

ENVIRONMENTAL & SOCIAL ASSESSMENT (ESIA) REPORT FOR

*(INSERT DEVELOPMENT NAME)*

Rev 0\*.00, Month 20\*\*

# Document history

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| **Revision code** | **Description of changes** | **Purpose of issue** | **Date** |
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# Document approval

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| --- | --- | --- | --- |
|  | **Prepared by** | **Reviewed by** | **Approved by** |
| Name |  |  |  |
| Job Title |  |  |  |

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# Proposal Details

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| Proposal Details | | | | |
| Proposal Title | |  | | |
| IAP Details (if applicable) | |  | | |
| Applicant Details | | | | |
| Proponent | | | | |
| Company |  | | Department |  |
| Name |  | | Position |  |
| email |  | | Phone |  |
| Primary Contact | | | | |
| Company |  | | Department |  |
| Name |  | | Title |  |
| email |  | | Phone |  |
| Planning/ Design Manager (if Different to Primary Contact) | | | | |
| Company |  | | Department |  |
| Name |  | | Position |  |
| email |  | | Phone |  |

# Executive Summary

# Introduction

## Development Overview

## Assessment History

## Purpose

*INSERT SITE LOCATION FIGURE HERE*

*Figure 1-1 Site Location Plan*

# Policy and Legal Framework

## Kingdom of Saudi Arabia Regulatory Framework

## International Treaties & Conventions

### UN Sustainable Development Goals

### IFC Performance Standards

## NEOM’s Policy, Codes & Standards

### NEOM Policies

NEOM has developed a Regenerative Development Framework that broadly aligns with the UNSDG as well as maps to a large proportion of the subsequent targets. These are set out in the ***NEOM Regenerative Development Policy Statement***.

This Development has been assessed against the UNSDGs and the broad alignment is shown in Table 2‑1.

Table 2‑1: Alignment of Development Elements and Activities to UN Sustainable Development Goals and Targets.

|  |  |  |  |
| --- | --- | --- | --- |
| **Development  Element / Activity** | **Sections / Documents** | **UN SD Goals** | **UN Targets** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
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# Site Selection and Analysis of Alternatives

## Technical Options & No-Action Alternative

## Site Selection and Optimization

# Proposed Development site

## Regional Context

## General Features

*.*

# Environmental & Social Values

## Climate and Oceans

### Climate

### Oceanography

## Landform & Functions

### Topography and Features

### Hydrology

### Bathymetry

### Coastal Processes

### Geology

### Soils

.

## Environmental Quality

### Air Quality, Noise & Light

### Soil & Groundwater Quality

### Marine Water & Sediment Quality

### Underwater Noise

## Terrestrial Ecosystems

### Species

### Communities

### Ecosystem Functions & Processes

## Marine Ecosystems

### Species

### Communities

### Functions & Processes

## Ecosystem Services

### Groundwater

### Supporting Services

### Regulating Services

### Provisioning Services

### Bio-cultural Services

## People and Communities

## Land Use and Heritage

## Buildings and Infrastructure

## Industry and Commerce

# Development Description

## Overview

## Site Layout & Summary Statistics

Table 7‑1: Summary Development Statistics

|  |  |
| --- | --- |
| **Development Element** | **Key Statistics** |
|  |  |
|  |  |
|  |  |
|  |  |

.

INSERT FIGURE HERE

Figure 7‑1: Site Plan for the Development

## Sustainability Strategies

## Construction

### Overview

## Operation

## Unplanned Events

# Risk &Opportunity Assessment Approach

## Risk Classification

### Modifications

### Consumption

### Pollution

### Interactions

## Risk Workshops

# Risk & Opportunity Assessment Summary

## Climate and Oceans

### Sustainability Objectives

### Analysis and Evaluation

In Table 8‑1 below provide a summary of the significant risks and opportunities that the Development presents to key or sensitive receptors associated with Climate systems as well as sets out the key treatments intended to reduce risks to ALARP. Non-significant risks and opportunities and treatments to achieve ALARP shall be presented in the ENVID Hazard Matrix.

### Management & Intervention

### Acceptability

### Key Performance Indicators.

Table 8‑1: Risk Assessment Summary for Climate and Ocean Systems

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Receptor: | Global Mean Temperature, SLR | | | Unplanned Events | |
| Hazards: | Emissions from construction vehicles, plant and machinery | Emissions from facilities during operations | Embodied carbon | Emissions from explosions or fire |  |
| Risk factor |  |  |  |  |  |
| Consequence |  |  |  |  |  |
| Likelihood |  |  |  |  |  |
| Risk ranking |  |  |  |  |  |
| Additive Risk |  |  |  |  |  |
| Climate change vulnerability |  |  |  |  |  |
| Predicted outcome |  |  |  |  |  |
| Acceptability |  |  |  |  |  |

## Landforms

### Sustainability Objectives

### Analysis and Evaluation

In Table 8‑2 below provide a summary of the significant risks and opportunities that the Development presents to key or sensitive receptors associated with Landforms and Functions as well as sets out the key treatments intended to reduce risks to ALARP. Non-significant risks and opportunities and treatments to achieve ALARP are presented in the ENVID Hazard Matrix.

### Management & Intervention

### Acceptability

### Key Performance Indicators.

Table 8‑2: Risk Assessment Summary for Landforms and Functions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Receptor: | LANDFORMS | | | Unplanned Events | |
| Hazards: | XXXX | XXXX | XXXX | XXXX |  |
| Risk factor |  |  |  |  |  |
| Consequence |  |  |  |  |  |
| Likelihood |  |  |  |  |  |
| Risk ranking |  |  |  |  |  |
| Additive Risk |  |  |  |  |  |
| Climate change vulnerability |  |  |  |  |  |
| Predicted outcome |  |  |  |  |  |
| Acceptability |  |  |  |  |  |

## Geology and Soils

### Sustainability Objectives

### Analysis and Evaluation

In Table 8‑3 below provide a summary of the significant risks and opportunities that the Development presents to key or sensitive receptors associated with Resources as well as sets out the key treatments intended to reduce risks to ALARP. Non-significant risks and opportunities and treatments to achieve ALARP are presented in the ENVID Hazard Matrix.

### Management & Intervention

### Acceptability

### Key Performance Indicators.

Table 8‑3: Risk Assessment Summary for Geological and Soil resources

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Receptor: | Soils and geological RESOURCES | | | Unplanned Events | |
| Hazards: | XXXX | XXXX | XXXX | XXXX |  |
| Risk factor |  |  |  |  |  |
| Consequence |  |  |  |  |  |
| Likelihood |  |  |  |  |  |
| Risk ranking |  |  |  |  |  |
| Additive Risk |  |  |  |  |  |
| Climate change vulnerability |  |  |  |  |  |
| Predicted outcome |  |  |  |  |  |
| Acceptability |  |  |  |  |  |

## Environmental Quality

### Sustainability Objectives

### Analysis and Evaluation

In Table 8‑4 below provide a summary of the significant risks and opportunities that the Development presents to key or sensitive receptors associated with Environmental Quality as well as sets out the key treatments intended to reduce risks to ALARP. Non-significant risks and opportunities and treatments to achieve ALARP are presented in the ENVID Hazard Matrix.

### Management & Intervention

### Acceptability

### Key Performance Indicators.

Table 8‑4: Risk Assessment Summary for Environmental Quality

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Receptor: | Reduction IN environmental quality | | | Unplanned Events | |
| Hazards: | XXXX | XXXX | XXXX | XXXX |  |
| Risk factor |  |  |  |  |  |
| Consequence |  |  |  |  |  |
| Likelihood |  |  |  |  |  |
| Risk ranking |  |  |  |  |  |
| Additive Risk |  |  |  |  |  |
| Climate change vulnerability |  |  |  |  |  |
| Predicted outcome |  |  |  |  |  |
| Acceptability |  |  |  |  |  |

## Terrestrial Ecosystems

### Sustainability Objectives

### Analysis and Evaluation

In Table 8‑5 below provide a summary of the significant risks and opportunities that the Development presents to key or sensitive receptors associated with Terrestrial Ecosystems as well as sets out the key treatments intended to reduce risks to ALARP. Non-significant risks and opportunities and treatments to achieve ALARP are presented in the ENVID Hazard Matrix.

### Management & Intervention

### Acceptability

### Key Performance Indicators.

Table 8‑5: Risk Assessment Summary for Terrestrial Ecosystems

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Receptor: | terrestrial biodiversity reduction | | | Unplanned Events | |
| Hazards: | XXXX | XXXX | XXXX | XXXX |  |
| Risk factor |  |  |  |  |  |
| Consequence |  |  |  |  |  |
| Likelihood |  |  |  |  |  |
| Risk ranking |  |  |  |  |  |
| Additive Risk |  |  |  |  |  |
| Climate change vulnerability |  |  |  |  |  |
| Predicted outcome |  |  |  |  |  |
| Acceptability |  |  |  |  |  |

## Marine Ecosystems

### Sustainability Objectives

### Analysis and Evaluation

In Table 8‑6 below provide a summary of the significant risks and opportunities that the Development presents to key or sensitive receptors associated with Marine Ecosystems as well as sets out the key treatments intended to reduce risks to ALARP. Non-significant risks and opportunities and treatments to achieve ALARP are presented in the ENVID Hazard Matrix.

### Management & Intervention

### Acceptability

### Key Performance Indicators.

Table 8‑6: Risk Assessment Summary for Marine Ecosystems

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Receptor: | MARINE biodiversity reduction | | | Unplanned Events | |
| Hazards: | XXXX | XXXX | XXXX | XXXX |  |
| Risk factor |  |  |  |  |  |
| Consequence |  |  |  |  |  |
| Likelihood |  |  |  |  |  |
| Risk ranking |  |  |  |  |  |
| Additive Risk |  |  |  |  |  |
| Climate change vulnerability |  |  |  |  |  |
| Predicted outcome |  |  |  |  |  |
| Acceptability |  |  |  |  |  |

## Ecosystem Services

### Sustainability Objectives

### Analysis and Evaluation

In Table 8‑7 below provide a summary of the significant risks and opportunities that the Development presents to key or sensitive receptors associated with Ecosystem Services as well as sets out the key treatments intended to reduce risks to ALARP. Non-significant risks and opportunities and treatments to achieve ALARP are presented in the ENVID Hazard Matrix.

### Management & Intervention

### Acceptability

### Key Performance Indicators.

Table 8‑7: Risk Assessment Summary for Ecosystem Services

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Receptor: | DISRUPTION TO OR LOSS OF ECOSYSTEM SERVICES | | | Unplanned Events | |
| Hazards: | XXXX | XXXX | XXXX | XXXX |  |
| Risk factor |  |  |  |  |  |
| Consequence |  |  |  |  |  |
| Likelihood |  |  |  |  |  |
| Risk ranking |  |  |  |  |  |
| Additive Risk |  |  |  |  |  |
| Climate change vulnerability |  |  |  |  |  |
| Predicted outcome |  |  |  |  |  |
| Acceptability |  |  |  |  |  |

## People and Communities

### Sustainability Objectives

### Analysis and Evaluation

Table 8‑8 provides a summary of the significant risks and opportunities that the Development presents to key or sensitive receptors associated with Wellbeing as well as sets out the key treatments intended to reduce risks to ALARP. Non-significant risks and opportunities and treatments to achieve ALARP are presented in the ENVID Hazard Matrix.

### Management & Intervention

### Acceptability

### Key Performance Indicators.

Table 8‑8: Risk Assessment Summary for People and Communities

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Receptor: | impacts on people or communities | | | Unplanned Events | |
| Hazards: | XXXX | XXXX | XXXX | XXXX |  |
| Risk factor |  |  |  |  |  |
| Consequence |  |  |  |  |  |
| Likelihood |  |  |  |  |  |
| Risk ranking |  |  |  |  |  |
| Additive Risk |  |  |  |  |  |
| Climate change vulnerability |  |  |  |  |  |
| Predicted outcome |  |  |  |  |  |
| Acceptability |  |  |  |  |  |

## Land Use and Heritage

### Sustainability Objectives

### Analysis and Evaluation

Table 8‑9 below provide a summary of the significant risks and opportunities that the Development presents to key or sensitive receptors associated with Livability as well as sets out the key treatments intended to reduce risks to ALARP. Non-significant risks and opportunities and treatments to achieve ALARP are presented in the ENVID Hazard Matrix.

### Management & Intervention

### Acceptability

### Key Performance Indicators.

Table 8‑9: Risk Assessment Summary for Land-use, Heritage and Archaeology

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Receptor: | land use and heritage | | | Unplanned Events | |
| Hazards: | XXXX | XXXX | XXXX | XXXX |  |
| Risk factor |  |  |  |  |  |
| Consequence |  |  |  |  |  |
| Likelihood |  |  |  |  |  |
| Risk ranking |  |  |  |  |  |
| Additive Risk |  |  |  |  |  |
| Climate change vulnerability |  |  |  |  |  |
| Predicted outcome |  |  |  |  |  |
| Acceptability |  |  |  |  |  |

## Built Assets

### Sustainability Objectives

### Analysis and Evaluation

Table 8‑10 below provide a summary of the significant risks and opportunities that the Development presents to key or sensitive receptors associated with Economy as well as sets out the key risk treatments intended to reduce risks to ALARP. Non-significant risks and opportunities and treatments to achieve ALARP are presented in the ENVID Hazard Matrix.

### Management & Intervention

### Acceptability

### Key Performance Indicators.

Table 8‑10: Risk Assessment Summary for Buildings and Infrastructure

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Receptor: | impacts on Buildings and infrastructure | | | Unplanned Events | |
| Hazards: | XXXX | XXXX | XXXX | XXXX |  |
| Risk factor |  |  |  |  |  |
| Consequence |  |  |  |  |  |
| Likelihood |  |  |  |  |  |
| Risk ranking |  |  |  |  |  |
| Additive Risk |  |  |  |  |  |
| Climate change vulnerability |  |  |  |  |  |
| Predicted outcome |  |  |  |  |  |
| Acceptability |  |  |  |  |  |

## Economic Activities

### Sustainability Objectives

### Analysis and Evaluation

Table 8‑11 below provide a summary of the significant risks and opportunities that the Development presents to key or sensitive receptors associated with Economy as well as sets out the key risk treatments intended to reduce risks to ALARP. Non-significant risks and opportunities and treatments to achieve ALARP are presented in the ENVID Hazard Matrix.

### Management & Intervention

### Acceptability

### Key Performance Indicators.

Table 8‑11: Risk Assessment Summary for Industry and Commerce

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Receptor: | impacts on industries and commerce | | | Unplanned Events | |
| Hazards: | XXXX | XXXX | XXXX | XXXX |  |
| Risk factor |  |  |  |  |  |
| Consequence |  |  |  |  |  |
| Likelihood |  |  |  |  |  |
| Risk ranking |  |  |  |  |  |
| Additive Risk |  |  |  |  |  |
| Climate change vulnerability |  |  |  |  |  |
| Predicted outcome |  |  |  |  |  |
| Acceptability |  |  |  |  |  |

# Cumulative Impacts & Net Benefits

## Cumulative Impact Assessment

## Net-benefit Analysis

# Key Findings & Conclusions

## Key Findings

## Required Changes for Planning & Design

## Objectives and Plans Required for Construction Activities

## Targets, Guidelines and Management Plans for Operational Activities

## Conclusions

# Appendices

1. Baseline Studies
2. Physical, Environmental & Ecological Baseline Assessment
3. Social Baseline & Stakeholder Engagement Surveys
4. Climate Change Vulnerability Assessment
5. Development Plans & Designs
6. Land Use Plans
7. Infrastructure Designs
8. Public Realm Designs
9. Supporting Studies
10. ENVID Hazard Matrix