Our ref.: EMA2602/L013
Date : 13 November 2026

**By Email**

Water Supplies Department
New Works Branch
Consultants Management Division
6/F, Sha Tin Government Offices,
1 Sheung Wo Che Road, Sha Tin,
New Territories

**Attn: Mr. W.S. Wong / S K Wong**

**Dear Sirs,**

**Independent Environmental Checker (IEC) for Construction and Operation of the First Stage Desalination Plant at Tseung Kwan O (Quotation Ref. No. TKODP1/IEC/004)**

**Verification of Annual Environmental Monitoring and Audit (EM&A) Report No.6 for the period of February 2026 to April 2026**

Referring to the Annual Environmental Monitoring and Audit (EM&A) Report No.6 (May 2025 to April 2026) (Rev.3) as submitted by the Environmental Team on 12 November 2026, we hereby verify the captioned report for the period of February 2026 to April 2026 in accordance with the Environmental Permit (EP), EP-503/2015/B and the Further EP (FEP), FEP-01/503/2015/B.

Should you have any queries, please contact the undersigned at 2774 7406, or email at Roy.Hung@sgs.com.

Yours sincerely,
For and On Behalf Of
**SGS Hong Kong Limited**

Roy Hung
Independent Environmental Checker

Aurecon (Attn.: Toby Wan) By E-mail

Our ref.: LES/J2024-01/CS/L145
Date : 11 September 2026

**By Post and Email**

Water Supplies Department
New Works Branch
Consultants Management Division
6/F, Sha Tin Government Offices,
1 Sheung Wo Che Road, Sha Tin,
New Territories

**Attn: Mr. W.S. Wong / S K Wong**

Dear Sir,

**Independent Environmental Checker (IEC) for Construction and Operation of the First Stage Desalination Plant at Tseung Kwan O (Quotation Ref. No. TKO1/IEC/003)**

**Verification of Annual Environmental Monitoring and Audit (EM&A) Report No.6 for the period of May 2025 to January 2026**

Referring to the Annual Environmental Monitoring and Audit (EM&A) Report No.6 (May2025 to April 2026) as submitted by the Environmental Team on 11 September 2026, we hereby verify the captioned report for the period of May 2025 to January 2026 in accordance with Clause 3.5 of the Environmental Permit no. FEP-01/503/2015/A and FEP-01/503/2015/B.

Should you have any queries, please contact the undersigned at 61496683, or email at serenashek@lamenviro.com.

Yours sincerely,
For and On Behalf Of
**Lam Environmental Services Limited**



Serena Shek
Independent Environmental Checker

| | | |
|---|---|---|
| Binnies | (Attn.: Image Yeung) | By E-mail |
| Aurecon | (Attn.: Toby Wan) | By E-mail |

ACUITY sustainability
Member of the Aurecon Group

aurecon

水務署
Water Supplies Department

**Contract No. 13/WSD/17**

# Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

# Annual EM&A Review Report No.6 (Period from May 2025 to April 2026)

Document No.

| | | | | | | |
|---|---|---|---|---|---|---|
| ASCL | / | 200168078 | / | AEMAR06 | / | 3 |
| Publisher | | Project Code | | Sequential No. | | Revision Index |

| | Reviewed and Certified by: |
|---|---|
| Name | Toby Wan |
| Position | Environmental Team Leader |
| Signature |  |
| Date: | 11 September 2026 |

Acuity Sustainability Consulting Limited
Flat/RM E, 12/F, Ford Glory Plaza,
Nos. 37-39 Wing Hong Street, Kowloon, Hong Kong
tel +852 2698 6833
fax +852 2698 9383 | e-mail admin@acuityhk.com
http www.acuityhk.com | www.aurecongroup.com

## REVISION HISTORY

| REV. | DESCRIPTION OF MODIFICATION | DATE |
|---|---|---|
| 0. | First Issue | 9/08/2026 |
| 1. | Second Issue | 8/09/2026 |
| 2. | Third Issue | 10/09/2026 |
| 3. | Fourth Issue | 11/09/2026 |


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

## CONTENTS

Executive Summary ..... 4

1. Basic Contract Information ..... 7
2. Water Quality ..... 11
3. Waste ..... 19
4. Landfill Gas Monitoring ..... 20
5. Ecology (Coral Monitoring) ..... 24
6. Ecology (Fishery Monitoring) ..... 26
7. Summary of Exceedance, Complaints, Notification of Summons and Prosecutions ..... 29
8. EM&A Site Inspection ..... 31
9. Conclusions and Recommendations ..... 32

| | |
|---|---|
| Appendix A | Overview of Desalination Plant in Tseung Kwan O |
| Appendix B | Summary of Implementation Status of Environmental Mitigation |
| Appendix C | Water Quality Graphical Presentation |
| Appendix D | Site Inspection Proforma |
| Appendix E | Waste Flow Table |
| Appendix F | Summary of Exceedances |
| Appendix G | Complaint Log |
| Appendix H | Event/Action Plan for Noise and Water Quality Monitoring Exceedance |



The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

# EXECUTIVE SUMMARY

## INTRODUCTION

A1. The Project, Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant (TKODP), is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is currently governed by a Further Environmental Permit (EP No. FEP – 01/503/2015/A and EP No. FEP – 01/503/2015/B) for the construction and operation of the Contract.

A2. In accordance with the Environmental Monitoring and Audit (EM&A) Manual for the Contract, EM&A works for marine water quality, noise, waste management and ecology should be carried out by Environmental Team (ET), Aurecon Hong Kong Limited (Aurecon), during the operation phase of the Contract.

A3. This is the 6th Annual EM&A Review Report, prepared by ASCL, for the Contract summarizing the monitoring results and audit findings of the EM&A programme at and around Tseung Kwan O Area 137 (TKO 137) during the reporting period from 1 May 2025 to 30 April 2026.

A4. The EM&A programme for this contract has covered environmental monitoring and Contractor's environmental performance auditing in the aspects of dust, noise, water quality, landfill gas, waste management, landscape and visual and ecology.

## SUMMARY OF ENVIRONMENTAL MONITORING AND AUDIT WORKS

A5. A summary of the environmental monitoring and audit works undertaken in the reporting period are summarized in **Table I**.

**Table I Summary of Environmental Monitoring Works**

| Environmental Monitoring works | Frequency |
|---|---|
| Operation Phase Water Quality Monitoring | 130 |
| Operation Phase Coral Monitoring | 10 |
| Operation Phase Fishery Monitoring | 4 |
| Operation Phase Landfill Gas Monitoring | 11 |
| Environmental Site Inspection | 52 |


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

A6. Operation Phase Impact Water Quality Monitoring was conducted from 1 May 2025 and completed on 30 June 2025. A total of three (3) action level exceedances and eleven (11) limit level exceedances of SS were recorded. Summary of exceedances could be referring to **Appendix G**.

A7. The continuous monitoring of effluent quality was conducted from 1 May 2025 to 31 July 2025. No exceedance of the sampling was obtained during the reporting period.

A8. According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, continuous monitoring of effluent quality was discontinued and replaced with effluent water monitoring in compliance with discharge license requirements starting from 15 August 2025.

A9. Weekly in-situ monitoring and monthly laboratory measurements of the effluent quality were conducted from September 2025 to April 2026. No exceedance of the results was obtained during the reporting period. The detail results can be referred to the Monthly EM&A Report.

A10. Monthly operational landfill gas monitoring was conducted from 1 May 2025 to 31 July 2025.

A11. According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, landfill gas monitoring will be conducted on a six-month basis starting from August 2025.

A12. A total of five (5) landfill gas monitoring was conducted during the reporting period. No exceedances of the Action or Limit Levels were recorded during the reporting period.

A13. According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, coral monitoring will be conducted on a quarterly basis starting from August 2025.

A14. A total of six (6) operation phase coral monitoring was conducted. There were no AL/LL exceedances observed during the reporting period.

A15. Four (4) operation phase fishery monitoring were conducted during the reporting period. For wet season was carried out in 16 and 23 August 2025 and for dry season was carried out in 7 and 15 February 2026. No AL/LL exceedance was recorded during the reporting period.

## COMPLAINT HANDLING AND PROSECUTION

**A16.** No environmental complaint, notifications of summons and prosecution was received during the reporting period.


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

## REPORTING CHANGE

A17. According to the contractor's information, the Anti-scalant dosage commenced on 10 April 2025. The Anti-scalant water quality test was also conducted starting from the same date.

A18. The works of TKODP were substantially completed on 30 June 2024 and the plant commenced the operation phase on 1 July 2024. A Justification of Termination of the EM&A Programme for the Construction Phase was resubmitted to the EPD on 11 August 2025 and approved by the EPD on 15 August 2025.

A19. A proposal to change the operation phase EM&A programme was submitted to the EPD on 11 August 2025 and approved by the EPD on 15 August 2025.


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

# 1. BASIC CONTRACT INFORMATION

## 1.1. BACKGROUND

The Jardine Engineering Corporation, Limited, China State Construction Engineering (Hong Kong) Limited and Acciona Agua, S.A. Trading as AJC Joint Venture (AJCJV) is contracted to carry out the Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant (TKODP) under Contract No. 13/WSD/17 (the Contract).

Acuity Sustainability Consulting Limited (ASCL) is commissioned by AJCJV to undertake the Environmental Team (ET) services as required and/or implied, both explicitly and implicitly, in the Environmental Permit (EP), Environmental Impact Assessment Report (EIA Report) (Register No. AEIAR-192/2015) and Environmental Monitoring and Audit Manual (EM&A Manual) for the Contract; and to carry out the Environmental Monitoring and Audit (EM&A) programme in fulfillment of the EIA Report's EM&A requirements and Contract No. 13/WSD/17 Specification requirements.

Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection granted the Environmental Permit (No. EP-01/503/2015) and Variation of Environmental Permit (No. EP-01/503/2015/A and No. EP-01/503/2015/B) to Water Supplies Department (WSD); and granted the Further Environmental Permit (No. FEP-01/503/2015/A and No. EP-01/503/2015/B) to AJCJV for the Contract.

## 1.2. THE REPORTING SCOPE

This is the 6th Annual EM&A Review Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 May 2025 to 30 April 2026.

## 1.3. CONTRACT ORGANIZATION

The Contract Organization structure for Construction Phase is presented in **Figure 1.1** and contact details of the key personnel are presented in **Table 1.1** below:

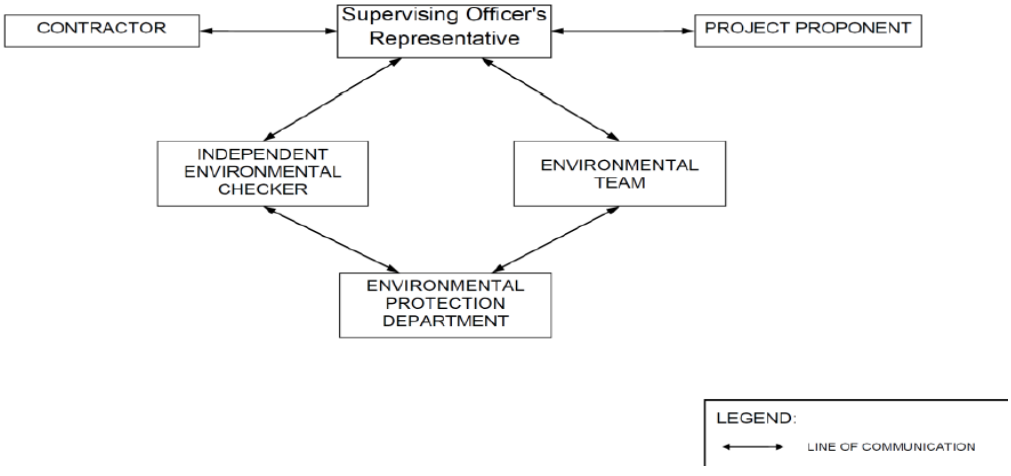



**Figure 1.1 Contract Organization Chart**



The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

**Table 1.1 Contact Details of Key Personnel**

| Party | Position | Name | Telephone no. | Remark |
|---|---|---|---|---|
| Project Proponent (WSD) | SE/CM2 | Milton Law | 2634-3573 | - |
| Supervising Officer (Binnies Hong Kong Limited) | Project Manager | Augustine Li | 2608-7671 | - |
| | Senior Resident Engineer | Mason Pau | 6765-4131 | - |
| The Jardine Engineering Corporation, Limited, China State Construction Engineering (Hong Kong) Limited and Acciona Agua, S.A. Trading | Project Manager | Arnes, Parra, Victor | 6468-6710 | - |
| | Environmental Monitoring Manager | Tommy Law | 6468-1782 | - |
| Aurecon Hong Kong Limited | Environmental Team Leader (ETL) | Toby Wan | 9719-5422 | - |
| Lam Environmental Services Limited | Independent Environmental Checker (IEC) | Serena Shek | 6149-6683 | Until 31 January 2026 |
| SGS Hong Kong Limited | Independent Environmental Checker (IEC) | Roy Hung | 2774-7406 | Started from 1 February 2026 |

## 1.4. SUMMARY OF OPERATION WORKS

Detail of the major operation activities undertaken could be referred to Section 1.8 in each monthly EM&A Report.

The status for all environmental aspects is presented in **Table 1.2**.

**Table 1.2 Summary of Status for Key Environmental Aspects under the EM&A Manual**

| Parameters | Status |
|---|---|
| **Water Quality** | |
| Baseline Monitoring under EM&A Manual | The baseline water quality monitoring was conducted between 12 May 2020 to 6 June 2020 |
| Construction Phase Marine Impact Monitoring | Ceased from 1 September 2023 |
| Pre-Operation Phase Marine Impact Monitoring | Ceased from 30 June 2024 |
| Operation Phase Marine Impact Monitoring | Completed on 30 June 2025 |


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

| Parameters | Status |
|---|---|
| Impact Monitoring of Effluent Discharge from Main Disinfection | Complete in November 2023 and December 2024 |
| Continuous Monitoring of Effluent Quality | Ceased from 15 August 2026 |
| Monthly Effluent Quality Monitoring (Discharge License Requirement) | On-going |
| **Noise** | |
| Baseline Monitoring | The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4. |
| Impact Monitoring | Completed |
| **Landfill Gas** | |
| Regular Monitoring when construction works are within the 250 m Consultation Zone | According to the Contractors, all pits or trenches were backfilled and undergo reinstatement. No landfill gas monitoring was carried out. The landfill gas monitoring was ceased from 31 October 2024. |
| Monthly Monitoring for buildings, manholes and utility pits within the Project Site and along the freshwater mains | According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th years, landfill gas monitoring will be conducted on a six-month basis starting from August 2025. |
| Six-month Basis Monitoring for buildings, manholes and utility pits within the Project Site and along the freshwater mains | On-going |
| **Ecology (Coral)** | |
| Pre-operation phase Regular Coral Monitoring (Monthly) | Completed |
| Operation phase Regular Coral Monitoring (Monthly) | According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th years, coral monitoring will be conducted on a quarterly basis starting from August 2025. |
| Operation phase Regular Coral Monitoring (Quarterly) | On-going |
| **Ecology (Fishery)** | |
| Pre-operation phase Regular Fishery Monitoring | Completed |
| Operation phase Regular Fishery Monitoring | On-going |


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

| | |
|---|---|
| **Waste Management** | |
| Mitigation Measures in Waste Management Plan | On-going |
| **Ecology (Landscape)** | |
| Pre-operation phase Landscape and Visual Site Inspection | Completed |
| Operation phase Landscape and Visual Site Inspection | According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th years, site inspection will be conducted on a bi-weekly basis starting from 15 August 2025. |
| **Environmental Audit** | |
| Site Inspection covering Measures of Air Quality, Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual | On-going |

Other than the EM&A work by ET, environmental briefings, trainings and regular environmental management meetings were conducted, in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.

The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the EM&A Manual. A summary of implementation status of the environmental mitigation measures for the Contract during the reporting period is provided in **Appendix B**.


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

# 2. WATER QUALITY

In accordance with the recommendations of the EIA, water quality EM&A is required during dredging for the submarine pipelines and, during operation phase. In addition, baseline water quality monitoring was prior to the commencement of marine construction activities.

The following Section provides details of the water quality monitoring to be undertaken by the Environmental Team (ET) to verify the distance of sediment and brine plume dispersion and to identify whether the potential exists for any indirect impacts to occur to ecological sensitive receivers.

Water quality monitoring for the Contract can be divided into the following stages:

- Dredging activities during construction phase;
- Discharge of effluent from main disinfection during construction phase;
- Pre-operation – before operation phase
- Operation phase – first year upon commissioning; and,
- Continuous monitoring of effluent quality (Operation phase)

In addition, the marine works contractor is required to complete a silt curtain efficiency test for the combined use of floating silt curtain type and cage type silt curtain for dredging at seawater intake to confirm the silt curtain reduction efficiency assumptions of the assessment. The details of testing plan together with the silt curtain deployment plan shall be submitted by the ET to seek approval from the IEC and EPD.

## 2.1. WATER QUALITY PARAMETERS

Marine Water Quality Monitoring

The parameters that have been selected for measurement in situ and in the laboratory are those that were either determined in the EIA to be those with the most potential to be affected by the construction works or are a standard check on water quality conditions. Parameters to be measured in the impact water quality monitoring are listed in **Table 2.1**.

**Table 2.1 Parameters measured in the impact marine water quality monitoring**

| Parameters | Unit | Abbreviation | Stage |
|---|---|---|---|
| | | | Operation |
| **In-situ measurements** | | | |
| Dissolved oxygen | mg/L | DO | ✓ |
| Temperature | $^{o}$C | - | ✓ |
| pH | - | - | ✓ |
| Turbidity | NTU | - | ✓ |
| Salinity | 0/00 | - | ✓ |
| Total Residual Chlorine | mg/L | TRC | ✓ |


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

| Parameters | Unit | Abbreviation | Stage |
|---|---|---|---|
| | | | Operation |
| **Laboratory measurements** | | | |
| Suspended Solids | mg/L | SS | ✓ |
| Iron | mg/L | Fe | ✓ |

In addition to the water quality parameters, other relevant data were measured and recorded in Water Quality Monitoring Logs, including the location of the sampling stations, water depth, time, weather conditions, sea conditions, tidal stage, current direction and velocity, special phenomena and work activities undertaken around the monitoring and works area that may influence the monitoring results.

b) Continuous Monitoring of Effluent Quality

The monitoring requirement for the continuous effluent quality monitoring shall be conducted in accordance with the effluent parameters and standards stipulated by the Water Pollution Control Ordinance Discharge License (No.: WT00044188-2023) conditions. Details derived limit levels for water quality are presented in **Table 2.2**.

c) Monthly Effluent Monitoring (Water Discharge License)

In accordance with the WT00044188-2023 Part 1, the sampling should be followed the specified frequency, and the parameters of the sample should not be exceeded the limit stated as the water discharge license. Details derived limit levels for water quality are presented in **Table 2.2**.

**Table 2.2 Parameters measured in the Continuous Monitoring of Effluent Quality**

| Parameters | Unit | Abbreviation |
|---|---|---|
| **In-situ measurements** | | |
| Temperature | °C | - |
| pH | pH | - |
| Salinity | 0/00 | - |
| Total Residual Chlorine | mg/L | TRC |
| **Laboratory measurements** | | |
| Suspended Solids | mg/L | SS |
| Iron-Soluble | mg/L | Fe |
| Total Inorganic Nitrogen | mg/L | - |
| Total Phosphorus | mg/L | - |
| Sodium Metabisulphite | mg/L | SMBS |
| Anti-scalant as Reactive Phosphorus * | mg/L | PO4 as P- |

*Remark: Anti-scalant water quality testing will only be conducted whenever anti-scalant dosage is adopted.


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

**Table 2.3 Derived Limit Levels for Water Quality**

| Parameters | Limit |
|---|---|
| **Monitoring of Effluent Quality** | |
| Flow Rate in $m^3$/day | 216841 |
| Temperature in °C | Maximum 40 |
| Salinity | 71347 |
| SS in mg/L | 13 |
| pH | 6-9 |
| Iron in mg/L | 0.6 |
| Total residual chlorine in mg/L | 0.1 |
| Total Inorganic Nitrogen in mg/L | 2 |
| Total Phosphorous in mg/L | 1 |
| Sodium Metabisulphite in mg/L | 0.5 |
| Anti scalant in mg/L* | 2.2 |

*Remark:
1. Anti-scalant water quality testing will only be conducted whenever anti-scalant dosage is adopted.

## 2.2. MONITORING EQUIPMENT

The monitoring methodology, monitoring equipment and QA/QC procedure could refer to the Monthly EM&A Report.

## 2.3. MONITORING LOCATION

Marine Water Quality Monitoring
The water quality monitoring locations are in accordance with the EM&A Manual and detailed in **Table 2.3** and **Figure 2.1** below.

**Table 2.3 Location of Impact Water Quality Monitoring Station**

| Station | Easting | Northing | Description |
|---|---|---|---|
| CE | 843550 | 815243 | Upstream control station at ebb tide |
| CF | 846843 | 810193 | Upstream control station at flood tide |
| WSR1 | 846864 | 812014 | Ecological sensitive receiver at Tung Lung Chau |
| WSR2 | 847645 | 812993 | Fisheries sensitive receiver at Tung Lung Chau |
| WSR3 | 848023 | 813262 | Ecological sensitive receiver at Tung Lung Chau |
| WSR4 | 847886 | 814154 | Ecological sensitive receiver at Tai Miu Wan |
| WSR16 | 845039 | 815287 | Ecological sensitive receiver at Fat Tong Chau |


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

| Station | Easting | Northing | Description |
|---|---|---|---|
| WSR33 | 847159 | 814488 | Ecological sensitive receiver at Tai Miu Wan |
| WSR36 | 846878 | 814081 | Ecological sensitive receiver at Kwun Tsai |
| WSR37 | 846655 | 813810 | Ecological sensitive receiver at Tit Cham Chau |
| NF1* | 846542 | 813614 | Edge of mixing zone, ~ 200m west of outfall diffuser |
| NF2* | 846942 | 813614 | Edge of mixing zone, ~ 200m east of outfall diffuser |
| NF3* | 846742 | 813414 | Edge of mixing zone, ~ 200m south of outfall diffuser |

Remark*: NF1 to NF3 are added for the operation phase of TKODP in accordance with Table 5.3 in the approved EM&A Manual.

WSR1 to WSR37 were identified in accordance with Annex 14 of the EIAO-TM as well as Clause 3.4.4.2 of the Environmental Impact Assessment Study Brief for Desalination Plant at Tseung Kwan O (No. ESB-266/2013). WSR1 to WSR3 are sited near the Tung Lung Chau Fish Culture Zone; WSR16 and WSR36 are sited near the coral assemblages along the coastlines of Fat Tong Chau and Kwun Tsai respectively; WSR 4 and WSR33 are sited near the Coastal Protection Area and coral assemblages in waters of Tai Miu Wan; WSR37 is sited near the fisheries resource including spawning and nursery grounds at the coastal water of Tit Cham Chau. NF1 to NF3 are the Edge of Mixing zone.

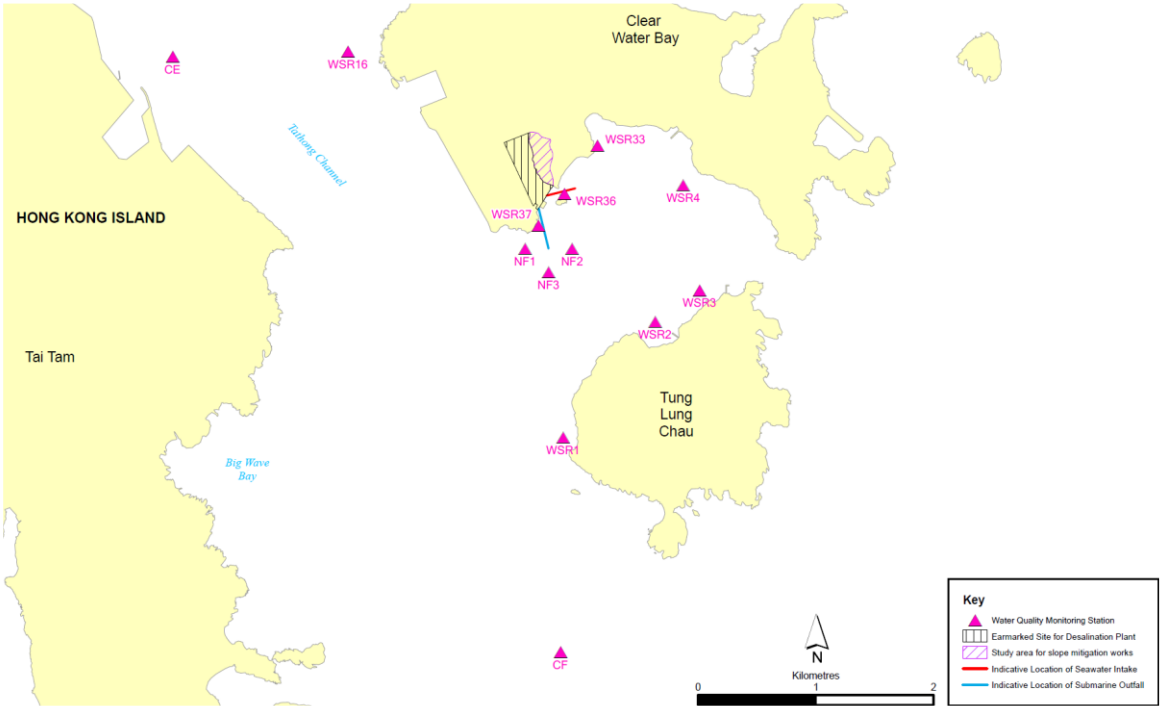



**Figure 2.1 Water quality monitoring locations under EM&A Manual**


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

b) Monitoring of Effluent Quality

In accordance with the discharge license, the Continuous Monitoring shall be sampling at Brine Outfall Shaft.

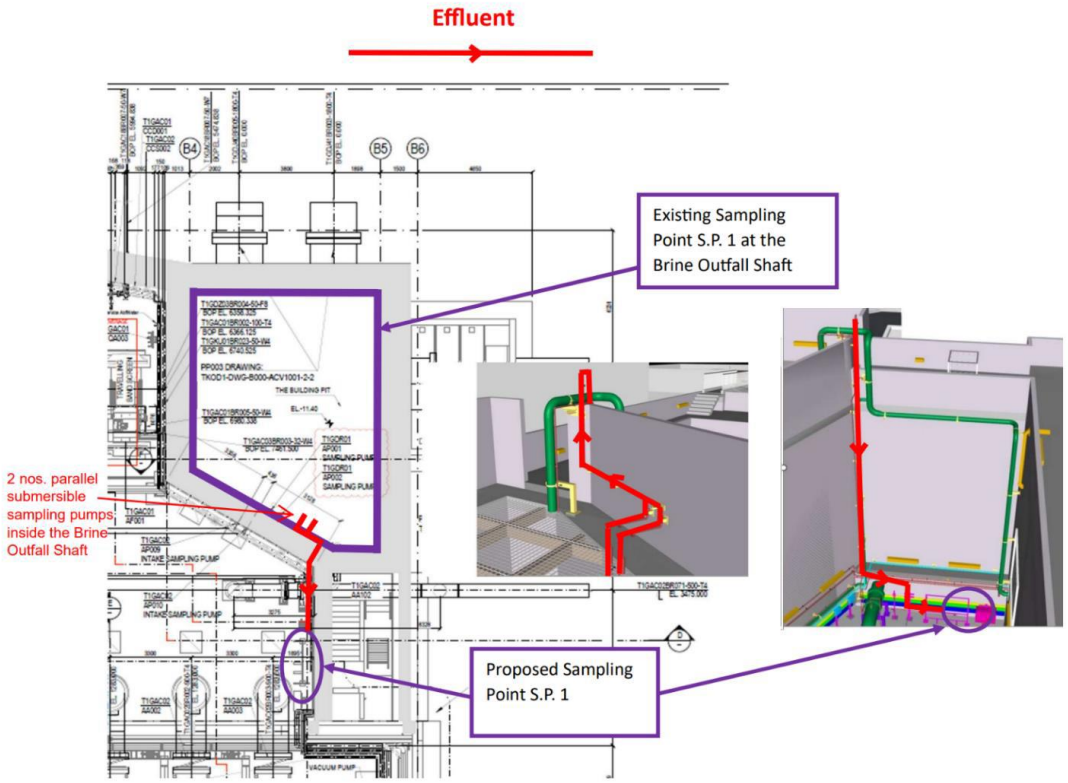



**Figure 2.2 Effluent Monitoring locations**

## 2.4. ACTION AND LIMIT LEVELS

a) Marine Water Quality Monitoring

The Action and Limit Levels have been set based on the derivation criteria specified in the EM&A Manual. Based on the baseline water quality monitoring data and the derivation criteria, the Action/Limit Levels have been derived and are presented in **Table 2.4**.


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

**Table 2.4 Derived Action and Limit Levels for Water Quality**

| Parameters | Action | Limit |
|---|---|---|
| **Marine Water Quality Monitoring** | | |
| DO in mg/L | Surface and Middle<br>7.30 mg $L^{-1}$<br>Bottom<br>7.31 mg $L^{-1}$<br>Tung Lung Chau Fish Culture Zone<br>5.1 $mgL^{-1}$ or level at control station (Whichever the lower) | Surface and Middle<br>4 mg $L^{-1}$<br>Bottom<br>2 mg $L^{-1}$<br>Tung Lung Chau Fish Culture Zone<br>5.0 $mgL^{-1}$ or level at control station (Whichever the lower) |
| SS in mg/L (Depth-averaged) | 5.00 mg $L^{-1}$ or 20% exceedance of value at any impact station compared with corresponding data from control station | 6.00 mg $L^{-1}$ or 30% exceedance of value at any impact station compared with corresponding data from control station |
| Turbidity in NTU (Depth-averaged) | 2.41 NTU or 20% exceedance of value at any impact station compared with corresponding data from control station | 2.84 NTU or 30% exceedance of value at any impact station compared with corresponding data from control station |
| Salinity in PSU (Depth-averaged) | 34.25 PSU or 9% exceedance of value at any impact station compared with corresponding data from control station | 34.56 PSU or 10% exceedance of value at any impact station compared with corresponding data from control station |
| Iron in mg/L (Depth-averaged) | 0.3 mg/L | 0.3 mg/L |
| Total residual chlorine in mg/L | 0.01 mg/L | 0.01 mg/L |
| Total residual chlorine in mg/L (Disinfection) | 0.1 mg/L | 0.1 mg/L |

Notes:

i. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
ii. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
iii. For Turbidity, SS, iron and Salinity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
iv. For the Action and Limit Levels adopted during First-year Operation Phase Monitoring, further review would be made according to the EM&A Manual during Operation Phase.



The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

v. Monitoring of Total Residual Chlorine (Disinfection) will be conducted when cleaning and sterilization of the new freshwater main is carried out.
vi. Monitoring of Iron and Total Residual Chlorine were conducted during the pre-operation phase.

b) Monitoring of Effluent Quality

**Table 2.5 Derived Limit Levels for Water Quality**

| Parameters | Limit |
|---|---|
| **Continuous Monitoring of Effluent Quality** | |
| Flow Rate in $m^3$/day | 216841 |
| Temperature in °C | Maximum 40 |
| Salinity | 71347 |
| SS in mg/L | 13 |
| pH | 6-9 |
| Iron in mg/L | 0.6 |
| Total residual chlorine in mg/L | 0.1 |
| Total Inorganic Nitrogen in mg/L | 2 |
| Total Phosphorous in mg/L | 1 |
| Sodium Metabisulphite in mg/L | 0.5 |
| Anti scalant in mg/L* | 2.2 |

*Remark:
1. Anti-scalant water quality testing will only be conducted whenever anti-scalant dosage is adopted.

## 2.5. MONITORING PROGRAMME

Marine Water Quality Monitoring

The ET of the Contract conducted the operation phase marine water quality monitoring between 1 May 2025 and 30 June 2025 at the thirteen designated monitoring stations near TKO in accordance with the EM&A Manual and Contract Specification.

## 2.6. MONITORING RESULTS AND OBSERVATIONS

Operation Phase

The first-year operation phase marine water quality monitoring was carried out during the reporting period, the monitoring was conducted at the thirteen monitoring stations (CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2 and NF3). The Action and Limit Level would be referred to the approved EM&A Manual Table 5.4 First-year Operation Phase Marine Water Monitoring.

The water quality monitoring at the designated locations were conducted by the ET as scheduled in the reporting period. The graphical presentation of the water quality monitoring result was shown in **Appendix C**.


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

A total of three (3) action level exceedances and eleven (11) limit level exceedances of SS were recorded. Summary of exceedances could be referring to **Appendix F**.

Continuous Monitoring of Effluent Quality

The continuous monitoring of effluent quality was conducted from 1 May 2025 to 31 July 2025. No exceedance of the sampling was obtained during the reporting period.

Monthly Effluent Monitoring (Water Discharge License)

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, continuous monitoring of effluent quality was discontinued and replaced with effluent water monitoring in compliance with discharge license requirements starting from 15 August 2025.

Weekly in-situ monitoring and monthly laboratory measurements of the effluent quality were conducted from September 2025 to April 2026. No exceedance of the results was obtained during the reporting period. The detailed results can be referred to the Monthly EM&A Report.


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

# 3. WASTE

The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. Details of cumulative waste management data are presented as a waste flow table in **Appendix E**.


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

# 4. LANDFILL GAS MONITORING

## 4.1. MONITORING REQUIREMENT

In accordance with Section 11 of the EM&A Manual, monthly monitoring of landfill gas is required for the first year of operation at buildings within the Project Site and consultation zone. Part of the desalination plant and the indicative area of natural slope mitigation works fall within the SENT Landfill Extension Consultation Zone; and part of the 1,200 mm diameter freshwater mains along Wan Po Road falls within the SENT Landfill and SENT Landfill Extension Consultation Zones, TKO Stage II/III Restored Landfill and TKO Stage I Restored Landfill Consultation Zones.

Routine monitoring is required at buildings within the Project Site and consultation zones. The monitoring frequency will be monthly for the first year of operation.

For the manholes and utility pits within the Project Site and along the fresh water mains, each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of 10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit and for each measurement.

Monitoring oxygen, methane, carbon dioxide and barometric pressure would be performed monthly during the operation phase.

The area required to be monitored for landfill gas in the reporting period is shown in **Figure 4.1, Figure 4.2** and **Figure 4.3**.


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

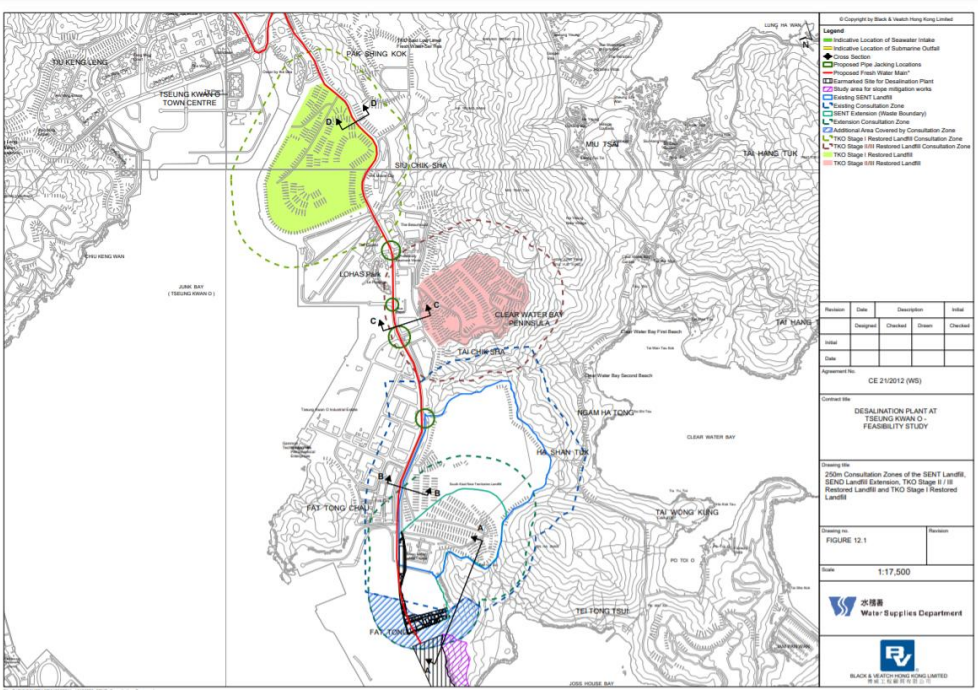



**Figure 4.1 Overview of the SENT Extension Consultation Zone and the Contract Site Area**

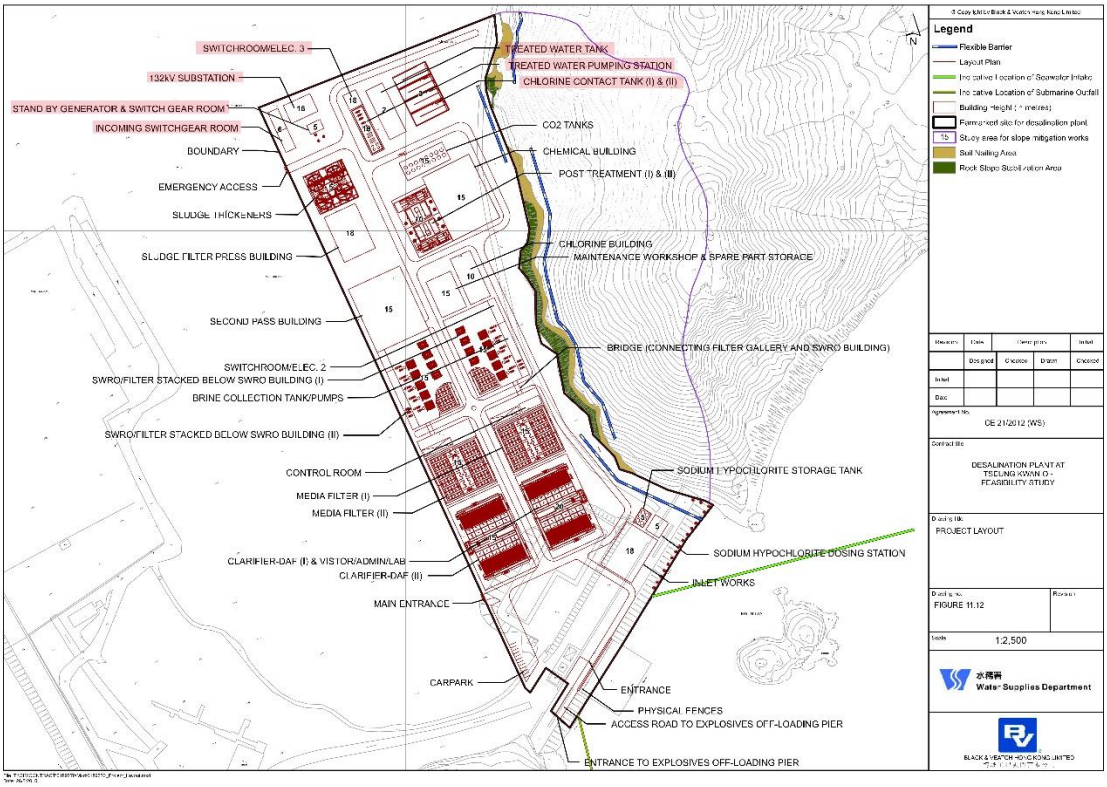



**Figure 4.2 Landfill Gas Monitoring Location For Building**



The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

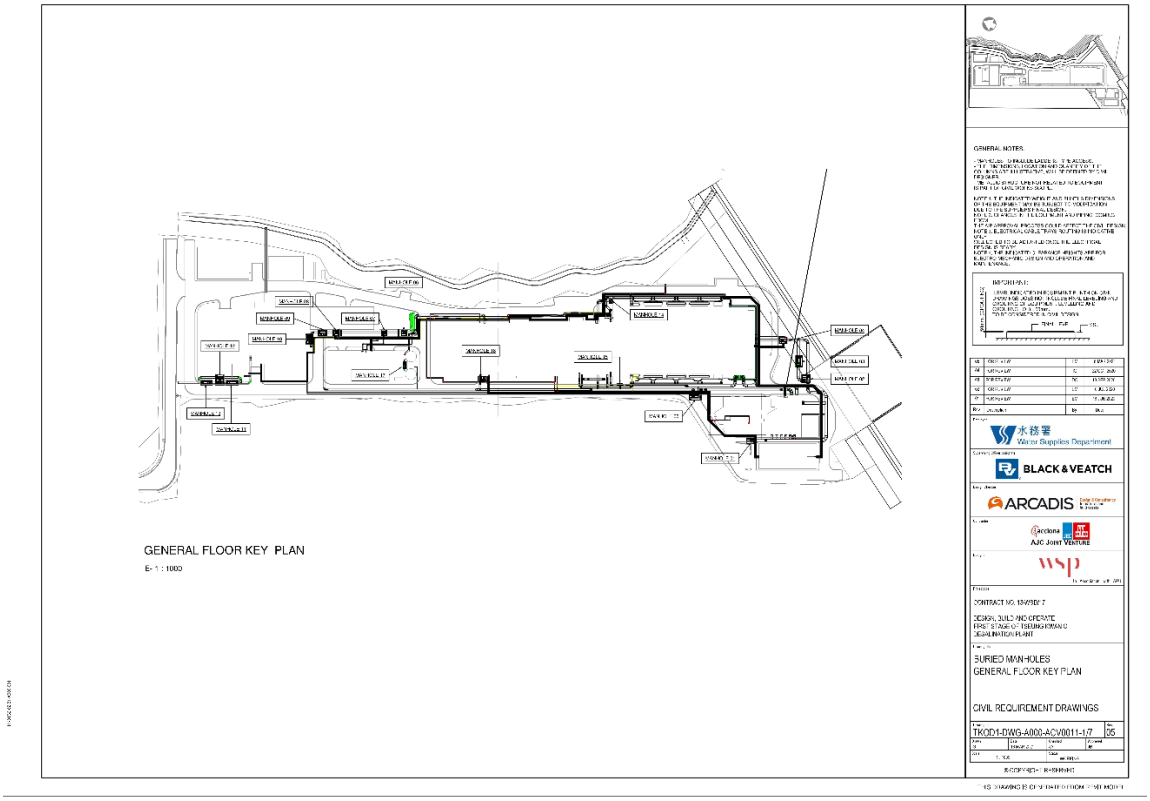



**Figure 4.3 Landfill Gas Monitoring Location For Manholes/Pits**

## 4.2. MONITORING PARAMETERS

LFG monitoring was carried out to identify any migration between the landfill and the Contract and to ensure the safety of the construction, operation and maintenance personnel working on-site, visitors and any other person within the Contract area.

The following parameters were monitored:

- Methane
- Oxygen
- Carbon Dioxide
- Barometric Pressure

## 4.3. MONITORING EQUIPMENT

Landfill Gas monitoring was carried out using intrinsically safe, portable multi-gas monitoring instruments. Detail of monitoring equipment used in the reporting period could be referred to Section 5.10 of the corresponding Monthly EM&A Report.


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

## 4.4. MONITORING RESULTS AND OBSERVATIONS

Five (5) times of landfill gas monitoring were conducted in the reporting period. No action or limit level exceedance was recorded in the reporting period.

Action and Limit Level are provided in **Table 4.1**.

**Table 4.1 Action / Limit Levels and Event and Action Plan for LFG Hazard**

| Parameters | Action Level | Limit Level |
|---|---|---|
| Oxygen ($O_2$) | <19% $O_2$ | <19% $O_2$ |
| Methane ($CH_4$) | >10% LEL | >20% LEL |
| Carbon Dioxide ($CO_2$) | >0.5% $CO_2$ | >1.5% $CO_2$ |


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

# 5. ECOLOGY (CORAL MONITORING)

Under the approval conditions of the EIA Report for the Project, an EM&A programme on coral for the pre-operation phase of the Project is recommended. Pursuant to these EIA approval conditions and Condition 3.1 of the EP and FEP, details of the regular coral monitoring programme have been proposed based on the baseline coral monitoring results in the Report on Pre-Operation Baseline Coral Monitoring and Regular Coral Monitoring Methodology.

## MONITORING LOCATION

In accordance with Appendix B Section 5.1 of the approved supplementary EM&A Manual, two indirect impact sites (C2 and C3) and one control site (C8) as shown in **Figure 5.1** should be monitored during the pre-operation Phase. Pre- operation coral survey should be conducted at the indirect impact and control sites. Ten selected hard coral colonies with similar species should be tagged at each of the control and indirect impact sites before commencement of the operation phase. Tagged hard coral colonies should be monitored in open waters during the pre- operation phase and operation phase.

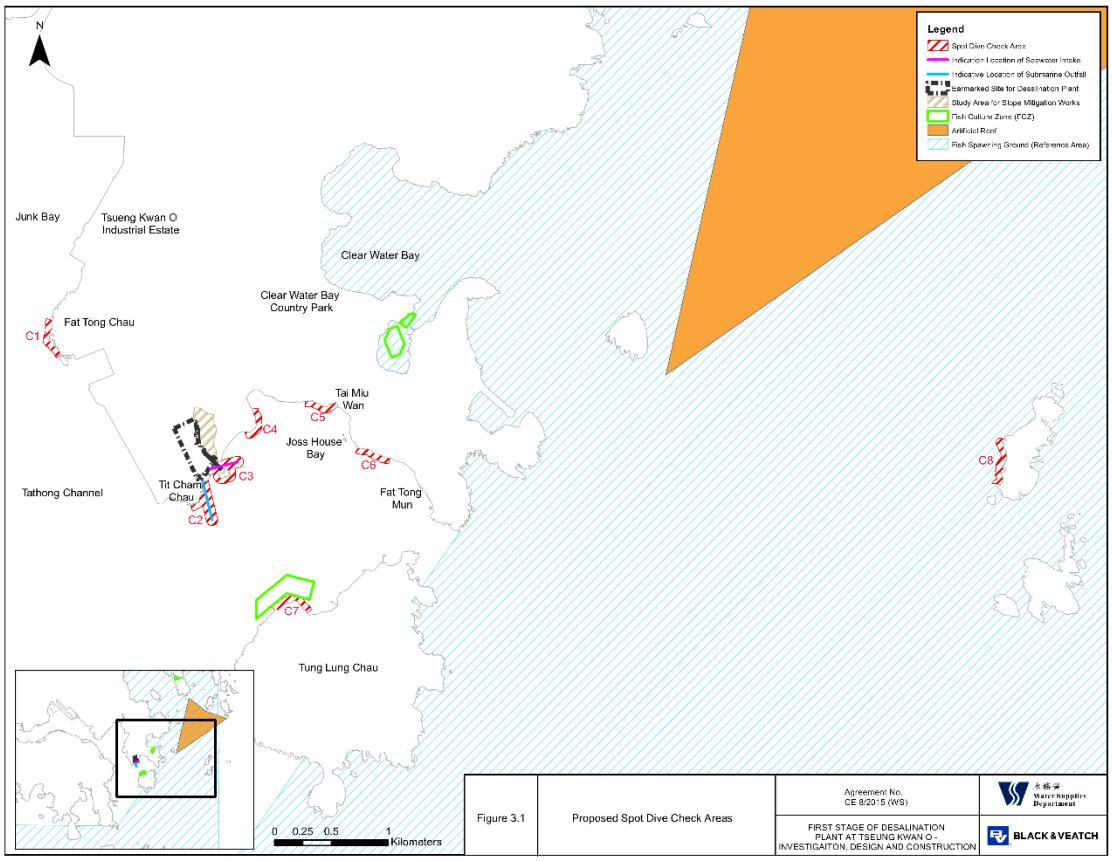



**Figure 5.1 Spot Dive Check Areas Two Proposed Indirect Impact Sites (C2 and C3) and one control site (C8) during pre-operation Phase**

## ACTION AND LIMIT LEVELS

The Action and Limit Levels have been set based on the derivation criteria specified in the EM&A Manual. The Action/Limit Levels have been derived and are presented in **Table 5.1**.



The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

**Table 5.1 Action and Limit Level for Coral Monitoring Equipment**

| Parameter | Action Level Definition | Limit Level Definition |
|---|---|---|
| Mortality | If during Impact Monitoring a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the tagged indirect impact site coral colonies that is not recorded on the tagged corals at the control site, then the Action Level is exceeded | If during Impact Monitoring a 25% increase in the percentage of partial mortality on the corals occurs at more than 20% of the tagged indirect impact site coral colonies that is not recorded on the tagged corals at the control site, then the Limit Level is exceeded |

Note: If the defined Action Level or Limit Level for coral monitoring is exceeded, the actions as set out in **Table E3 of Appendix E** will be implemented.

If non-compliance were found during the construction works, the actions in accordance with the Event and Action Plan will be carried out according to **Appendix H.**

### MONITORING FREQUENCY

Operation phase coral monitoring shall be monitored once per month as the requirement of the first year of operational phase.

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, coral monitoring will be conducted on a quarterly basis starting from August 2025.

### MONITORING RESULT AND OBSERVATION

A total of eight (8) operation phase coral monitoring were conducted. There were no AL/LL exceedances observed during the reporting period. The detailed result of the monitoring is presented in Appendix I of the Monthly EM&A Report.


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

# 6. ECOLOGY (FISHERY MONITORING)

The purpose of the operation phase regular fisheries monitoring programme is to monitor the potential impacts on fisheries resources in the vicinity of the project site. Apart from the regular fisheries monitoring programme, a water quality monitoring programme in addition to the water quality monitoring programme in the approved EM&A Manual is also described in Section 2.4 to (i) provide supplementary information in the interpretation of the findings of the fisheries monitoring and (ii) assist the monitoring of the potential impact on the Tung Lung Chau Fish Culture Zone (FCZ) in Joss House Bay.

### MONITORING LOCATION

In accordance with Section 2.3 of the approved Methodology Paper on Regular Fisheries Monitoring, it is recommended to set up six (6) fisheries monitoring locations in Joss House Bay and its vicinity to monitor the fisheries resources.

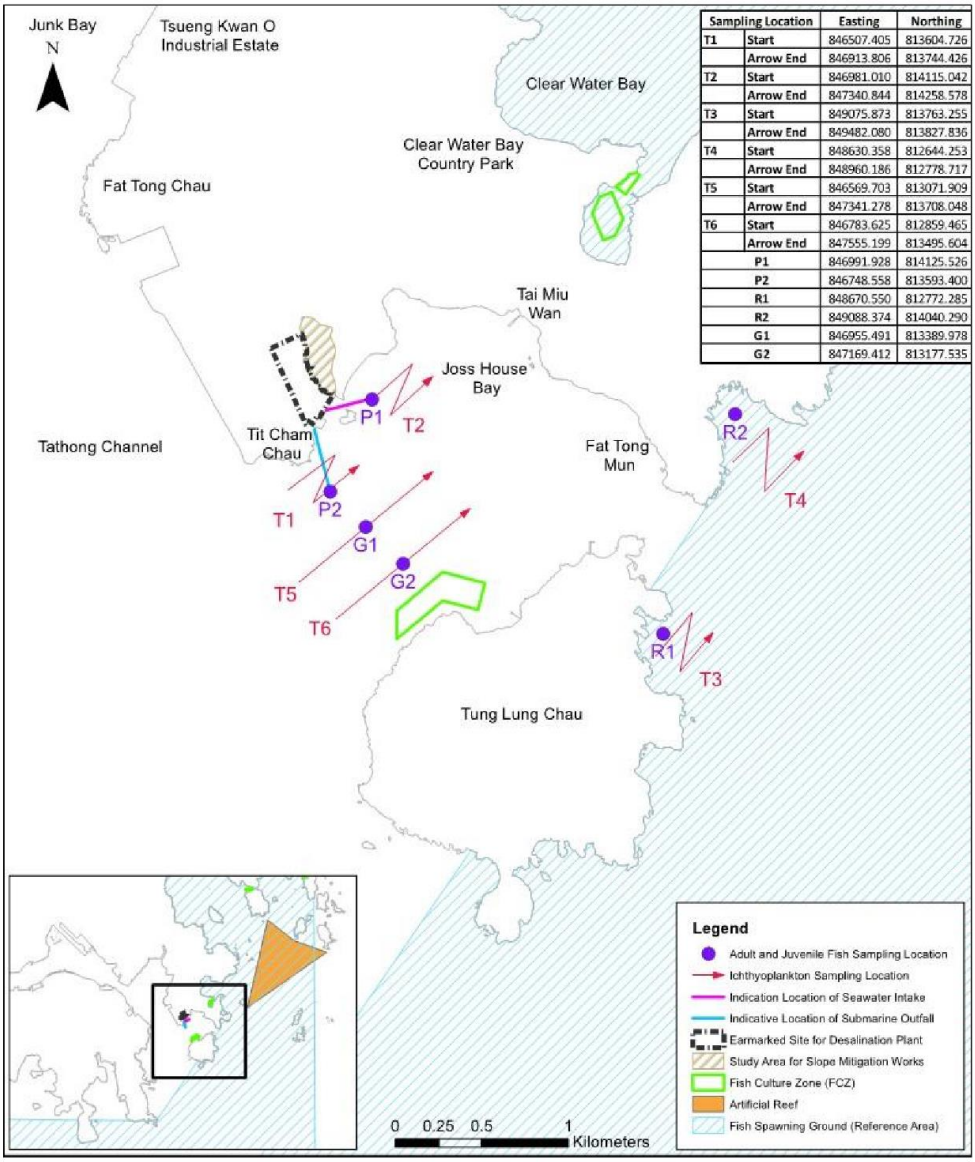
Two (2) sampling locations are set up in close proximity of the direct footprint of the proposed submarine utilities around TKO Area 137. These sampling locations represent the potential Project impact zones (i.e. areas at and in close proximity to the footprint of the proposed submarine utilities that will be directly affected by the Project works).

Two (2) gradient locations are proposed between the proposed submarine utilities and Tung Lung Chau FCZ to assist in the interpretation and identification of any potential fisheries impact in the vicinity of the FCZ.

Two (2) reference locations are proposed in the outer Joss House Bay between the waters of Tung Lung Chau and Fat Tong Mun. These reference locations are further away and will not be affected by the Project discharge (based on the EIA prediction) and will serve as control stations. Any significant fisheries impact identified at the reference locations should be caused by other natural factors or non-Project activities. The trends of fisheries conditions recorded in the reference locations will be used to assist in the interpretation of the trends of fisheries impact identified in the impact and gradient locations.

The coordinates of the proposed monitoring locations are shown in **Figure 7.1.**


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.




| Sampling Location | | Easting | Northing |
|---|---|---|---|
| T1 | Start | 846507.405 | 813604.726 |
| | Arrow End | 846913.806 | 813744.426 |
| T2 | Start | 846981.010 | 814115.042 |
| | Arrow End | 847340.844 | 814258.578 |
| T3 | Start | 849075.873 | 813763.255 |
| | Arrow End | 849482.080 | 813827.836 |
| T4 | Start | 848630.358 | 812644.253 |
| | Arrow End | 848960.186 | 812778.717 |
| T5 | Start | 846569.703 | 813071.909 |
| | Arrow End | 847341.278 | 813708.048 |
| T6 | Start | 846783.625 | 812859.465 |
| | Arrow End | 847555.199 | 813495.604 |
| | P1 | 846991.928 | 814125.526 |
| | P2 | 846748.558 | 813593.400 |
| | R1 | 848670.550 | 812772.285 |
| | R2 | 849088.374 | 814040.290 |
| | G1 | 846955.491 | 813389.978 |
| | G2 | 847169.412 | 813177.535 |

**Figure 7.1 Monitoring location of regular fishery monitoring during operation Phase**

### MONITORING FREQUENCY

Pre-operation phase fishery monitoring shall be carried out 2 times in wet season (April to October) and 2 times in dry season (November to March) to examine the following:

- Fish species composition;
- Abundance: number of fish captured;
- Diversity of fish resources: species diversity and evenness;
- Size: range of total length; Biomass in weight; and
- Values of catches of commercial species: catch per unit effort (CPUE) and yield per unit effort (YPUE).


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

### MONITORING RESULT AND OBSERVATION

Four (4) operation phase fishery monitoring were conducted during the reporting period. For wet season was carried out in 16 and 23 August 2025 and for dry season was carried out in 7 and 15 February 2026. No AL/LL exceedance was recorded during the reporting period. The detailed result of the monitoring is presented in the Monthly EM&A Report.


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

# 7. SUMMARY OF EXCEEDANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

The Environmental Complaint Handling Procedure is shown in below **Figure 8.1:**

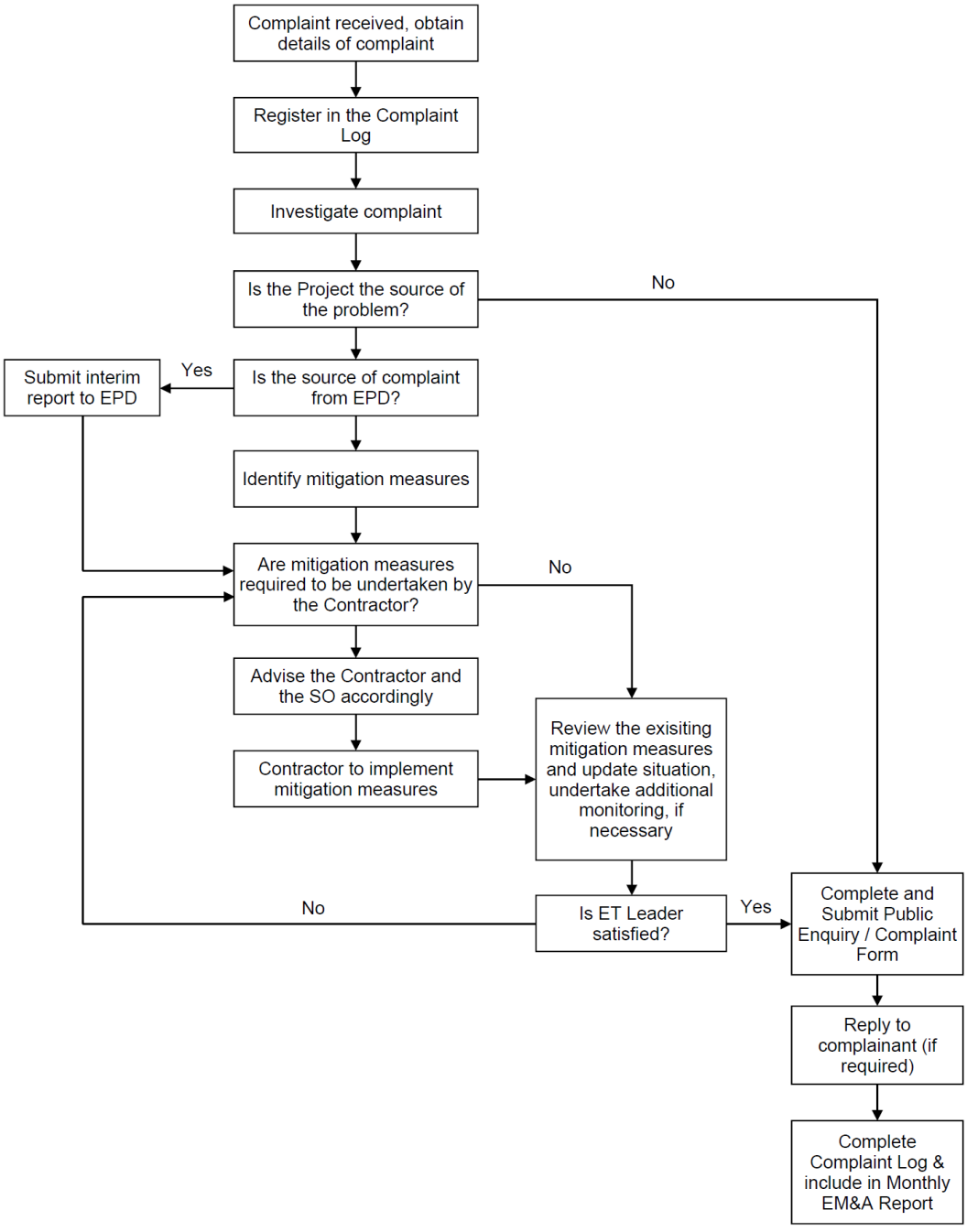



**Figure 8.1 Environmental Complaint Handling Procedures**



The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

Operation Phase Impact Water Quality Monitoring was conducted from 1 May 2025 and completed on 30 June 2025. A total of three (3) action level exceedances and eleven (11) limit level exceedances of SS were recorded.

The continuous monitoring of effluent quality was conducted from 1 May 2025 to 31 July 2025. No exceedance of the sampling was obtained during the reporting period.

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, continuous monitoring of effluent quality was discontinued and replaced with effluent water monitoring in compliance with discharge license requirements starting from 15 August 2025.

Weekly in-situ monitoring and monthly laboratory measurements of the effluent quality were conducted from September 2025 to April 2026. No exceedance of the results was obtained during the reporting period. The detail results can be referred to the Monthly EM&A Report.

Monthly operational landfill gas monitoring was conducted from 1 May 2025 to 31 July 2025.

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, landfill gas monitoring will be conducted on a six-month basis starting from August 2025.

A total of five (5) landfill gas monitoring was conducted during the reporting period. No exceedances of the Action or Limit Levels were recorded during the reporting period.

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, coral monitoring will be conducted on a quarterly basis starting from August 2025.

A total of eight (8) operation phase coral monitoring was conducted. There were no AL/LL exceedances observed during the reporting period.

Four (4) operation phase fishery monitoring were conducted during the reporting period. For wet season was carried out in 16 and 23 August 2025 and for dry season was carried out in 7 and 15 February 2026. No AL/LL exceedance was recorded during the reporting period.

No complaint, notification of summons and prosecution was received in the reporting period. Summary of complaint log are presented **in Appendix G**.


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

# 8. EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract from May 2025 to August 2025.

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, site inspection will be conducted on a bi-weekly basis starting from 15 August 2025.

Thirty-seven (37) site inspections were carried out in the reporting period.

Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections and during the reporting period could be referring to **Appendix D** and corresponding Monthly Report.

According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents should be implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix B.**


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

# 9. CONCLUSIONS AND RECOMMENDATIONS

This is the 6th Annual EM&A Review Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 May 2025 to 30 April 2026, in accordance with the EM&A Manual and the requirement under FEP – 01/503/2015/A and FEP – 01/503/2015/B.

Operation Phase Impact Water Quality Monitoring was conducted from 1 May 2025 and completed on 30 June 2025. A total of three (3) action level exceedances and eleven (11) limit level exceedances of SS were recorded.

The continuous monitoring of effluent quality was conducted from 1 May 2025 to 31 July 2025. No exceedance of the sampling was obtained during the reporting period.

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, continuous monitoring of effluent quality was discontinued and replaced with effluent water monitoring in compliance with discharge license requirements starting from 15 August 2025.

Weekly in-situ monitoring and monthly laboratory measurements of the effluent quality were conducted from September 2025 to April 2026. No exceedance of the results was obtained during the reporting period. The detail results can be referred to the Monthly EM&A Report.

Monthly operational landfill gas monitoring was conducted from 1 May 2025 to 31 July 2025.

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, landfill gas monitoring will be conducted on a six-month basis starting from August 2025.

A total of five (5) landfill gas monitoring was conducted during the reporting period. No exceedances of the Action or Limit Levels were recorded during the reporting period.

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, coral monitoring will be conducted on a quarterly basis starting from August 2025.

A total of six (6) operation phase coral monitoring was conducted. There were no AL/LL exceedances observed during the reporting period.

Four (4) operation phase fishery monitoring were conducted during the reporting period. For wet season was carried out in 16 and 23 August 2025 and for dry season was carried out in 7 and 15 February 2026. No AL/LL exceedance was recorded during the reporting period.


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

Environmental site inspection was conducted during the reporting period. Minor deficiency was observed during site inspection. The environmental performance of the project was therefore considered satisfactory.

According to the environmental site inspections performed in the reporting period, the Contractor is reminded to pay attention on maintaining proper materials storage, site tidiness and chemical storage on site.

No environmental complaint, notifications of summons and prosecution was received during the reporting period.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.


The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

# Appendix A

# Overview of Desalination Plant in Tseung Kwan O

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

© Copyright by Black & Veatch Hong Kong Limited

N

846 500 E

847 000 E

814 500 N

814 000 N

TEMPORARY WORKS AREA 1

GLA-TSK 692 TGLA

GLA-TSK 692 TGLA

GLA-TSK 692 TGLA

GLA/TRO-088

ROW FOR GLA/TRO-088

GLA-TSK 745 TGLA

GLA-TSK 567

PORTION A

PORTION B

PROPOSED WORKS LIMIT FOR SLOPE MITIGATION WORKS IN COUNTRY PARK

INDICATIVE LOCATION OF PROPOSED SEAWATER INTAKE

INDICATIVE LOCATION OF PROPOSED OUTFALL

A B C D E F G H J K L M N O

LEGEND:

- BOUNDARY OF SENT LANDFILL EXTENSION
- BOUNDARY OF WORKS AREA FOR TKO DESALINATION PLANT
- SITE PHASING
- ALLOCATED LAND BOUNDARIES

GLA-TSK 692 TGLA

NOTE:

TEMPORARY WORKS AREA 1 WILL BE HANDED OVER AT +6 MPD WITH A TOLERANCE OF ±500mm.

| POINT | EASTING | NORTHING |
|---|---|---|
| A | 846581.93 | 814505.03 |
| B | 846610.11 | 813979.23 |
| C | 846614.73 | 813975.12 |
| D | 846629.09 | 813997.84 |
| E | 846644.75 | 813986.74 |
| F | 846646.80 | 813985.28 |
| G | 846677.24 | 814034.67 |
| H | 846686.56 | 814028.89 |
| I | 846766.21 | 814158.11 |
| J | 846459.65 | 814448.83 |
| K | 846578.45 | 814048.11 |
| L | 846813.89 | 814105.63 |
| M | 846814.60 | 814117.96 |
| N | 846676.84 | 814207.77 |
| O | 846756.68 | 814164.57 |

PRELIMINARY – NOT FOR CONSTRUCTION

| Revision | Date | Description | Initial |
|---|---|---|---|
| B | 10/03 | UPDATE NOTES | YLC |
| A | 07/18 | UPDATE COORDINATES | YLC |

| | Designed | Checked | Drawn | Checked |
|---|---|---|---|---|
| Initial | YLC | CKH | SZ | WLS |
| Date | 02/18 | 02/18 | 02/18 | 02/18 |

Approved

Agreement No.
CE 8/2015 (WS)

Contract No.
13/WSD/17

Contract Title
DESIGN, BUILD AND OPERATE FIRST STAGE OF TSEUNG KWAN O DESALINATION PLANT

Drawing Title
SITE HANDOVER WORKS AREAS

Drawing No.
190495/K/TEND/10/0003

Revision
B

Scale
A1 1 : 1500
A3 1 : 3000

水務署
Water Supplies Department

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

## BUILDINGS IN FIRST STAGE

| CODE | NAME OF BUILDING | TOTAL G.F.A. ($m^2$) | SITE COVERAGE ($m^2$) |
|---|---|---|---|
| B | COMBINE SHAFT | 759,876 | 759,876 |
| C | ACTIDAFF | 10027,547 | 5455,346 |
| G | REVERSE OSMOSIS BUILDING AND ELECTRICAL BUILDING | 4511,455 | 5367,935 |
| H | CO2 TANKS AREA | - | - |
| J | PRODUCT WATER STORAGE TANK, PUMP STATION AND ELECTRICAL BUILDING | 1974,610 | 2833,980 |
| K | SLUDGE TREATMENT BUILDING, TANK AND PUMP ROOM | 2531,044 | 1228,361 |
| M | ADMINISTRATION BUILDING & ELECTRICAL BUILDING C | 2459,713 | 1114,062 |
| N | MAIN ELECTRICAL AND CENTRAL CHILLER PLANT BUILDING | - | 459,893 |
| R1 | ELECTROCHLORINATION BUILDING & ELECTRICAL BUILDING A | 657,992 | 525,776 |
| S | 132 kV SUBSTATION | - | 943,560 |
| T | IRRIGATION WATER TANK AND PUMP ROOM | - | 156,148 |
| R2 | CHEMICAL BUILDING | 813,056 | 813,056 |
| V | VISITOR GALLERY | 1330,410 | 1330,410 |
| X1 | GUARD HOUSE AND FS CONTROL ROOM | 39,585 | 39,585 |
| X2 | GUARD HOUSE | 22,035 | 22,035 |
| Y | R + D OUTDOOR | - | - |
| Z | WASTE WATER TREATMENT PLANT | 48,000 | 48,000 |
| | TOTAL = | 25175,323 | 21498,023 |

## LEGEND / ABBREVIATION

| | |
|---|---|
| HL WINDOW | HIGH LEVEL WINDOW |
| M.L. | METAL LOUVRES |
| C.L. | CAT LADDER |
| A.U.T. | ACCESSIBLE UNISEX TOILET |
| ⌖ | PROPOSED FINISH FLOOR LEVEL IN METER ABOVE P.D. |
| ⌖ | STRUCTURAL FLOOR LEVEL IN METER ABOVE P.D. |
| M/A/L | MECHANICAL VENTILATION & ARTIFICIAL LIGHTING |
| F.E. | 4.5kg $CO^2$ FIRE EXTINGUISHER |
| H.R. | HOSE REEL |
| Ⓐ | FIREMAN'S LIFT |
| Ⓓ | LIFT FOR THE BARRIER FREE ACCESS |
| P.D. | PIPE DUCT |

## PLOT RATIO & SITE COVERAGE CALCULATION:

SITE AREA OF THE FIRST STAGE = [illegible]

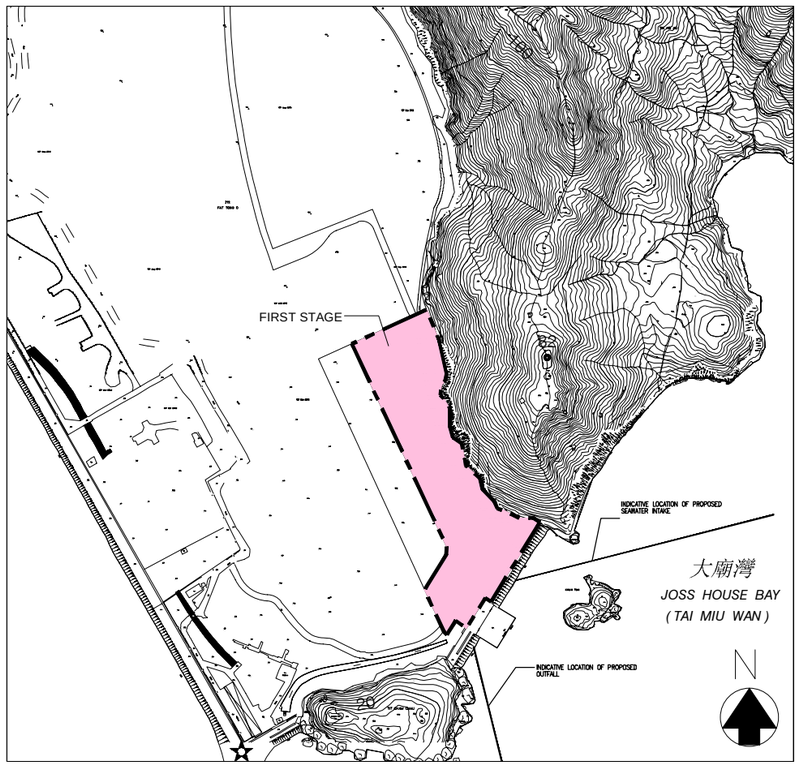
TOTAL G.F.A. = [illegible]
TOTAL SITE COVERAGE = [illegible]

PLOT RATIO = 25092.141 / 56108
= 0.447 < PERMITTED

SITE COVERAGE = 21414.841 / 56108 x 100
= 38.167%

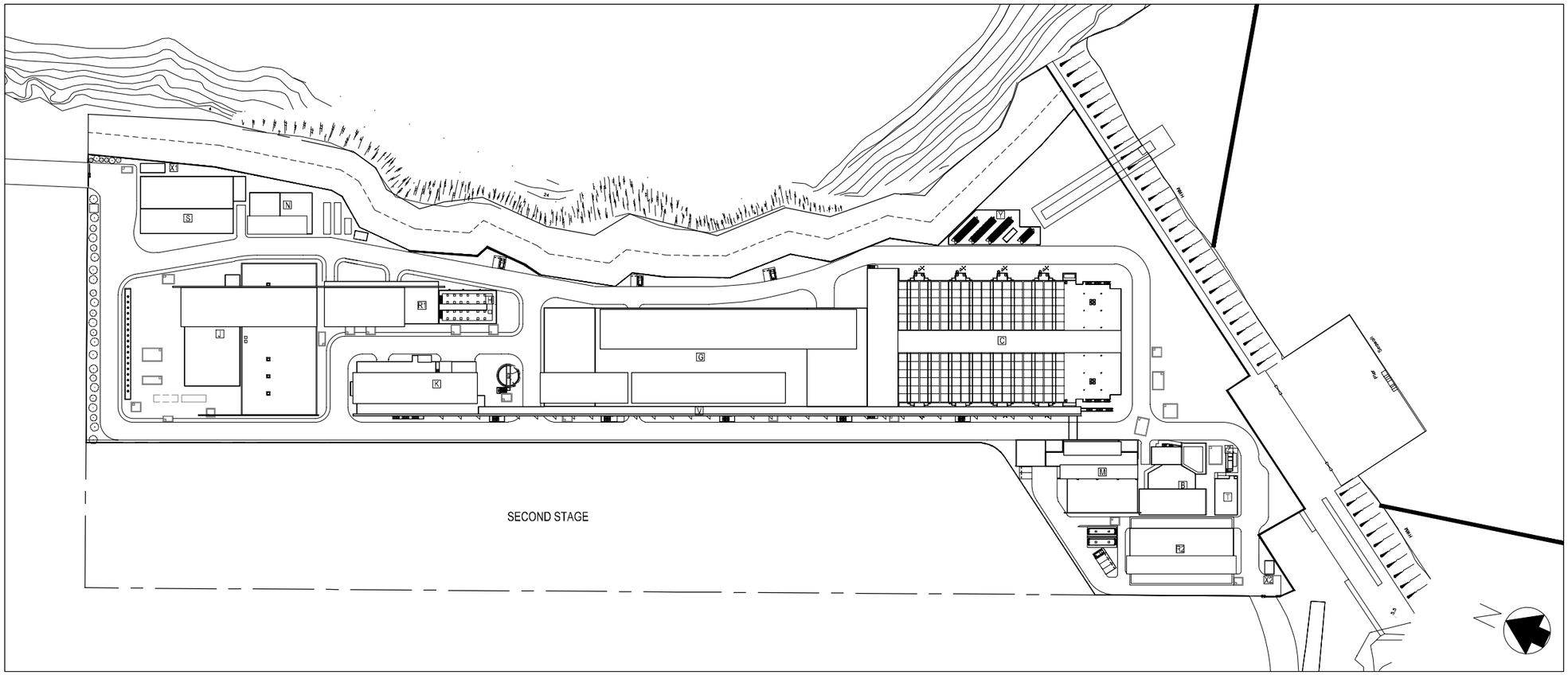
## SITE LOCATION PLAN

1 : 5000




## FIRST STAGE OF TSEUNG KWAN O DESALINATION PLANT

1 : 1000




| Rev | Description | By | Date |
|---|---|---|---|
| 0 | TENDER SUBMISSION | CAD | JAN 19 |

Employer: 水務署 Water Supplies Department

Employer's Consultant: BLACK & VEATCH

Tenderer: acciona / JEC / CRCC — AJC JOINT VENTURE

Designer: wsp

Project title:
CONTRACT NO. 13/WSD/17

DESIGN, BUILD AND OPERATE
FIRST STAGE OF TSEUNG KWAN O
DESALINATION PLANT

Drawing title:
ARCHITECTURAL –
PLOT RATIO AND SITE COVERAGE CALCULATION, LEGEND ABBREVIATION

| Drawing no. | Rev. |
|---|---|
| TKO/AJC/W/A000/AR/001 | 0 |

| Drawn | Date | Checked | Approved |
|---|---|---|---|
| CKAL | JAN 19 | S.C. | T.C. |

Scale: N.T.S.
Status: –

©COPYRIGHT RESERVED

# Appendix B

# Summary of Implementation Status of Environmental Mitigation

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementation Agent | Implementation Stage | | | Implementation status | Relevant Legislation & Guidelines |
|---|---|---|---|---|---|---|---|---|
| | | | | D | C | O | | |
| **Air Quality** | | | | | | | | |
| S4.8.1 | 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. | Land site/ During construction/ During Operation | Contractor(s) | | ✓ | ✓ | Implemented | Environment, Transport and Works Bureau Technical Circular (ETWB- TC(W)) No 19/2005 on Environmental Management on Construction Sites |
| **Water Quality** | | | | | | | | |
| S6.9 and S6.12 | The sterilization water should be dechlorinated with total residual chlorine (TRC) level below 1 mg/L before discharge to public sewer. In situ testing of TRC should also be conducted for the discharge of chlorinated water for pipeline disinfection to ensure sufficient dechlorination before discharge to public sewer. | Sterilization of water mains prior to commissioning | Contractor(s) | | ✓ | ✓ | Implemented | Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters |
| S6.9 | The cleaning and flushing water should also be treated and desilted to the relevant discharge requirement stipulated in TM-DSS before discharging. | Sterilization of water mains prior to commissioning | Contractor(s) | | ✓ | ✓ | Implemented | |
| S6.9 | Site drainage should be well maintained, and good construction practices should be observed to ensure that oil, fuels, solvents, and other chemicals are managed, stored and handled properly and do not enter the nearby water streams. | Land site & drainage/ During construction/ During operation | Contractor(s) | | ✓ | ✓ | Implemented | - |
| **Waste Management** | | | | | | | | |
| S8.5 | Provision of sufficient waste disposal points and regular collection for disposal. | All area/ During construction/ During operation | Contractor(s) | | ✓ | ✓ | Implemented | DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness. |
| S8.5 | Chemical waste container shall be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ✓ | ✓ | Implemented | Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes |
| S8.5 | Chemical waste container shall have a capacity of less than 450 L unless the specifications have been approved by the EPD. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ✓ | ✓ | Implemented | |
| S8.5 | A label in English and Chinese shall be displayed on the chemical container in accordance with instructions prescribed in Schedule 2 of the Regulations. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ✓ | ✓ | Implemented | |

| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementation Agent | Implementation Stage | | | Implementation status | Relevant Legislation & Guidelines |
|---|---|---|---|---|---|---|---|---|
| | | | | D | C | O | | |
| S8.5 | Storage areas for chemical waste shall be enclosed on at least 3 sides. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ✓ | ✓ | Implemented | |
| S8.5 | Storage areas for chemical waste shall 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. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ✓ | ✓ | Implemented | |
| S8.5 | Storage areas for chemical waste shall have adequate ventilation. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ✓ | ✓ | Implemented | |
| S8.5 | Storage areas for chemical waste shall be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary). | All area/ During construction/ During operation | Contractor(s)/ WSD | | ✓ | ✓ | Implemented | |
| S8.5 | Storage areas for chemical waste shall be arranged so that incompatible materials are appropriately separated. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ✓ | ✓ | Implemented | |
| S8.5 | General refuse will be stored in enclosed bins or compaction units separately from construction and chemical wastes. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ✓ | ✓ | Implemented after reminder | |
| S8.5 | Adequate number of waste containers will be provided to avoid over-spillage of waste. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ✓ | ✓ | Implemented | DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness. |
| S8.5 | A reputable waste collector will be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ✓ | ✓ | Implemented | - |
| S8.5 | Recycling bins will be provided at strategic locations within the Site to facilitate recovery of recyclable materials (including aluminum can, wastepaper, glass bottles and plastic bottles) from the Site. Materials recovered will be sold for recycling. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ✓ | ✓ | Implemented | - |
| **Landscape & Visual** | | | | | | | | |
| S11.10 & 11.11 | The construction area and area allowed for temporary structures, such as the contractor's office, will be minimized to a practical minimum. (MM1) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | ✓ | ✓ | ✓ | Implemented | - |

| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementation Agent | Implementation Stage | | | Implementation status | Relevant Legislation & Guidelines |
|---|---|---|---|---|---|---|---|---|
| | | | | D | C | O | | |
| S11.10 & 11.11 | At the detailed design stage, the design team will seek to minimize the landscape footprint of the Project and above ground facilities, while satisfying all other requirements. (MM2) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | ✓ | ✓ | ✓ | Implemented | - |
| S11.10 & 11.11 | Design principles will be adopted to take into account the surrounding area, particularly Clear Water Bay Country Park behind and the nearby waterfront, with due consideration given to:<br>- green roofs where practical (i.e. without equipment on the roof);<br>- roadside planting;<br>- aesthetic treatment of all structures;<br>- vertical greening;<br>- screen planting along application site; and<br>- landscape enhancement with amenity planting where practical including planting along the edge (site boundary) fence with native shrubs where feasible, to reduce their visual impact and blend them into the surrounding landscape. (MM3) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | ✓ | ✓ | ✓ | Implemented | - |
| S11.10 & 11.11 | All trees within the Project Site or the potential slope mitigation works area will be carefully protected during construction according to DEVB TCW No. 10/2013 – Tree Preservation (MM4) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | ✓ | ✓ | ✓ | Implemented | ETWB TCW No. 3/2006 - Tree Preservation. |
| S11.10 & 11.11 | No tree within the Country Park will be felled. Trees within the Site unavoidably affected by the works will be transplanted where necessary and practical. For trees that need to be felled, compensatory planting will be provided to the satisfaction of relevant Government departments.<br>A compensatory tree planting proposal including locations of tree compensation will be submitted to seek relevant government department's approval, in accordance with DEVB TC(W) No. 10/2013. (MM5) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | ✓ | ✓ | ✓ | Implemented | DEVB TC(W) No. 10/2013 |
| S11.10 & 11.11 | Any slope mitigation works necessary to address natural terrain hazards, will be minimized to minimize any potential environmental impact to the Country Park e.g. soil nailing and rock stabilization will aim to avoid existing trees e.g. should any restoration of vegetation be necessary, the best planting matrix with native species will be established, with the aim of resembling the existing vegetation. (MM6) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | ✓ | ✓ | ✓ | Implemented | |
| S11.10 & 11.11 | Dredging works for the installation of intake structures and outfall diffusers should be minimized to avoid or reduce any potential environmental impacts to as low as reasonably practicable (ALARP). The intake and outfall structures (e.g. intake openings and diffuser heads) will be prefabricated and transferred to site for | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | ✓ | ✓ | ✓ | Implemented | |

| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementation Agent | Implementation Stage | | | Implementation status | Relevant Legislation & Guidelines |
|---|---|---|---|---|---|---|---|---|
| | | | | D | C | O | | |
| | installation. (MM7) | | | | | | | |
| S11.10 & 11.11 | All night-time lighting will be reduced to a practical minimum both in terms of number of level and will be hooded and directional. (MM8) units and lux level and will be hooded and directional. (MM8) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | ✓ | ✓ | ✓ | Implemented | - |
| **Landfill Gas Hazard** | | | | | | | | |
| S12.7 | During all works, safety procedures should be implemented to minimize the risks of fires and explosions, asphyxiation of workers and toxicity effects resulting from contact with contaminated soil and groundwater. | All area/ Detailed design/ During construction/operation | Contractor(s) | ✓ | ✓ | ✓ | Implemented | - |
| S12.7 | During trenching and excavation as well as creation of confined spaces at near to or below ground level, precautions should be clearly laid down and rigidly Gas detection equipment and appropriate breathing apparatus should be available and used when entering confined spaces or trenches deeper than 1 meter. | All area/ Detailed design/ During construction/operation | Contractor(s) | ✓ | ✓ | ✓ | Implemented | |
| S12.7 | The Contractor should make the workers are aware of potential hazards of working in confined spaces (any chamber, manhole or culvert which is large enough to permit access to personnel). Such work in confined spaces is controlled by the Factories and Industrial Undertakings (Confined Spaces) Regulations of the Factories and Industrial Undertakings Ordinance.<br>Following the Safety Guide to Working in Confined Spaces ensures compliance with the above regulations. | All area/ Detailed design/ During construction/operation | Contractor(s) | ✓ | ✓ | ✓ | Implemented | |
| S12.7 | Safety officers, specifically trained with regard to landfill gas and leachate related hazards and the appropriate actions to take in adverse circumstances, should be present on the site throughout the works, in particular, when works are undertaken below grade. | All area/ Detailed design/ During construction/operation | Contractor(s) | ✓ | ✓ | ✓ | Implemented | |
| S12.7 | All personnel who work on site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of the works, the possible presence of contaminated water and the need to avoid physical contact with it. | All area/ Detailed design/ During construction/operation | Contractor(s) | ✓ | ✓ | ✓ | Implemented | |
| S12.7 | Monitoring for landfill gas should be undertaken in all excavations, manholes, chambers (particularly during pipe jacking) and any confined spaces through the use of an intrinsically safe portable instrument, appropriately calibrated and capable of measuring the concentrations of methane. carbon dioxide and oxygen. | All area/ Detailed design/ During construction/operation | Contractor(s) | ✓ | ✓ | ✓ | Implemented | |
| S12.7 | Monitoring frequency and areas to be monitored should be specified prior to commencement of groundwork, either by the Safety Officer, or by an appropriately qualified person. All measurements should be recorded and documented. | All area/ Detailed design/ During construction/operation | Contractor(s) | ✓ | ✓ | ✓ | Implemented | |

| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementation Agent | Implementation Stage | | | Implementation status | Relevant Legislation & Guidelines |
|---|---|---|---|---|---|---|---|---|
| | | | | D | C | O | | |
| S12.7 | Proceed drilling with adequate care and precautions against the potential hazards which may be encountered. | All area/ Detailed design/ During construction/operation | Contractor(s) | ✓ | ✓ | ✓ | Implemented | |
| S12.7 | Prior to the commencement of the site works, the drilling contractor should devise a 'method-of- working' statement covering all normal and emergency procedures (including but not limited to number of operatives, experience and special skills of operatives, normal method of operations, emergency procedures, *supervisors* responsibilities, storage and use of safety equipment, safety procedures and signs, barriers and guarding). The site *supervisor* and all operatives must be familiar with this statement. | All area/ During construction/operation | Contractor(s) | ✓ | ✓ | ✓ | Implemented | |
| S12.7 | Where below ground service entries are necessary to the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II), the entry point should be sealed to prevent gas entry. In addition, any below grade cable trenches entering the Incoming Switchgear Room and 132 kV Substation can become the pathway for landfill gas and hence grilled metal covers should be used. | All area/ Detailed design/ During construction/operation | Contractor(s) | ✓ | ✓ | ✓ | Implemented | |
| S12.7 | It is recommended regular landfill gas monitoring should be carried out at the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II). The monitoring frequency will be monthly for the first year of operation. If the monitoring results show no sign of landfill gas migration, reduce the monitoring frequency to once every six months. | All area/ Detailed design/ During construction/operation | Contractor(s) | ✓ | ✓ | ✓ | Implemented | |
| S12.7 | The manholes and utility pits within the Project Site and along the fresh water mains. Each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of 10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit and for each measurement. The need for venting the manhole/ utility pit and further monitoring will be reviewed after the initial monitoring. | All area/ Detailed design/ During construction/operation | Contractor(s) | ✓ | ✓ | ✓ | Implemented | |
| S12.7 | All construction, operation and maintenance personnel working on-site as well as visitors should be made aware of the hazards of landfill gas and its possible presence on-site. This should be achieved through a combination of posting warning signs in prominent places and also by access to detailed information on landfill gas hazards and the designs and procedural means by which these hazards are being minimized on-site. | All area/ Detailed design/ During construction/operation | Contractor(s) | ✓ | ✓ | ✓ | Implemented | |

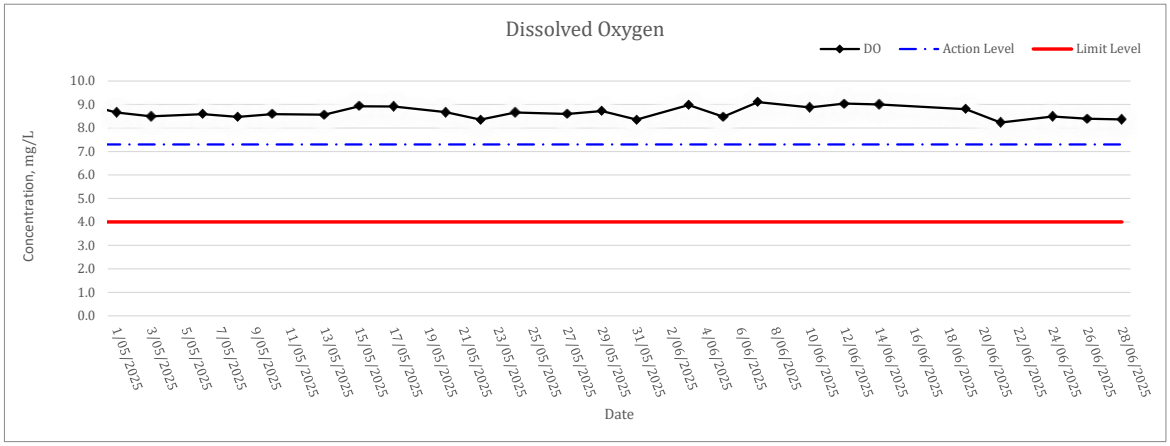
Note: D – Design stage C – Construction O – Operation

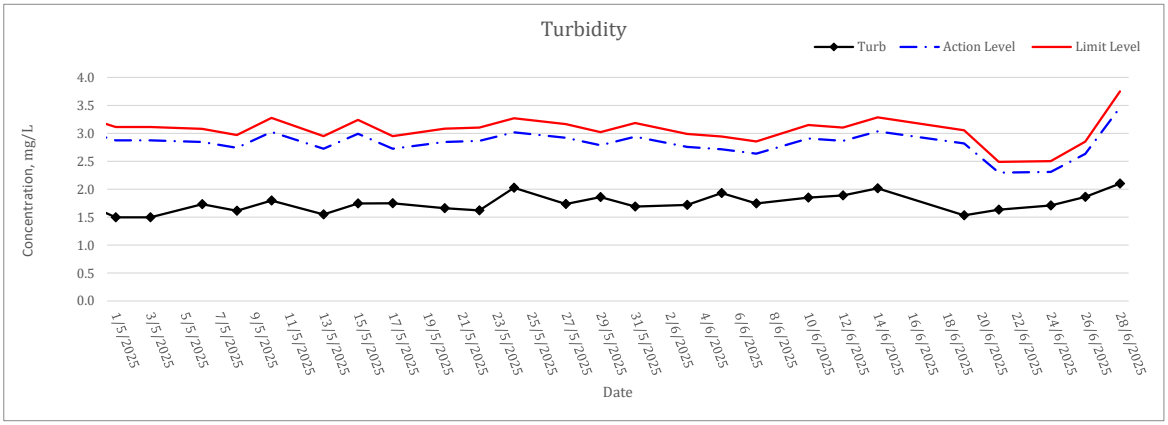
# Appendix C

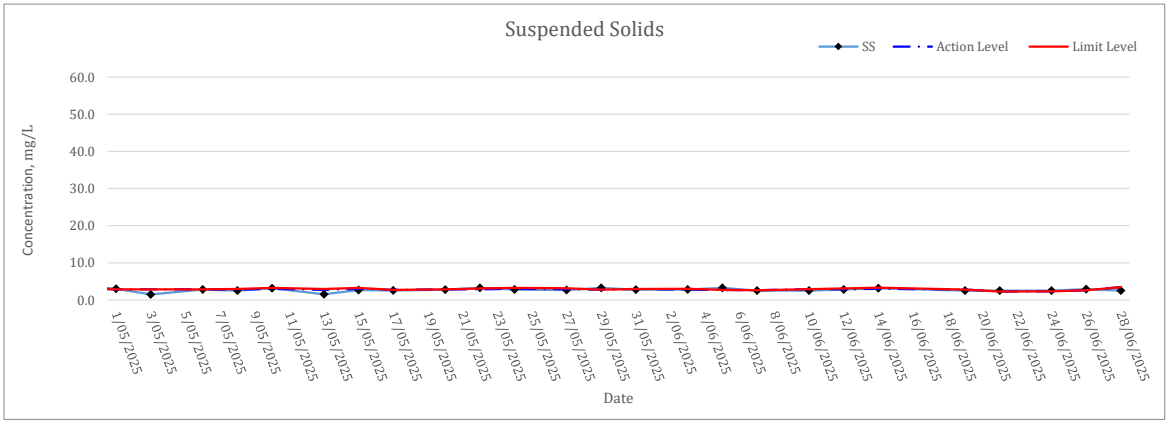
# Water Quality Monitoring Graphical Presentation

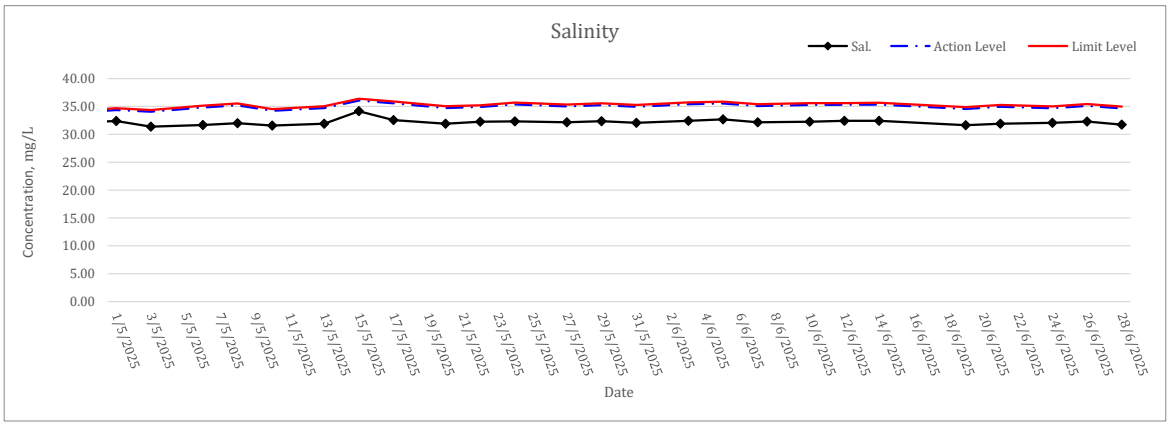
- Appendix C.1 Weather Condition
- Appendix C.2 Other Factor Might Affect the Monitoring Results

## Monitoring Location: WSR1

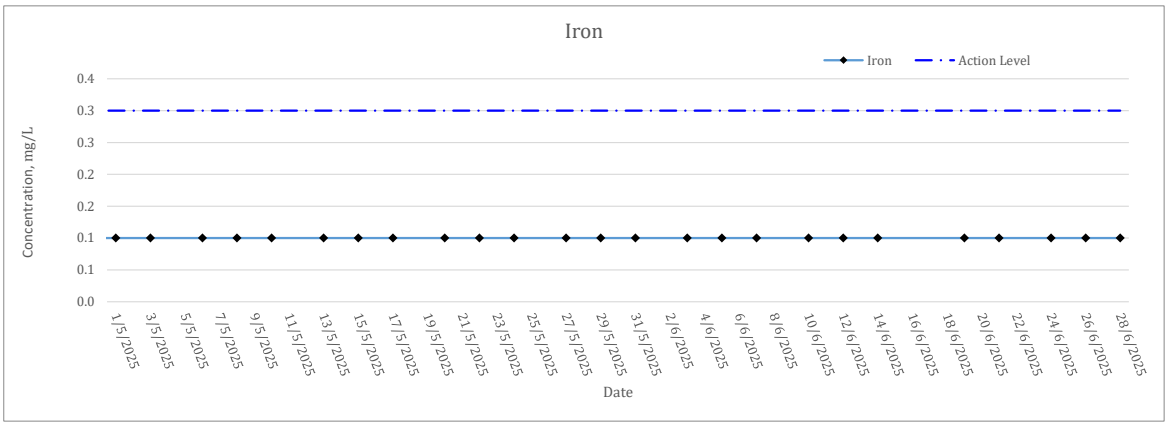


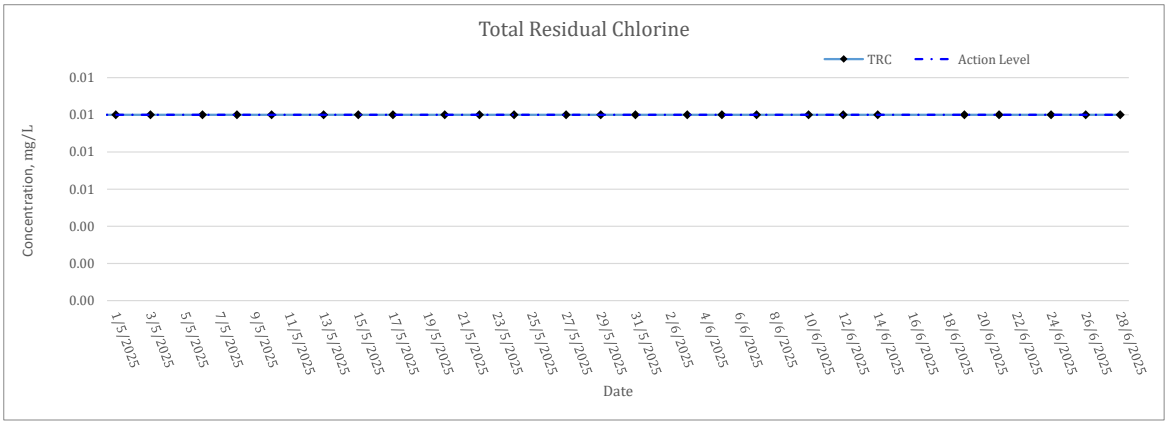



## Monitoring Location: WSR1

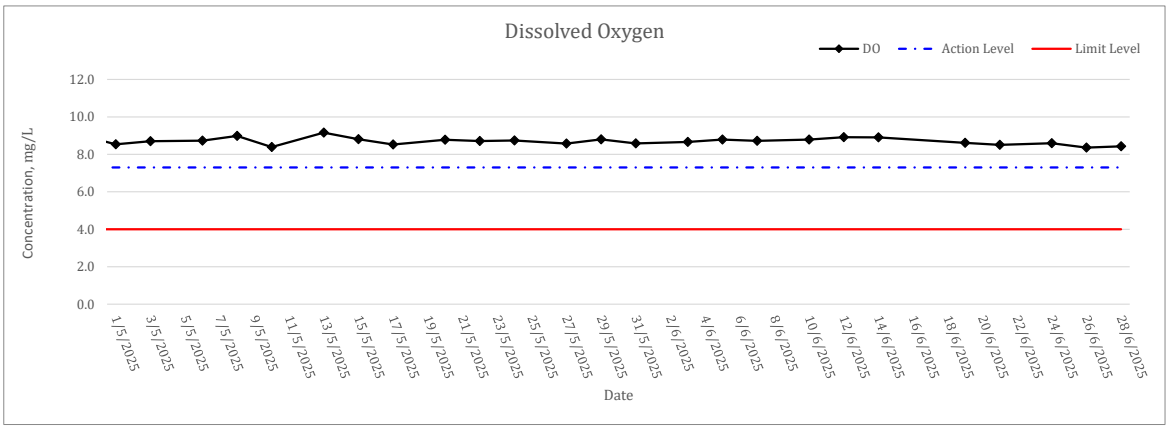


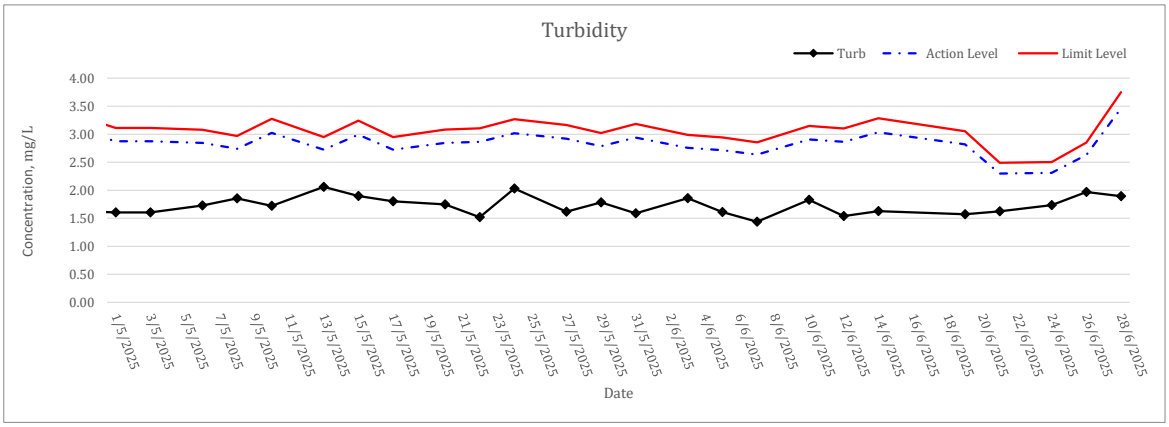

Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

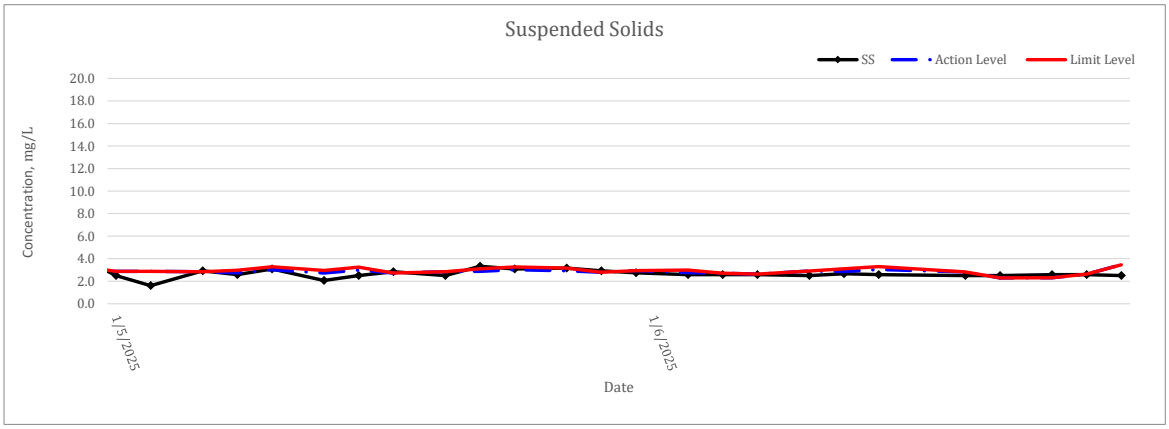


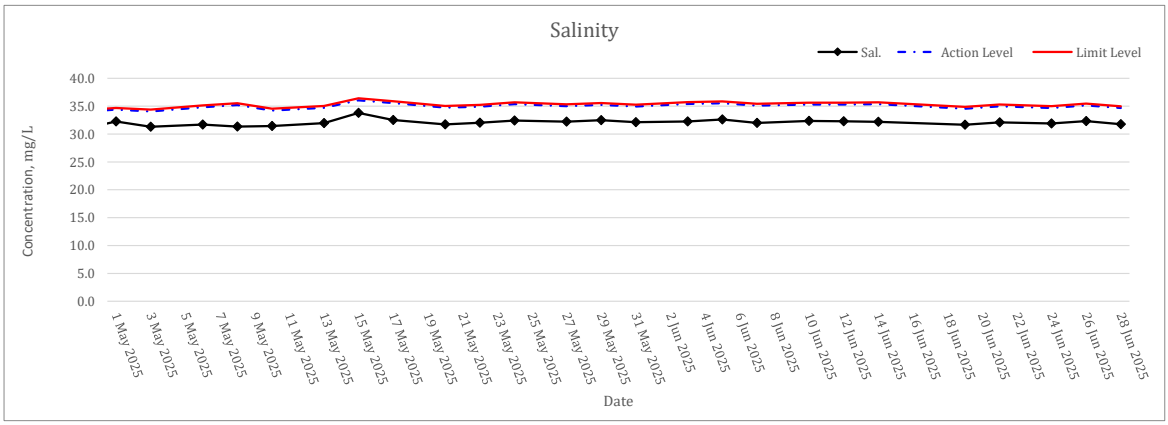

Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

# Monitoring Location: WSR2

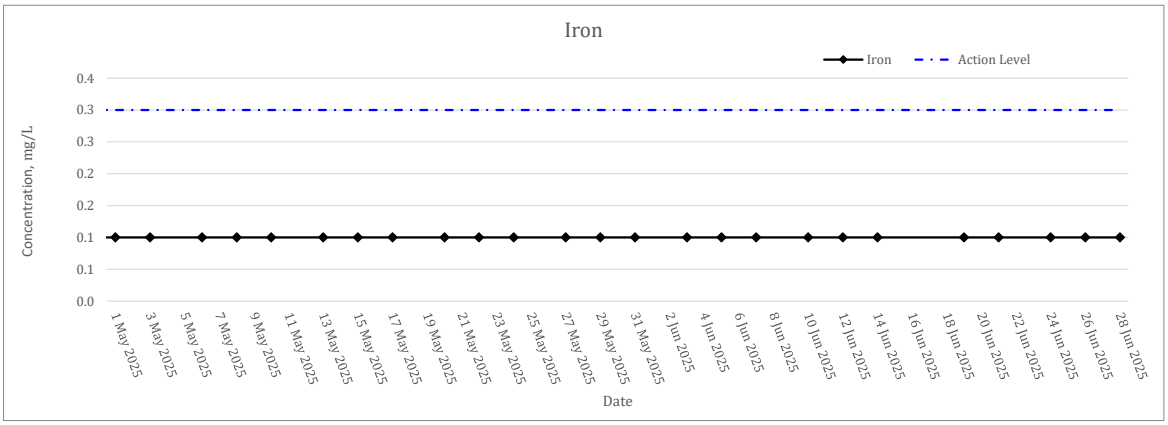


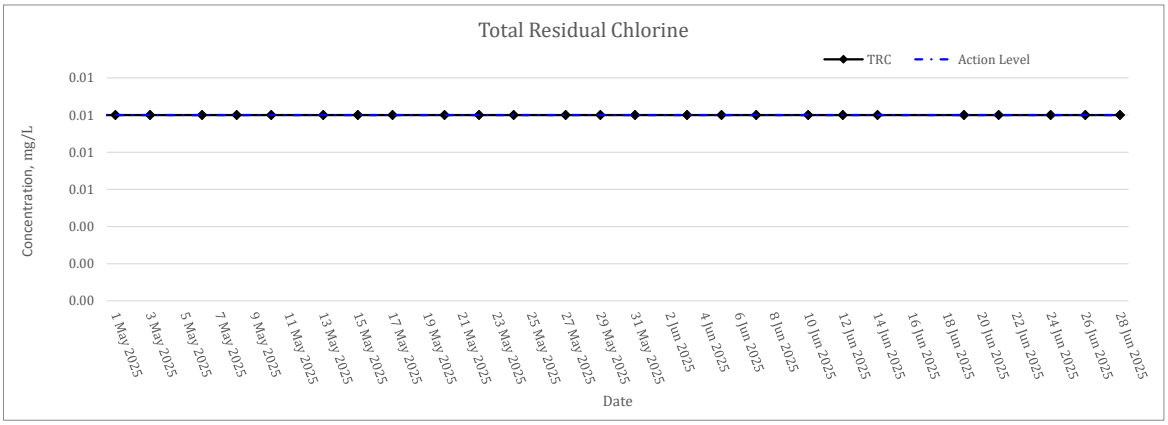



## Monitoring Location: WSR2

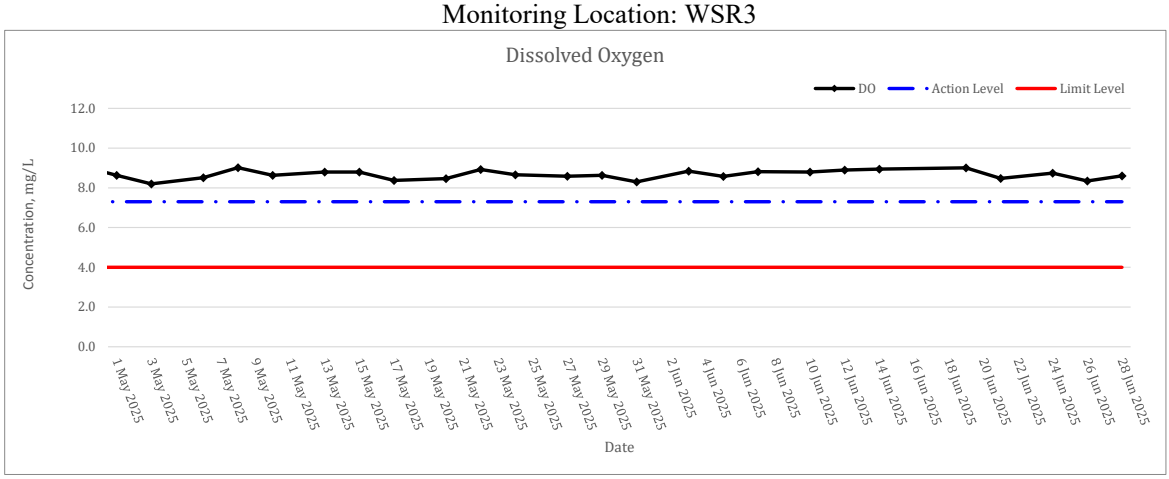


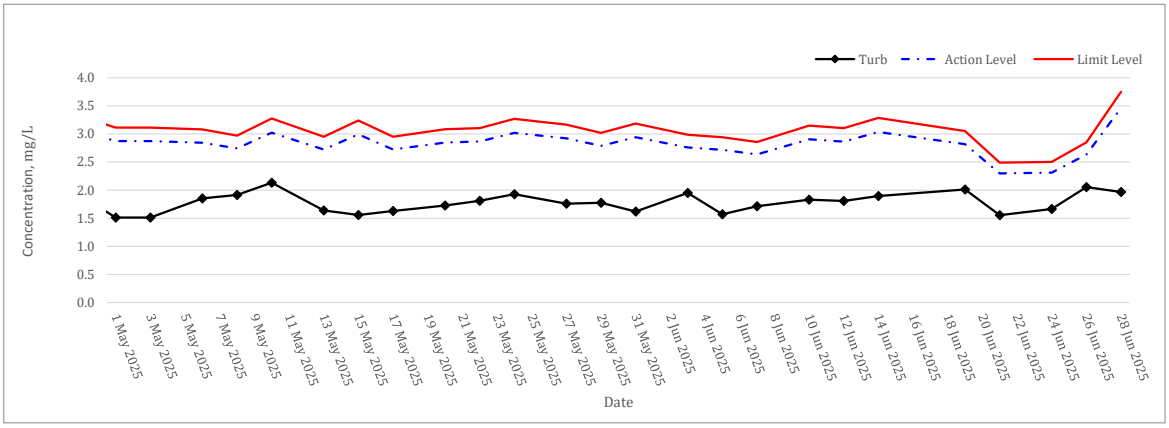

Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

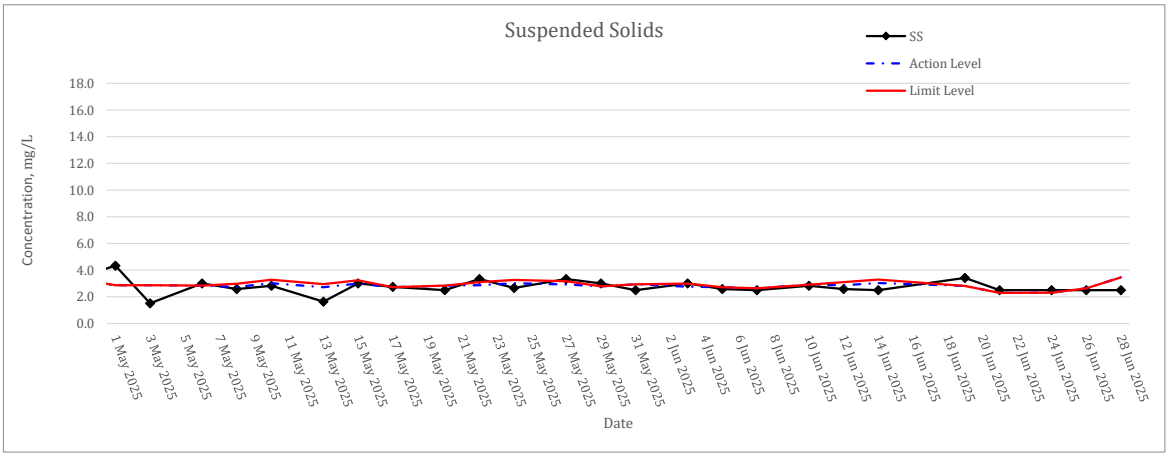


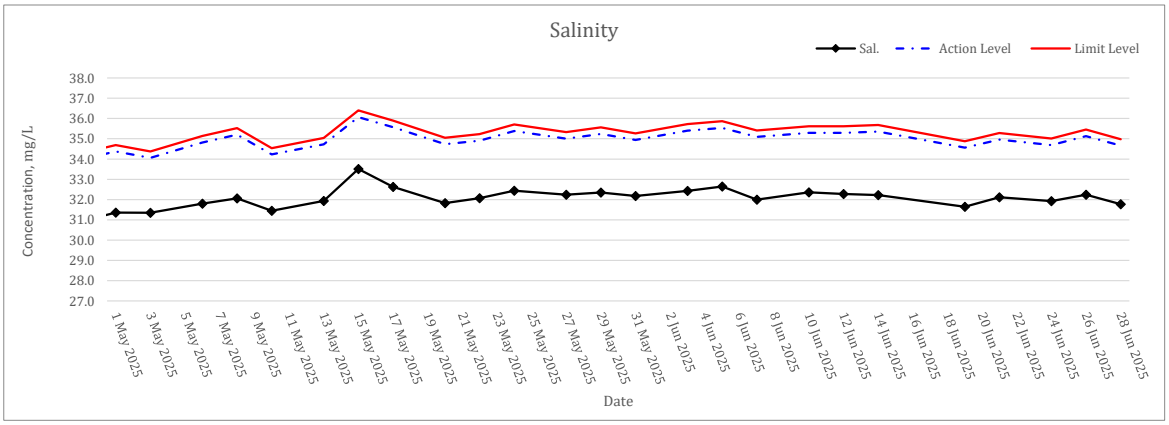

Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

## Monitoring Location: WSR3

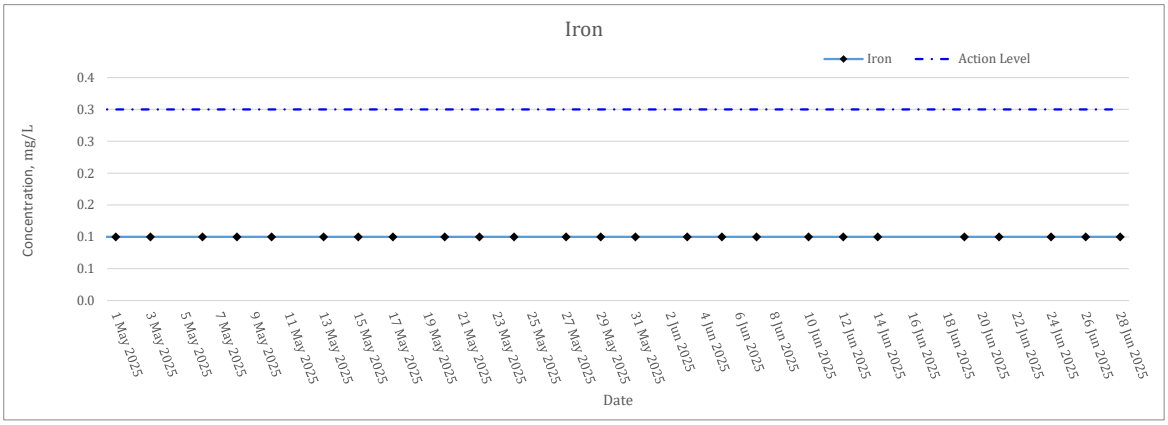


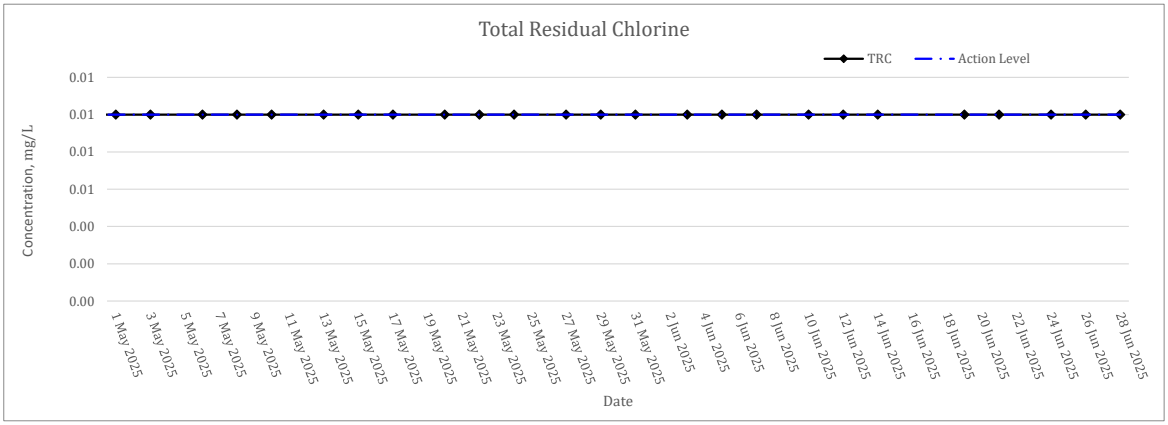



## Monitoring Location: WSR3

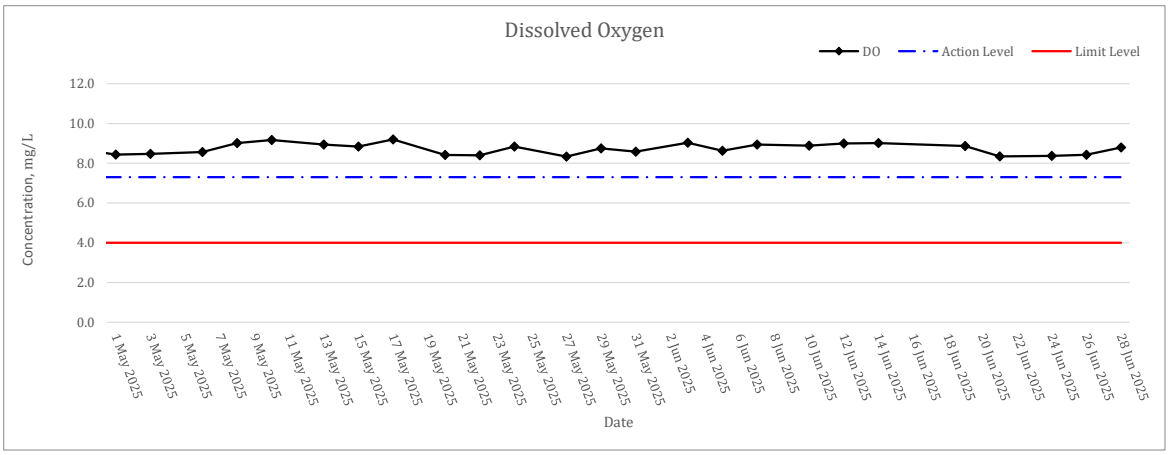


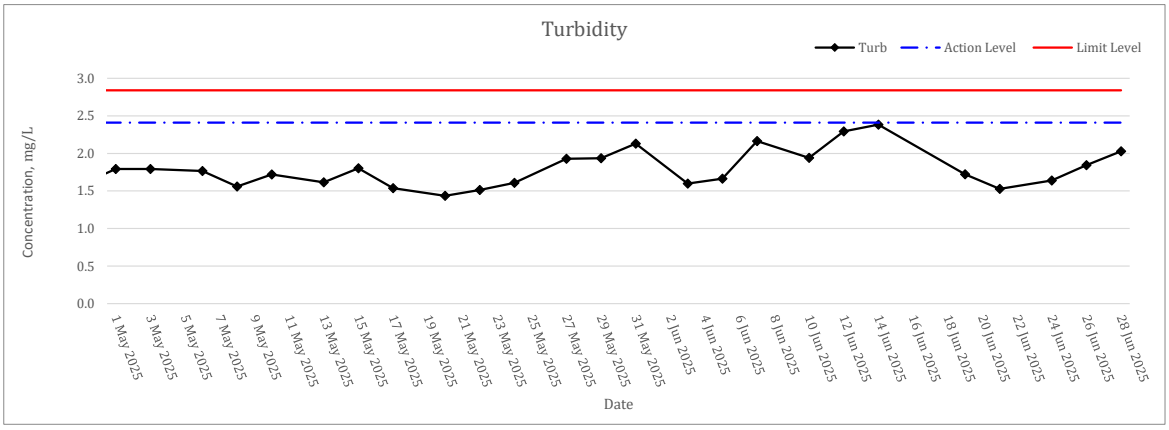

Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

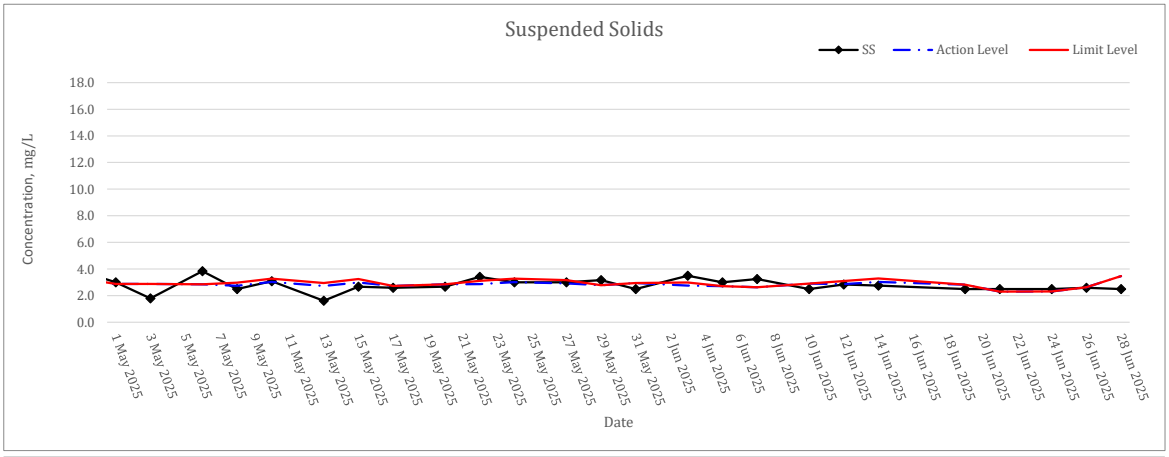


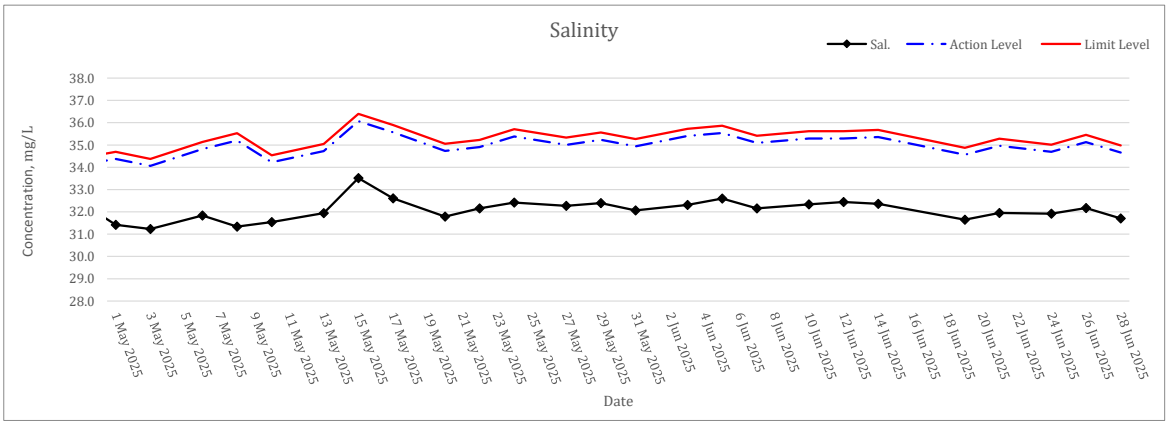

Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

## Monitoring Location: WSR4

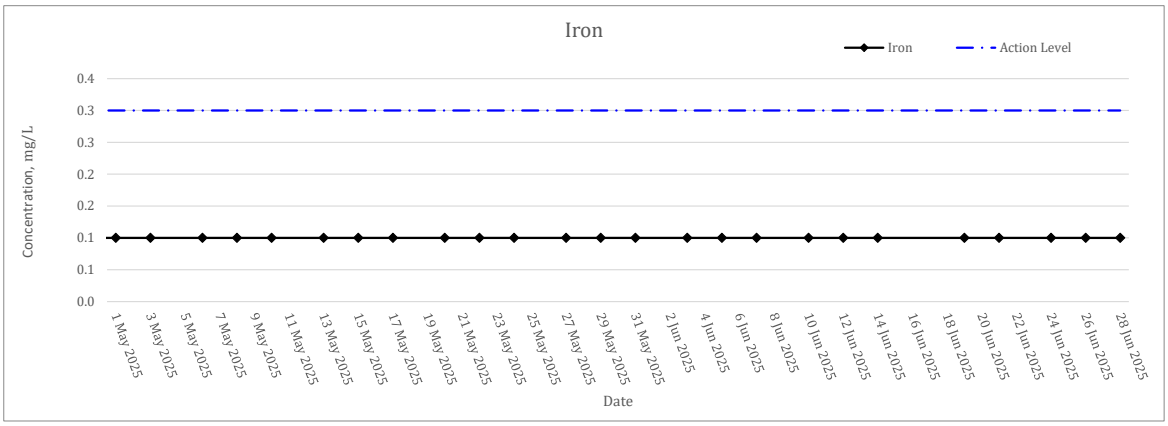


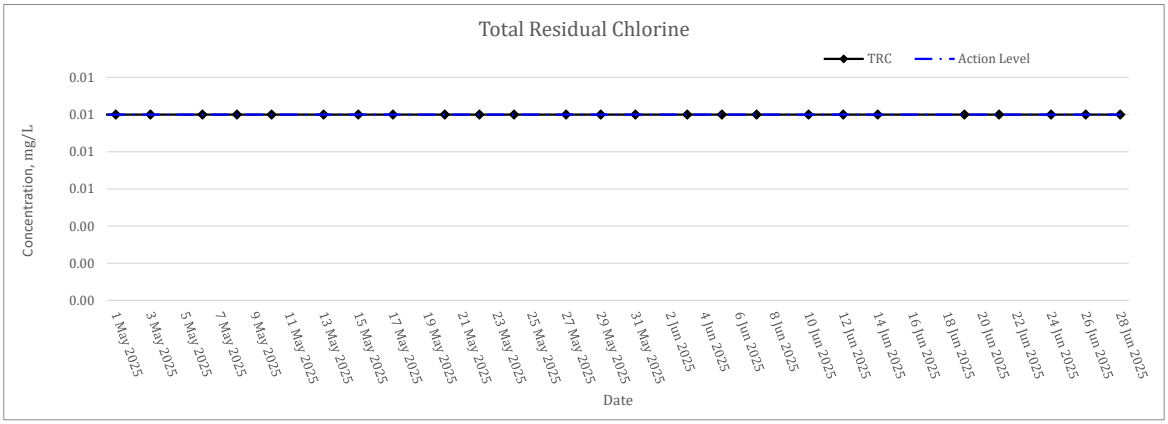



## Monitoring Location: WSR4

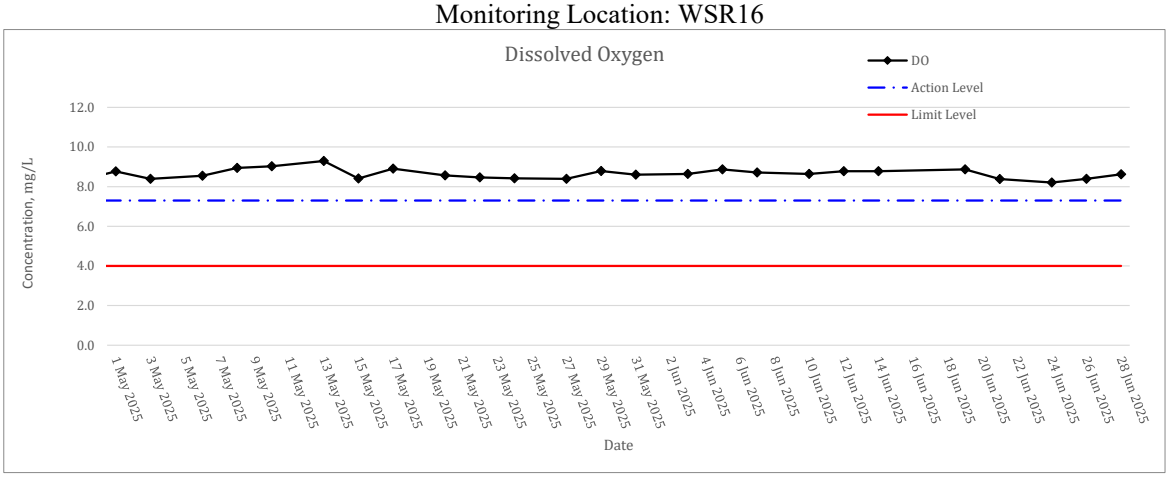


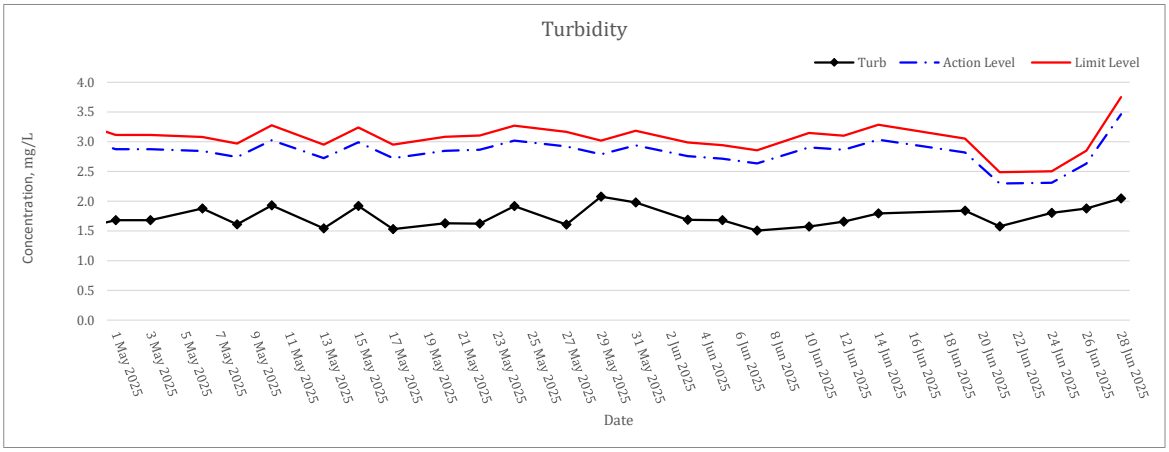

Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

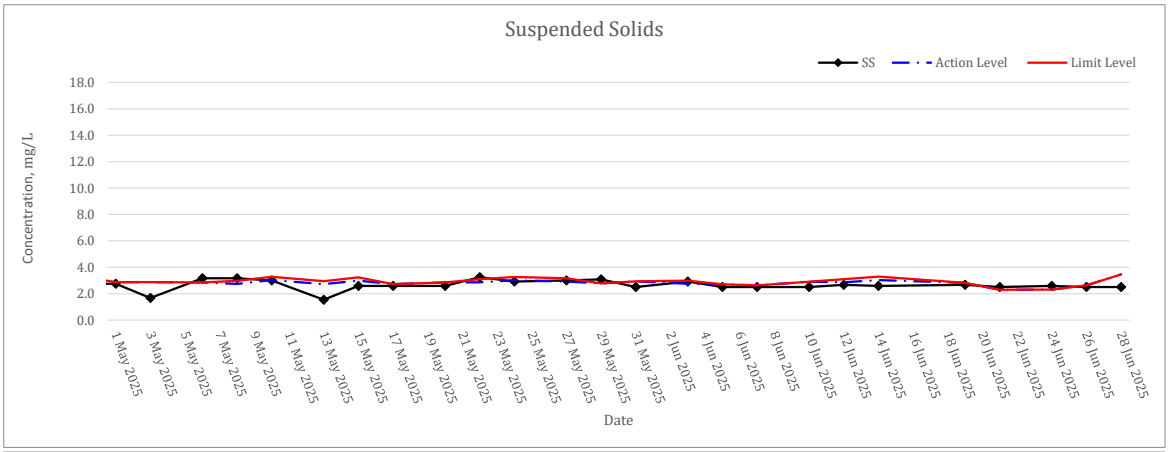


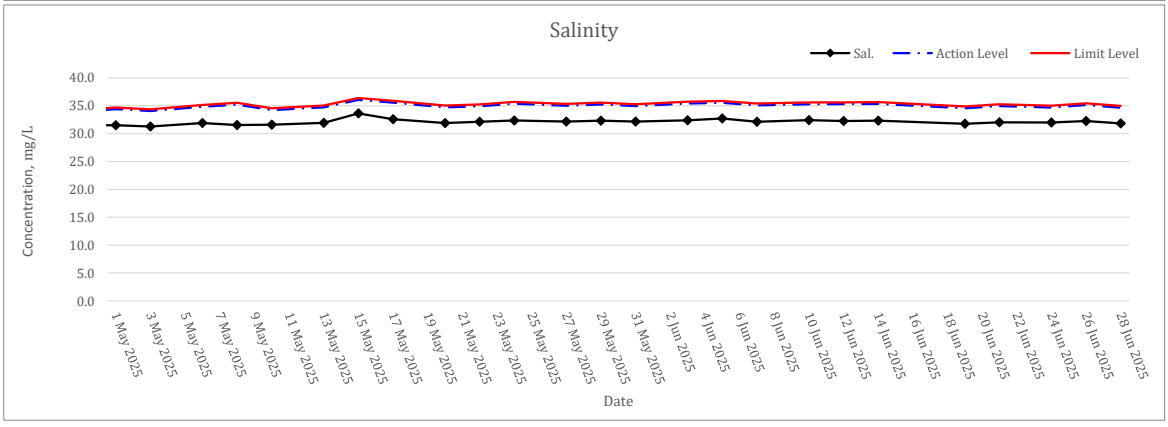

Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

## Monitoring Location: WSR16

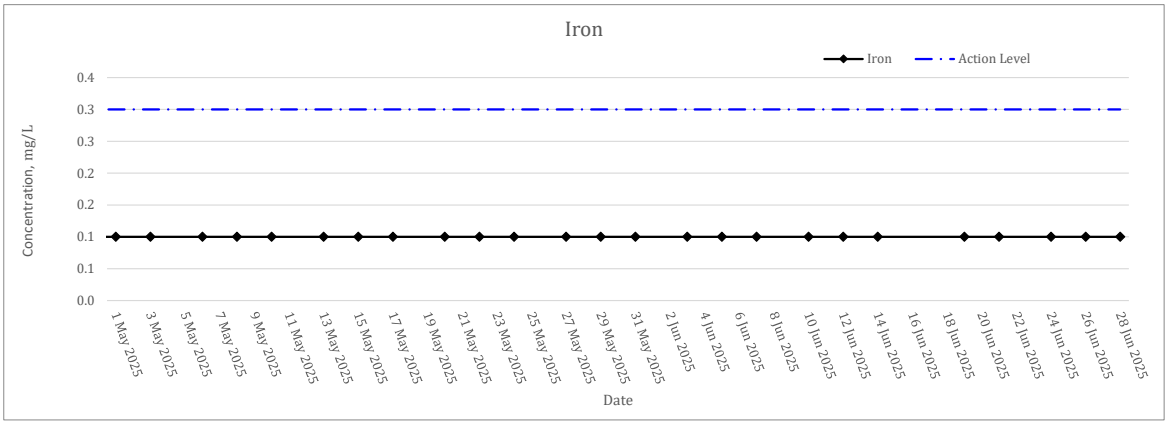


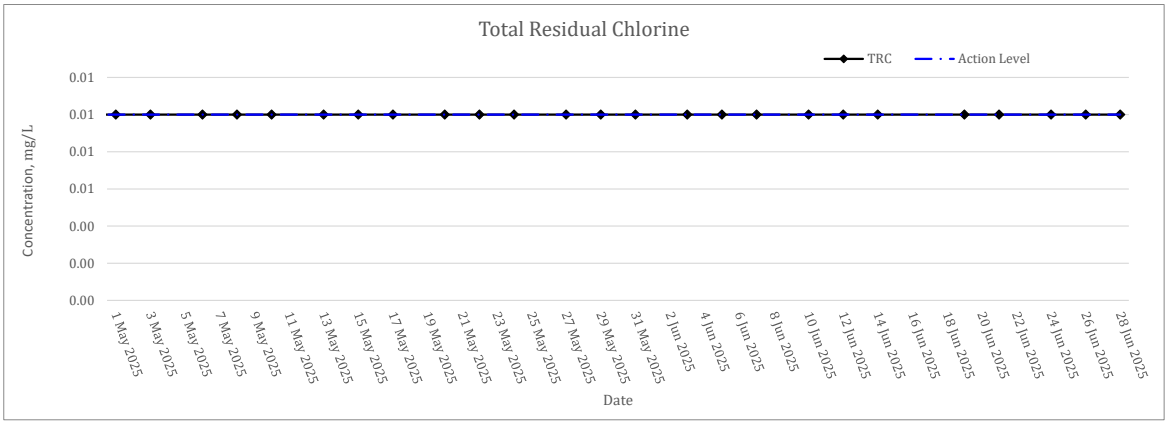



## Monitoring Location: WSR16

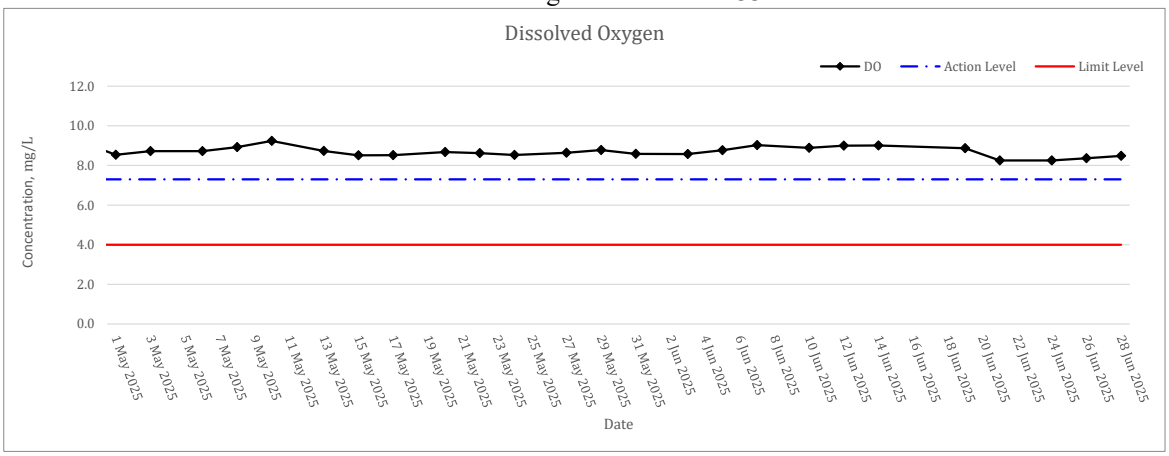


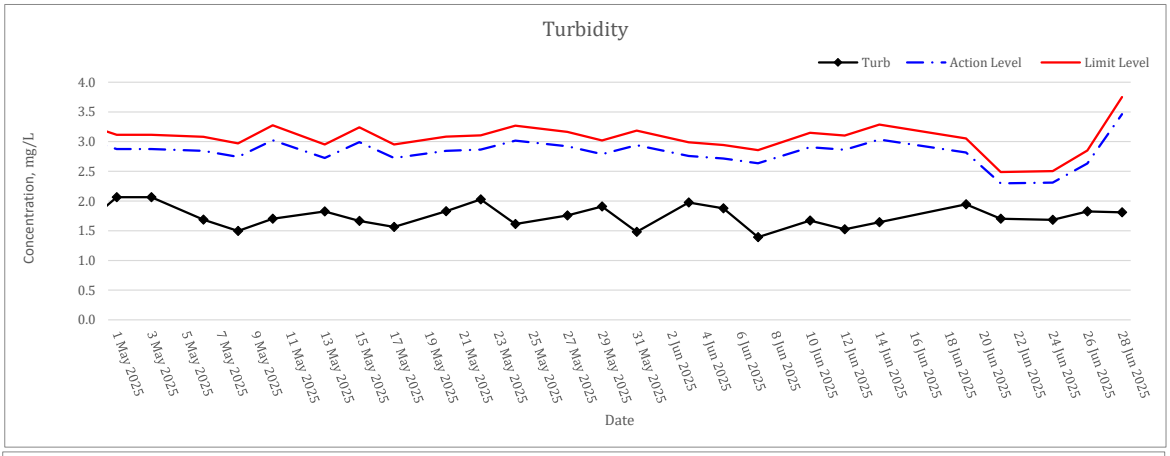

Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

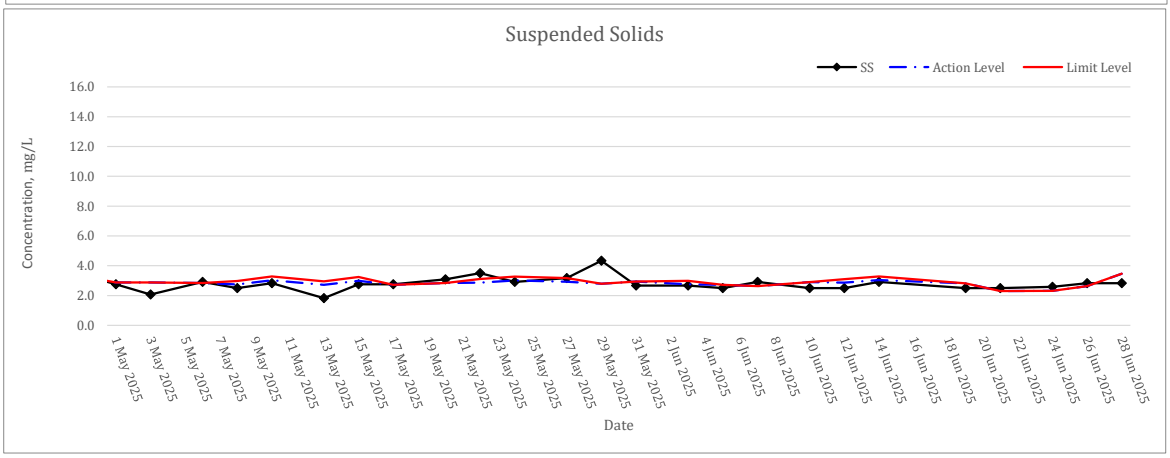


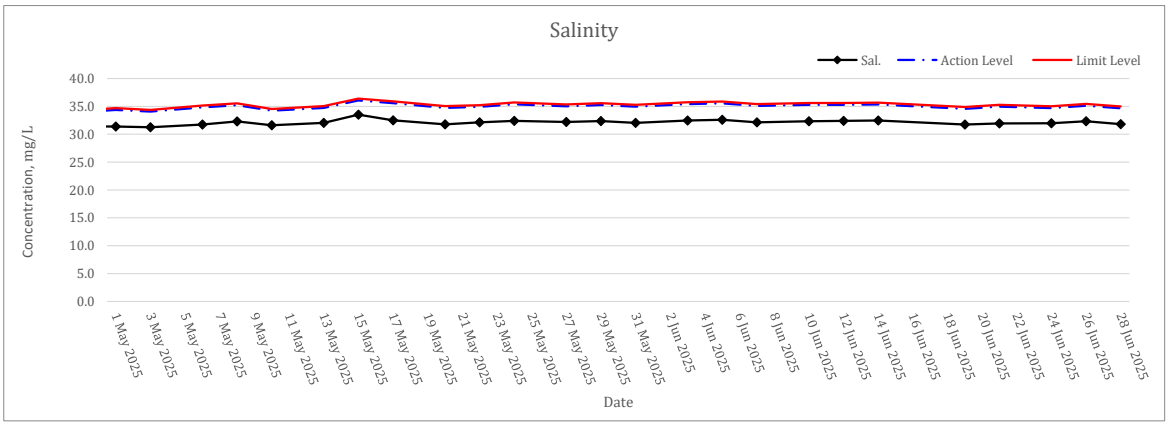

Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

## Monitoring Location: WSR33

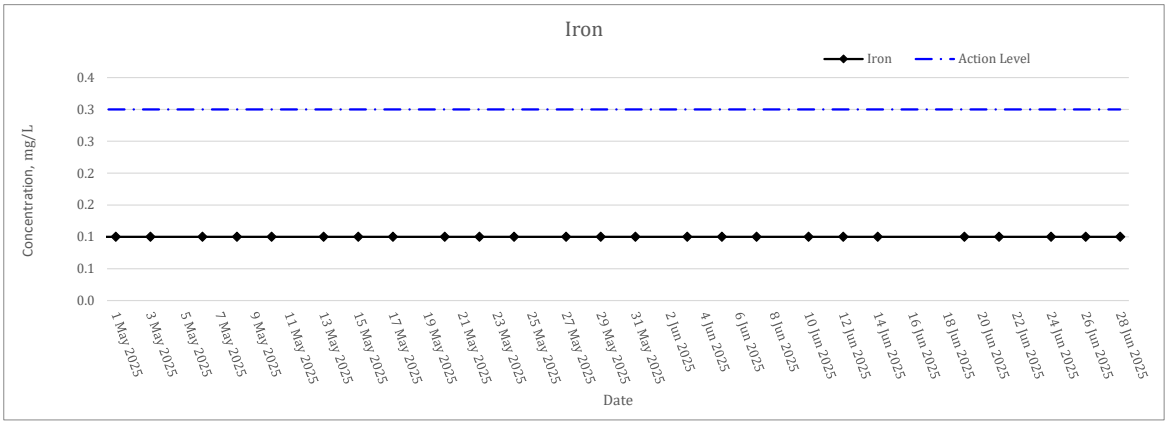


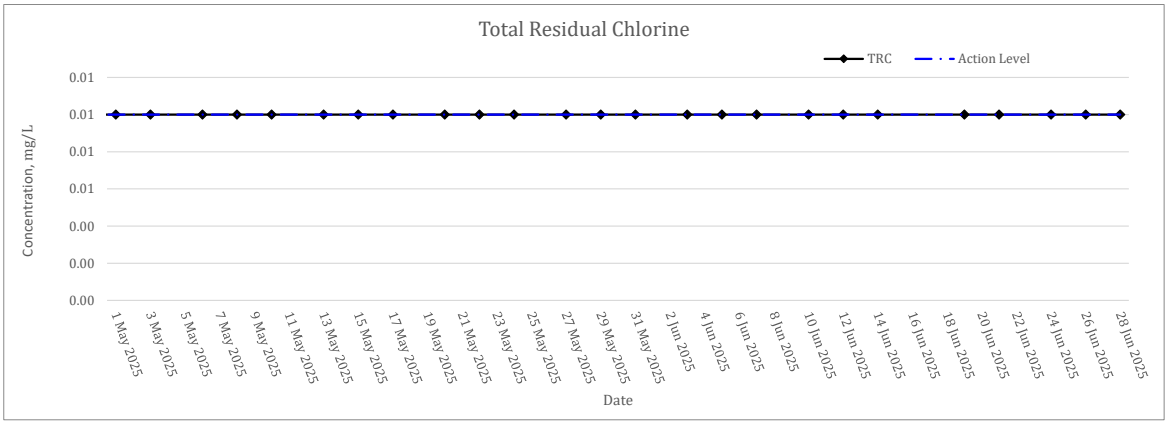



## Monitoring Location: WSR33

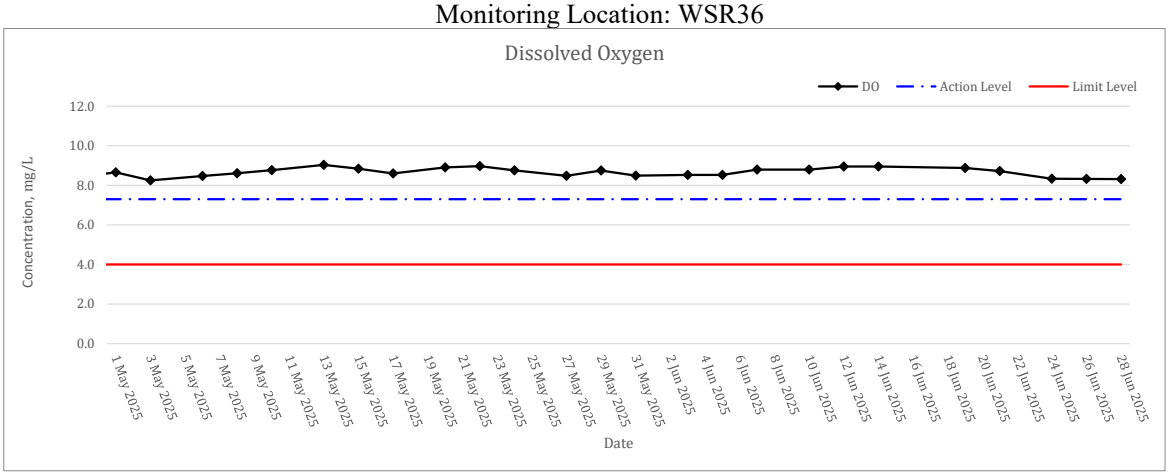


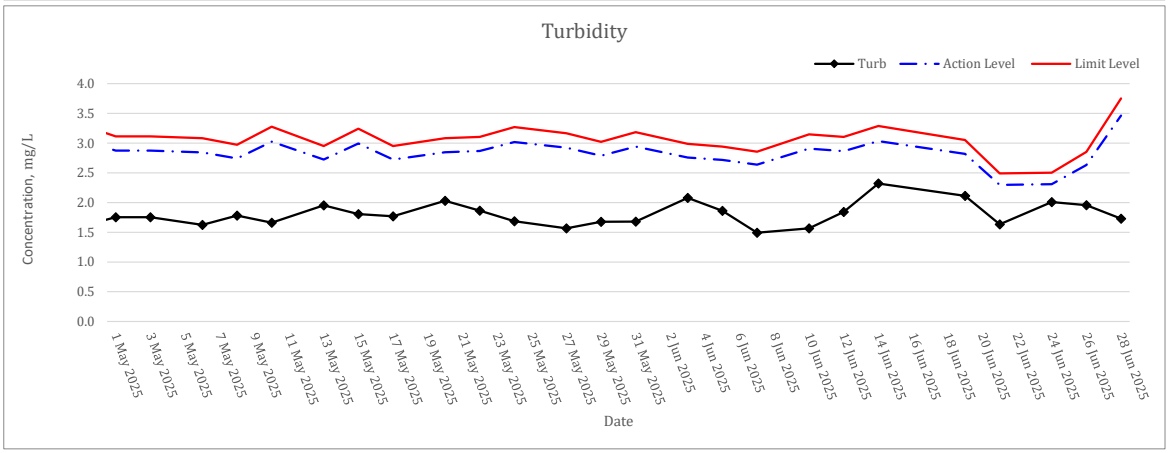

Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

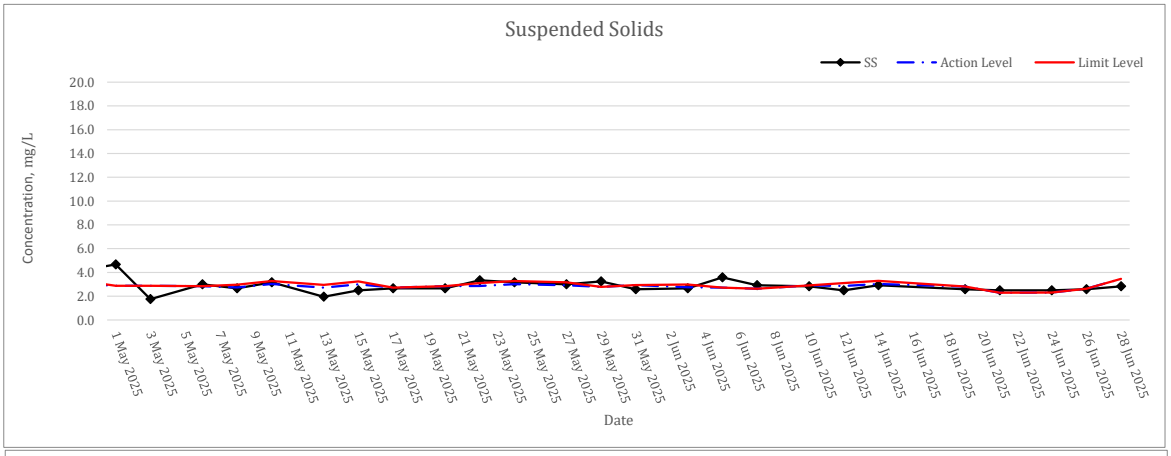


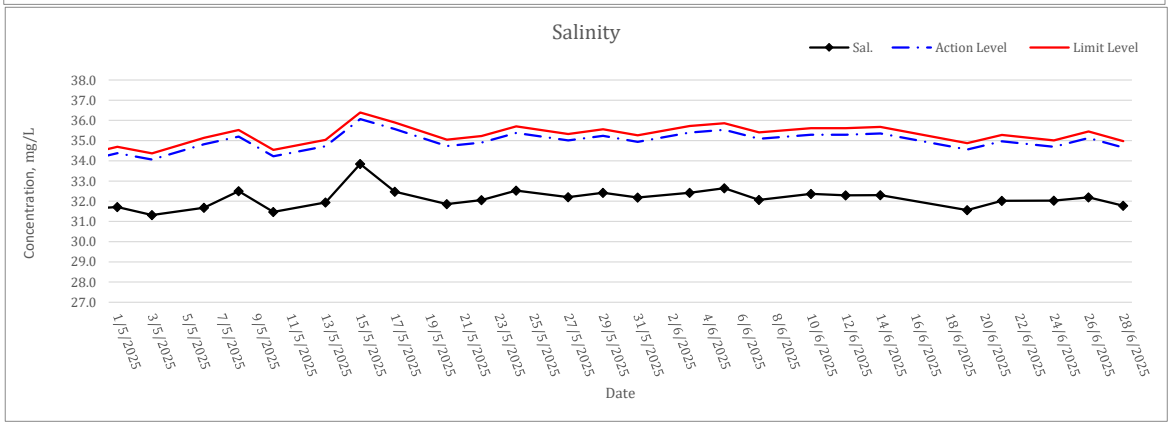

Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

# Monitoring Location: WSR36

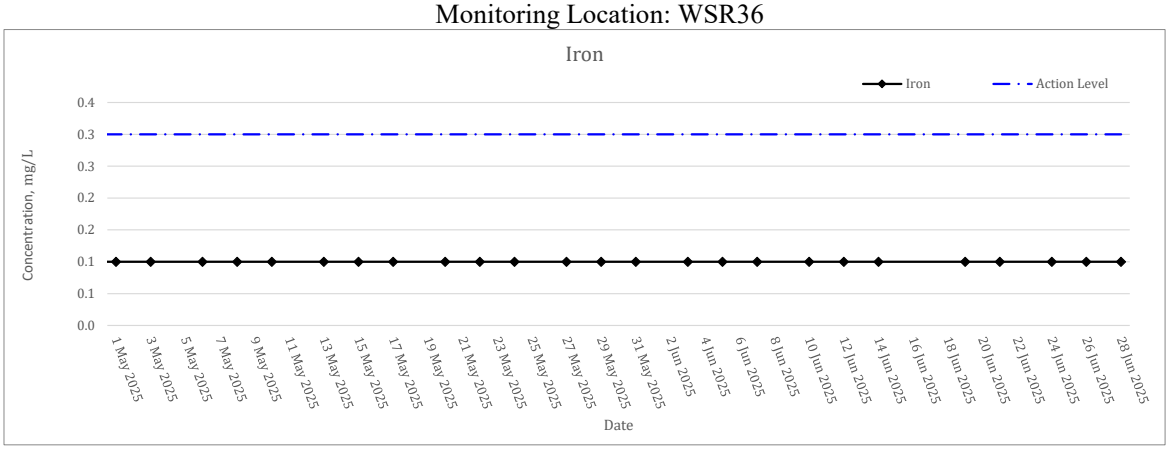


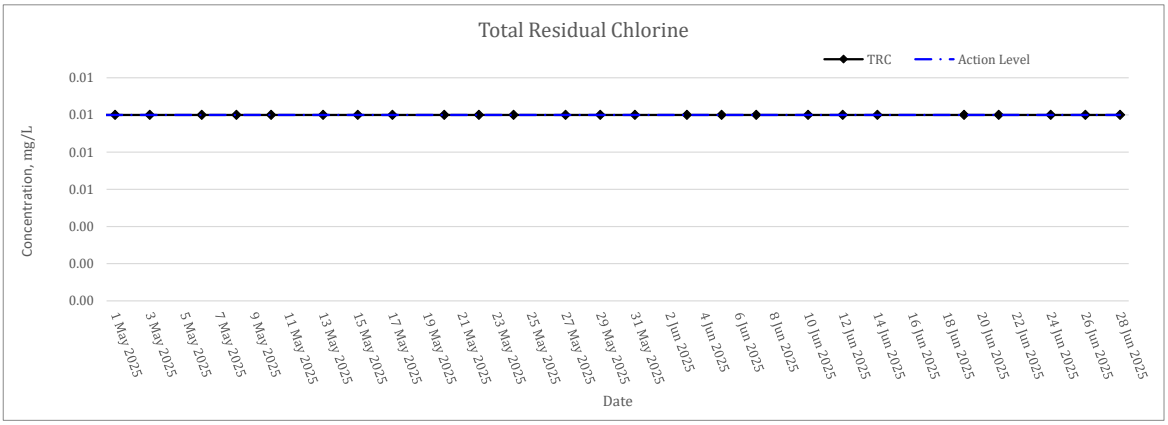



## Monitoring Location: WSR36

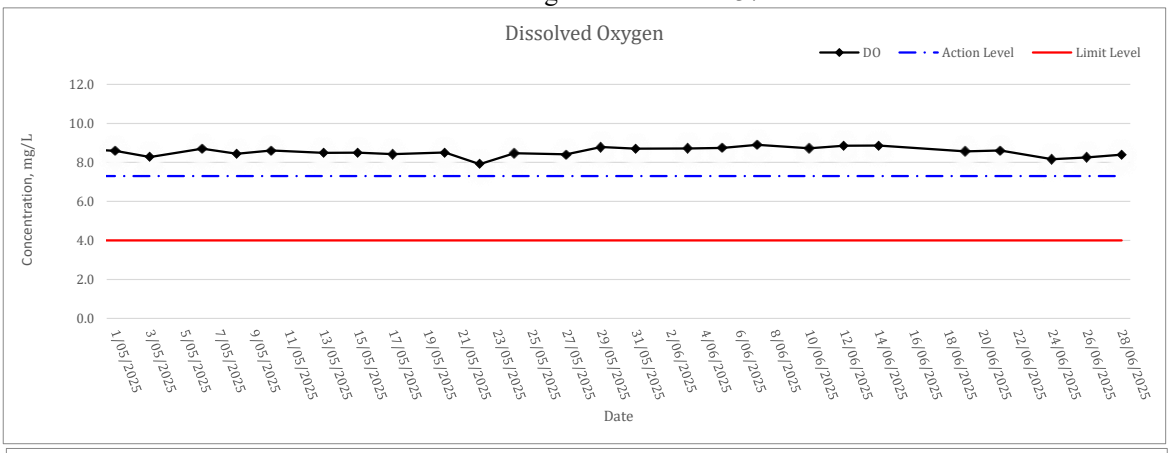


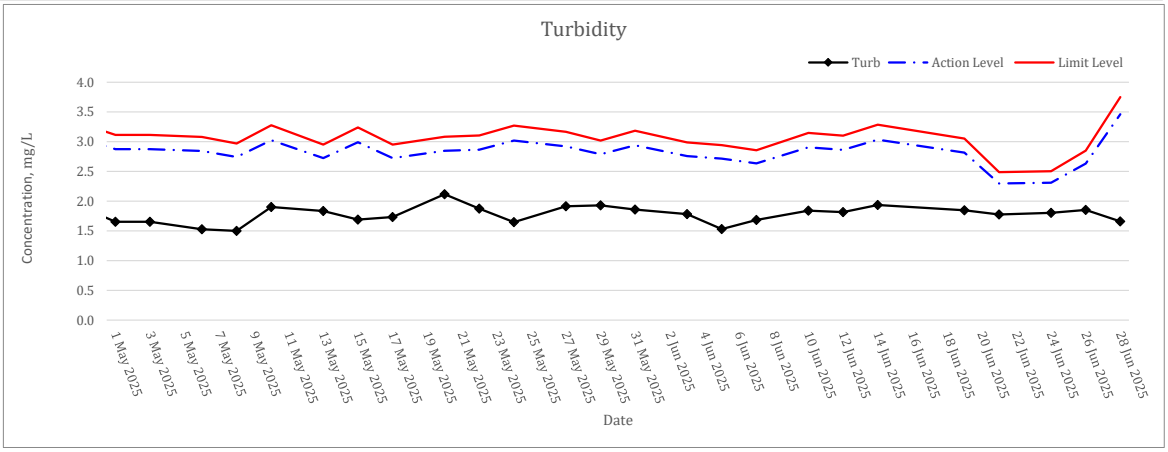

Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

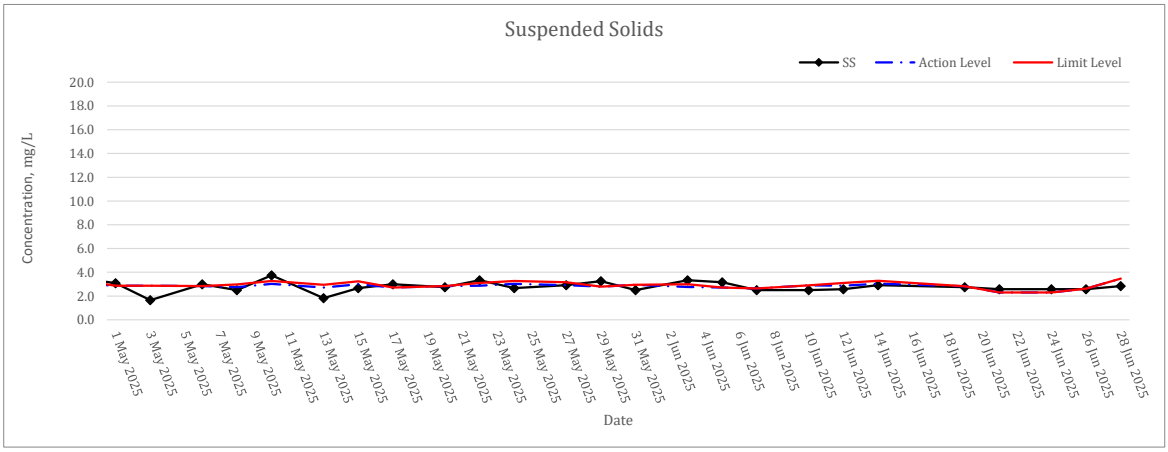


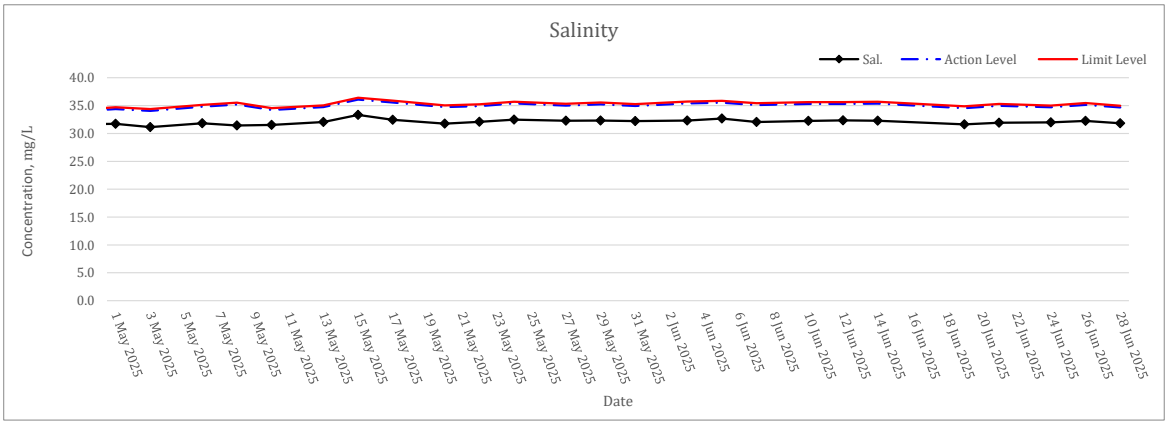

Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

# Monitoring Location: WSR37

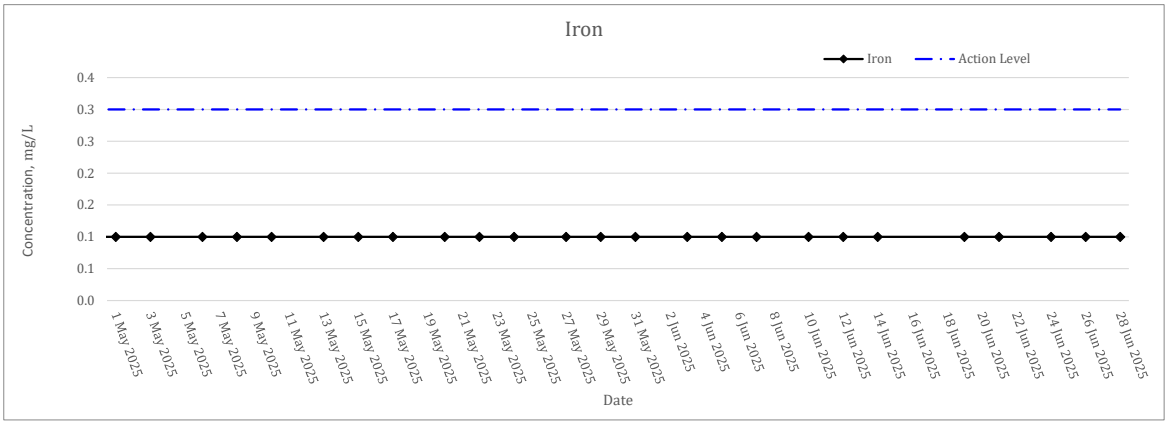


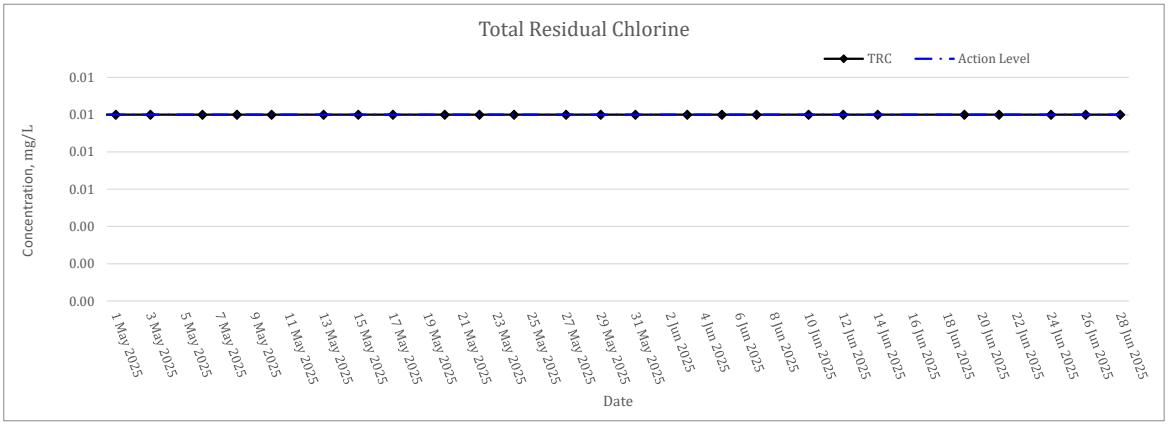



## Monitoring Location: WSR37

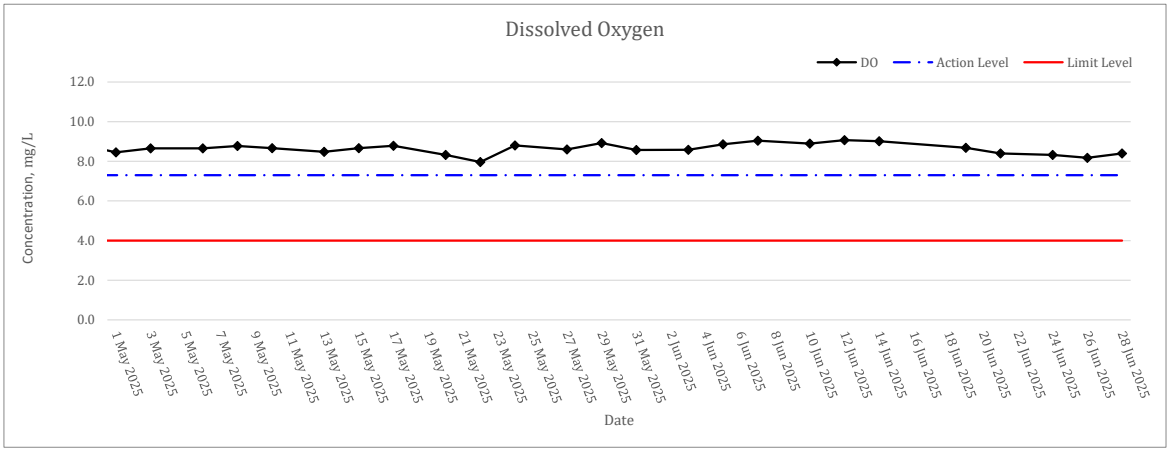


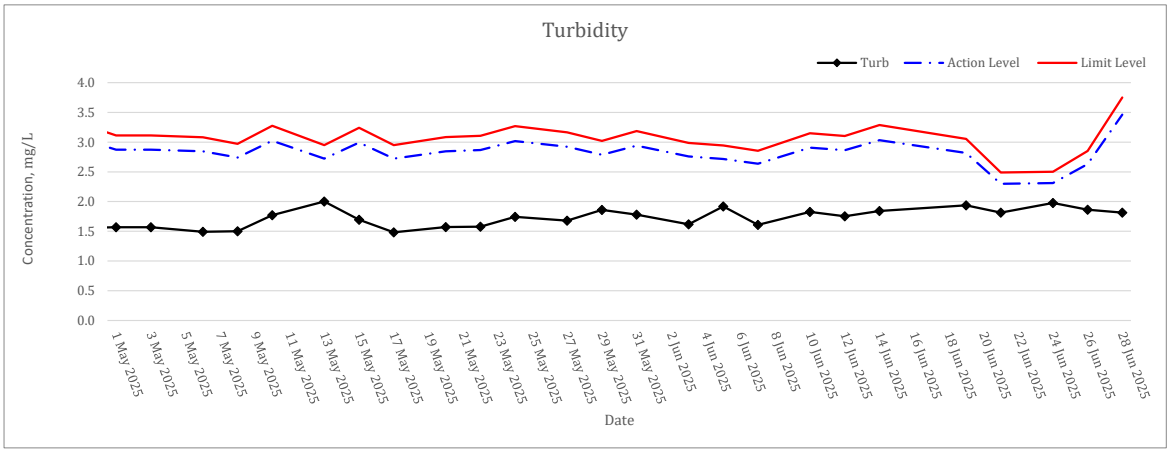

Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

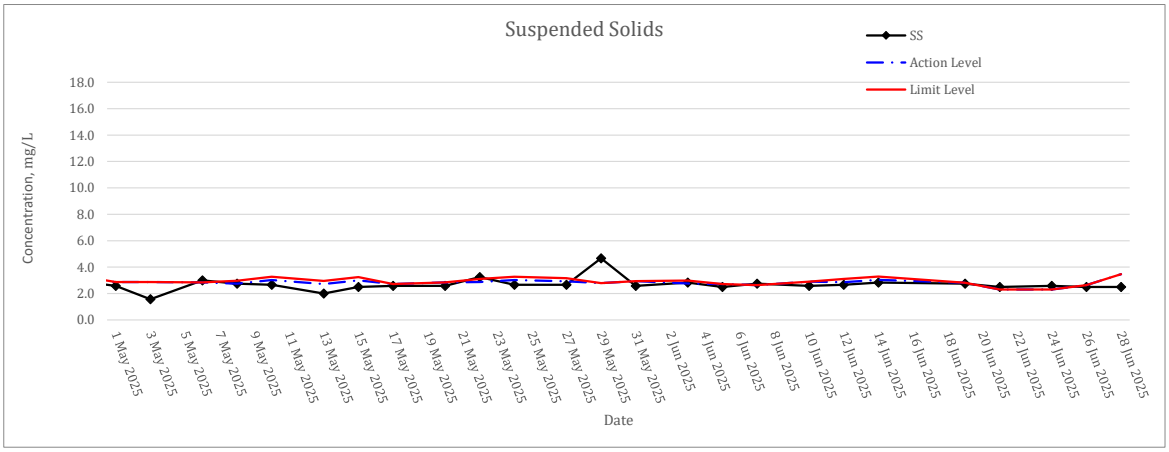


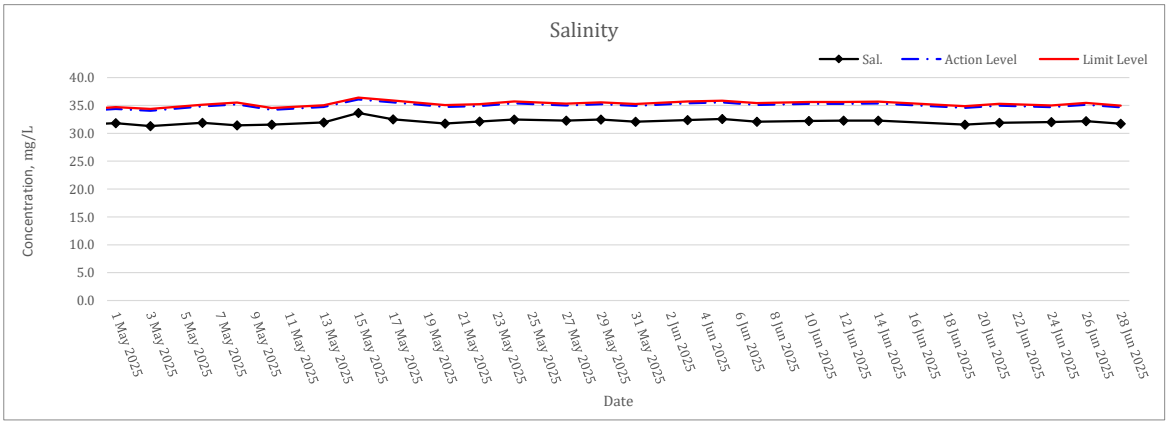

Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

## Monitoring Location: NF1

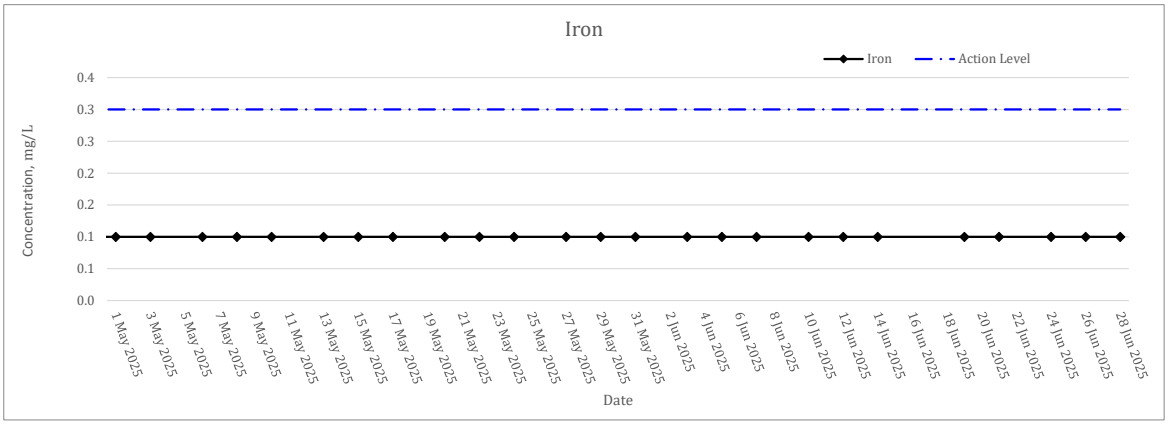


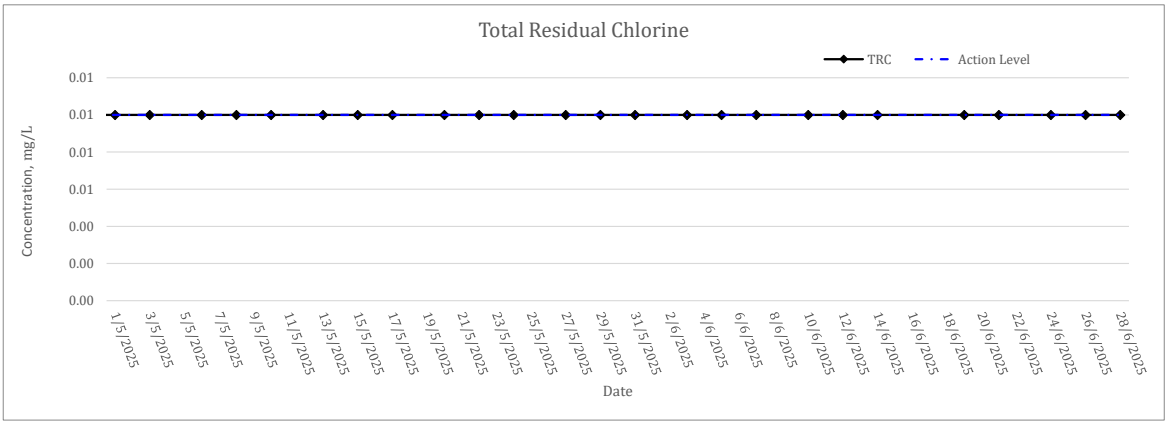



## Monitoring Location: NF1

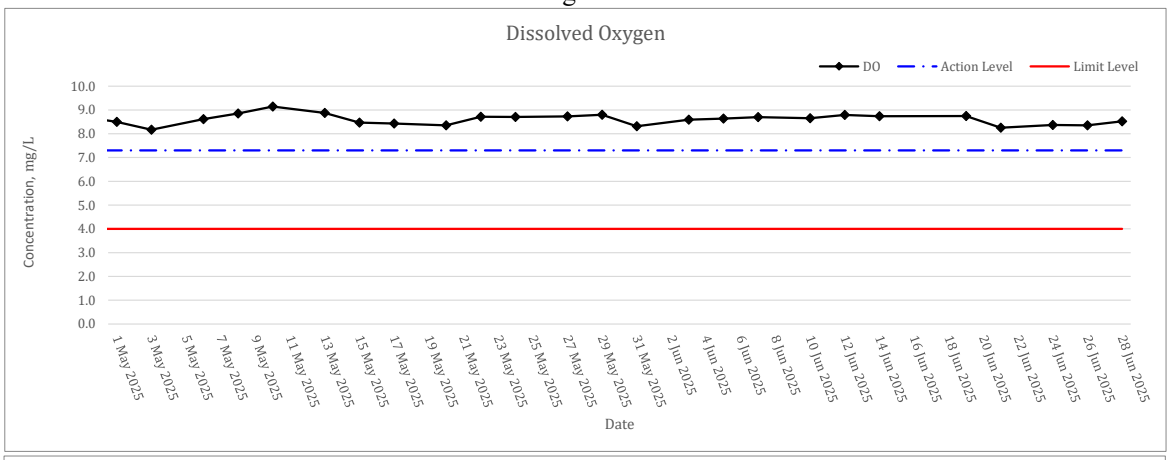


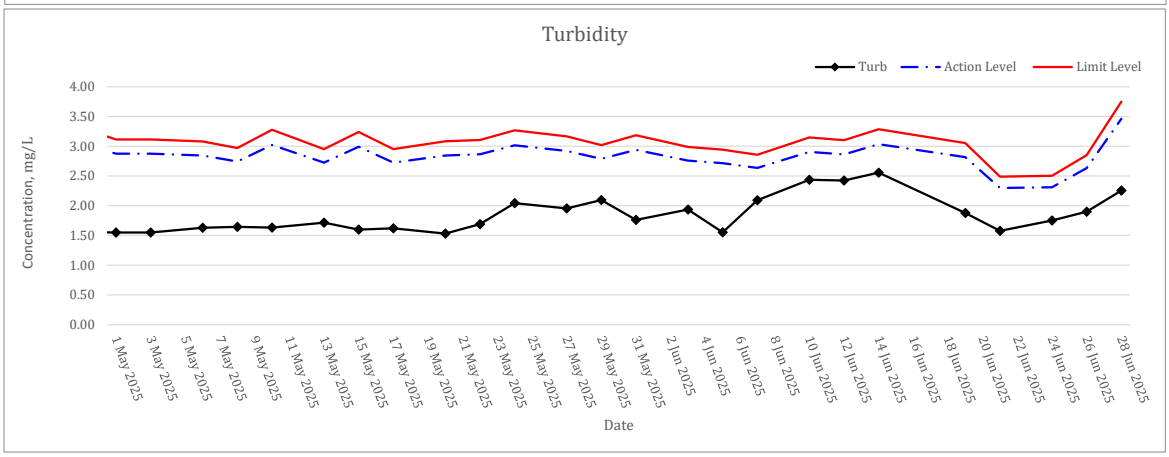

Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

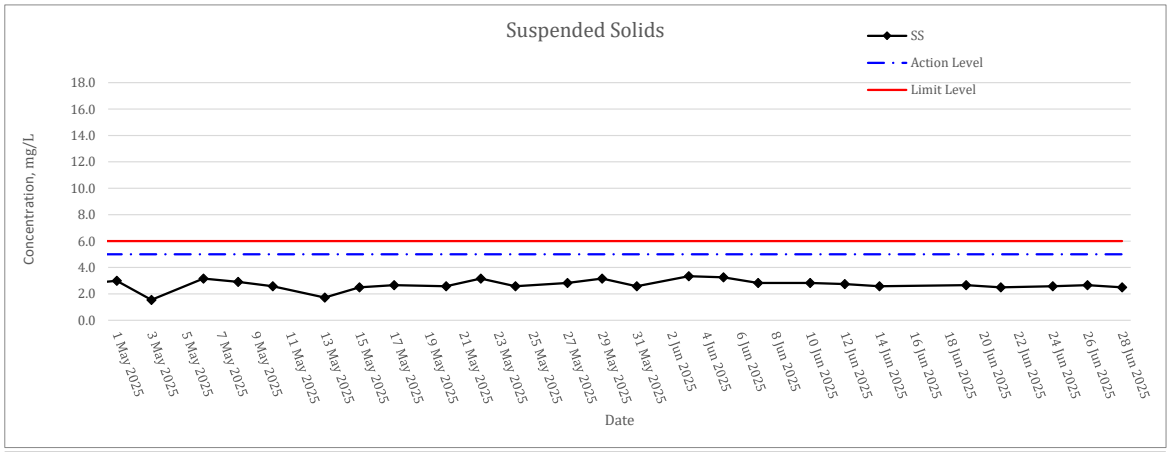


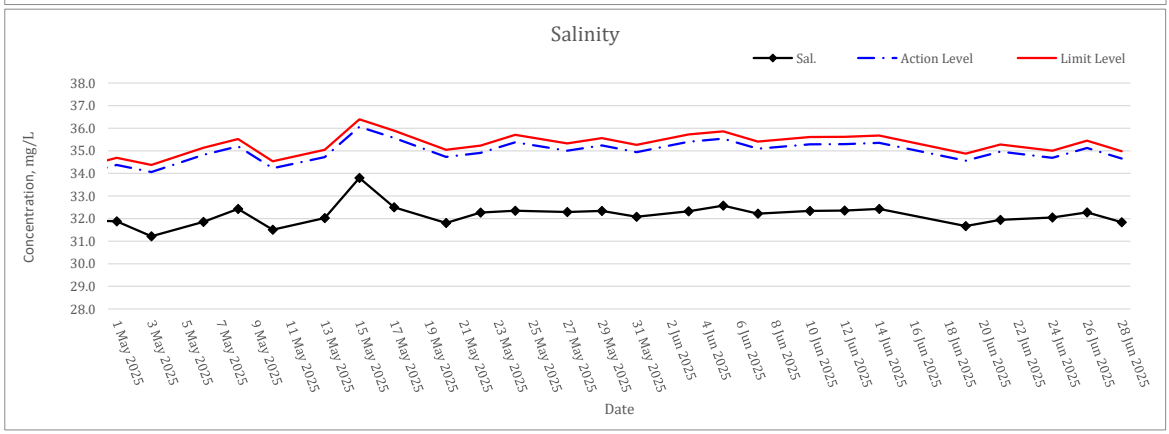

Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

## Monitoring Location: NF2

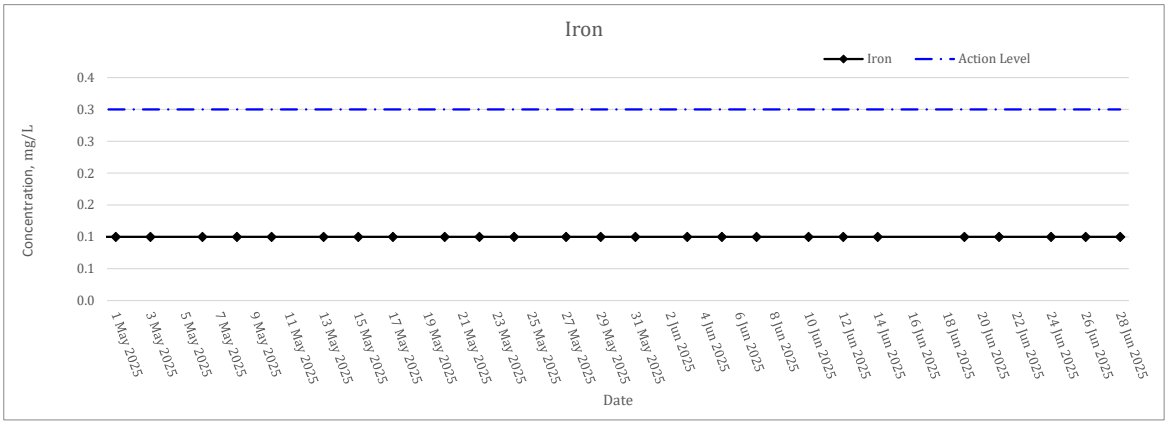


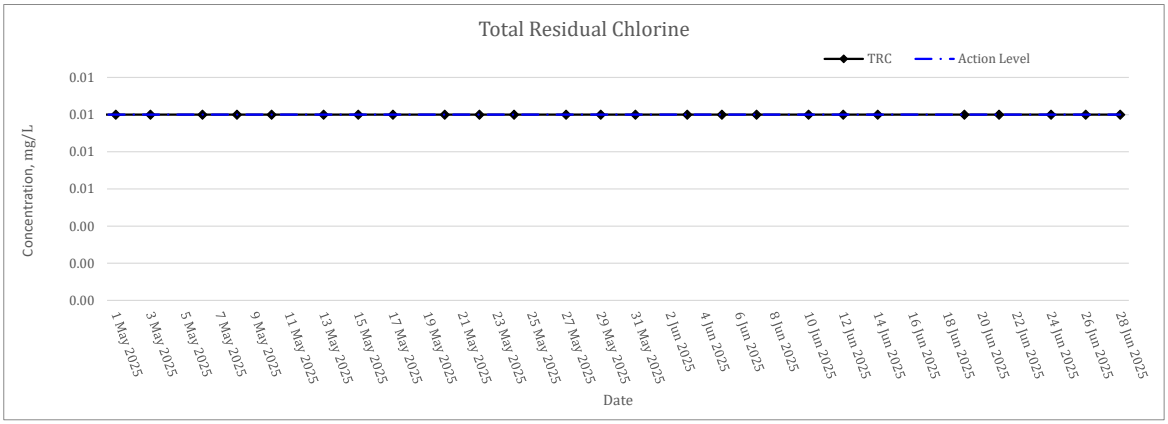



## Monitoring Location: NF2

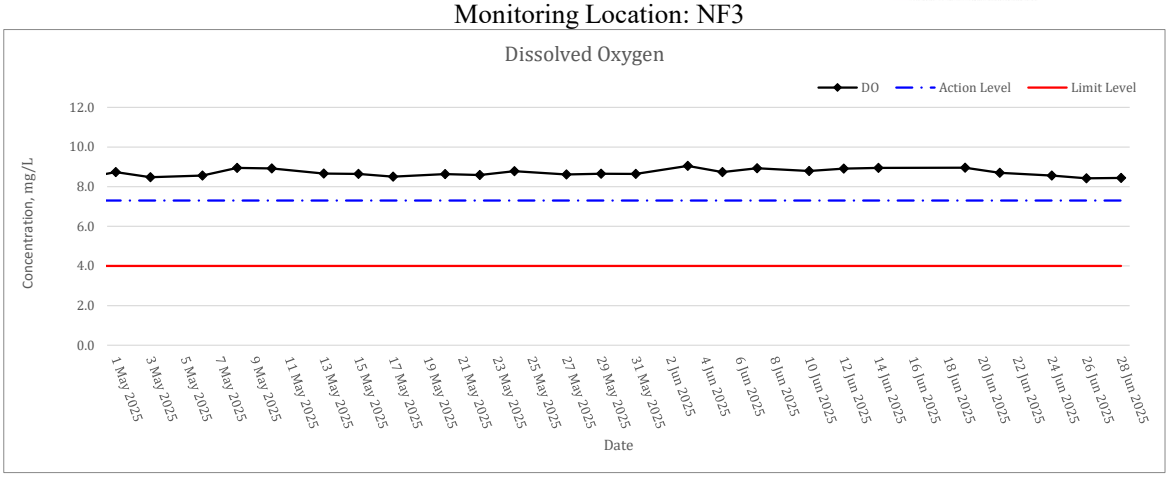


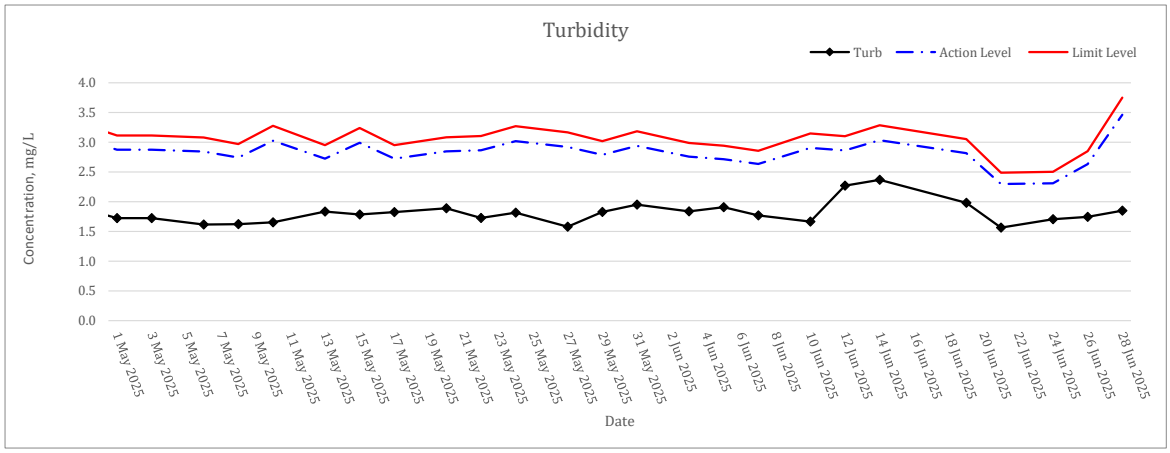

Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

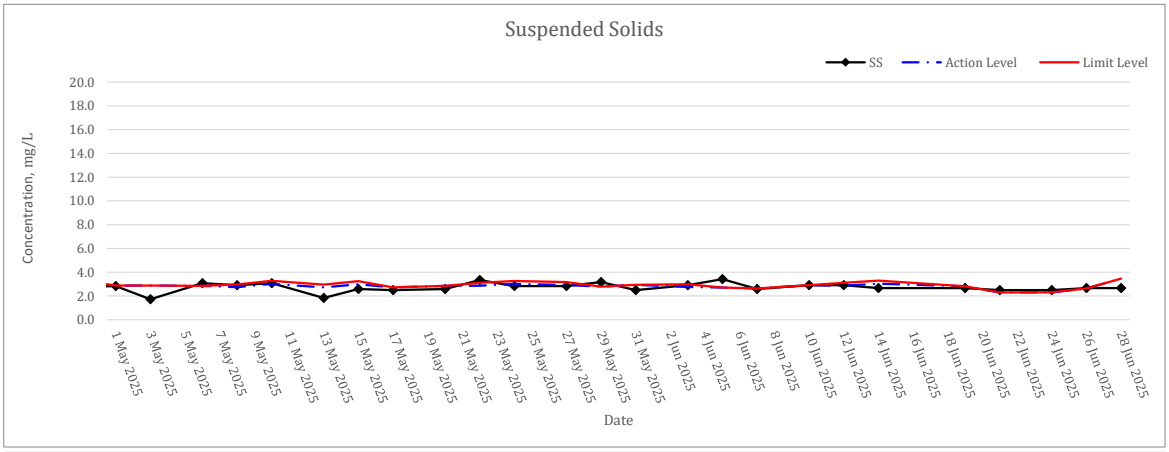


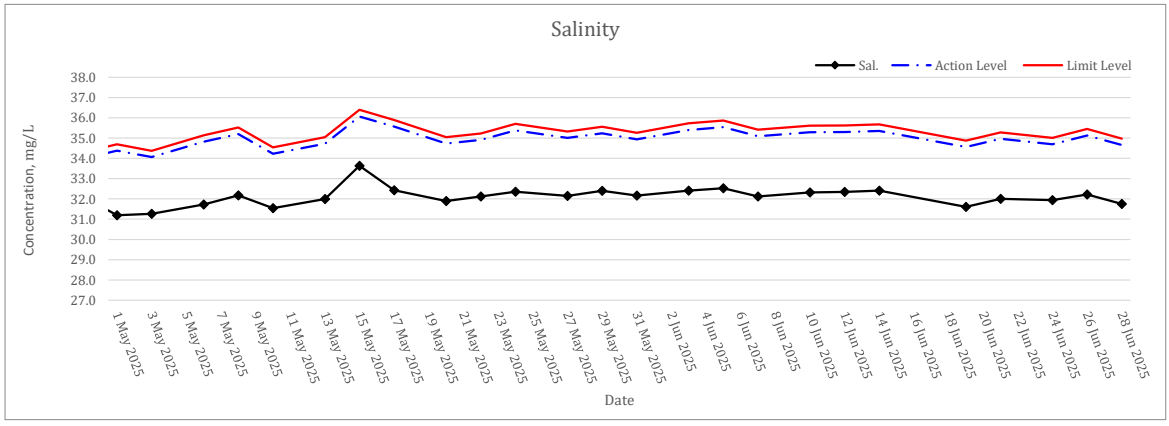

Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

# Monitoring Location: NF3

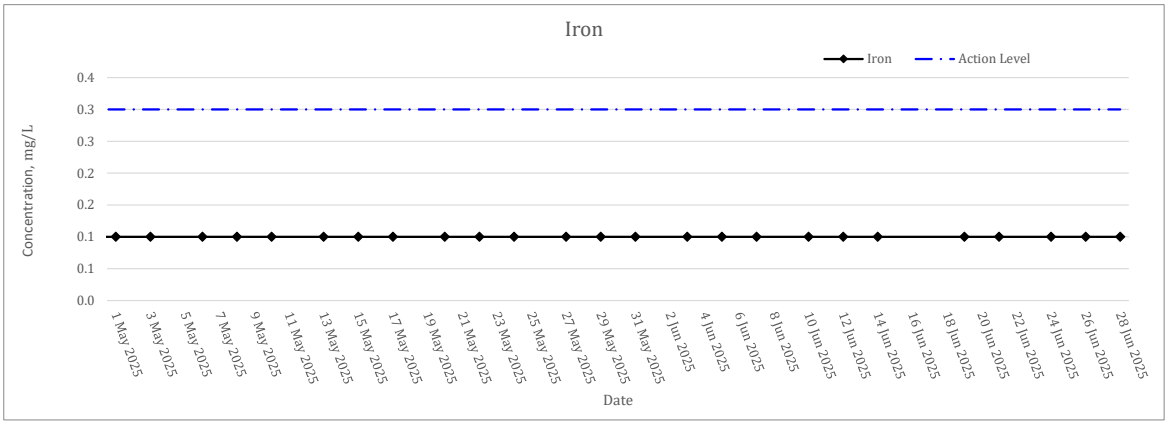


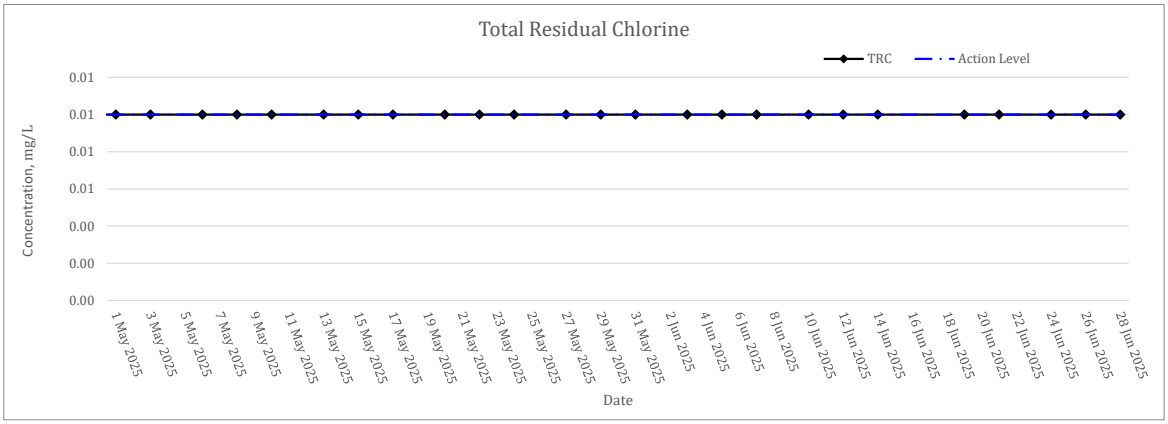



## Monitoring Location: NF3




Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.




Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

# Appendix C.1

# Weather Condition

Daily Extract of Meteorological Observations , May 2025

Back Year 2025 Month 5 Go

| Day | Hong Kong Observatory | | | | | | | | King's Park | Waglan Island^ | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Mean Pressure (hPa) | Air Temperature | | | Mean Dew Point (deg. C) | Mean Relative Humidity (%) | Mean Amount of Cloud (%) | Total Rainfall (mm) | Total Bright Sunshine (hours) | Prevailing Wind Direction (degrees) | Mean Wind Speed (km/h) |
| | | Absolute Daily Max (deg. C) | Mean (deg. C) | Absolute Daily Min (deg. C) | | | | | | | |
| 01 | 1012.9 | 27.9 | 25.6 | 24.5 | 22.4 | 83 | 88 | 1.4 | 1.8 | 240 | 4.6 |
| 02 | 1011.3 | 32.3 | 27.4 | 24.6 | 22.2 | 75 | 51 | 0.0 | 11.3 | 090 | 4.2 |
| 03 | 1010.1 | 29.7 | 26.8 | 25.3 | 23.2 | 81 | 73 | 0.0 | 2.9 | 050 | 8.7 |
| 04 | 1008.8 | 31.7 | 27.5 | 25.5 | 23.9 | 81 | 81 | Trace | 5.0 | 110 | 11.0 |
| 05 | 1008.5 | 32.0 | 27.8 | 25.8 | 23.8 | 79 | 86 | Trace | 3.5 | 110 | 12.7 |
| 06 | 1008.0 | 30.4 | 28.1 | 26.9 | 24.6 | 82 | 88 | 0.4 | 1.7 | 200 | 10.5 |
| 07 | 1008.0 | 28.0 | 27.1 | 25.6 | 25.0 | 88 | 89 | 9.8 | 0.0 | 110 | 18.1 |
| 08 | 1008.0 | 29.2 | 26.4 | 25.0 | 24.0 | 87 | 84 | 0.6 | 2.4 | 080 | 21.6 |
| 09 | 1007.8 | 29.3 | 27.2 | 25.7 | 23.9 | 83 | 86 | 0.4 | 2.3 | 010 | 8.0 |
| 10 | 1009.0 | 30.7 | 27.2 | 25.1 | 22.5 | 76 | 80 | Trace | 2.6 | 360 | 7.6 |
| 11 | 1010.1 | 29.5 | 24.8 | 21.0 | 15.2 | 57 | 86 | 3.9 | 6.3 | 010 | 23.8 |
| 12 | 1010.9 | 30.4 | 25.9 | 23.1 | 15.4 | 54 | 41 | 0.0 | 11.3 | 080 | 15.5 |
| 13 | 1012.4 | 29.3 | 25.8 | 23.8 | 20.3 | 72 | 64 | 0.0 | 8.0 | 070 | 23.1 |
| 14 | 1012.8 | 31.4 | 27.2 | 25.0 | 22.9 | 78 | 61 | Trace | 7.3 | 060 | 18.1 |
| 15 | 1012.3 | 31.9 | 28.2 | 26.3 | 24.0 | 78 | 79 | 0.0 | 9.4 | 060 | 12.6 |
| 16 | 1011.2 | 29.3 | 27.8 | 26.7 | 24.6 | 83 | 83 | Trace | 2.6 | 090 | 5.6 |
| 17 | 1010.8 | 32.8 | 28.8 | 26.7 | 24.2 | 77 | 76 | 0.0 | 5.7 | 210 | 4.1 |
| 18 | 1010.3 | 32.5 | 29.0 | 27.3 | 24.5 | 77 | 86 | 0.0 | 7.2 | 230 | 7.1 |
| 19 | 1009.1 | 31.5 | 29.0 | 27.9 | 24.8 | 78 | 88 | Trace | 0.7 | 200 | 7.9 |
| 20 | 1009.2 | 30.8 | 29.5 | 28.3 | 25.1 | 77 | 85 | 0.0 | 1.4 | 180 | 15.3 |
| 21 | 1009.3 | 32.4 | 29.9 | 28.5 | 25.1 | 76 | 85 | 0.0 | 3.5 | 190 | 12.9 |
| 22 | 1007.6 | 33.0 | 30.1 | 28.4 | 24.8 | 74 | 82 | 0.0 | 8.5 | 200 | 14.8 |
| 23 | 1006.8 | 32.4 | 29.7 | 26.5 | 25.1 | 77 | 88 | 2.0 | 7.4 | 220 | 20.0 |
| 24 | 1009.7 | 30.5 | 27.9 | 26.4 | 23.2 | 76 | 83 | 3.5 | 3.0 | 360 | 10.8 |
| 25 | 1013.7 | 27.3 | 25.9 | 24.5 | 18.9 | 65 | 86 | 0.0 | 0.1 | 010 | 23.9 |
| 26 | 1014.7 | 27.7 | 25.5 | 24.2 | 18.0 | 63 | 88 | 0.0 | 0.9 | 050 | 25.2 |
| 27 | 1013.5 | 29.2 | 26.3 | 24.4 | 19.7 | 67 | 88 | 0.0 | 5.8 | 070 | 30.4 |
| 28 | 1010.2 | 27.3 | 26.0 | 25.0 | 22.7 | 82 | 90 | Trace | 0.2 | 080 | 28.5 |
| 29 | 1008.8 | 27.9 | 26.2 | 25.0 | 24.4 | 90 | 89 | 53.2 | 0.3 | 080 | 24.4 |
| 30 | 1009.5 | 25.0 | 24.3 | 23.6 | 22.1 | 88 | 88 | 6.4 | 0.1 | 070 | 43.9 |
| 31 | 1007.1 | 25.4 | 25.0 | 24.3 | 21.6 | 82 | 88 | Trace | 0.0 | 070 | 38.0 |
| Mean/Total | 1010.1 | 30.0 | 27.2 | 25.5 | 22.6 | 77 | 81 | 81.6 | 123.2 | 070 | 16.5 |
| Climatological Normal? | 1009.3 | 28.8 | 26.3 | 24.5 | 23.0 | 83 | 76 | 290.6 | 138.8 | 080 | 19.8 |

*^ Information of wind direction and wind speed for Waglan Island are based on automatic weather station data since August 1989*

Trace means rainfall less than 0.05 mm

*? 1991-2020 Climatological Normal, unless otherwise specified*

Daily Extract of Meteorological Observations , June 2025

Back Year 2025 Month 6 Go

| Day | Hong Kong Observatory | | | | | | | | King's Park | Waglan Island^ | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Mean Pressure (hPa) | Air Temperature | | | Mean Dew Point (deg. C) | Mean Relative Humidity (%) | Mean Amount of Cloud (%) | Total Rainfall (mm) | Total Bright Sunshine (hours) | Prevailing Wind Direction (degrees) | Mean Wind Speed (km/h) |
| | | Absolute Daily Max (deg. C) | Mean (deg. C) | Absolute Daily Min (deg. C) | | | | | | | |
| 01 | 1003.9 | 31.2 | 27.5 | 24.9 | 24.4 | 83 | 83 | 0.1 | 7.1 | 060 | 8.9 |
| 02 | 1002.2 | 31.2 | 29.4 | 28.2 | 26.3 | 83 | 88 | 0.1 | 3.6 | 210 | 17.7 |
| 03 | 1003.2 | 30.6 | 28.8 | 27.7 | 25.3 | 81 | 88 | Trace | 1.6 | 230 | 8.0 |
| 04 | 1007.3 | 28.5 | 26.4 | 25.0 | 23.8 | 86 | 88 | 3.8 | 0.0 | 070 | 24.8 |
| 05 | 1009.2 | 28.1 | 26.4 | 24.8 | 22.3 | 78 | 88 | Trace | 0.8 | 070 | 22.6 |
| 06 | 1008.3 | 31.8 | 28.1 | 26.1 | 24.0 | 79 | 60 | 0.0 | 9.4 | 050 | 12.3 |
| 07 | 1007.2 | 33.6 | 29.6 | 27.0 | 24.8 | 76 | 48 | 0.0 | 11.1 | 170 | 6.0 |
| 08 | 1005.9 | 33.2 | 30.1 | 28.0 | 25.4 | 76 | 79 | 0.0 | 12.0 | 210 | 10.8 |
| 09 | 1004.5 | 34.3 | 30.7 | 28.2 | 25.1 | 73 | 74 | 0.0 | 11.1 | 190 | 7.3 |
| 10 | 1004.2 | 35.6 | 31.0 | 28.4 | 25.3 | 72 | 76 | 0.0 | 11.3 | 060 | 17.0 |
| 11 | 1004.3 | 31.2 | 29.4 | 28.7 | 25.6 | 80 | 88 | 4.7 | 2.0 | 070 | 35.4 |
| 12 | 1004.6 | 31.3 | 28.5 | 27.1 | 25.3 | 83 | 87 | 14.6 | 3.5 | 080 | 37.2 |
| 13 | 1005.8 | 31.0 | 27.5 | 26.2 | 25.4 | 88 | 88 | 46.1 | 2.3 | 080 | 15.6 |
| 14 | 1005.5 | 31.5 | 29.1 | 27.1 | 25.5 | 81 | 88 | 1.6 | 2.1 | 170 | 39.9 |
| 15 | 1005.2 | 30.1 | 29.3 | 28.7 | 25.4 | 79 | 88 | 0.9 | 0.8 | 220 | 44.1 |
| 16 | 1007.7 | 31.1 | 29.4 | 28.3 | 25.5 | 80 | 88 | 1.0 | 2.6 | 220 | 24.5 |
| 17 | 1009.8 | 29.5 | 27.7 | 25.5 | 25.4 | 88 | 88 | 46.3 | 0.0 | 180 | 22.4 |
| 18 | 1009.7 | 31.8 | 29.2 | 26.7 | 25.4 | 80 | 88 | 0.5 | 4.1 | 160 | 23.0 |
| 19 | 1009.0 | 32.5 | 28.7 | 27.0 | 25.5 | 83 | 88 | 11.1 | 4.3 | 130 | 19.8 |
| 20 | 1008.7 | 30.4 | 28.4 | 27.1 | 24.9 | 82 | 88 | 6.3 | 2.3 | 170 | 18.4 |
| 21 | 1009.1 | 32.2 | 29.1 | 26.5 | 25.1 | 80 | 88 | 10.6 | 5.5 | 160 | 22.6 |
| 22 | 1009.0 | 31.7 | 29.2 | 27.4 | 25.4 | 80 | 88 | 2.9 | 5.6 | 190 | 19.2 |
| 23 | 1007.3 | 32.1 | 29.6 | 27.0 | 24.8 | 76 | 84 | 7.6 | 10.3 | 230 | 19.8 |
| 24 | 1007.7 | 33.4 | 30.1 | 28.4 | 24.7 | 73 | 88 | 0.0 | 9.9 | 220 | 13.8 |
| 25 | 1008.6 | 34.5 | 30.7 | 27.9 | 24.9 | 72 | 71 | 0.2 | 12.1 | 050 | 14.1 |
| 26 | 1008.1 | 31.6 | 28.9 | 26.9 | 25.9 | 84 | 88 | 48.9 | 1.7 | 120 | 23.9 |
| 27 | 1007.7 | 30.1 | 28.4 | 27.0 | 25.7 | 86 | 87 | 5.6 | 0.8 | 140 | 17.3 |
| 28 | 1006.4 | 30.9 | 28.6 | 27.0 | 25.6 | 84 | 88 | 3.1 | 2.3 | 130 | 18.1 |
| 29 | 1005.0 | 30.8 | 28.8 | 27.4 | 25.5 | 83 | 86 | 3.7 | 4.1 | 100 | 14.8 |
| 30 | 1005.8 | 30.5 | 28.5 | 26.7 | 25.5 | 84 | 87 | 17.6 | 0.6 | 100 | 21.3 |
| Mean/Total | 1006.7 | 31.5 | 28.9 | 27.1 | 25.1 | 80 | 83 | 237.3 | 144.9 | 080 | 20.0 |
| Climatological Normal? | 1006.1 | 30.7 | 28.3 | 26.5 | 24.9 | 82 | 77 | 491.5 | 144.3 | 220 | 21.6 |

*^ Information of wind direction and wind speed for Waglan Island are based on automatic weather station data since August 1989*

Trace means rainfall less than 0.05 mm

*? 1991-2020 Climatological Normal, unless otherwise specified*

# Appendix C.2
# Other Factor Might Affect the Monitoring Results

| Other Factors might affect the monitoring results | |
|---|---|
| Reporting Period | |
| May 2025 | Jun 2025 |
| N/A | N/A |

# Appendix D

# Site Inspection Proforma

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

**Table E1 Site Inspection Observation Record**

| Date | Environmental Observations | Follow-up Status |
|---|---|---|
| **May 2025** | | |
| 7 May 2025 | No major environmental deficiency was observed. | N/A |
| 13 May 2025 | No major environmental deficiency was observed. | N/A |
| 20 May 2025 | No major environmental deficiency was observed. | N/A |
| 30 May 2025 | No major environmental deficiency was observed. | N/A |
| **June 2025** | | |
| 3 Jun 2025 | No major environmental deficiency was observed. | N/A |
| 10 Jun 2025 | No major environmental deficiency was observed. | N/A |
| 17 Jun 2025 | No major environmental deficiency was observed. | N/A |
| 23 Jun 2025 | No major environmental deficiency was observed. | N/A |
| **July 2025** | | |
| 3 Jul 2025 | No major environmental deficiency was observed. | N/A |
| 10 Jul 2025 | No major environmental deficiency was observed. | N/A |
| 17 Jul 2025 | No major environmental deficiency was observed. | N/A |
| 24 Jul 2025 | No major environmental deficiency was observed. | N/A |
| 31 Jul 2025 | No major environmental deficiency was observed. | N/A |

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

| Date | Environmental Observations | Follow-up Status |
|---|---|---|
| **August 2025** | | |
| 7 Aug 2025 | No major environmental deficiency was observed. | N/A |
| 14 Aug 2025 | No major environmental deficiency was observed. | N/A |
| 28 Aug 2025 | No major environmental deficiency was observed. | N/A |
| **September 2025** | | |
| 10 Sept 2025 | No major environmental deficiency was observed. | N/A |
| 25Sept 2025 | No major environmental deficiency was observed. | N/A |
| **October 2025** | | |
| 9 Oct 2025 | No major environmental deficiency was observed. | N/A |
| 23 Oct 2025 | No major environmental deficiency was observed. | N/A |
| **November 2025** | | |
| 3 Nov 2025 | No major environmental deficiency was observed. | N/A |
| 20 Nov 2025 | No major environmental deficiency was observed. | N/A |
| 25 Nov 2025 | No major environmental deficiency was observed. | N/A |
| **December 2025** | | |
| 11 Dec 2025 | No major environmental deficiency was observed. | N/A |
| 22 Dec 2025 | No major environmental deficiency was observed. | N/A |
| **January 2026** | | |
| 9 Jan 2026 | No major environmental deficiency was observed. | N/A |
| 21 Jan 2026 | No major environmental deficiency was observed. | N/A |
| **February 2026** | | |
| 3 Feb 2026 | No major environmental deficiency was observed. | N/A |

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

| Date | Environmental Observations | Follow-up Status |
|---|---|---|
| 16 Feb 2026 | No major environmental deficiency was observed. | N/A |
| **March 2026** | | |
| 5 Mar 2026 | No major environmental deficiency was observed. | N/A |
| 24 Mar 2026 | No major environmental deficiency was observed. | N/A |
| **April 2026** | | |
| 13 Apr 2026 | No major environmental deficiency was observed. | N/A |
| 29 Apr 2026 | No major environmental deficiency was observed. | N/A |

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

# Appendix E

# Waste Flow Table

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

Name of Department: WSD Contract No.: 13/WSD/17

# Monthly Summary Waste Flow Table for 2025 (year)

| Month | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Quantity Generated | Hard Rock and Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill | Metals | Paper/ cardboard packaging | Plastics (see Note 3) | Chemical Waste | Others, e.g. general refuse |
| | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000 kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) |
| Jan | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 38.740 |
| Feb | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 18.330 |
| Mar | 30.520 | 0.000 | 0.000 | 0.000 | 30.520 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 29.050 |
| Apr | 21.290 | 0.000 | 0.000 | 0.000 | 21.290 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 73.450 |
| May | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 35.720 |
| Jun | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 28.950 |
| Sub-total | 51.810 | 0.000 | 0.000 | 0.000 | 51.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 224.240 |
| Jul | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.434 | 13.330 |
| Aug | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 27.340 |
| Sep | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Oct | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 13.710 |
| Nov | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 14.270 |
| Dec | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 70.660 |
| Total | 51.810 | 0.000 | 0.000 | 0.000 | 51.810 | 0.000 | 0.000 | 0.000 | 0.000 | 1.434 | 363.550 |

Notes:

(1) The performance targets are given in Section 1.69 of Specification B

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(3) Plastics refer to plastic bottles/containers, plastic sheets/ foam from packaging material

Name of Department: WSD Contract No.: 13/WSD/17

# Monthly Summary Waste Flow Table for 2026 (year)

| Month | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Quantity Generated | Hard Rock and Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill | Metals | Paper/ cardboard packaging | Plastics (see Note 3) | Chemical Waste | Others, e.g. general refuse |
| | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000 kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) |
| Jan | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 22.300 |
| Feb | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 18.070 |
| Mar | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 66.120 |
| Apr | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 88.530 |
| May | | | | | | | | | | | |
| Jun | | | | | | | | | | | |
| Sub-total | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 195.020 |
| Jul | | | | | | | | | | | |
| Aug | | | | | | | | | | | |
| Sep | | | | | | | | | | | |
| Oct | | | | | | | | | | | |
| Nov | | | | | | | | | | | |
| Dec | | | | | | | | | | | |
| Total | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 195.020 |

Notes:

(1) The performance targets are given in Section 1.69 of Specification B

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(3) Plastics refer to plastic bottles/containers, plastic sheets/ foam from packaging material

# Appendix F

# Summary of Exceedances

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

Table G1 Cumulative Statistics on Exceedances

| Environmental Monitoring | Parameter | No. of non-Project related exceedance in the reporting period | | Total No. of non-Project related exceedance in the reporting period | No. of Project related exceedance in the reporting period | | Total No. of Project related exceedance in the reporting period | Total No. recorded since the project commencement |
|---|---|---|---|---|---|---|---|---|
| | | AL | LL | | AL | LL | | |
| Noise | $L_{eq\ (30min)}$ | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Water Quality | DO | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Turbidity | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | SS | 3 | 11 | 14 | 0 | 0 | 0 | 3237 |
| | pH | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Landfill Gas | $O_2$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | $CH_4$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | $CO_2$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

# Appendix G

# Complaint Log

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

Statistical Summary of Environmental Complaints

| Reporting Period | Environmental Complaint Statistics | | |
|---|---|---|---|
| | Frequency | Cumulative | Complaint Nature |
| 1 May 2025 – 30 April 2026 | 0 | 3 | Air Quality, Noise and Water Quality |

Statistical Summary of Environmental Summons

| Reporting Period | Environmental Summons Statistics | | |
|---|---|---|---|
| | Frequency | Cumulative | Details |
| 1 May 2025 – 30 April 2026 | 0 | 0 | N/A |

Statistical Summary of Environmental Prosecution

| Reporting Period | Environmental Prosecution Statistics | | |
|---|---|---|---|
| | Frequency | Cumulative | Details |
| 1 May 2025 – 30 April 2026 | 0 | 0 | N/A |

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

# Appendix H

# Event / Action Plan

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

**Table I1 Event and Action Plan for Construction Noise Monitoring**

| Event | Action | | | |
|---|---|---|---|---|
| | **ET** | **IEC** | **ER** | **Contractor** |
| Action Level | 1. Carry out investigation to identify the source and cause of the complaint/ exceedance(s)<br>2. Notify IEC, ER, and Contractor and report the results of investigation to the Contractor, ER and the IEC<br>3. Discuss with the Contractor and IEC for remedial measures required<br>4. If the complaint is related to the Project, conduct additional monitoring for checking mitigation effectiveness and report the findings and results to the IEC, ER and the Contractor | 1. Review the analyzed results submitted by the ET<br>2. Review the proposed remedial measures by the Contractor and advise the ER accordingly<br>3. Supervise the implementation of remedial measures | 1. Confirm receipt of Notification of Exceedance in writing<br>2. Require Contractor to propose remedial measures for the analyzed noise problem<br>3. Ensure remedial measures are properly implemented | 1. Submit noise mitigation proposals, if required, to the IEC and ER<br>2. Implement noise mitigation proposals |
| Limit Level | 1. Carry out investigation to identify the source and cause of the exceedance<br>2. Notify IEC, ER, Project Proponent, EPD and Contractor<br>3. Repeat measurements to confirm findings<br>4. Provide investigation report to IEC, ER, EPD and Contractor he causes of the exceedances<br>5. If the exceedance is related to the Project, assess effectiveness by additional monitoring<br>6. Report the remedial action implemented and the additional monitoring results to IEC, EPD, ER and Contractor<br>7. If exceedance stops, cease additional monitoring | 1. Review the analyzed results submitted by the ET<br>2. Discuss the potential remedial measures with ER, ET Leader and Contractor<br>3. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly<br>4. Supervise the implementation of remedial measures | 1. Confirm receipt of Notification of Exceedance in writing<br>2. Require the Contractor to propose remedial measures for the analyzed noise problem<br>3. Ensure remedial measures are properly implemented<br>4. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor, in agreement with the Project Proponent, to stop that activity of work until the exceedance is abated | 1. Take immediate action to avoid further exceedance<br>2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification<br>3. Implement the agreed proposals<br>4. Resubmit proposals if problem still not under control<br>5. Stop the relevant activity of works as determined by the Project Proponent until the exceedance is abated |

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

**Table I2 Event and Action Plan for Water Quality Monitoring**

| Event | Action | | | |
|---|---|---|---|---|
| | ET | IEC | Contract(s) | ER |
| Action Level being exceeded by one sampling day | 1. Repeat in situ measurement on the next day of exceedance to confirm findings;<br>2. Check monitoring data, plant, equipment and Contractor(s)'s working methods;<br>3. Identify source(s) of impact and record in notification of exceedance;<br>4. Inform IEC, Contractor(s) and ER. | 1. Check monitoring data submitted by ET and Contractor(s)'s working methods;<br>2. Inform EPD. | 1. Confirm receipt of notification of exceedance in writing;<br>2. Check plant and equipment and rectify unacceptable practice | 1. Confirm receipt of notification of exceedance in writing. |
| Action Level being exceeded by two or more consecutive sampling days | 1. Repeat in situ measurement on the next day of exceedance to confirm findings;<br>2. Check monitoring data, plant, equipment and Contractor(s)'s working methods;<br>3. Identify source(s) of impact and record in notification of exceedance;<br>4. Inform IEC, Contractor(s) and ER;<br>5. Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented | 1. Check monitoring data submitted by ET and Contractor(s)'s working methods;<br>2. Inform EPD;<br>3. Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly;<br>4. Assess the effectiveness of the implemented mitigation measures | 1. Confirm receipt of notification of exceedance in writing;<br>2. Check plant and equipment and rectify unacceptable practice;<br>3. Consider changes of working methods;<br>4. Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days;<br>5. Implement the agreed | 1. Confirm receipt of notification of exceedance in writing;<br>2. Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented.<br>3. Ensure additional mitigation measures are properly implemented. |
| Limit Level being exceeded by one sampling day | 4. Repeat in situ measurement on the next day of exceedance to confirm findings;<br>5. Check monitoring data, plant, equipment and Contractor(s)'s working methods;<br>6. Identify source(s) of impact and record in notification of exceedance;<br>7. Inform IEC, Contractor(s) and ER;<br>8. Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented | 1. Check monitoring data submitted by ET and Contractor(s)'s working methods;<br>2. Inform EPD;<br>3. Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly;<br>4. Assess the effectiveness of the implemented mitigation measures. | 1. Confirm receipt of notification of exceedance in writing;<br>2. Check plant and equipment and rectify unacceptable practice;<br>3. Critically review the need to change working methods;<br>4. Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days;<br>5. Implement the agreed | 1. Confirm receipt of notification of exceedance in writing;<br>2. Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented.<br>3. Ensure additional mitigation measures are properly implemented.<br>4. Request Contractor(s) to critically review the working methods. |

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.

| Event | Action | | | |
|---|---|---|---|---|
| | **ET** | **IEC** | **Contract(s)** | **ER** |
| Limit Level being exceeded by two or more consecutive sampling days | 1. Repeat in situ measurement on the next day of exceedance to confirm findings;<br>2. Check monitoring data, plant, equipment and Contractor(s)'s working methods;<br>3. Identify source(s) of impact and record in notification of exceedance;<br>4. Inform IEC, Contractor(s) and ER;<br>5. Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented | 1. Check monitoring data submitted by ET and Contractor(s)'s working methods;<br>2. Inform EPD;<br>3. Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly;<br>4. Assess the effectiveness of the implemented mitigation measures. | 1. Confirm receipt of notification of exceedance in writing;<br>2. Check plant and equipment and rectify unacceptable practice;<br>3. Critically review the need to change working methods;<br>4. Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days;<br>5. Implement the agreed mitigation measures.<br>6. As directed by ER, slow down or stop all or part of the marine construction works/ production volume of the desalination plant until no exceedance of Limit Level. | 1. Confirm receipt of notification of exceedance in writing;<br>2. Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented.<br>3. Ensure additional mitigation measures are properly implemented.<br>4. Request Contractor(s) to critically review the working methods;<br>5. Consider and instruct, if necessary, the Contractor(s) to slow down or to stop all or part of the marine construction works/production volume of the desalination plant until no exceedance of Limit Level. |

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.