

# EXECUTIVE SUMMARY

**01**

## Qualified Person

Ir. Dr. Lee Aik Heng  
(ID No. CEP-C0388)

Raja Rokiah R. Saigon  
(ID No. CEP-C0381)

Linda Geh Guat Yeow  
(ID No. CEP-CS0382)

Lim Sze Fook  
(ID No. CEP-CS0126)

Dr. Khairun Bt. Yahya  
(ID No. CEP-SS0327)

Ir. Lim Sin Poh  
(ID No. CEP-SS0255)

Dato' Ir. Dr. Gue See Sew  
(ID No.: CEP-SS0024)

## Introduction

### Project Title

Proposed Landfill Rehabilitation  
And Land Reclamation Works For  
Mixed Development At Seksyen 8,  
Bandar Jelutong, Daerah Timur  
Laut, Pulau Pinang

### Project Proponent

PLB Engineering Berhad  
1320, Jalan Baru, Taman Chai Leng,  
13700 Prai, Pulau Pinang  
Telephone No.: 04-390 5737  
Facsimile No.: 04-390 5350  
Contact Person: Dato' Siow Kok Yong

## Legislative Requirement

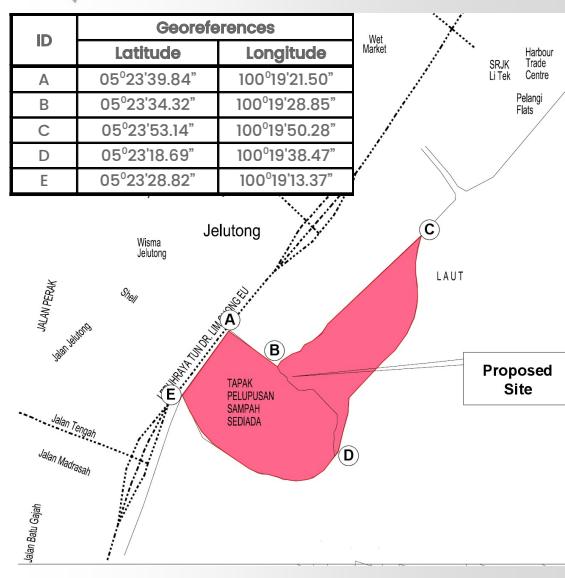
- Prescribed activity under the First Schedule, Activity 7, EIA Order (Environmental Quality (Prescribed Activities) (Environmental Impact Assessment) Order 2015) as the Proposed Project involves land reclamation of 70 acres and First Schedule, Activity 14(b)(ii) of the EIA Order as it involves the recycling of suitable solid wastes
- EIA study required and its report to be approved by the DOE under Section 34A, Environmental Quality Act 1974 prior to the implementation of the Proposed Project

## Statement Of Need

- The Proposed Project is a landfill rehabilitation and land reclamation works for mixed development which aims to provide additional residential units and related facility in Daerah Timur Laut.
- The needs of the Proposed Project is justified as it is in line with the policies outlined in the Twelfth Malaysia Plan and Penang Structure Plan 2030 as well as in line with the need to provide additional health services in Penang.

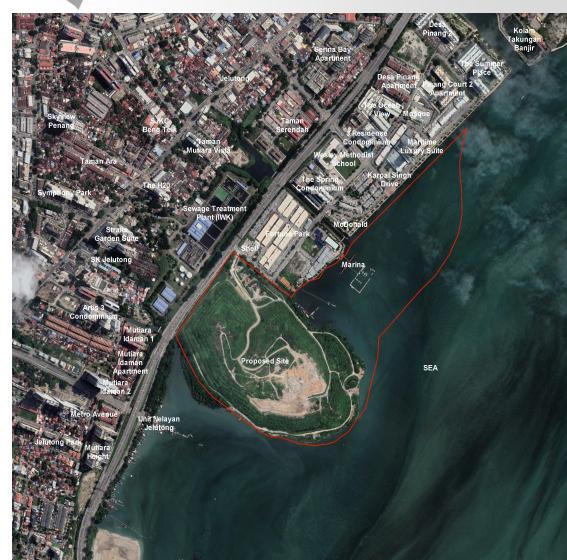
**02**

## Location



**03**

## Sensitive Receptors





## 04

### Project Description

#### Land Area For Development

Proposed Rehabilitation Of Jelutong Landfill – 90 acres  
Proposed Reclamation Land – 70 acres  
Total Area – 160 acres

#### Type of Development

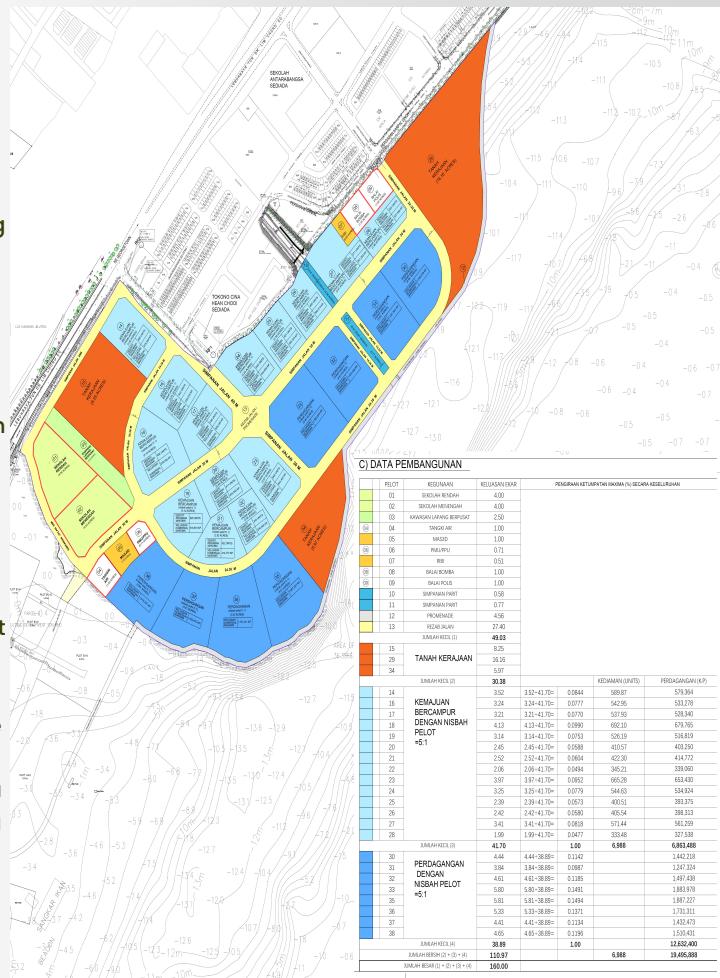
Rehabilitation And Land Reclamation Works

#### Population Equivalent (PE)

93,578 PE

Generally the Proposed Project comprise of:-

- Rehabilitation and development of the existing Jelutong Landfill
- Reclamation and development of a new landmass adjacent to the Jelutong Landfill; and
- Construction of the entire infrastructure for the reclaimed land.

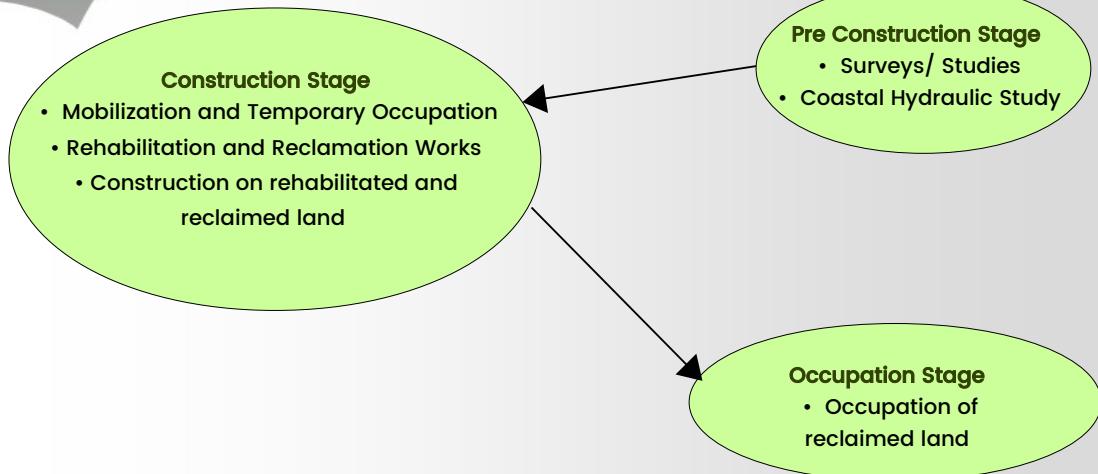


## 05

### Utility Demand And Waste Generation



**06**



**07**

### Existing Environment



# 08

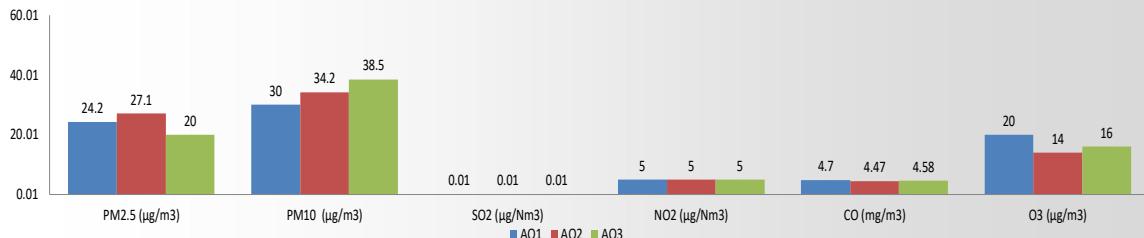
## Existing Environment

### Air Quality

AQ1 – At Mutiara Idaman 1

AQ2 – At Persiaran Karpal Singh

AQ3 – At Persiaran Karpal Singh in the east

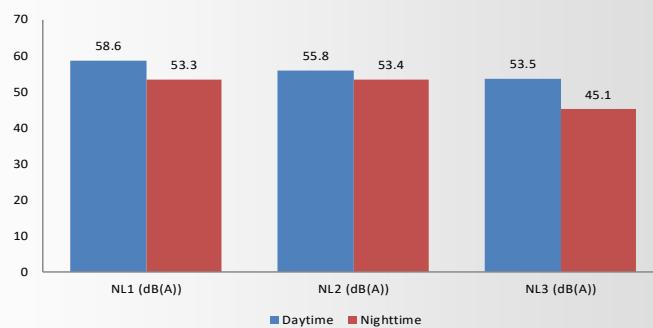


### Noise Levels

NL1 – At Mutiara Idaman 1

NL2 – At Persiaran Karpal Singh

NL3 – At Persiaran Karpal Singh in the east

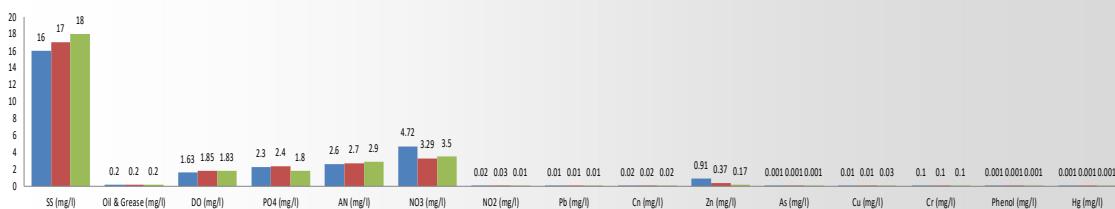


### Drain Water Quality

DW1 – At upstream of drain adjacent to existing land mass

DW2 – At downstream of drain adjacent to existing land mass

DW3 – At downstream od drain adjacebnt to existing land mass





## 09

### Impact And Mitigation Measures

#### During Construction

##### Impacts

- Impacts of gaseous emissions at landfill site;
- Impacts of leachate at landfill site;
- Impacts due to changes in hydraulic and hydrodynamics;
- Impacts on marine resources; and
- Impacts due to heavier marine traffic.

##### Mitigation Measures

- All residual gases to be captured and flared off at site;
- Leachate to be collected for offsite treatment;
- All workers at the rehabilitation site use PPE;
- Silt curtains to be installed to prevent sediment prior entering the sea;
- Adequate signages and movement of vessels during reclamation works to be monitored;
- Recommendations outlined by geotechnical engineers shall be followed accordingly; and
- Strict monitoring and control throughout implementation of Proposed Project.

#### During Operation

##### Impacts

- Impact from the discharge of sewage;
- Impact from domestic solid waste and scheduled waste generation;
- Impact on air quality due to increase traffic; and
- Impact of increased traffic volume.

##### Mitigation Measures

- Collect and convey sewage to existing regional sewage treatment plant in Jelutong according to IWK's requirement;
- Domestic solid waste regularly collected and dispose;
- Good landscaping with adequate tree planting; and
- Good traffic dispersal system.

## 10

### Environmental Monitoring

#### Proposed Performance Monitoring At Construction Stage

Sediment control

< 50 mg/l for TSS  
< 250 NTU for turbidity

Air quality

Ambient air quality guidelines

Noise control

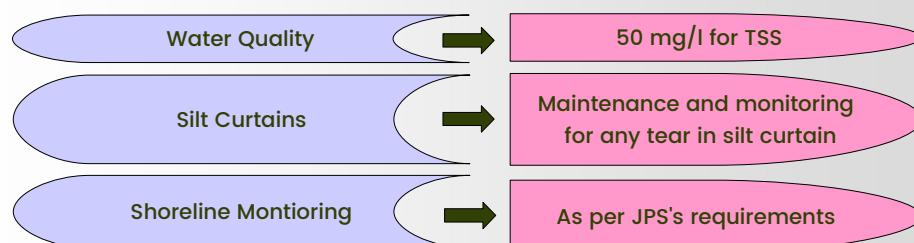
Daytime : 65 dB L<sub>Aeq</sub>  
Nighttime : 60 dB L<sub>Aeq</sub>



## 10

## Environmental Monitoring (Continue)

## Proposed Compliance Monitoring Program At Rehabilitation And Reclamation Works



## Proposed Impact Monitoring Program During Rehabilitation And Reclamation Works

