



EXECUTIVE SUMMARY

01

Introduction

	Project Proponent	Project Developer
<p>Project Title</p> <p>Proposed Sewage Treatment Plant (Module 1 - 73,000 PE) For Penang South Reclamation Island A (PSRA), Penang</p>	<p>Penang State Government Kompleks Kerajaan Negeri Pulau Pinang Tingkat 25, KOMTAR, 10503 Pulau Pinang, Malaysia Telephone No.: 04-2621957 Email: zulkifli.long@penang.gov.my Contact Person: YB Dato' Haji Zulkifli Bin Long</p>	<p>Silicon Island Development Sdn. Bhd. The Amarene, 3-2-03, Jalan Sungai Tiram 6, 11900 Bayan Lepas, Penang Telephone No.: 04-6116199 Facsimile No.: 04-6180185 Contact Person: Dato' Szeto Wai Loong</p>

Qualified Person	Legislative Requirement	Statement Of Need
<p>Ir. Dr. Lee Aik Heng (ID No. CEP-C0388)</p> <p>Raja Rokiah R. Saigon (ID No. CEP-C0381)</p> <p>Linda Geh Guat Yeow (ID No. CEP-CS0382)</p> <p>Lim Sze Fook (ID No. CEP-CS0126)</p> <p>Ir. Lim Sin Poh (ID No. CEP-SS0255)</p>	<ul style="list-style-type: none"> Prescribed activity under the First Schedule, Activity 14(c)(i), EIA Order (Environmental Quality (Prescribed Activities) (Environmental Impact Assessment) Order 2015) as the Proposed Project involves construction of a sewage treatment plant of more than 20,000 PE 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 	<ul style="list-style-type: none"> The Proposed Project aims to provide the infrastructure for sewage treatment involving the construction of a sewage treatment plant The needs of the Proposed Project is justified as it is in line with the policies outlined in the National Development Policies as well as in line with the need to provide sewage treatment for the Penang South reclamation project in Penang.

02

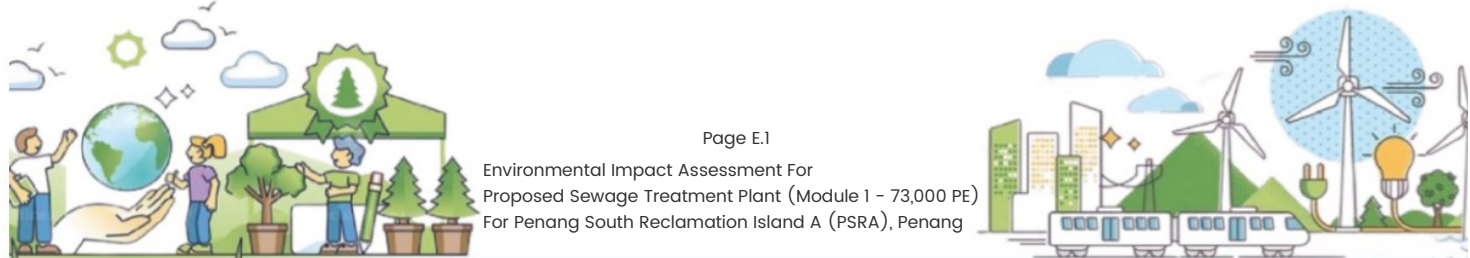
Location

Point	Georeferences	
	Latitude	Longitude
A	05° 16' 26.26"	100° 15' 38.78"
B	05° 16' 20.10"	100° 15' 45.87"
C	05° 16' 14.99"	100° 15' 35.29"
D	05° 16' 20.90"	100° 15' 33.70"

03

Sensitive Receptors

Legend:-
..... Boundary Of PSR Island A





PE - 73,000 (Module 1)
 - 292,000 PE (Ultimate)
 Type of System - Sequential Batch Reactor System
 Total Area - 16.74 acres





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Project Activities



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Existing Environment



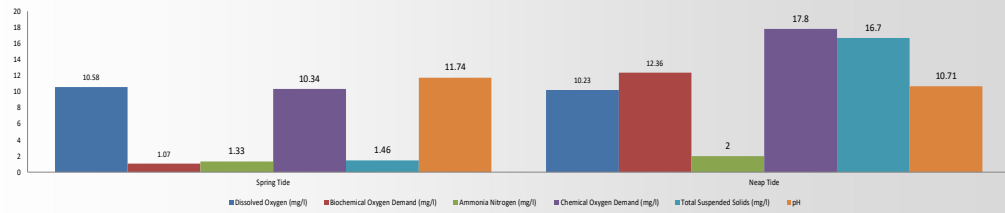


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Existing Environment

River Water Quality

WQ1 – At eastuary of Sungai Bayan Lepas located to the northeast of project site

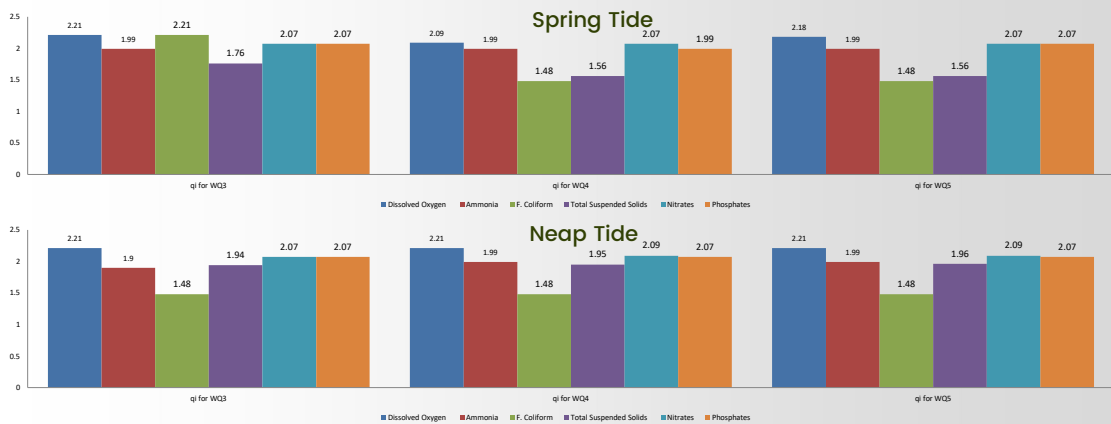


Marine Water Quality

WQ3 – At west of project site

WQ4 – At east of project site

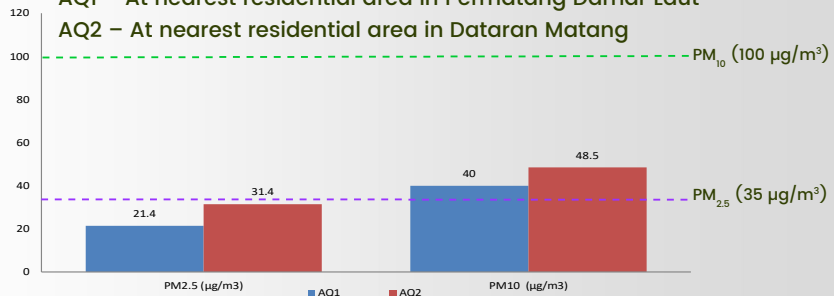
WQ5 – At southeast of project site



Air Quality

AQ1 – At nearest residential area in Permatang Damar Laut

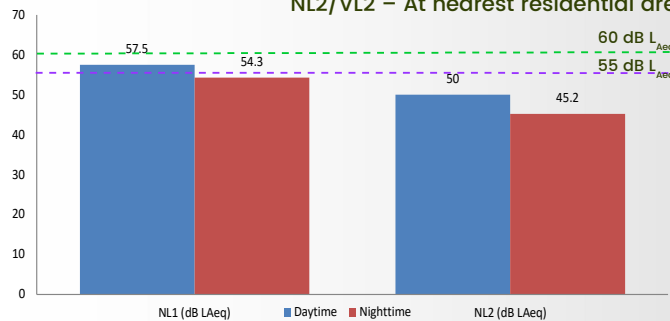
AQ2 – At nearest residential area in Dataran Matang



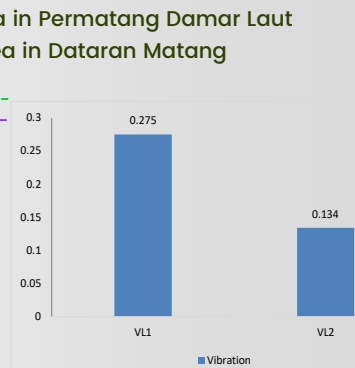
Noise Levels

NL1/VL1 – At nearest residential area in Permatang Damar Laut

NL2/VL2 – At nearest residential area in Dataran Matang



Vibration Levels





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Impact And Mitigation Measures

During Construction

Impacts

- Sedimentation issues may deteriorate water quality;
- Fugitive emissions from construction vehicle and machinery movement;
- Noise from earthwork and construction works;
- Vibration due to piling works;
- Generation of construction wastes; and
- Safety issues.

Mitigation Measures

- Commencement of work shall commence with the installation of the LD-P2M2, with drainage and protection works to be integrated in tandem;
- Experienced engineering consultants shall be appointed to monitor and closely supervise work activities;
- Waste management plan to be in place;
- Recommendations outlined for construction works 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 residual (sludge) waste generation from STP;
- Impact on air quality due to odor.

Mitigation Measures

- Collect and convey sewage to sewage treatment plant design to comply to Standard A, Environmental Quality (Sewage) Regulations 2009; and
- Sludge generated will be collected for disposal at approved landfill site.

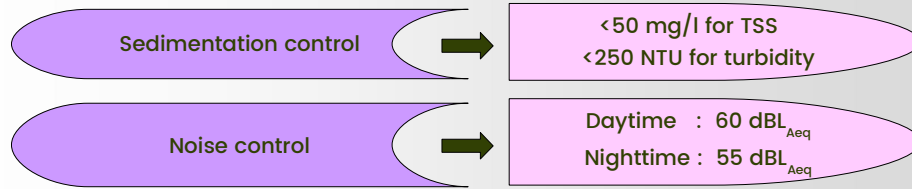




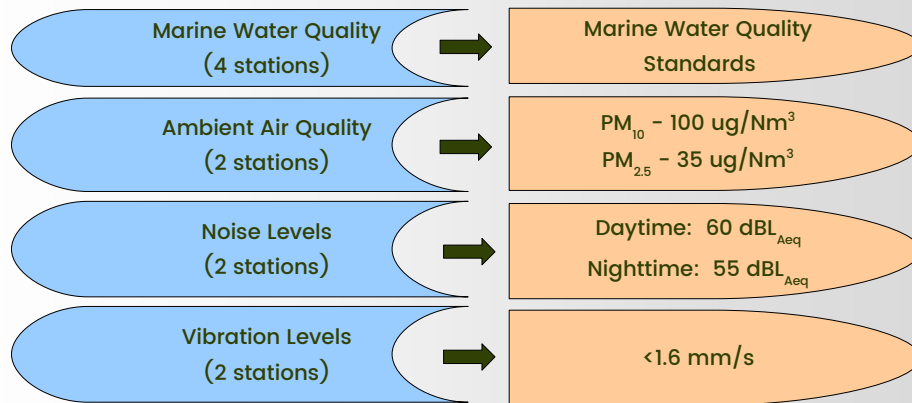
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Environmental Monitoring

Proposed Performance Monitoring At Construction Stage



Proposed Compliance Monitoring Program During Construction Stage



Proposed Impact Monitoring Program At Operation Stage

