized persons are allowed to enter the area. ▪ Disposal of any scheduled waste into any watercourse is prohibited. |
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SECTION 7: WASTE MANAGEMENT PLAN

7.1 Waste Management at Site

Construction wastes are expected to be generated as result of site clearing, earthwork and construction activities at the Project site. Some demolition works of existing structures at site are anticipated. Solid waste such as plastic wrappers, plastic bags, paper and aluminium generated particularly from workers resting area need to be handled with proper management.

Scheduled waste shall be managed in accordance with the requirements of the Environmental Quality (Scheduled Wastes) Regulations 2005 and the “Guidelines for Packaging, Labelling and Storage of Scheduled Wastes in Malaysia” to minimise the health risk as well as to prevent deterioration of environmental quality.

7.2 Objectives

The objectives of the Waste Management Plan are as following:

- I. To minimize waste generation
- II. To improve segregation practices by ensuring that scheduled and non-scheduled wastes are appropriately identified and managed

7.3 Waste Type and Handling Procedures

Particularly in regulatory frameworks, waste can be classified into Scheduled waste and Non-scheduled waste. This distinction is critical for ensuring appropriate handling, treatment, and disposal of different types of waste materials.

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Table7.1: Type of waste

| Waste Type | Description | |
|-----------------------------|---|--------------------|
| Non - Scheduled Waste | Non-scheduled waste refers to general waste that does not fall under the category of hazardous waste. This type of waste typically does not pose a significant risk to human health or the environment. | Domestic waste |
| | | Biomass waste |
| | | Construction waste |
| | | Sewage |
| Scheduled Waste | Scheduled waste refers to waste materials that are hazardous or potentially harmful to human health and the environment, and which require special handling, treatment, and disposal procedures. | First scheduled |

7.3.1 Non - Scheduled Waste

- i. Domestic waste
- ii. Biomass waste
- iii. Construction waste
- iv. Sewage

7.3.2 Scheduled Waste

A Waste Management Plan (WMP) is a structured approach to managing waste generated by a project or activity, aiming to minimize its environmental impact. According to Environmental Quality (Scheduled Wastes) Regulations 2005 which comes into operation on 15th August 2005, scheduled wastes are to be managed according to these steps:

- I. Identification of Scheduled Waste according to First Schedule
- II. Notification of Scheduled Waste according to Second Schedule
- III. Packaging and Labelling of Scheduled Waste according to Third Schedule
- IV. Storage of Scheduled Waste
- V. Inventory of Scheduled Waste according to Fifth Schedule
- VI. Disposal of Scheduled Waste

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Table 7.2: Summary of waste handling procedures

| No. | Type of Waste | Specific types (origin) | Handling Procedures | Legal and other Requirements | Waste Contractor | Approved Landfill / Licensed premise |
|-----|----------------|-----------------------------------|--|---|------------------|--------------------------------------|
| 1 | Domestic waste | Food containers, plastics, bottle | <ul style="list-style-type: none"> ▪ Domestic waste is segregated, stored and disposed of in accordance to EMP. ▪ Waste is collected and removed from work areas on daily basis. ▪ Accumulation of waste in the work areas shall be prohibited. ▪ Collection and storage facilities shall be fenced and provided with appropriated signage. ▪ Open burning is strictly prohibited within site area. ▪ Waste that can be recycle shall be separated and the recycle bin shall be provided at site as shown in as below: | <ul style="list-style-type: none"> ▪ Environmental Quality (Declared Activities) (Open Burning) Order 2003 | TBA | TBA |

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| | | |  | | | |
| 2 | Construction waste | Concrete debris, wood, timber, used rebar | <ul style="list-style-type: none"> ▪ Wood shall be reused. Metal, glass and plastic waste shall be recycled. All recyclable waste shall be cleaned. ▪ Timber, metal and rebars shall be segregated and stored as reused and recycled waste at the site. ▪ Waste with sharp edges shall be stored in specially designed containers that are manufactured for that purpose. ▪ Frequency of disposal: Weekly or when required. | <ul style="list-style-type: none"> ▪ Environmental Quality (Declared Activities (Open Burning) Order 2003 ▪ Environmental Quality (Control of Pollution from Solid Waste Transfer Station Waste Transfer Station and Landfill; | Ban Heng Trading Sdn Bhd | TBA |

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| | | |  | <ul style="list-style-type: none"> Street, Drainage and Building Act, 1974 (Act 171); | | |
| 3 | Sewage | Portable toilets | <ul style="list-style-type: none"> Desludging of the portable toilet 2 times per week. The number of portable toilets provided at site is depending on the number of workers / PE at site within a period of time. Portable toilet shall be regularly maintained and emptied by a licensed service provider Example of the portable toilet as in below: | <ul style="list-style-type: none"> Environmental Quality Act 1974; Environmental Quality (Sewage) Regulation 2009; Street, Drainage and Building Act, 1974 (Act 133); | Southern Green Environment Services | TBA |

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| | | |  | | | |
| 4 | Scheduled waste | Contaminated soil, used lubricating oil, Contaminated container | <ul style="list-style-type: none"> ▪ A competent person, Certified Environmental Professional in Scheduled Waste Management (CepSWaM) shall manage the scheduled waste at site. ▪ Scheduled waste will only be disposed of by DOE licensed contractors and at an approved facility. ▪ A specific waste storage area, with proper label, clean and tidy at all time shall be provided. ▪ Notification, inventory and consignment notes of scheduled waste will be done using electronic scheduled waste information system (Eswis). | <ul style="list-style-type: none"> ▪ Environmental Quality (Scheduled Waste) Regulations 2005; | Vast Evolve Sdn Bhd | Vast Evolve Sdn Bhd, PLO 582, Jalan MIEL 2, Kawasan Perindustrian MIEL, 81700 Pasir Gudang, Johor, |

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|--|--|--|--|--|--|--|
| | | | <ul style="list-style-type: none"> ▪ Hardcopy will be retained at site for site inspection and audit purposes. ▪ Bund shall be built around storage tanks of chemicals and petroleum materials. The bund built must be able to accommodate at least 110% of the largest tank content in the bund. ▪ The base of the tank shall be made of concrete or impermeable material and facilities for re -pumping the spilled material shall be provided. ▪ Chemical and petroleum storage tanks shall not be placed in inland waters reserves or set back Malaysian waters. ▪ All transfer points for chemicals, petroleum and scheduled waste must be constructed of concrete and have facilities to channel and collect spillage materials such as collection sump. Any spillage of chemicals, petroleum and scheduled | | | |
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| | | | wastes on land must be managed in accordance with the Guidelines for the Management of Contaminated Land issued by the DOE. | | | |
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SECTION 8: TRAINING REQUIREMENT

8.1 Proposed Training Plan

Apart from instilling environmental awareness, the project site management team shall educate and trained the employees in matters maintaining good environmental management practices throughout the construction period. Training will be conducted at least once for all staffs and each attendance will be recorded. The proposed training plan are as follows:

Table8.1: Proposed Training Plan

| Training | Scope of Training | Target Participants | Trainer |
|------------------------------|--|---------------------|--|
| Induction | <ul style="list-style-type: none"> ▪ Company rules and regulations ▪ Organization chart ▪ Job responsibility and authority ▪ Environmental Management Plan | New employees | <ul style="list-style-type: none"> ▪ Environmental Officer ▪ Experienced personnel |
| Environmental Awareness | <ul style="list-style-type: none"> ▪ Environmental Policy ▪ Environmental objectives ▪ Staff's contribution to satisfy the policy and objective | All employees | <ul style="list-style-type: none"> ▪ Environmental Officer ▪ Experienced personnel |
| Site Environmental Induction | <ul style="list-style-type: none"> ▪ Prevention of pollution to air, water, soil and noise and vibration ▪ Prevention of oil spillage ▪ Usage of portable toilet ▪ Control of open burning ▪ Site cleanliness | All employees | <ul style="list-style-type: none"> ▪ Environmental Officer ▪ Experienced personnel |
| Tool Box Meeting | <ul style="list-style-type: none"> ▪ Special skills related to job function | All employees | <ul style="list-style-type: none"> ▪ Environmental Officer |

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|------------------------------|--|-----------------------|--|
| | <ul style="list-style-type: none"> ▪ Daily site environmental issues ▪ Housekeeping and hygiene ▪ P2M2 related to job function | | <ul style="list-style-type: none"> ▪ Experienced personnel |
| Hazardous Waste Management | <ul style="list-style-type: none"> ▪ Scheduled waste management | All employees | <ul style="list-style-type: none"> ▪ Environmental Officer ▪ Experienced personnel |
| Legal and Other Requirements | <ul style="list-style-type: none"> ▪ General legal and other requirements ▪ Related legislation – Environmental Quality Act 1974 (Act 127) ▪ Practices to compliance of legislations | All employees | <ul style="list-style-type: none"> ▪ Environmental Officer ▪ Experienced personnel |
| Competency Training | <ul style="list-style-type: none"> ▪ Certified Environmental Professional in Scheduled Waste Management (CePSWaM) ▪ Certified Professional Environmental Officer in EIA Project Development and Operation (CePEOEIA) | Environmental Officer | Environment Institute of Malaysia (EiMAS) |
| | <ul style="list-style-type: none"> ▪ Certified Erosion, Sediment and Storm Water Inspector (CESSWI) | Environmental Officer | Malaysian Stormwater Organisation (MSO) |

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This training programmed features the following:

- i. A directive that requires every employee to know their respective responsibilities as stated in Environmental Management Plan (EMP).
- ii. Every employee is instructed to be familiar with common sources of environmental pollution.
- iii. Every employee is trained to know the act that related to the environment.
- iv. Every employee is trained to be familiar with the cleanliness at workplace.
- v. To develop their understanding on environmental issues at workplace
- vi. To identify the key environmental issues at site, what are the legal obligations and how environmental improvements could be made
- vii. To develop their understanding on how the construction field has developed impacts on the resources used, air emissions, water pollution, waste and ecology.

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SECTION 9: CONCLUSION

In conclusion, the implementation of the Environmental Management Plan (EMP) is crucial for promoting sustainable development and mitigating the environmental impacts of projects. This plan serves as a strategic framework that integrates environmental considerations into all phases of project planning, execution, and decommissioning.

The success of an EMP depends on the commitment of all stakeholders, including project developers, government agencies, local communities, and environmental experts. Active participation and transparent communication among these groups are essential for achieving the environmental objectives outlined in the plan.

Ultimately, the diligent execution of an Environmental Management Plan represents a vital step towards ensuring that development projects contribute positively to the environment, creating a legacy of sustainability for future generations.

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APPENDIX – I

CONSTRUCTION DRAWINGS

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APPENDIX – II

ORGANIZATION CHART OF PMX MALAYSIA SDN BHD

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APPENDIX – III

ENVIRONMENTAL OFFICER (EO) COMPETENCY

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2. Certified Erosion, Sediment and Storm Water Inspector (CESSWI)



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2. Certified Environmental Professional in Scheduled Waste Management (CePSWaM)

NO. SIRI : CePSWaM/05716





**INSTITUT ALAM SEKITAR MALAYSIA
JABATAN ALAM SEKITAR**

Sijil Kompetensi

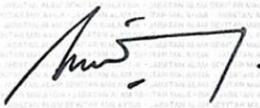
Dengan ini disahkan bahawa

NOR AIN FATIHAH MOHD AZIZI
960819-05-5498

telah memenuhi segala kriteria yang ditetapkan oleh

Jabatan Alam Sekitar Malaysia

Sebagai
Competent Person
Certified Environmental Professional In Scheduled Waste Management (CePSWaM)



DATO' WAN ABDUL LATIFF BIN WAN JAFFAR
Ketua Pengarah Alam Sekitar Malaysia



Dianugerahkan pada : 14 September 2023

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APPENDIX – IV

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(AS. 2-Pin.2/B6)



JABATAN ALAM SEKITAR
LESEN

SEBAGAIMANA DIKEHENDAKI OLEH SEKSYEN 18(1A)
AKTA KUALITI ALAM SEKELILING 1974

No.006352

LESEN ini dikeluarkan di bawah Seksyen 11, Akta Kualiti Alam Sekeliling 1974 kepada **VAST EVOLVE SDN. BHD.**

yang tinggal di **Vast Evolve Sdn. Bhd.
PLO 582, Jalan MIEL 2
Kawasan Perindustrian MIEL
81700 Pasir Gudang, Johor**

Dan memberikuasa kepada pemegang lesen ini untuk **Pembawa Yang Ditetapkan, Kenderaan Bagi Tujuan Pengumpulan, Pemindahan dan Pengangkutan Buangan Terjadual**

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Tarikh 24/11/2019


 Ketua Pengarah Kualiti Alam Sekeliling
 PENGARAH
 JABATAN ALAM SEKITAR NEGERI JOHOR

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TARIKH TAMAT TEMPOH DAN BAYARAN-BAYARAN

| | |
|--|--|
| 1. Tempoh Lesen : 1 Mei 2019 hingga 30 April 2020 Jumlah Bayaran : RM 100.00 Tarikh Bayaran : 17 Jan 2019 Pegawai Bertugas : PPK Nurul Atiqah binti Zakaria | 6. Tempoh Lesen : 1 Mei 2024 hingga 30 April 2025 Jumlah Bayaran : RM 100.00 Tarikh Bayaran : 30 Januari 2024 Pegawai Bertugas : PJ Mohd Aminullah bin Musa |
| 2. Tempoh Lesen : 1 Mei 2020 hingga 30 April 2021 Jumlah Bayaran : RM 100.00 Tarikh Bayaran : 22 Januari 2020 Pegawai Bertugas : PPK Siti Hajar Bt Md Zan | 7. Tempoh Lesen : 1 Mei 2025 hingga 30 April 2026 Jumlah Bayaran : RM 100.00 Tarikh Bayaran : 24 Januari 2025 Pegawai Bertugas : PPK Nur Nadiah binti Tohak |
| 3. Tempoh Lesen : 1 Mei 2021 hingga 30 April 2022 Jumlah Bayaran : RM 100.00 Tarikh Bayaran : 31 Januari 2021 Pegawai Bertugas : PPK Mohd Rosnaldi | |
| 4. Tempoh Lesen : 1 Mei 2022 hingga 30 April 2023 Jumlah Bayaran : RM 100.00 Tarikh Bayaran : 25 Januari 2022 Pegawai Bertugas : PPK Nur Nadiah | |
| 5. Tempoh Lesen : 1 Mei 2023 hingga 30 April 2024 Jumlah Bayaran : RM 100.00 Tarikh Bayaran : 25 Januari 2023 Pegawai Bertugas : PPK Nur Nadiah | |

PERTUKARAN-PERTUKARAN MILIKAN DAN SYARIKAT

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| | No. K.P./Daf. Niaga/Sykt | Tandatangan Pemunya Berdaftar |
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JABATAN ALAM SEKITAR

LESEN

No.006351

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Tarikh **24/11/2019**


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| 5. Tempoh Lesen : 1 Mei 2023 hingga 30 April 2024 Jumlah Bayaran : RM 100.00 Tarikh Bayaran : 26 Januari 2023 Pegawai Bertugas : PPK Nur Nadiah | |

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APPENDIX – V

CERTIFICATE OF ANALYSIS AMBIENT AIR QUALITY & NOISE LEVEL

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CERTIFICATE OF ANALYSIS

| | |
|---|--|
| Work Order : JB2508819 | Page : 1 of 4 |
| Client : ENVECO CONSULTANCY | Laboratory : ALS Technichem (M) Sdn. Bhd. |
| Contact : Firdaus | Contact : ChM. Muhamad Farid Bin Mohammed Noh |
| Address : No 21, Jalan Gunung Pulai 9, Precint Gunung Pulai, Bukit Pelai @ Pengerang, Pengerang, Johor 81600 | Address : No. 19, Jalan Kencana Mas 1/1, Tebrau Business Park Taman Daya Johor Malaysia 81100 |
| E-mail : envecoconsultancy@gmail.com | E-mail : farid.noh@ALSGlobal.com |
| Telephone : 60 11-5408 5583 | Telephone : +607 3549604 |
| Facsimile : --- | Facsimile : +607 3549554 |
| Project : PMX | QC Level : ALS Malaysia Standard Quality Schedule |
| Order number : --- | Date Samples Received : 14-Nov-2025 12:00 |
| C-O-C number : --- | Date Analysis Commenced : 24-Nov-2025 |
| Sampler : AMIR FAUZI | Issue Date : 25-Nov-2025 18:24 |
| Site : --- | |
| Quote number : JB2024ENVECOCONS0001 | No. of samples received : 4 |
| | No. of samples analysed : 4 |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results




SAMM 047

Signatories

This laboratory is accredited under STANDARDS MALAYSIA. The tests reported herein have been performed in accordance with laboratory's Terms of Accreditation. This document has been electronically signed by authorized signatories indicated below. Electronic signing has been carried out in compliance with procedure specified in 21 CFR Part 11.

| Signatories | Position |
|-------------------------------------|--|
| ChM. Muhamad Farid Bin Mohammed Noh | Branch Manager (IKM No : M/4344/7239/15) |

right solutions. right partner.

| |
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| Page : 2 of 4 |
| Work Order : JB2508819 |
| Client : ENVECO CONSULTANCY |
| Project : PMX |



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, ASTM, NIOSH and BS EN. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Key :

- CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
- LOR = Limit of reporting
- ^ = This result is computed from individual analyte detections at or above the level of reporting
- o = ALS is not accredited for these analytes.
- ~ = Indicates an estimated value.

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- In Situ measurement results provided by client
- Result < LOR = Not Detected (ND)
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- This sample is received in ALS Technichem (M) Sdn Bhd, Johor Bahru.

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Project : PMX



Analytical Results

| Sub-Matrix: AIR | | | | Sample ID | | | | | |
|----------------------------|-----------------|-----|-------------------|--------------------|---------------|-------------------|-------------------|-------|-------|
| | | | | Sampling date/time | | A1 | A2 | ---- | ---- |
| | | | | | | 12-Nov-2025 10:00 | 12-Nov-2025 10:00 | ---- | ---- |
| Compound | Method | LOR | Unit | JB2508819-001 | JB2508819-002 | ----- | ----- | ----- | ----- |
| In Situ Measurement | | | | | | | | | |
| Particulate Matter PM2.5 | Direct Analyzer | 1.0 | µg/m ³ | ø 15.0 | ø 10.0 | | | | |
| Particulate Matter PM10 | Direct Analyzer | 1.0 | µg/m ³ | ø 41.0 | ø 26.0 | | | | |

Page : 4 of 4
Work Order : JB2508819
Client : ENVECO CONSULTANCY
Project : PMX



Analytical Results

| Sub-Matrix: NOISE | | | | Sample ID | | | | | |
|--------------------|-------------------------------|------|-------|--------------------|---------------|-------------------|-------------------|-------|-------|
| | | | | Sampling date/time | | N1 | N2 | ---- | ---- |
| | | | | | | 12-Nov-2025 10:00 | 12-Nov-2025 10:00 | ---- | ---- |
| Compound | Method | LOR | Unit | JB2508819-003 | JB2508819-004 | ----- | ----- | ----- | ----- |
| Noise Level | | | | | | | | | |
| Leq | SP21-015 (ISO1996 Part1:2016) | 25.0 | dB(A) | 58.3 | 57.3 | | | | |
| Lmin | SP21-015 (ISO1996 Part1:2016) | 25.0 | dB(A) | 44.4 | 41.4 | | | | |
| Lmax | SP21-015 (ISO1996 Part1:2016) | 25.0 | dB(A) | 64.7 | 58.7 | | | | |

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APPENDIX – VI

CERTIFICATE OF ANALYSIS FOR WATER QUALITY

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CERTIFICATE OF ANALYSIS

| | |
|--|---|
| Work Order : JB2508818 Client : ENVECO CONSULTANCY Contact : Firdaus Address : No 21, Jalan Gunung Pulai 9, Precint Gunung Pulai, Bukit Pelai @ Pengerang, Pengerang, Johor 81600 E-mail : envecoconsultancy@gmail.com Telephone : 60 11-5408 5583 Facsimile : ---- Project : PMX Order number : ---- C-O-C number : ---- Sampler : AMIR FAUZI Site : ---- Quote number : JB2024ENVECOCONS001 | Page : 1 of 3 Laboratory : ALS Technichem (M) Sdn. Bhd. Contact : ChM. Muhamad Farid Bin Mohammed Noh Address : No. 19, Jalan Kencana Mas 1/1, Tebrau Business Park Taman Daya Johor Malaysia 81100 E-mail : farid.noh@ALSglobal.com Telephone : +607 3549604 Facsimile : +607 3549554 QC Level : ALS Malaysia Standard Quality Schedule Date Samples Received : 14-Nov-2025 12:00 Date Analysis Commenced : 17-Nov-2025 Issue Date : 25-Nov-2025 18:24 No. of samples received : 4 No. of samples analysed : 4 |
|--|---|

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results




SAMM 047

Signatories

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| Signatories | Position |
|-------------------------------------|--|
| ChM. Muhamad Farid Bin Mohammed Noh | Branch Manager (IKM No : M/4344/7239/15) |
| ChM. Norain Binti Yahya | Team Leader - Environment (IKM No: M/4233/7042/15) |
| Nur Kahlimah Binti Azman | Team Leader - Microbiology (MJMM No: 0645) |

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| Page : 2 of 3 Work Order : JB2508818 Client : ENVECO CONSULTANCY Project : PMX | |
|---|--|

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, ASTM, NIOSH and BS EN. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
e = ALS is not accredited for these analytes.
~ = Indicates an estimated value.

- ALS TECHNICHEM prepares this Test Report based on the tests requested and on the specific sample(s) submitted for analysis. The significance of this Report is subject to the adequacy and representative character of the sample(s) and to the comprehensiveness of the tests requested or made. ALS TECHNICHEM assumes no responsibility for variations in quality or other characteristics of the product produced or supplied under conditions over which ALS TECHNICHEM has no control.
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T +607 3549604
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Page : 2 of 3
 Work Order : JB2508818
 Client : ENVECO CONSULTANCY
 Project : PMX



Analytical Results

Sub-Matrix: WATER

| Compound | Method | LOR | Unit | Sample ID | | ST1 | ST2 | --- |
|----------------------------|--------------------------|------|-----------|-------------------------|--------------------|-------------------|-------------------|-----|
| | | | | Sampling date/time | Sampling date/time | | | |
| | | | | 12-Nov-2025 10:00 | 12-Nov-2025 10:00 | 12-Nov-2025 10:00 | 12-Nov-2025 10:00 | --- |
| | | | | JB2508818-001 | JB2508818-002 | JB2508818-003 | JB2508818-004 | --- |
| Total Suspended Solids | APHA2540D | 1 | mg/L | 101 | 90 | 7 | 55 | |
| Biochemical Oxygen Demand | APHA5210B | 1 | mg/L | 7 | 7 | | | |
| Chemical Oxygen Demand | APHA5220C | 2 | mg/L | 27 | 22 | | | |
| Oil & Grease | APHA5520B | 1 | mg/L | 1 | 1 | | | |
| Illic Properties | | | | | | | | |
| Ammonia as N | APHA4500 NH3 G | 0.01 | mg/L | 0.06 | 0.58 | | | |
| In Situ Measurement | | | | | | | | |
| Dissolved Oxygen | APHA 4500 O G (In Situ) | 0.01 | mg/L | ø 5.10 | ø 5.40 | | | |
| pH Value | APHA 4500 H+ B (In Situ) | 0.10 | pH Unit | 7.40 | 7.10 | | | |
| Temperature | APHA 2550 (In Situ) | 0.1 | °C | ø 27.2 | ø 27.1 | | | |
| Turbidity | APHA 2130 B (In Situ) | 1 | NTU | ø 115 | ø 98 | ø 9 | ø 50 | |
| Total Coliform Count | MB/17-25 (APHA 9222B) | 1 | CFU/100mL | ø 1.7 x 10 ⁴ | ø <1 | | | |

* - Test is performed in ALS Shah Alam, Malaysia.

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| | | |
|---|--------------------------------------|-----------------------------|
|  | PMX MALAYSIA SDN BHD | Doc. No.: PMX_EHS_P02 |
| | TITLE | Rev. No: 00 |
| | ENVIRONMENTAL MANAGEMENT PLAN | Date:15/01/2025 |
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APPENDIX – VII

APPROVAL LETTER FROM AUTHORITIES

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