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Your reference:

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Date: 9 March 2026

Attention: Mr Eric Wong

BY EMAIL & POST
(email: se3tmis.mw@hyd.gov.hk)

Dear Sirs

Agreement No. HMWSD 6/2022 (EP)
Environmental Project Office for the Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road, Hong Kong-Zhuhai-Macao Bridge Hong Kong
Boundary Crossing Facilities, & Tuen Mun-Chek Lap Kok Link – Investigation

Service Contract No. HMW 6/2025 (EP)
Post-construction / operational phase water quality and mudflat ecological monitoring
for Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road Project
Verification of 2nd Monthly Environmental Monitoring & Audit Report

We refer to the email of 6 March 2026, attaching the 2nd Monthly Environmental Monitoring & Audit Report prepared by the Environmental Team (ET) of the captioned.

We have no comment and hereby verified the captioned report in accordance with Clause 4.4 of the Environmental Permit no. EP-352/2009/D.

Should you have any queries, please do not hesitate to contact the undersigned or our Mr Ricky Lau on 2618 2831.

Yours faithfully
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Independent Environmental Checker

CPSJ/LCCR/thy

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Service Contract No. HMW 6/2025 (EP)
Post-construction / operational phase
water quality and mudflat ecological monitoring
for Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road Project

2nd Monthly Environmental Monitoring &
Audit Report
from 22 January 2026 to 21 February 2026

March 2026

Quality Information

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Revision History

Revision	Revision date	Details	Authorized	Name	Position
Draft	6 Mar 2026				
R0-0	6 Mar 2026				

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EXECUTIVE SUMMARY

This is the 2nd Monthly EM&A Report presenting the environmental monitoring results and findings of the post-construction phase and operational phases EM&A activities during the period from 22 January 2026 to 21 February 2026. Monitoring works conducted in the reporting period were shown below:

Environmental Monitoring Parameter		Activities Period
Water Quality Monitoring	(Post-Construction Phase)	- Nil.
	(Operational Phase)	3 February 2026
Mudflat Ecological Monitoring (Post-Construction Phase)		1, 2, 3, 20 and 21 February 2026

1. INTRODUCTION

1.1 Background

- 1.1.1 The Hong Kong-Zhuhai-Macao Bridge (HZMB) Hong Kong Link Road (HKLR) serves to connect the HZMB Main Bridge at the Hong Kong Special Administrative Region (HKSAR) Boundary and the HZMB Hong Kong Boundary Crossing Facilities (HKBCF) located at the north eastern waters of the Hong Kong International Airport (HKIA).
- 1.1.2 HKLR which comprises two construction phase contracts, i.e. Contract No. HY/2011/03 the Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary (hereinafter referred as Contract 03), and Contract No. HY/2011/09 the Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road Section between HKSAR Boundary and Scenic Hill (hereafter referred as Contract 09), is a designated project under the Environmental Impact Assessment Ordinance (EIAO). The Environmental Impact Assessment (EIA) Report (EIA Register No. AEIAR-144/2009) and updated Environmental Monitoring and Audit (EM&A) Manual for Hong Kong Link Road (Version 1.0) (hereinafter referred as HKLR EM&A Manual) and the current Environmental Permit (EP) No. EP-352/2009/D was issued on 22 December 2014.
- 1.1.3 As the construction phase under Contract 03 and Contract 09 has been completed, Contract No. HMW 6/2025 (EP) will cover environmental monitoring for the post-construction and operational phases of the project for HKLR.
- 1.1.4 AECOM Asia Company Limited was employed by HyD as the Environmental Team (ET) to provide water quality monitoring and mudflat ecological monitoring services during the post-construction and operation phase for this project.
- 1.1.5 The environmental and ecological monitoring works for this Contract is listed in below:
- Water quality monitoring for 4 weeks in post-construction phase after completion of construction phase EM&A in Contract 03. (The post-construction phase water quality monitoring for Contract 09 has been completed on 21 November 2018, the report is annexed in Appendix H in Contract 09 Final EM&A Report);
 - Water quality monitoring for 1 year in operational phase after completion of post-construction phase water quality monitoring; and
 - Mudflat ecological monitoring for 2 years in post-construction phase after completion of construction phase EM&A in Contract No. HY/2011/03.

1.2 Purpose of the Report

- 1.2.1 This is the 2nd Monthly EM&A Report which summaries the environmental monitoring results and findings of the post-construction phase and operational phases EM&A activities for the Project during the reporting period between 22 January 2026 to 21 February 2026.

1.3 Report Structure

- 1.3.1 This monthly EM&A Report is organized as follows:
- Section 1: Introduction
 - Section 2: Water Quality Monitoring
 - Section 3: Mudflat Ecological Monitoring
 - Section 4: Monitoring Results
 - Section 5: Conclusions

2. WATER QUALITY MONITORING

2.1 Monitoring Requirements

2.1.1 According to the HKLR EM&A Manual, a post-construction water quality monitoring shall be carried out upon completion of all marine-based construction activities for 4 weeks in the same manner as the Baseline monitoring and operational water quality monitoring shall be performed monthly during the first year of Project operation.

Post-Construction Phase Water Quality Monitoring

2.1.2 Upon completion of all marine-based construction activities, a post-construction phase monitoring exercise on water quality shall be carried out for 4 weeks in the same manner as the baseline monitoring. Replicate in-situ measurements and samples collected from each independent sampling event shall be collected to ensure a robust statistically interpretable database. The measurement parameters for post-construction phase water quality monitoring shall include DO, temperature, turbidity, pH, salinity, and SS. The measurement shall be taken at all designated monitoring stations including control stations, 3 days per week, at mid-flood (within ± 1.75 hour of the predicted time) and mid-ebb (within ± 1.75 hour of the predicted time) tides, for at least 4 weeks.

Operational Phase Water Quality Monitoring

2.1.3 The marine water quality monitoring shall be performed monthly during the first year of Project operation at all designated monitoring stations including control stations. Each monthly monitoring event shall consist of one monitoring and sampling event during both mid-ebb (within ± 1.75 hour of the predicted time) and mid-flood (within ± 1.75 hour of the predicted time) tides of the same monitoring day. The operation phase water quality monitoring shall be ceased after the first year of operation of the Project. No marine construction activities should be conducted in the vicinity of the stations during the operational phase monitoring period.

2.1.4 Sampling shall be taken at three water depths, namely, 1m below water surface, mid-depth and 1m above seabed, except where the water depth is less than 6m, in which case the mid-depth station may be omitted. If the water depth is less than 3m, only the mid-depth station will be monitored. In-situ measurements at DO, turbidity, SS, pH, salinity and temperature shall be taken at all the monitoring. A full set of in duplicated situ measurement and water samples shall be collected during each of the mid-ebb (within ± 1.75 hour of the predicted time) and mid-flood (within ± 1.75 hour of the predicted time) tides.

2.2 Monitoring Locations

2.2.1 The monitoring locations of post-construction phase water quality monitoring stations are shown in **Table 2-1**.

Table 2-1 Monitoring Locations of Post-Construction Phase Water Quality Monitoring Stations

Sample ID	Description	Northing	Easting
IS5	Impact Station (Close to HKLR construction site)	817106	811579
IS(Mf)6	Impact Station (Close to HKLR construction site)	817873	812101
IS7	Impact Station (Close to HKBCF construction site)	818777	812244
IS8(N)	Impact Station (Close to HKBCF construction site)	818570	814413
IS(Mf)9	Impact Station (Close to HKBCF construction site)	818850	813273
IS10(N)	Impact Station (Close to HKBCF construction site)	820881	812942

Sample ID	Description	Northing	Easting
SR3(N)	Sensitive receivers (San Tau SSSI)	816591	810689
SR4(N3)	Sensitive receivers (Tai Ho Inlet)	818032	814779
SR5(N)	Sensitive Receivers (Artificial Reef in NE Airport)	821475	812569
SR10A(N)	Sensitive receivers (Ma Wan Fish Culture Zone)	823484	823644
SR10B(N2)	Sensitive receivers (Ma Wan Fish Culture Zone)	823159	823689
CS2(A)	Control Station (Mid-Ebb)	818606	805232
CS(Mf)5	Control Station (Mid-Flood)	821129	817990

2.2.2 The post-construction phase water quality monitoring location plan is shown in **Figure 2-1**.

2.2.3 The monitoring locations of operational phase water quality monitoring stations are shown in **Table 2-2**.

2.2.4 A proposal for relocation of water quality monitoring station at SR2 to SR2(N) was justified by the ET leader and approved/ verified by IEC on 7 January 2026 and it was approved by EPD on 14 January 2026.

Table 2-2 Monitoring Locations of Operational Phase Water Quality Monitoring Stations

Sample ID	Description	Northing	Easting
^SR2(N)	Sensitive receivers (Sha Lo Wan)	817139	807831
SR3(N)	Sensitive receivers (San Tau SSSI)	816591	810689
CS2(A)	Control Station (Mid-Ebb)	818606	805232
CS(Mf)5	Control Station (Mid-Flood)	821129	817990

Note^: SR2 was relocated to SR2(N) due to low water levels (the relocation proposal was approved by EPD on 14 January 2026).

2.2.5 The operational phase water quality monitoring location plan is shown in **Figure 2-2**.

2.3 Monitoring Equipment

2.3.1 **Table 2-3** summarizes the equipment used in the water quality monitoring.

Table 2-3 Water Quality Monitoring Equipment

Equipment	Brand and Model
DO and Temperature Meter, Salinity Meter, Turbidimeter and pH Meter	YSI ProDSS
Positioning Equipment	Garmin GPS72H
Water Depth Detector	Lowrance x-4
Water Sampler	Kahlsio Water Sampler (Vertical) 2.2 L with messenger

2.4 Monitoring Parameters, Frequency and Duration

2.4.1 **Table 2-4** summarizes the monitoring parameters, frequency and monitoring depths of water quality monitoring as required in the HKLR EM&A Manual.

Table 2-4 Water Quality Monitoring Parameters and Frequency

Parameter, unit	Frequency	No. of depth
<ul style="list-style-type: none"> • Depth, m • Temperature, °C • Salinity, ppt • Dissolved Oxygen (DO), mg/L • DO Saturation, % • Turbidity, NTU • pH • Suspended Solids (SS), mg/L 	<u>Post-Construction Phase (4 weeks)</u> Three times per week during mid-ebb and mid-flood tides (within ± 1.75 hour of the predicted time)	3 levels of depth (1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth is less than 6 m, in which case the mid-depth station may be omitted. Should the water depth be less than 3 m, only the mid-depth station will be monitored).
	<u>Operation Phase (1 year)</u> Once per Month, during mid-ebb and mid-flood tides (within ± 1.75 hour of the predicted time)	

2.5 Monitoring Methodology

Instrumentation

2.5.1 The in-situ water quality parameters including dissolved oxygen, temperature, salinity and turbidity, pH were measured by multi-parameter meter.

Operating/ Analytical Procedures

2.5.2 Digital Differential Global Positioning System (DGPS) was used to ensure that the correct location was selected prior to sample collection.

2.5.3 Portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring station.

2.5.4 All in-situ measurements were taken at 3 water depths, 1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth was less than 6 m, in which case the mid-depth station was omitted. Should the water depth be less than 3 m, only the mid-depth station was monitored.

2.5.5 At each measurement/sampling depth, two consecutive in-situ monitoring (DO concentration and saturation, temperature, turbidity, pH, salinity) and water sample for SS. The probe was retrieved from the water after the first measurement and then re-deployed for the second measurement. Where the difference in the value between the first and second readings of DO or turbidity parameters was more than 25% of the value of the first reading, the reading would be discarded and further readings would be taken.

2.5.6 Duplicate samples from each independent sampling event were collected for SS measurement. Water samples were collected using the water samplers and the samples were stored in high-density polythene bottles. Water samples collected were well-mixed in the water sampler prior to pre-rinsing and transferring to sample bottles. Sample bottles were pre-rinsed with the same water samples. The sample bottles then were packed in cool-boxes (cooled at 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. for the analysis of suspended solids concentrations. The laboratory determination work would be started within 24 hours after collection of the water samples. ALS Technichem (HK) Pty Ltd. is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.

2.5.7 The analysis method and detection limit for SS is shown in **Table 2-5**.

Table 2-5 Laboratory Analysis for Suspended Solids

Parameters	Instrumentation	Analytical Method	Detection Limit
Suspended Solid (SS)	Weighting	APHA 2540-D	0.5mg/L

2.5.8 Other relevant data were recorded, including monitoring location / position, time, water depth, tidal stages, weather conditions and any special phenomena, in the field log sheet for information.

2.6 Maintenance and Calibration

2.6.1 The DO and Temperature Meter, Salinity Meter, Turbidimeter and pH Meter were calibrated quarterly. The calibration certificate of the monitoring equipment is presented in **Appendix B**.

2.7 Monitoring Schedule

2.7.1 Post-construction phase water quality monitoring was commenced on 22 December 2025 and completed on 16 January 2026.

2.7.2 The operational phase water quality monitoring to be commenced after completion of post-construction phase water quality monitoring. The 1st operational phase water quality monitoring was conducted on 3 February 2026.

2.7.3 The operational phase water quality monitoring schedule in the reporting period and tentative schedule are presented in **Appendix A**.

3. MUDFLAT ECOLOGICAL MONITORING

3.1 Monitoring Requirements

- 3.1.1 A monitoring programme on the intertidal soft shore habitats on north Lantau coastlines, in San Tau and Tung Chung Bay where horseshoe crab juveniles and seagrass beds have been sighted, should be set up to verify the predictions of impacts.
- 3.1.2 Mudflat ecological monitoring will be conducted in the post-construction phase at least for 2 years after completion of construction. The post-construction mudflat monitoring also complies with the BCF EP and EM&A requirement.
- 3.1.3 The monitoring should cover the water quality, sedimentation rate, horseshoe crab population, seagrass beds, and soft shore intertidal communities. The survey methodology should make reference to previous intertidal soft shore surveys/monitoring (e.g. the seagrass bed monitoring in Shenzhen Western Corridor, and the territory-wide horseshoe crab study by Shin et al. 2007. Conservation of Horseshoe Crabs in Hong Kong – Final Report (ECF Project 12/2003)).
- 3.1.4 According to the Clause 10.3.7 of HKLR EM&A Manual of Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road (AEIAR-144/2009), the mudflat ecological monitoring survey shall be undertaken by suitably qualified specialist(s), who shall have sufficient (at least 5-10 years) relevant post-graduate experience and publication in the respective aspects. Approval on the specialist(s) responsible for each ecological monitoring survey shall be sought from AFCD and EPD.

3.2 Monitoring Locations

- 3.2.1 According to **Section 10.3.6** of the HKLR EM&A Manual, the mudflat ecological monitoring shall be conducted on the intertidal soft shore habitats in San Tau and Tung Chung Bay, where horseshoe crab juveniles and seagrass beds have been sighted. Following the monitoring locations during the pre-construction (i.e. baseline condition) and construction stage, a total of three monitoring location (TC1-3) in Tung Chung Bay, one monitoring location (ST) in San Tau, and monitoring locations for water quality monitoring (SR3(N)), are proposed for the post-construction phase monitoring and indicated in **Figure 3-1**.

3.3 Monitoring Frequency

- 3.3.1 **Table 3-1** summarizes the mudflat ecological monitoring parameter and frequency.

Table 3-1 Mudflat Ecological Monitoring Parameters and Frequency

Monitoring parameter	Frequency
Water Quality	Once per quarter at SR3(N)
Sediment Rate	Once per quarter at TC1-3 and ST
Horseshoe Crab	Once per quarter at TC1-3 and ST
Seagrass Bed	Once per quarter at TC1-3 and ST
Soft Shore Intertidal Community	Once per quarter at TC1-3 and ST

3.4 Monitoring Methodology

Water Quality

- 3.4.1 The monitoring methodology on water quality follows those stated in **Section 2.5** above.

Sedimentation Rate

- 3.4.2 Monitoring of sedimentation rate at the four monitoring locations (i.e. TC1-3 and ST) will be conducted once per quarter for two years during the post-construction stage. The monitoring work was conducted during the ebb tide at low water conditions.
- 3.4.3 To avoid disturbance to the mudflat and nuisance to navigation, no fixed marker/monitoring rod was installed at the monitoring station. A high precision Global Navigation Satellite System (GNSS) real time location fixing system (or equivalent technology) was used to locate the station in the precision of 1mm, which is reasonable under flat mudflat topography with uneven mudflat surface only at micro level. This method has been used on Agriculture, Fisheries and Conservation Department's (AFCD) project, namely Baseline Ecological Monitoring Programme for the Mai Po Inner Deep Bay Ramsar Site for measurement of seabed levels.
- 3.4.4 Measurements were taken directly on the mudflat surface. The Real Time Kinematic GNSS (RTK GNSS) surveying technology was used to measure mudflat surface levels and 3D coordinates of a survey point. The RTK GNSS survey was calibrated against a reference station in the field before and after each survey. The reference station was a survey control point established by the Lands Department of the HKSAR Government or traditional land surveying methods using professional surveying instruments such as total station, level and/or geodetic global navigation satellite system. The coordinates system was in HK1980 GRID system. The reference control station was surveyed and established by traditional land surveying methods using professional surveying instruments such as total station, level and/or geodetic GNSS. The accuracy should be down to mm level and higher than the proposed RTK GNSS cm level so that the reference control station has relatively higher accuracy. As the reference control station has higher accuracy, it can be set as true evaluation relative to the RTK GNSS measurement. All position and height correction was adjusted and corrected to the reference control station.
- 3.4.5 The precision of the measured seabed level reading (vertical precision setting) shall be within 10 mm (standard deviation) after averaging the valid survey records of the XYZ HK1980 GRID coordinates. Each survey record at each station was computed by averaging at least three measurements that are within the above specified precision setting. Both digital data logging and written records were collected in the field. Field data on station fixing and seabed level measurement was recorded. The data collected was recorded using the field log sheet and evaluated and presented with the aid of graphical representations and correlation analysis.

Horseshoe Crab Population

- 3.4.6 An active search method was adopted for horseshoe crab survey at the monitoring locations. During the search period, any accessible and potential area was investigated for any horseshoe crab individuals within 2-3 hours of low tide period (tidal level below 1.2 m above Chart Datum (C.D.)). The survey was conducted by at least two (2) specialists. The effort spent on searching at the site was standardized to facilitate comparison of occurrence of species using the number per standard unit effort approach. Once a horseshoe crab is found, the species, size and inhabiting substrata were recorded while a photo record and respective GPS coordinate shall be taken. The species was identified referencing to Li (2008). If patchy distribution of individuals is found, the surrounding environment will be recorded. Any grouping behavior of individuals, if found, will also be recorded.

Seagrass Bed Survey

- 3.4.7 An active search method was adopted for seagrass at the monitoring locations. During the search period, any accessible and potential area was investigated for any seagrass beds within 2-3 hours of low tide period. The survey was conducted by at least two (2) specialists. Once seagrass is observed, the species and estimated area (m²) will be recorded while a photo record and respective GPS coordinate will be taken.

Soft Shore Intertidal Community Survey

- 3.4.8 The intertidal soft shore community surveys were conducted during low tide period. The survey was conducted by at least two (2) specialists. The intertidal zone at each monitoring locations was divided into three tidal zones from uppermost part of the shore and to the water edge, namely upper (2.0m above C.D.), middle (1.5m above C.D.) and lower (1.0m above C.D.) tidal zones. A 100m horizontal transect was laid at each tidal zone (i.e. a total of 12 transects shall be laid within the four monitoring locations).
- 3.4.9 Inside a quadrat, any visible epifauna was counted and identified in-situ to the lowest practical taxonomical resolution. Whenever possible a hand core sample (10 cm internal diameter x 20 cm depth) of sediments was collected in the quadrat at soft seabed habitat. The core sample was gently washed through a sieve of mesh size 2.0 mm in-situ. Any visible infauna was collected and identified. Finally, the top 5 cm surface sediment was dig for visible infauna in the quadrat regardless of hand core sample was taken.
- 3.4.10 All collected fauna was released after recording except some tiny individuals that are too small to be identified on site. These tiny individuals will be taken to laboratory for identification under dissecting microscope.
- 3.4.11 The taxonomic classification was conducted in accordance with the following references: Polychaetes: Fauchald (1977), Yang and Sun (1988); Arthropods: Dai and Yang (1991), Dong (1991); Mollusks: Chan and Caley (2003), Qi (2004), AFCD (2018).
- 3.4.12 Data collected from direct counting and core sampling was pooled in every quadrat for data analysis. Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) were calculated for every quadrat using the formulae below,

$$H' = -\sum (N_i / N) \ln (N_i / N); \text{ and}$$

$$J = H' / \ln S$$

Where S is the total number of species in the sample, N is the total number of individuals, and N_i is the number of individuals of the ⁱth species.

3.5 Monitoring Schedule

- 3.5.1 The post-construction phase mudflat ecological monitoring programme in the reporting period is presented in **Appendix A**.

4. MONITORING RESULTS

4.1 Water Quality Monitoring

Post-Construction Phase Water Quality Monitoring

- 4.1.1 Post-construction phase water quality monitoring was commenced on 22 December 2025 and completed on 16 January 2026.

Operational Phase Water Quality Monitoring

- 4.1.2 Operational phase water quality monitoring at four (4) monitoring stations was conducted on 3 February 2026. The monitoring schedule is shown in **Appendix A**.
- 4.1.3 The detailed weather conditions, monitoring results and graphical presentation during the operational phase monitoring period are shown in **Appendix C**.

4.2 Post-Construction Phase Mudflat Ecological Monitoring

Sedimentation Rate Monitoring

- 4.2.1 The baseline sedimentation rate monitoring was in September 2012 and sedimentation rate monitoring was undertaken on 3 February 2026. The mudflat surface levels at the four established monitoring stations and the corresponding XYZ HK1980 GRID coordinates are presented in **Table 4-1** and **Table 4-2** below:

Table 4-1 Measured Mudflat Surface Level Results

Monitoring Station	Baseline Monitoring (September 2012)			Impact Monitoring (February 2026)		
	Easting (m)	Northing (m)	Surface Level (mPD)	Easting (m)	Northing (m)	Surface Level (mPD)
TC1	810291.160	816678.727	0.950	810291.152	816678.719	1.022
TC2	810958.272	815831.531	0.864	810958.265	815831.542	0.945
TC3	810716.585	815953.308	1.341	810716.571	815953.326	1.389
ST	811221.433	816151.381	0.931	811221.445	816151.396	1.012

Table 4-2 Comparison of current measurement to the baseline measurement

Monitoring Station	Easting (m)	Northing (m)	Surface Level (mPD)
TC1	-0.008	-0.008	0.072
TC2	-0.007	0.011	0.081
TC3	-0.014	0.018	0.048
ST	0.012	0.015	0.081

- 4.2.2 This measurement result was generally and relatively higher than the baseline measurement at TC1, TC2, TC3 and ST. The mudflat level is continuously increased. Based on the post-construction monitoring results, there was no evidence showing any significant difference in intertidal communities when compared against the data obtained during baseline monitoring.

Water Quality Monitoring

- 4.2.3 Water quality monitoring in SR3(N) was conducted in February 2026 as part of mudflat monitoring. The monitoring parameters included dissolved oxygen (DO), turbidity and suspended solids (SS). The detailed weather conditions, monitoring results and graphical presentation are shown in **Appendix C**.

Horseshoe Crab Population

- 4.2.4 The horseshoe crab population monitoring was conducted between 1 to 3 February 2026. No horseshoe crabs were recorded during the monitoring. This could be due to the reduced activity of horseshoe crab during the winter period (i.e. December to February). Similar seasonal variations, characterised by low encounter rates during winter, have also been observed in previous monitoring during the construction phase. These patterns reflect temperature-driven behavioural adaptations rather than an absolute absence of individuals.

Seagrass Beds

- 4.2.5 The seagrass beds monitoring was conducted between 1 to 3 February 2026. No seagrass bed was observed during the monitoring. This absence could be attributable to natural seasonal variation, exhibit reduced above-ground biomass, partial die-back of leaves, and lower shoot density during the winter period.
- 4.2.6 It is also noted that disappearance of seagrass was observed during the construction phase monitoring in December 2024. Yet regeneration was observed in March and June 2025. The seagrass beds monitoring in the coming quarters, in particular during spring and summer season, will help determine whether similar seasonal recovery patterns are evident and distinguish natural fluctuations from any other post construction-related effects.

Intertidal Soft Shore Communities

- 4.2.7 The intertidal soft shore communities monitoring was conducted between 20 to 21 February 2026.
- 4.2.8 No significant changes on the substratum types were observed comparing with the baseline monitoring. A total of 6,680 individuals were recorded. Mollusca was the most abundant phylum (total abundance 5,984 ind., density 199 ind. m⁻², relative abundance 89.6%). The second and third were Arthropoda 425 ind., 14 ind. m⁻², 6.4%) which followed by Sipuncula (113 ind., 4 ind. m⁻², 1.7%) and Cnidaria (62 ind., 2 ind. m⁻², 0.9%), respectively. The fifth was Annelida with total abundance 56 ind., density 2 ind.m⁻² and relative abundance 0.8%. The sixth was Nemertea with total abundance 32 ind., density 1 ind.m⁻² and relative abundance 0.5%. Platyhelminthes was very low in abundances (density 0.3 ind. m⁻², relative abundance 0.1%). Moreover, the most diverse phylum was Mollusca (28 taxa) followed by Arthropoda (5 taxa). Annelida (3 taxa) and Sipuncula (1 taxa). There was 1 taxon for Nemertea, Cnidaria and Platyhelminthes. There was no consistent pattern of species distribution observed across sampling zones and tidal levels in Tung Chung Bay and San Tau. The species distribution might be determined by the type of substratum.
- 4.2.9 The complete monitoring results of the intertidal soft shore communities monitoring will be provided in the 3rd Monthly Environmental Monitoring & Audit Report.

5. CONCLUSIONS

- 5.1.1 As per the Environmental Protection Department (EPD) approved termination proposal, all marine construction works under this Contract have been completed. No marine-based works under this Contract were carried out during the post-construction phase water quality and mudflat ecological monitoring, and operational phase water quality monitoring period.

Post-Construction Phase Water Quality Monitoring

- 5.1.2 Post-construction phase water quality monitoring was commenced on 22 December 2025 and completed on 16 January 2026.

Operational Phase Water Quality Monitoring

- 5.1.3 The operational phase water quality monitoring to be commenced after completion of post-construction phase water quality monitoring. The 1st operational phase water quality monitoring was conducted on 3 February 2026.
- 5.1.4 The operational phase water quality monitoring results were checked and reviewed.

Post-Construction Phase Mudflat Ecological Monitoring

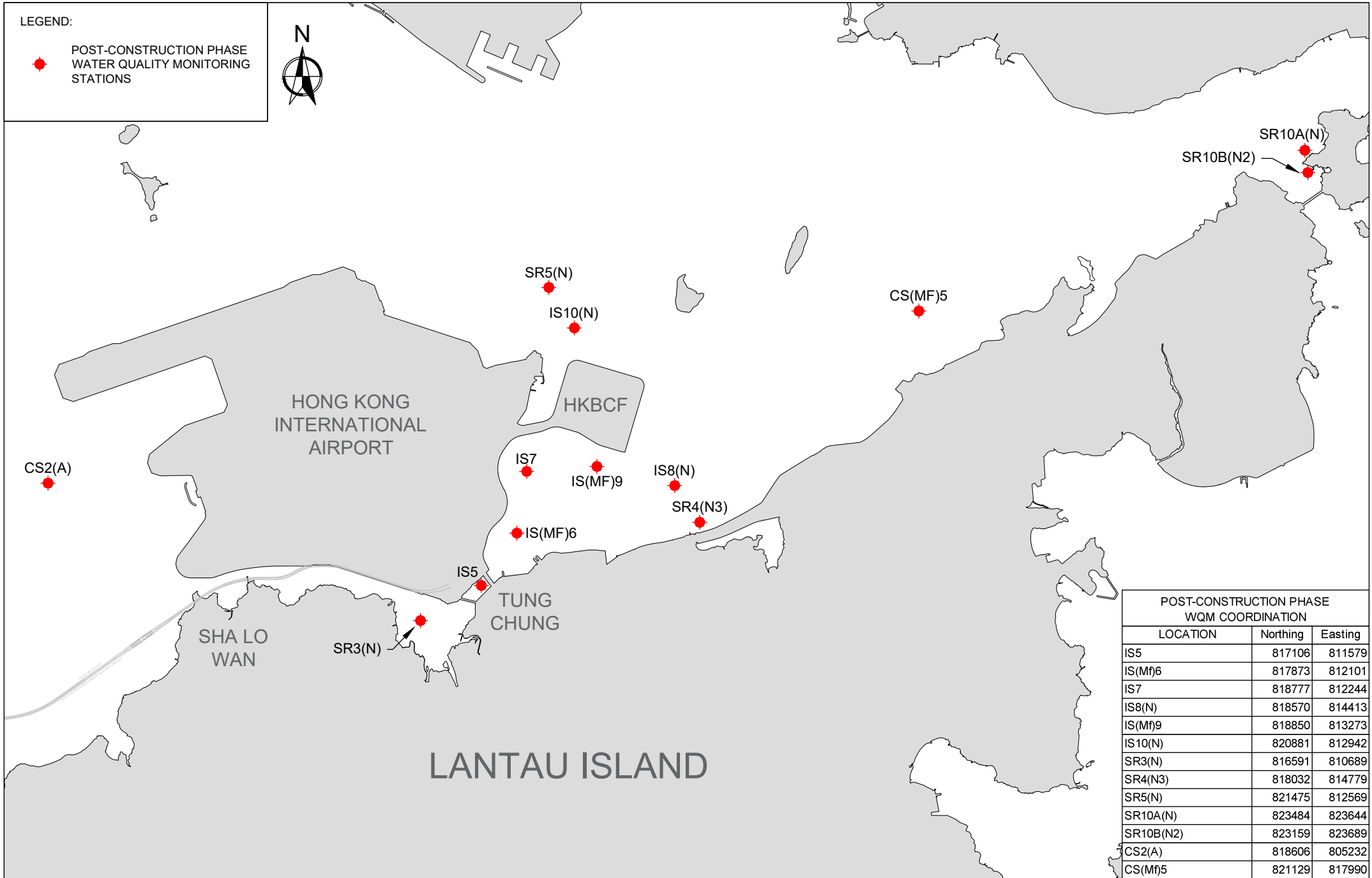
- 5.1.5 The 1st post-construction phase mudflat ecological monitoring was conducted between 1 to 3 February 2026 and 20 to 21 February 2026. Monitoring on sedimentation rate, water quality, horseshoe crab population, seagrass bed, and intertidal soft shore communities were conducted.
- 5.1.6 The post-construction phase mudflat ecological monitoring results were checked and reviewed. The complete monitoring results of the intertidal soft shore communities monitoring will be provided in next Monthly Environmental Monitoring & Audit Report.

Figures

LEGEND:



POST-CONSTRUCTION PHASE
WATER QUALITY MONITORING
STATIONS



POST-CONSTRUCTION PHASE WQM COORDINATION		
LOCATION	Northing	Easting
IS5	817106	811579
IS(Mf)6	817873	812101
IS7	818777	812244
IS8(N)	818570	814413
IS(Mf)9	818850	813273
IS10(N)	820881	812942
SR3(N)	816591	810689
SR4(N3)	818032	814779
SR5(N)	821475	812569
SR10A(N)	823484	823644
SR10B(N2)	823159	823689
CS2(A)	818606	805232
CS(Mf)5	821129	817990



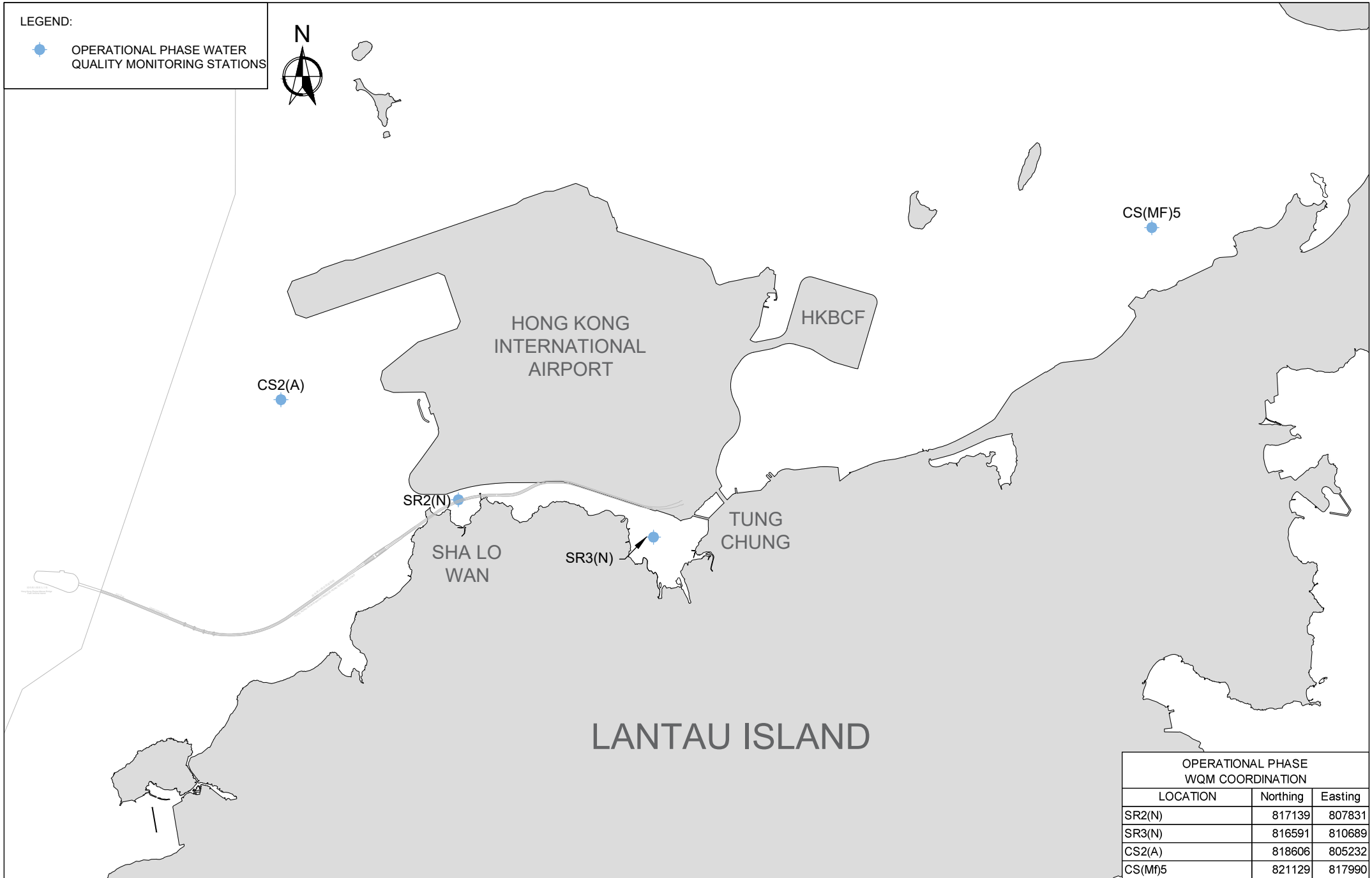
SERVICE CONTRACT HMW 6/2025(EP)

LOCATION PLAN OF POST-CONSTRUCTION PHASE WATER QUALITY MONITORING STATIONS

SCALE	NTS	DATE	JAN 2026
CHECK	LL	DRAWN	KH
JOB No.	60774802	DRAWING No.	Figure 2-1
		REV	0

LEGEND:

● OPERATIONAL PHASE WATER QUALITY MONITORING STATIONS



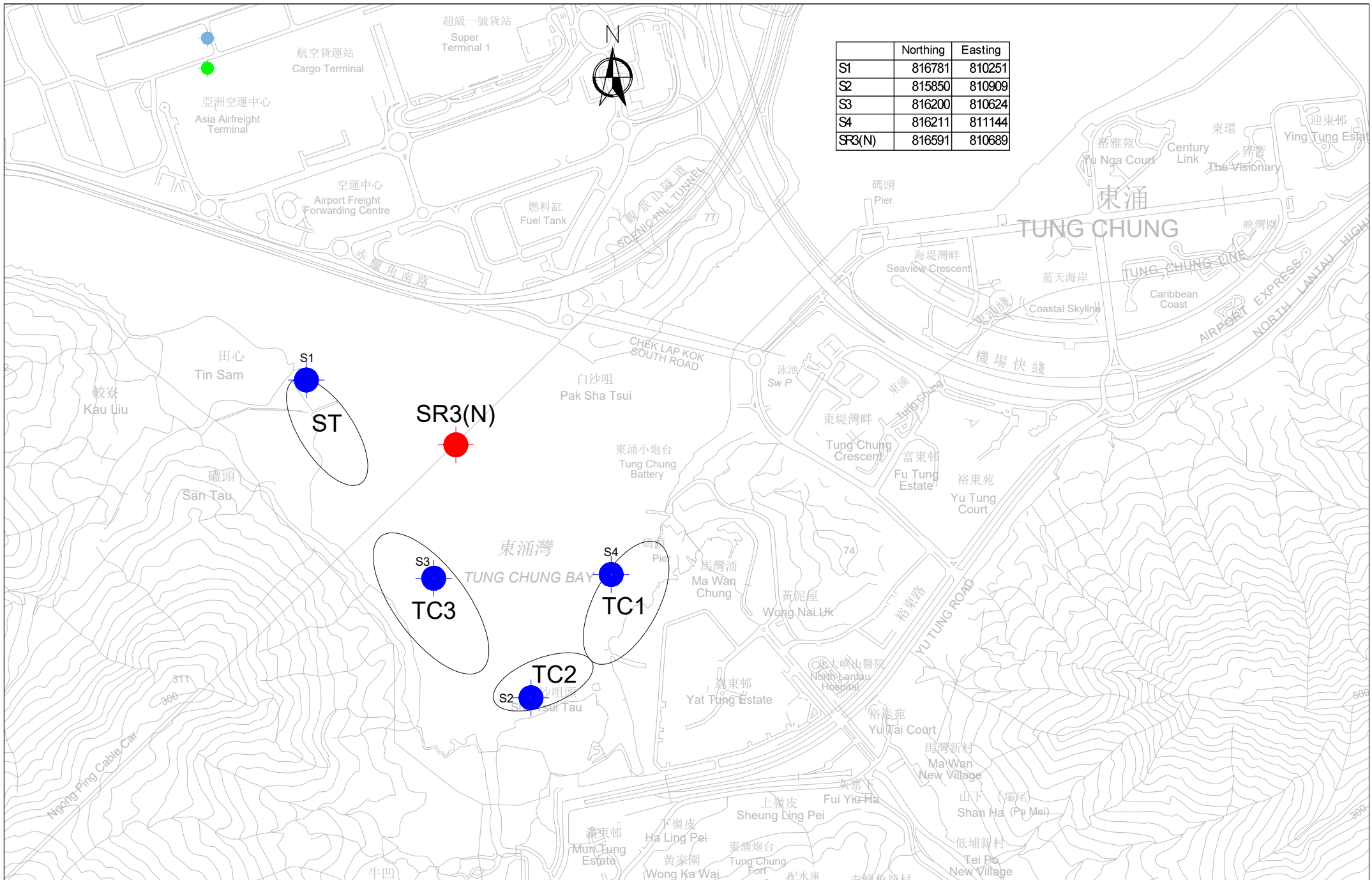
OPERATIONAL PHASE WQM COORDINATION		
LOCATION	Northing	Easting
SR2(N)	817139	807831
SR3(N)	816591	810689
CS2(A)	818606	805232
CS(Mf)5	821129	817990



SERVICE CONTRACT HMW 6/2025(EP)

LOCATION PLAN OF OPERATIONAL PHASE WATER QUALITY MONITORING STATIONS

SCALE	NTS	DATE	JAN 2026
CHECK	LL	DRAWN	KH
JOB No.	60774802	DRAWING No.	Figure 2-2
		REV	0



SERVICE CONTRACT HMW 6/2025(EP)

MUDFLAT ECOLOGICAL SAMPLING ZONES AND WATER QUALITY MONITORING LOCATION

SCALE	NTS	DATE	JAN 2026
CHECK	LL	DRAWN	KH
JOB No.	60774802	DRAWING No.	Figure 3-1
		REV	0

Appendix A
Monitoring Schedule

Service Contract No. HMW 6/2025 (EP)
Environmental Monitoring Schedule for 1st Water Quality Monitoring and 1st Mudflat Monitoring

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan
25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan
1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb
1 st Mudflat Monitoring	1 st Mudflat Monitoring	1 st WQM 1 st Mudflat Monitoring				
8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb
15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb
					1 st Mudflat Monitoring	1 st Mudflat Monitoring

*The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

Note:

WQM: Operational Phase Water Quality Monitoring (in Monthly Basis)

Mudflat Monitoring: Post-Construction Phase Mudflat Ecological Monitoring (in Quarterly Basis)

Service Contract No. HMW 6/2025 (EP)
Tentative Environmental Monitoring Schedule for 2nd Water Quality Monitoring

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb
1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar
					2 nd WQM	
8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar
15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar

*The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

Note:

WQM: Operational Phase Water Quality Monitoring (in Monthly Basis)

Appendix B

Calibration Certificates



REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR WS CHAN
CLIENT: AECOM ASIA COMPANY LIMITED
ADDRESS: 13/F, TOWER 2, GRAND CENTRAL PLAZA,
138 SHATIN RURAL COMMITTEE ROAD,
SHATIN, HONG KONG

WORK ORDER: HK2548707
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 11-Nov-2025
DATE OF ISSUE: 18-Nov-2025

GENERAL COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.

Equipment Type: Multifunctional Meter

Service Nature: Performance Check

Scope: Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature

Brand Name/ Model No.: [YSI]/ [ProDSS]

Serial No./ Equipment No.: [22J104777/22H104506]/ [W.026.37]

Date of Calibration: 11-November-2025

Ms. Lin Wai Yu, Iris
Assistant Manager - Inorganics

This report shall not be reproduced except in full without the written approval of the laboratory.

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2548707
SUB-BATCH: 0
DATE OF ISSUE: 18-Nov-2025
CLIENT: AECOM ASIA COMPANY LIMITED

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [YSI]/ [ProDSS]
Serial No./ Equipment No.: [22J104777/22H104506]/ [W.026.37]
Date of Calibration: 11-November-2025 Date of Next Calibration: 11-February-2026

PARAMETERS:

Conductivity

Method Ref: APHA (23rd edition), 2510B

Expected Reading ($\mu\text{S}/\text{cm}$)	Displayed Reading ($\mu\text{S}/\text{cm}$)	Tolerance (%)
146.9	140.2	-4.6
6667	6435	-3.5
12890	12240	-5.0
58670	58166	-0.9
	Tolerance Limit (%)	± 10.0

Dissolved Oxygen

Method Ref: APHA (23rd edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.67	2.55	-0.12
4.42	4.36	-0.06
6.63	6.54	-0.09
	Tolerance Limit (mg/L)	± 0.20

pH Value

Method Ref: APHA (23rd edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	4.00	+0.00
7.0	7.07	+0.07
10.0	10.02	+0.02
	Tolerance Limit (pH unit)	± 0.20

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris
Assistant Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2548707
SUB-BATCH: 0
DATE OF ISSUE: 18-Nov-2025
CLIENT: AECOM ASIA COMPANY LIMITED

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [YSI]/ [ProDSS]
Serial No./ Equipment No.: [22J104777/22H104506]/ [W.026.37]
Date of Calibration: 11-November-2025 Date of Next Calibration: 11-February-2026

PARAMETERS:

Turbidity

Method Ref: APHA (23rd edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	--
4	4.13	+3.3
10	10.21	+2.1
20	20.28	+1.4
50	48.87	-2.3
100	97.29	-2.7
	Tolerance Limit (%)	±10.0

Salinity

Method Ref: APHA (23rd edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	10.21	+2.1
20	20.17	+0.9
30	29.59	-1.4
	Tolerance Limit (%)	±10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris
Assistant Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2548707
SUB-BATCH: 0
DATE OF ISSUE: 18-Nov-2025
CLIENT: AECOM ASIA COMPANY LIMITED

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [YSI]/ [ProDSS]
Serial No./ Equipment No.: [22J104777/22H104506]/ [W.026.37]
Date of Calibration: 11-November-2025 Date of Next Calibration: 11-February-2026

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
9.5	9.9	+0.4
19.5	20.1	+0.6
38.0	37.9	-0.1
	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

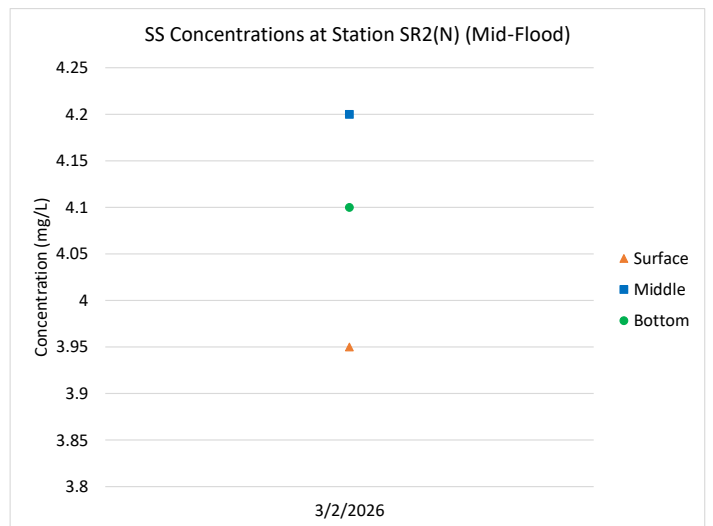
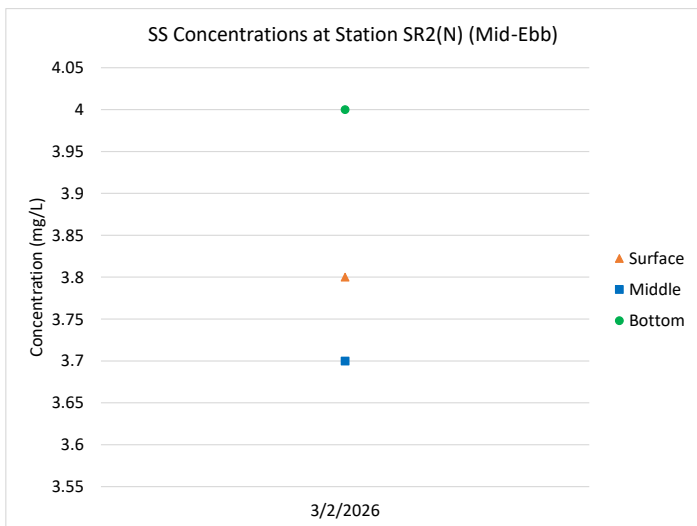
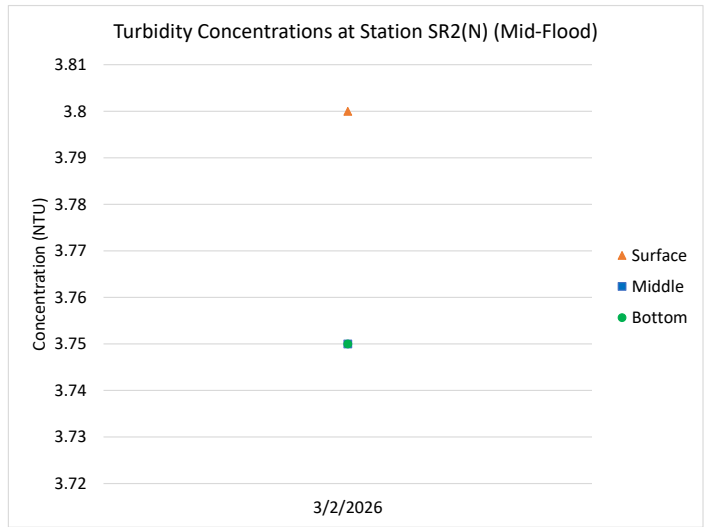
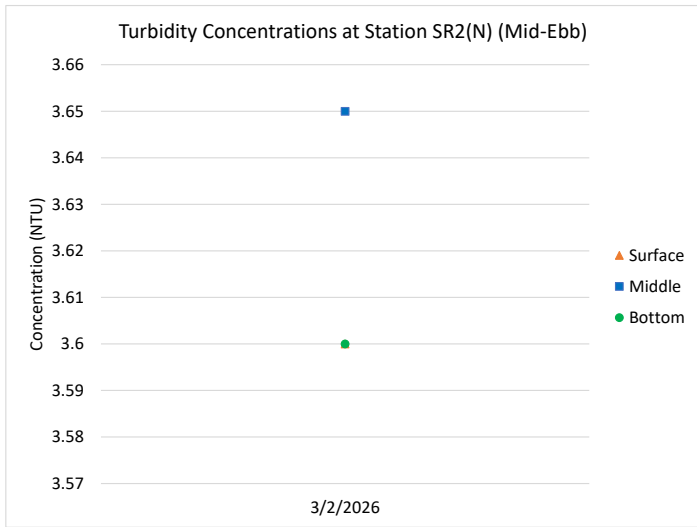
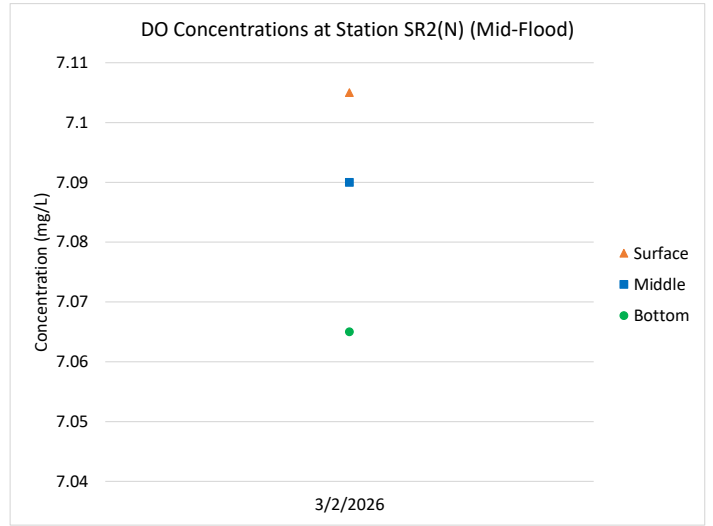
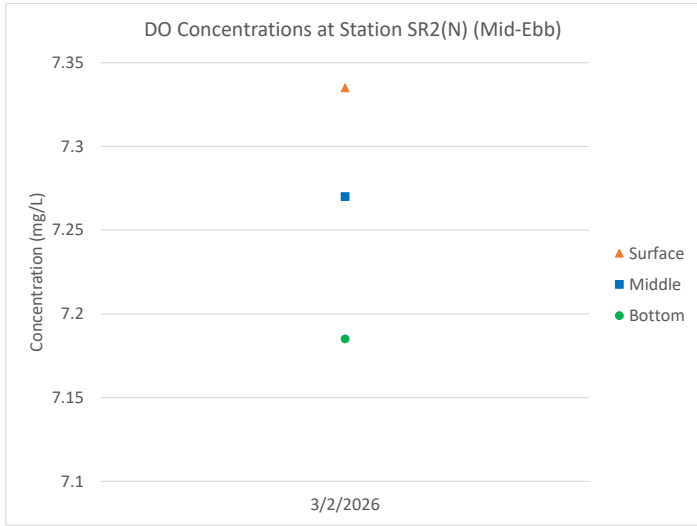
Ms. Lin Wai Yu, Iris
Assistant Manager - Inorganics

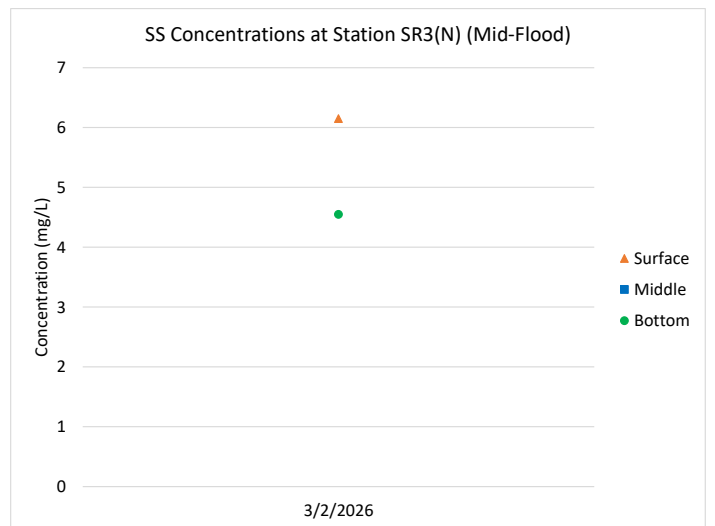
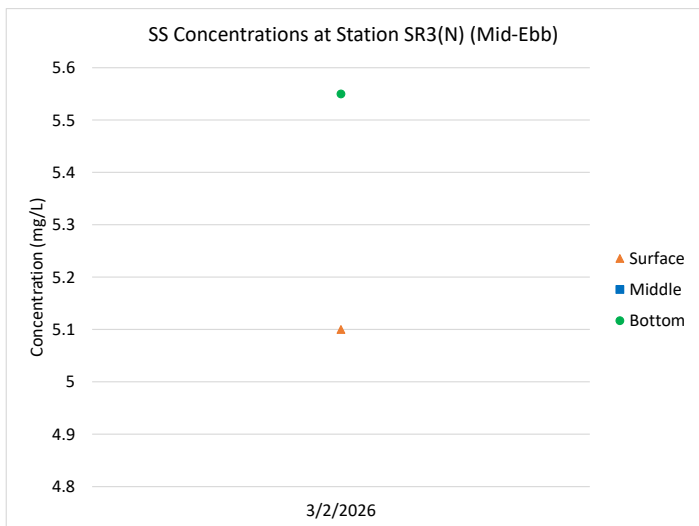
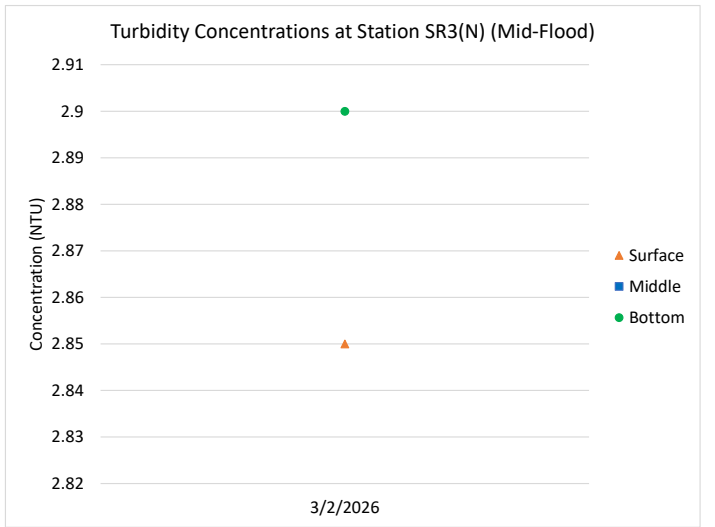
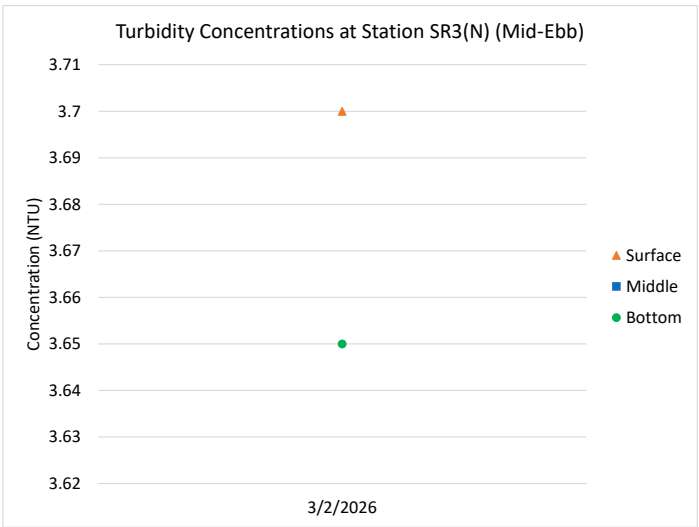
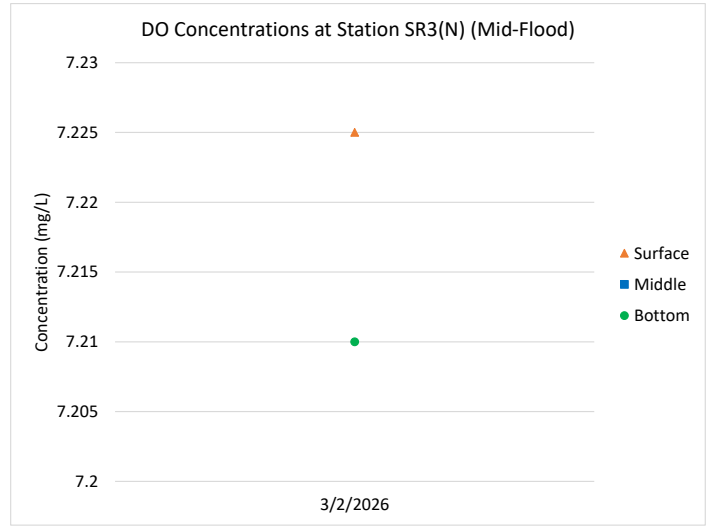
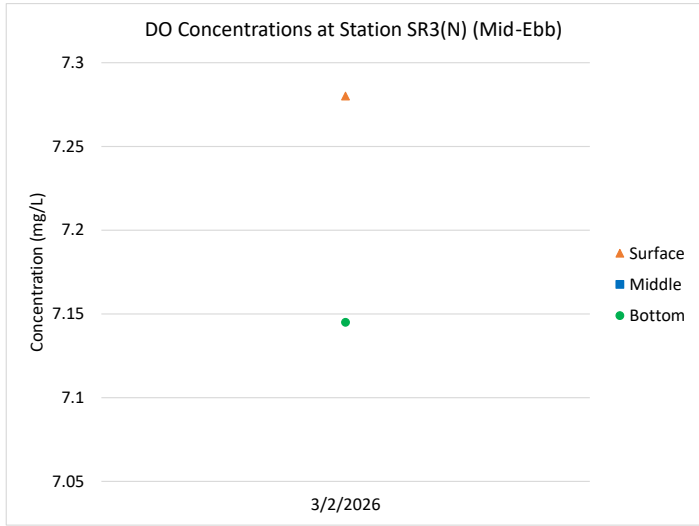
Appendix C

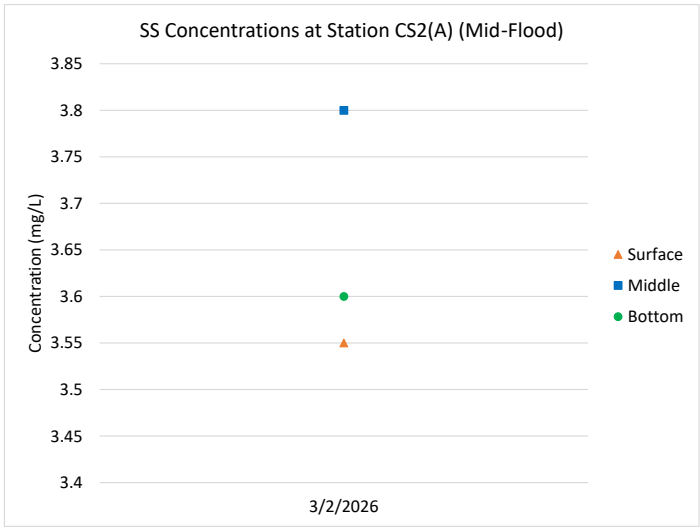
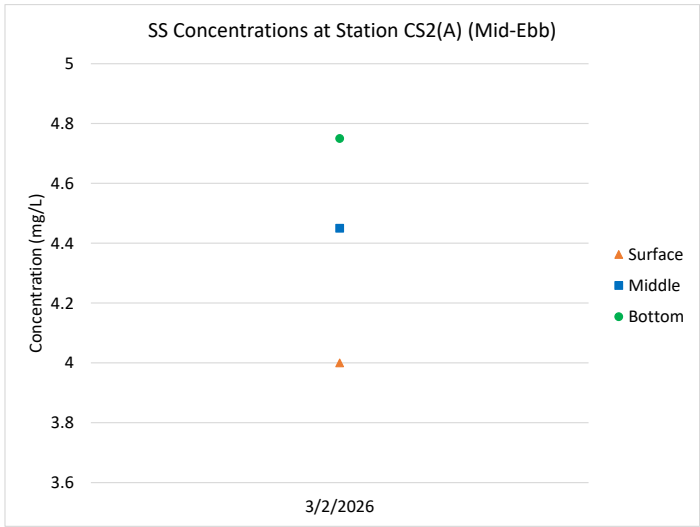
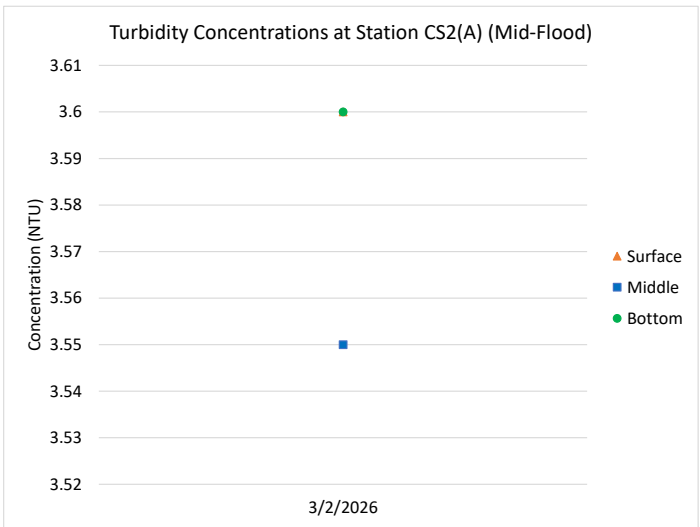
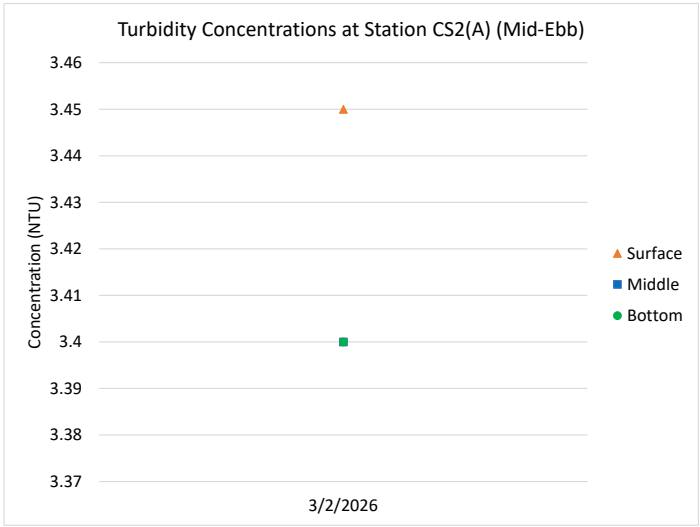
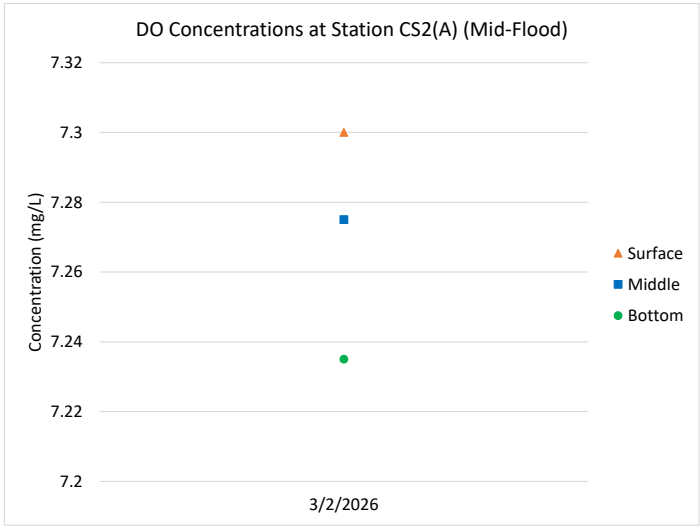
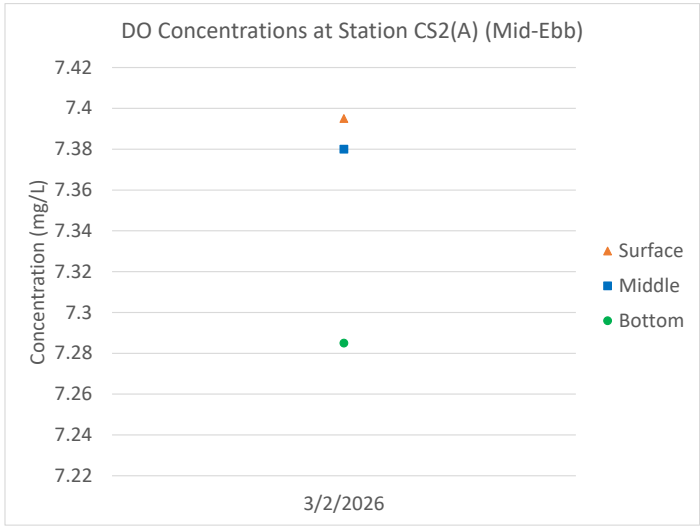
Water Quality Monitoring Data and Graphical Plots

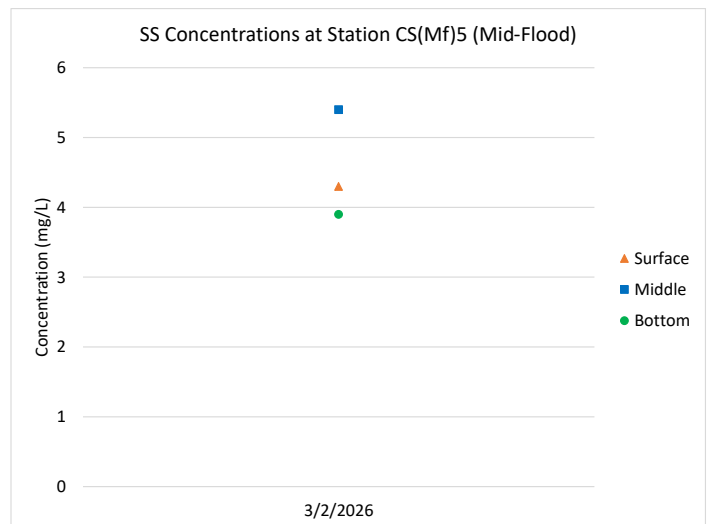
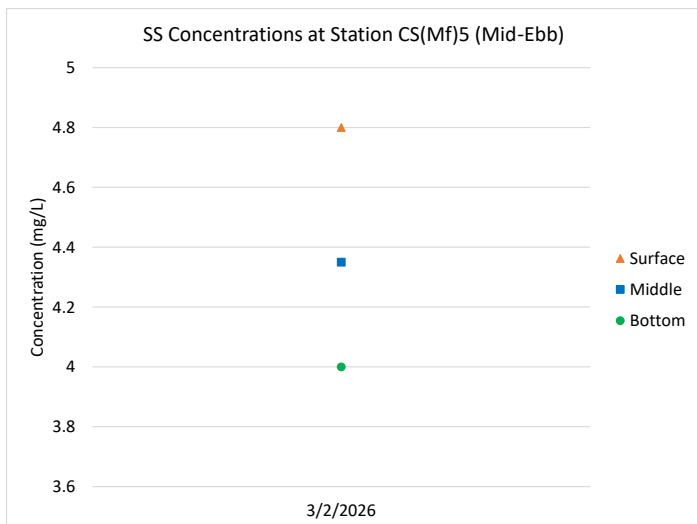
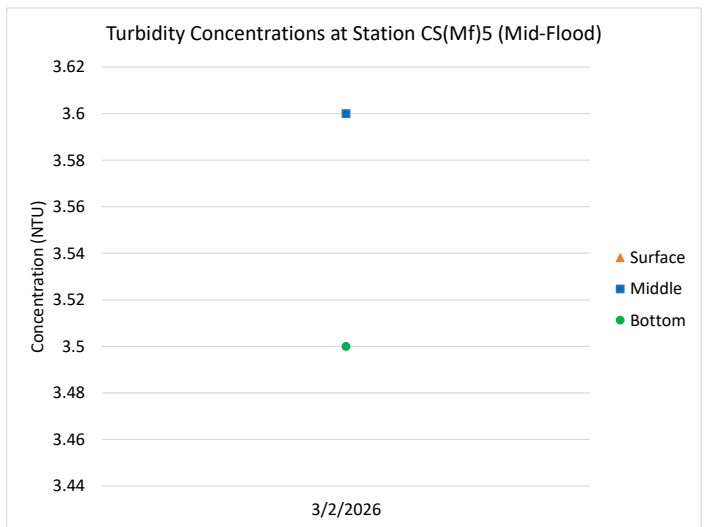
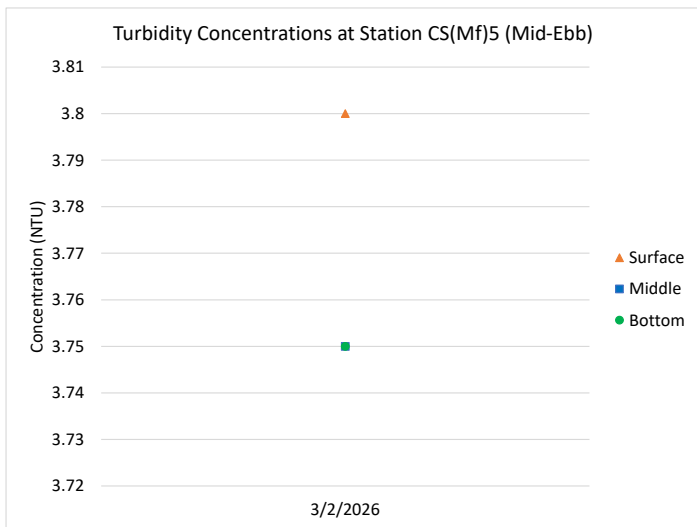
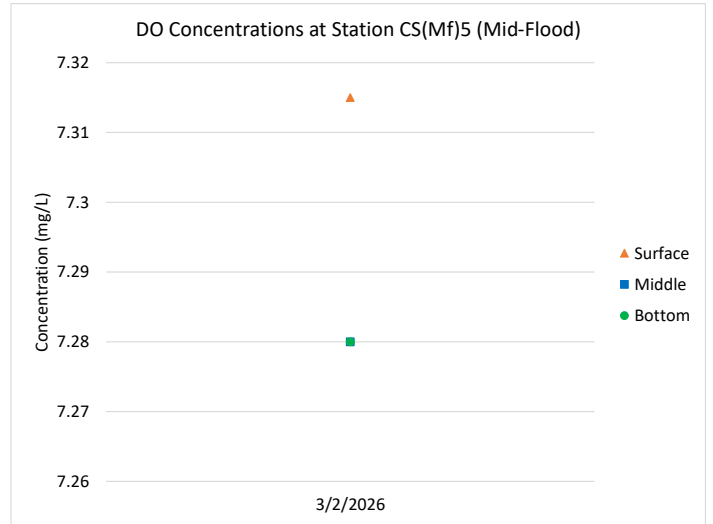
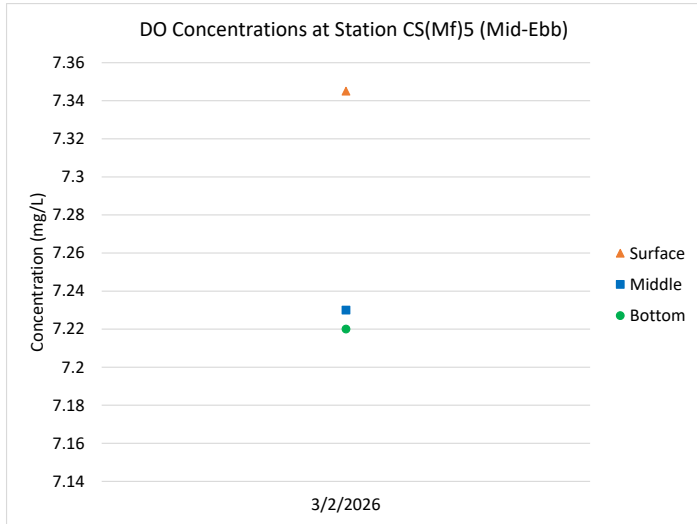
Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	SR2(N)	14:32	1.0	Surface	1	1	19.14	8.12	32.13	96.00	7.27	3.60	4.2
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	SR2(N)	14:33	1.0	Surface	1	2	19.11	8.13	32.28	97.80	7.40	3.60	3.4
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	SR2(N)	14:32	5.9	Middle	2	1	19.06	8.12	32.39	94.40	7.19	3.60	4.4
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	SR2(N)	14:33	5.9	Middle	2	2	19.09	8.12	32.69	97.30	7.35	3.70	3.0
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	SR2(N)	14:32	10.8	Bottom	3	1	18.87	8.13	32.74	93.80	7.16	3.70	4.2
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	SR2(N)	14:32	10.8	Bottom	3	2	18.82	8.11	32.76	95.20	7.21	3.50	3.8
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	SR3(N)	13:46	1.0	Surface	1	1	19.03	8.11	32.06	95.30	7.26	3.70	4.1
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	SR3(N)	13:46	1.0	Surface	1	2	19.06	8.12	32.13	96.00	7.30	3.70	6.1
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	SR3(N)	13:45	2.0	Bottom	3	1	18.86	8.11	32.21	93.40	7.13	3.70	3.3
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	SR3(N)	13:46	2.0	Bottom	3	2	18.87	8.12	32.30	93.80	7.16	3.60	7.8
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	CS2(A)	13:19	1.0	Surface	1	1	19.18	8.10	32.00	97.70	7.39	3.50	4.1
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	CS2(A)	13:20	1.0	Surface	1	2	19.19	8.11	32.10	97.90	7.40	3.40	3.9
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	CS2(A)	13:18	3.6	Middle	2	1	19.10	8.10	32.60	97.50	7.37	3.30	4.0
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	CS2(A)	13:20	3.6	Middle	2	2	19.07	8.10	32.14	97.80	7.39	3.50	4.9
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	CS2(A)	13:18	6.2	Bottom	3	1	19.06	8.11	32.64	95.60	7.28	3.30	4.5
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	CS2(A)	13:19	6.2	Bottom	3	2	18.99	8.10	32.38	95.70	7.29	3.50	5.0
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	CS(Mf)5	12:49	1.0	Surface	1	1	19.37	8.09	31.99	96.00	7.32	3.80	5.6
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	CS(Mf)5	12:50	1.0	Surface	1	2	19.39	8.10	32.01	96.50	7.37	3.80	4.0
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	CS(Mf)5	12:48	3.3	Middle	2	1	19.31	8.08	32.03	95.00	7.24	3.70	4.7
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	CS(Mf)5	12:50	3.3	Middle	2	2	19.20	8.10	32.59	94.80	7.22	3.80	4.0
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	CS(Mf)5	12:48	5.5	Bottom	3	1	19.28	8.09	32.36	95.00	7.23	3.70	4.1
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Ebb	Cloudy	CS(Mf)5	12:49	5.5	Bottom	3	2	18.92	8.08	32.64	94.70	7.21	3.80	3.9
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	SR2(N)	8:36	1.0	Surface	1	1	19.35	8.09	32.00	93.50	7.11	3.80	4.3
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	SR2(N)	8:37	1.0	Surface	1	2	19.31	8.09	31.95	93.30	7.10	3.80	3.6
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	SR2(N)	8:36	6.0	Middle	2	1	19.07	8.08	32.61	92.90	7.08	3.80	4.1
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	SR2(N)	8:37	6.0	Middle	2	2	19.18	8.07	32.65	93.20	7.10	3.70	4.3
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	SR2(N)	8:35	11.0	Bottom	3	1	18.79	8.08	32.62	92.50	7.05	3.80	3.7
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	SR2(N)	8:37	11.0	Bottom	3	2	19.08	8.07	33.35	92.90	7.08	3.70	4.5
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	SR3(N)	9:31	1.0	Surface	1	1	19.29	8.06	31.98	94.90	7.23	2.80	7.3
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	SR3(N)	9:31	1.0	Surface	1	2	19.18	8.06	31.99	94.80	7.22	2.90	5.0
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	SR3(N)	9:31	2.2	Bottom	3	1	19.11	8.05	32.18	94.80	7.22	2.90	5.1
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	SR3(N)	9:31	2.2	Bottom	3	2	19.12	8.05	32.24	94.60	7.20	2.90	4.0
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	CS2(A)	9:52	1.0	Surface	1	1	19.28	8.07	32.08	95.40	7.30	3.60	3.6
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	CS2(A)	9:53	1.0	Surface	1	2	19.28	8.09	32.05	95.40	7.30	3.60	3.5
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	CS2(A)	9:51	3.7	Middle	2	1	19.17	8.07	32.31	95.30	7.29	3.50	3.7
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	CS2(A)	9:53	3.7	Middle	2	2	19.21	8.09	32.32	94.80	7.26	3.60	3.9
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	CS2(A)	9:51	6.4	Bottom	3	1	19.17	8.07	32.36	95.00	7.27	3.60	3.6
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	CS2(A)	9:52	6.4	Bottom	3	2	18.99	8.07	32.35	94.00	7.20	3.60	3.6
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	CS(Mf)5	10:25	1.0	Surface	1	1	19.26	8.10	32.00	95.90	7.31	3.60	3.9
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	CS(Mf)5	10:26	1.0	Surface	1	2	19.32	8.11	32.06	96.00	7.32	3.60	4.7
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	CS(Mf)5	10:24	3.2	Middle	2	1	19.25	8.09	32.27	94.80	7.26	3.60	5.8
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	CS(Mf)5	10:25	3.2	Middle	2	2	19.31	8.10	32.14	95.80	7.30	3.60	5.0
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	CS(Mf)5	10:23	5.4	Bottom	3	1	19.19	8.10	32.39	95.00	7.27	3.50	3.9
WQM	HMW 6/2025 (EP)	2026-02-03	Mid-Flood	Cloudy	CS(Mf)5	10:25	5.4	Bottom	3	2	19.25	8.11	32.35	95.60	7.29	3.50	3.9









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