CONTRACT NO: SD 15/2022

OUTLYING ISLAND SEWERAGE STAGE 2 – SOUTH LANTAU SEWAGE WORKS – ENVIRONMENTAL TEAM SERVICES (2023 – 2024)

UNDER ENVIRONMENTAL PERMIT NO. EP-538/2017

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

NOVEMBER 2024 REVISION 2

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61

Derek Lo

Environmental Team Leader

DATE:

12 December 2024



Our Ref: 7076811/L31571/AG/KL/TK/KCL/rw

12 December 2024

Drainage Services Department Sewage Services Branch Consultants Management Division Group 4 42/F Revenue Tower 5 Gloucester Road Wan Chai, Hong Kong

Attn: Mr. CHAN Ka Keung

By Email and Post (kkchan06@dsd.gov.hk)

Dear Sir

Contract No. SD 7/2020 Independent Environmental Checker ("IEC") for Environmental Monitoring Work for South Lantau Sewerage Works Verification of Monthly EM&A Report (November 2024)

With reference to the Monthly EM&A Report (November 2024) Revision 2 dated and certified by the ET Leader on 12 December 2024, please note that we have no adverse comments on the captioned and we hereby verify the captioned in accordance with Condition 3.4 of the Environmental Permit No. EP-538/2017.

Should you have questions please do not hesitate to contact the undersigned at tel. 3995-8140 or by email to kitty.lee@smec.com

Yours faithfully

Whil

Kitty LEE

Independent Environmental Checker

CC Binnies - Mr. Kevin CHAN



by email





IARLE	: OF CONTENTS	
1	Introduction	7
1.1	Scope of the Report	7
1.2	Structure of the Report	7
2	Basic project Information and Environmental Status	9
2.1	Basic Project Information	9
2.2	Construction Programme	9
2.3	Works undertaken during the month	10
2.4	Drawing showing the project area, environmental sensitive receivers a monitoring locations	ınd
3	Implementation Status	10
3.1	Advice on the implementation status of environmental protection and	
	pollution control/mitigation measures	10
3.2	Environmental Mitigation Measures	11
3.3	Environmental monitoring requirements and contractual requirements	11
3.4	Site Inspection and Audit Reports	12
4	Monitoring Results	14
4.1	Noise Monitoring	14
4.2	Water Quality Monitoring	17
4.3	Ecology	22
4.4	Waste Management	23
5	Complaints, Notification of Summons and Prosecution	25
6	Future Key Issues	27
7	Conclusion	28
7.1	Noise Monitoring	28
7.2	Water Quality Monitoring	28
7.3	Ecological Impact Monitoring	29
7.4	Review of the Reasons for and the Implications of Non-compliance	29
7.5	Summary of action taken in the event of and follow-up on non-complia	nce

LIST OF TABLES

Table 3.1	Summary of submission status under EP-538/2017
Table 3.2	Summary of the current status on licences and/or permits on environmental protection pertinent to the Project
Table 3.3	Summary of Environmental Inspections
Table 4.1	Noise Monitoring Equipment
Table 4.2	Noise Monitoring Station
Table 4.3	Water Quality Monitoring Equipment
Table 4.4	Marine Water Quality Stations for Water Quality Monitoring
Table 4.5	Action and Limit Levels of Water Quality
Table 4.6	Summary of Marine Water Quality Exceedances
Table 4.7	Summary of Quantities of Waste Material
Table 5.1	Cumulative Statistics on Complaints
Table 5.2	Summary of Complaints
Table 5.3	Cumulative Statistics on Successful Prosecutions
Table 6.1	Construction Activities and Recommended Mitigation Measures in Coming Reporting 3 Months



LIST OF FIGURES

Figure 2.1	Master Layout Plan
Figure 2.2	Contract Layout Plan
Figure 2.3	Locations of Noise Monitoring Station
Figure 2.4	Locations of Water Quality Monitoring Stations
Figure 2.5	Mark up Figure 5.4i extracted from approved EIA Report (AEIAR-210/2017)
Figure 2.6	Location Plan for Temporary Holding Nursery
Figure 2.7	Typical Details of Proposed Silt Curtain

LIST OF APPENDICES

Appendix 4.1	Copies of Calibration Certificates
Appendix 4.2	Impact Monitoring Schedule for Reporting Month and Next Month
Appendix 4.3	Noise Monitoring Results and Graphical Presentations
Appendix 4.4	Marine Water Quality Monitoring Results and Graphical Presentations
Appendix 4.5	Monthly Summary Waste Flow Table
Appendix 6.1	3 Months Rolling Programme

EXECUTIVE SUMMARY

- i. This is the Monthly Environmental Monitoring and Audit (EM&A) Report November 2024 for the Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works under Environmental Permit No. EP-538/2017 (Hereafter as "the Project"). The construction works of the Project was commenced on 3 November 2021 and the tentative completion date is Q1 2026. This Monthly EM&A Report presents the environmental monitoring findings and information recorded during the period of 1 to 30 November 2024. The cut-off date of reporting is at the end of each reporting month.
- ii. In the reporting period, the principal work activities undertaken are as follows:
- Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road,
 Chi Ma Wan Road
- Trenchless drilling works (Chi Ma Wan Road)
- Excavation and site formation at San Shek Wan Sewage Treatment Works (SSWSTW)
- Excavation and Excavation and Lateral Support (ELS) work at Pui O Sewage Pumping Station (POSPS)
- Superstructure Reinforced Concrete (RC) works at SSWSTW
- Retaining wall construction at SSWSTW
- Dredging and diffuser construction at SSWSTW
- Electrical and Mechanical (E&M) Installation at POSPS

Exceedances of Action/Limit Levels

Noise Monitoring

- iii. Noise monitoring was conducted at eight (8) noise monitoring stations (*N12a, N12b, N13, N14, N15b, N16a, N16b and N17*) once per week in the reporting period.
- iv. School examination was taken place at N17 Bui O Public School from 6 to 8 November 2024 and 11 to 15 November 2024 in the reporting period, the limit level of noise monitoring station N17-Bui O Public School was adjusted accordingly to 65dB(A) during the period.
- v. No Action/Limit Level exceedances were recorded in this reporting period.

Water Quality Monitoring

- vi. Water quality monitoring (WQM) had been commenced on 12 April 2022 the designated monitoring stations three days per week with respect to marine-based construction works commenced on 19 April 2022. HDD casing works commenced on 30 May 2022.
- vii. Water quality monitoring during mid-flood on 13 November 2024 was cancelled due to Strong Wind Signal, No. 3 was in force during the scheduled sampling time slots. No substitution would be arranged for such cancellation since it is impossible to maintain the monitoring



frequency as three times a week for the event of marine water quality monitoring cancellation in between time with respect to the fact that not less than 36 hours interval shall be followed for two monitoring days as required by the EM&A Manual Clause 5.1.6 (b) for the project.

- viii. According to the Contractor's construction programme received via email on 26 November 2024, the marine works will be officially commenced on 27 November 2024.
- ix. In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, action level exceedances of Depth-averaged on suspended solids (SS) were recorded at the following stations and time slots,
 - SR9 and SR10 during flood tide from 17:23 to 17:37 on 1 Nov 2024;
 - SR4, SR5 and SR6 during ebb tide from 7:05 to 7:28 on 8 Nov 2024
 - > SR6 and SR10 during flood tide from 16:01 to 16:30 on 8 Nov 2024;
 - SR9 during flood tide from 15:02 to 15:05 on 11 Nov 2024;
 - > SR9 during flood tide from 16:36 to 16:51 on 15 Nov 2024;
 - SR6 during ebb tide from 13:49 to 13:50 on 18 Nov 2024;
 - SR4, SR5, SR6, SR10, SR12 and SR15 during ebb tide from 14:10 to 15:18 on 20 Nov 2024; and
 - > SR4, SR5, SR6 and SR15 during flood tide from 14:57 to 15:28 and SR9, SE10 and SR12 during ebb tide from 07:52 to 08:10 on 22 Nov 2024
- x. As the suspended solids (SS) result is determined by laboratory analysis that require 7 working days, it is not possible to increase the monitoring frequency to daily until no exceedance of Action Level. If such exceedances continuous during marine works commencement, ET will check with contractor the implementation of the mitigation measures and daily WQM monitoring will be considered.
- xi. As no marine work were conducted before 27 November 2024, no sign of pollution was observed during site inspection or marine water samples collection, the SS exceedance in recently should be caused by Typhoon YINXING (8-10 Nov 2024), TORAJI (11-15 Nov 2024) & MAN-YI (18-19 Nov 2024) and northeast monsoon coincides with the highest astronomical tides. It is considered that the exceedance were not related to Project works.

Ecological Impact Monitoring

- xii. Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.
- xiii. As per latest version of PTP, four tree found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW which are considered to be the plant species with



- conservative importance for temporarily transplanted to the nursery at Kam Tin and eventually be transplanted to Pui O Pumping Station.
- xiv. The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- xv. The extent of the work site boundaries was checked by the ET during the weekly site audit.

Complaint log

xvi. No environmental complaint regarding the construction works was recorded in the reporting period.

Notifications of Any Summons and Successful Prosecutions

xvii. No environmental notification of any summons and successful prosecution regarding the construction works was recorded in the reporting period.

Reporting Changes

xviii. There are no particular reporting changes.

Future Key Issues

- xix. In coming reporting 3 months, the scheduled construction activities are listed as follows:
- Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road
- Excavation and site formation at SSWSTW
- Trenchless drilling works (Chi Ma Wan Road)
- Excavation and ELS work at POSPS
- Superstructure RC works at SSWSTW
- Retaining wall construction at SSWSTW
- Superstructure RC Works at SSWSTW
- Dredging and diffuser construction at SSWSTW
- E&M Installation at POSPS
- xx. Key construction activities for the next three months with the recommended mitigation measures to be implemented are presented as follows:

Key Construction Works	Recommended Mitigation Measures		
 Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road Dredging and diffuser construction at SSWSTW Site formation works Trenchless drilling works Excavation works ELS works Superstructure RC Works 	 Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan; Dust control during dust generating works; Silt curtain should be maintained in good condition prior to and during dredging and related marine works; Adopt surface drainage and sediment control facilities for sewage installation in village and public roads; 		

Key Construction Works	Recommended Mitigation Measures		
Retaining wall construction at SSWSTW E&M Installation at POSPS	 Adopt temporary drainage and sediment control facilities on Site; Vehicle wheel-washing and body washing facilities should be provided at the site entrance; Regular water spraying on excavation works for dust control; and Proper waste handling, recycling and storage. 		

Introduction

1.1 Scope of the Report

- 1.1.1. Lam Environmental Services Limited (LES) has been appointed to work as the Environmental Team (ET) under Environmental Permit (EP) No. EP-538/2017 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for the Outlying Islands Sewerage Stage 2 South Lantau Sewerage Works (Register No.: AEIAR-210/2017).
- 1.1.2. In accordance with Clause 3.4 stated in EP-538/2017, 4 hard copies and 1 electronic copy of Monthly EM&A Report shall be submitted to the Director within 2 weeks after the end of each reporting month.
- 1.1.3. According to Section 12.2 of the Project EM&A Manual, the Monthly EM&A Report should be submitted within 10 working days of the end of each reporting month, with the first report due in the month after construction commences.

1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- Section 2 Basic project Information and *Environmental Status* summarizes project organization and key personnel contact, construction programme and works undertaken for the month. Construction programme, works undertaken during the month with illustrations, drawing showing the project area, environmental sensitive receivers and monitoring locations.
- **Section 3** *Implementation Status* advice on the implementation status of environmental protection and pollution control/mitigation measures, as recommended in the EIA Report and summarised in the updated implementation schedule.
- **Section 4** *Monitoring Results* summarizes the monitoring results obtained in the reporting period, including monitoring methodology, name of laboratory and equipment used and calibration details, parameters monitored, monitoring locations (and depth), monitoring date, frequency, and duration.
- Section 5 Report on Complaints, Notification of Summons and Successful Prosecutions – summarizes:

7

Record of all complaints received (written or verbal) for each media, including locations and nature of complaints investigation, liaison and consultation undertaken, actions and follow-up procedures taken, results and summary;

Record of notifications of summons and successful prosecutions for breaches of the current environmental protection/pollution control legislations, including locations and nature of the breaches, investigation, follow-up actions taken,

results and summary;

Review of the reasons for and the implications of non-compliance, complaints, summons and prosecutions including review of pollution sources and working procedures; and

Description of the actions taken in the event of non-compliance and deficiency reporting and any follow-up procedures related to non-compliance.

Section 6 Future Key Issues – An account of the future key issues as reviewed from the works programme and work method statements.

Section 7 Conclusion

2 Basic project Information and Environmental Status

2.1 Basic Project Information

2.1.1. Drainage Services Department is the overall project controllers for the Project. For the construction phase of the Project, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues. Key personnel and contact particulars are summarized in *Table 2.1:*

Table 2.1 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
Drainage Services Department (DSD)	The Engineer for the Contract	Engineer	Mr. KK Chan	2594 7297	3104 6426
Binnies Hong Kong Limited	Engineer's Representative	Resident Engineer	Mr. Kevin Chan	3529 3003	-
Kwan Lee – Chun	Contractor	Sub Agent	Mr. Daniel Chu	6737 6701	2744 6937
Wo Joint Venture		Environmental Supervisor	Mr. Philip Wong	6908 8920	2744 0307
SMEC Hong Kong	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Ms. Kitty Lee	3995 8140	3422 3631
Lam Environmental Services Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Derek Lo	2882 3939	2882 3331

2.2 Construction Programme

- 2.2.1. The proposed sewerage works will collect the sewage generated from the unsewered areas of Shui Hau, Tong Fuk, Cheung Sha, San Shek Wan, Pui O and Ham Tin in South Lantau (i.e. within the Project Catchment Area) and convey it to a proposed sewage treatment works at San Shek Wan for treatment and disposal into outer bay of Pui O/ Chi Ma Wan via a submarine outfall.
- 2.2.2. The entire Project are divided into three contracts. Contract No. DC/2020/20 (the Contract) would have the following implementations as demonstrated in *Figure 2.1*.
- 2.2.3. The major components of the Contract under Environmental Permit (EP) (EP No. EP-538/2017) comprises: (i) construction of secondary sewage treatment works (STW) at San Shek Wan in South Lantau; (ii) construction of sewage pumping station (SPS) at Pui O, San Shek Wan, Cheung Sha and Cheung Fu Street; (iii) construction of about 1.4 kilometres (km) of submarine



outfall with a diameter of 350 millimetres (mm) for the disposal of treated effluent from the STW at San Shek Wan; (iv) construction of about 10.1 km of gravity sewers with diameters ranging from 150 mm to 375 mm along South Lantau Road and Chi Ma Wan road and at Pui O; and (v) construction of about 3.1 km twin rising mains with a diameter of 200 mm to 250 mm along South Lantau Road and Chi Ma Wan Road.

2.2.4. The performance of the environmental management system of the reporting period was generally satisfied. Mitigation measures according to the environmental mitigation implementation schedule and the EIA were generally implemented by the Contractor. Hence, the EM&A programme was considered effective and shall be maintained.

2.3 Works undertaken during the month

- 2.3.1. In the reporting month, the principal work activities conducted are as follow:
 - Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road,
 Chi Ma Wan Road
 - Trenchless drilling works (Chi Ma Wan Road)
 - Excavation and site formation at San Shek Wan Sewage Treatment Works (SSWSTW)
 - Excavation and Excavation and Lateral Support (ELS) work at Pui O Sewage Pumping Station (POSPS)
 - Superstructure Reinforced Concrete (RC) works at SSWSTW
 - Retaining wall construction at SSWSTW
 - Dredging and diffuser construction at SSWSTW
 - Electrical and Mechanical (E&M) Installation at POSPS

The locations of works are shown in <u>Figure 2.2</u>.

- 2.4 Drawing showing the project area, environmental sensitive receivers and monitoring locations
- 2.4.1. Noise and water monitoring location plans with sensitive receivers are shown in <u>Figure 2.3</u> and <u>Figure 2.4</u>.
- 3 Implementation Status
- 3.1 Advice on the implementation status of environmental protection and pollution control/mitigation measures
- 3.1.1. Mitigation measures according to the environmental mitigation implementation schedule in Annex A of EM&A Manual were generally implemented by the Contractor. Hence, the EM&A programme was considered effective and shall be maintained.

3.2 Environmental Mitigation Measures

3.2.1. Environmental mitigation measures mentioned the EIA Report were weekly reviewed and recorded in Weekly Environmental Site Audit Checklist. Also, a summary of the current status on submissions and measures mentioned in Environmental Permit (EP-538/2017) are shown in *Table 3.1*.

Table 3.1 Summary of submission status under EP-538/2017

EP Condition	Submission	Date of Latest Submission to EPD^ / EPD Approval#
Condition 2.10	Waste Management Plan (Rev. 5) (electronic copy)	4 April 2022#
Condition 2.11	Submission of Preservation and/or Transplantation Plan for Plant Species of Conservation Importance (Rev. 23)	9 September 2022#
Condition 2.12	Submission of Compensatory Woodland Planting Plan (Rev. 23)	15 May 2023^
Condition 2.13	Silt Curtain Deployment Plan (Rev. 11)	1 June 2022#
Condition 2.14	Landscape Mitigation Plan	To be confirmed
Condition 2.15	Construction Noise Mitigation Plan (Rev. 20)	4 August 2022#

3.3 Environmental monitoring requirements and contractual requirements

3.3.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.2*.

Table 3.2 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project

Permits and/or Licences	Permit. No. / Account No.	Issued Date	Valid Period & Expiry Date	Status
Notification of Works Under APCO	466408	14 Apr 2021	N/A	Valid
	SSWSTW: WT00039636-2021	30 Dec 2021	30-12-2021 to 31-12-2026	Valid
Wastewater Discharge Licence under Water Pollution Control Ordinance	POPS: WT00039820-2021	31 Dec 2021	31-12-2021 to 31-12-2026	Valid
Control Ordinance	SSWSTW: Gravity Sewer & Raising Main: WT00042613-2022	09 Jan 2023	09-01-2023 to 31-01-2028	Valid
Billing account under Waste Disposal Ordinance	Account No.: 7040411	05 May 2021	N/A	Valid
Registration as a Chemical Waste Producer	0000-931-K3428-01	13 May 2021	N/A	Valid
Construction Noise Permit under Noise Control Ordinance for SSWSTW	GW-RS0658-24	17 July 2024	09-08-2024 to 08-02-2025	Valid
Construction Noise Permit under Noise Control Ordinance for POSPS	GW-RS0856-24	17 Sep 2024	27-09-2024 to 26-03-2025	Valid
Marine Dumping Permit (Dredged Sediment Requiring Type 1 – Open Sea Disposal	EP/MD/25-024	19 Nov 2024	19-11-2024 to 18-05-2025	Valid

Note: Only include those valid or under application; fill in "N/A" for non-applicable item(s).

3.4 Site Inspection and Audit Reports

- 3.4.1. Within this reporting month, weekly environmental site inspections were conducted on 05, 12, 18 and 29 November 2024. IEC attended the SSEMC meeting held on 18 November 2024. Holding nursery visit for transplanted trees on 29 November 2024.
- 3.4.2. No non-compliance was found during the site inspection while reminders on environmental measures were recommended. Results and findings of these inspections in this reporting month are listed below in *Table 3.3*.

Table 3.3 Summary of Environmental Inspections

Inspection Date	Reminder and Recommendations	Close-out Date / Status
5 November 2024	Chi Ma Wan Road Rising Mains — Obs.1: Surface runoff discharged directly to public road, contractor was requested to treat the runoff properly prior to discharge. Obs.2: Breaking tip should be wrapped during operation	Rectified by the Contractor on 7 Nov 2024
12 November 2024	Pui O Sewage Pumping Station (POSPS) — Obs.1: Drip tray should be provided to chemical container Obs.2: Exposed slope should be covered with impervious sheet.	Rectified by the Contractor on 18 Nov 2024
18 November 2024	Pui O Sewage Pumping Station (POSPS) — Obs.1: Gully should be protected properly to avoid surface run off into the public drainage	Rectified by the Contractor on 19 Nov 2024
26 November 2024	Pui O Sewage Pumping Station (POSPS) — Obs.1: Contractor is requested to cover the cement properly by impervious sheeting	Rectified by the Contractor on 27 November 2024

4 Monitoring Results

4.1 Noise Monitoring

MONITORING METHODOLOGY

4.1.1 Monitoring Procedure

- (a) The impact noise monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.
- (b) The monitoring station shall normally be at a point 1m from the exterior of the sensitive receiver's building façade and be at a position 1.2m above the ground.
- (c) Façade measurements were made at the monitoring locations. For free-field measurement, a correction factor of +3 dB (A) would be applied.
- (d) The battery condition was checked to ensure the correct functioning of the meter.
- (e) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
- (f) Frequency weighting: A, Time weighting: Fast, Measurement time set: continuous 5 mins
- (g) Prior and after to the noise measurement, the meter was checked using the acoustic calibrator for 94dB (A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than ±1.0 dB (A), the measurement would be considered invalid and repeat of noise measurement would be required after recalibration or repair of the equipment.
- (h) Noise measurements will be made in accordance with standard acoustical principles and shall not be made in fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

NAME OF LABORATORY AND EQUIPMENT USED AND CALIBRATION DETAILS

4.1.2 Noise monitoring was performed using sound level meter at the designated monitoring locations. The sound level meters shall comply with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator shall be deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in *Table 4.1*.

Table 4.1 Noise Monitoring Equipment

Equipment	Brand and Model	Series Number
Integrated Sound Level Meter	Larson Davis LxT1	0006357
Acoustic Calibrator	Larson Davis CAL200	13128

4.1.3 The calibration certificates of the noise monitoring equipment are attached in *Appendix 4.1*.

4.1.4 Calibration Details

- (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- (b) The sound level meter and calibrator were calibrated at yearly intervals.

PARAMETERS MONITORED

- 4.1.5 The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq(30min) should be used as the monitoring parameter. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 4.1.6 For impact monitoring for construction of village sewers / rising main, noise monitoring should be undertaken on weekly basis. One set of L_{eq(30min)} noise level as six consecutive L_{eq(5min)} between 07:00-19:00 hours on normal weekdays.

MONITORING STATIONS

4.1.7 The noise monitoring stations for the Project are listed and shown in *Table 4.2*, impact noise monitoring was conducted at Eight (8) noise monitoring stations N12a, N12b, N13, N14, N15b, N16a, N16b and N17 once per week in the reporting month.

Table 4.2 Noise Monitoring Station

Monitoring Station ID (1)	Monitoring Location	Measurement Type	Level (in terms of no. of floor)
N01a	Shui Hau Village	Free-Field	G/F
N01c	Shui Hau Village	Free-Field	G/F
N03a	Tong Fuk Village	Free-Field	G/F
N05a	Residences at Cheung Fu Street	Free-Field	G/F
N07	Government Holiday Bungalows	Free-Field	G/F
N08	Cheung Sha Ha Tsuen	Free-Field	G/F
N10	Cheung Sha Sheung Tsuen	Façade	G/F
N11b	San Shek Wan – Ming Garden	Free-Field	G/F
N12a	Lo Uk Tsuen	Free-Field	G/F
N12b	Lo Uk Tsuen	Façade	G/F
N13	Pui O San Wai Tsuen	Façade	G/F
N14	South Lantau Community Centre	Free-Field	G/F
N15b	Pui O Lo Wai Tsuen	Façade	G/F
N16a	Residences at Ham Tin	Free-Field	G/F

Monitoring Station ID (1)	Monitoring Location	Measurement Type	Level (in terms of no. of floor)
N16b	Residences at Ham Tin	Free-Field	G/F
N17	Bui O Public School	Façade	R/F

Remarks (1): Fine adjustment of noise monitoring stations at all locations was proposed as per EP Condition 3.1.

MONITORING DATE, TIME, FREQUENCY AND DURATION

4.1.8 For daytime construction work on normal weekdays, monitoring of L_{eq(30min)} should be carried out at each station at 0700-1900 hours on normal weekdays at a frequency of once a week. Impact monitoring schedule can be referred to <u>Appendix 4.2</u>.

NOISE MONITORING RESULTS

- 4.1.9 Noise monitoring results measured in this reporting period are reviewed and summarized.
 Details of noise monitoring results and graphical presentation can be referred in <u>Appendix 4.3</u>.
- 4.1.10 School examination was taken place at N17 Bui O Public School from 6 to 8 November 2024 and 11 to 15 November 2024 in the reporting period, the limit level of noise monitoring station N17-Bui O Public School was adjusted accordingly to 65dB(A) during the period.
- 4.1.11 No action or limit level exceedance was recorded in construction noise level in this reporting period.

4.2 Water Quality Monitoring

MONITORING METHODOLOGY

4.2.1 Monitoring Procedure

- (a) The condition near the monitoring stations shall be observed and recorded on the data log sheet.
- (b) Check of sensors and electrodes with certified standard solutions before each use.
- (c) Wet bulb calibration for a DO meter should be carried out before measurement.
- (d) Water depth should be recorded by detector before sampling.
- (e) Sample would be taken using bucket sampler at surface level.
- (f) Transfer the sampled water carefully into cleaned water bottles (2x 1000ml) provided by the laboratory at the spot after the collection of the water sample for the subsequent laboratory Suspended Solid testing.
- (g) Transfer the sampled water from the bucket sampler to the rinsed water container for in-situ measurement (In case of the in-situ measurement cannot be carried at spot due to safety and adverse weather condition, sampled water from the bucket sampler will be transfer to cleaned water bottles provided by laboratory. Then, In-situ measurement will be conducted at a safe location which sampled water inside cleaned water bottle will be transfer to the rinsed water container for in-situ measurement) In-situ measurement shall be measured in duplicate.
- (h) Parameters including Water Temperature (°C), pH (units), Salinity (ppt), DO (mg/L), DO saturation (%) will be measured by the Multifunctional Meter and Turbidity (NTU) will be measured by turbid meter. (Water Temperature and Salinity will be measured as reference parameters)
- (i) Record the result on the data log sheet and record any special finding during / after in-situ measurement.
- (j) The water sample bottles will be stored in a cool box (at cooled to 4°C without being frozen), which shall be delivered to HOKLAS laboratory (ALS Technichem (HK) Pty Ltd) for further testing to determine the level of SS.

NAME OF LABORATORY AND EQUIPMENT USED AND CALIBRATION DETAILS

LABORATORY MEASUREMENT / ANALYSIS

4.2.2 Analysis of suspended solids will be carried out in a HOKLAS accredited laboratory, which is ALS Technichem (HK) Pty Ltd.

EQUIPMENT USED

Dissolved Oxygen, pH And Temperature Measuring Equipment

4.2.3 Multifunctional Meter and Turbid Meter are used at each designated monitoring station. They are capable of measuring:

- (a) a dissolved oxygen level in the range of 0-20mg/L and 0-200% saturation (Detection Limit: 0.1mg/L)
- (b) a temperature of 0-45 degree Celsius (Detection Limit: 0.1 degree Celsius)
- (c) turbidity level between 0-1000NTU (Detection Limit: 0.1NTU)
- (d) salinity in the range of 0-40ppt (Detection Limit: 0.1ppt)
- (e) pH value in range of 0.0 14.0 (Detection Limit: 0.1units)

Other monitoring equipment namely water depth meter, water current meter, dGPS positioning device, water sampler listed below were also deployed,

- (a) Water depth meter (Range: 0.6 -100m, Resolution: 0.1m)
- (b) Water current meter (Range: 0-360°, Detection Limit: 1mm/s)
- (c) dGPS positioning device (Resolution: Horizontal: 0.25m; Vertical: 0.50 m)
- (d) Water sampler (Horizontal discrete type, Capacity: 2.2L)

Sampler Container and Storage

4.2.4 A water sampler, Water samples for suspended solids measurement should be collected in high-density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. as soon as possible after collection for analysis.

Water Depth Detector

4.2.5 A portable, battery-operated echo sounder shall be used for the determination of water depth at each designated monitoring station. This unit can either be handheld or affixed to the bottom of the workboat, if the same vessel is to be used throughout the monitoring programme.

CALIBRATION DETAILS

- 4.2.6 Maintenance and Calibration
 - (a) The responses of sensors and electrodes of the water quality monitoring equipment were cleaned and checked at regular intervals.
 - (b) DO meter (Multifunctional Meter) and turbid meter was certified by a laboratory accredited under HOKLAS or any other international accreditation scheme, and subsequently re-calibrated at three monthly intervals.
- 4.2.7 Brand and model of the equipment are given in *Table 4.3*.

Table 4.3 Water Quality Monitoring Equipment

Equipment	Brand and model	Series Number
Multifunctional Meter	YSI Professional Plus	17G100383

18 EP-538/2017



Turbid meter WGZ-3B 2209074

Calibration certificates of the water quality monitoring equipment are attached in **Appendix 4.1**.

PARAMETERS MONITORED

4.2.8 In construction phase, the levels of dissolved oxygen (DO), temperature, turbidity and salinity should be measured in situ while suspended solids (SS) is determined by laboratory analysis.

MONITORING STATIONS

4.2.9 Water quality monitoring involves 9 monitoring stations. The locations of water quality monitoring station are shown in *Table 4.4*.

Table 4.4 Marine Water Quality Stations for Water Quality Monitoring

Station	Description	Easting	Northing
CE	Upstream control station at ebb tide	810838	807538
CF	Upstream control station at flood tide	815886	808081
SR4 (1)	Ecological Sensitive Receiver (Coral	814938	810975
OIX4 · /	Communities) at Pui O Wan		
SR5	Ecological Sensitive Receiver (Coral	814326	810540
ONO	Communities) at Pui O Wan		
SR6	Gazetted Bathing Beach at Lower Cheung	810553	810475
ONO	Sha		
SR9 (1)	Ecological Important Stream at Tong Fuk	811325	809787
SR10	Secondary Contact Recreational Zones at	810561	809494
31(10	South Lantau		
SR12 (1)	Proposed Special Site of Scientific Interest	810359	808989
SK12 (7	(SSSI) at Shui Hau Wan		
SR15	Gazetted Bathing Beach at Pui O and	816037	810722
SICIO	Ecologically Important Stream at Pui O		

Remarks (1): Fine adjustment of water quality monitoring stations at SR4, SR9 and SR12 was proposed as per EP Condition 3.1, and baseline monitoring was conducted at corresponding fine adjusted locations.

MONITORING DATE, TIME, FREQUENCY AND DURATION

- 4.2.10 Water quality monitoring had been commenced on 12 April 2022 the designated monitoring stations three days per week with respect to marine-based construction works commenced on 19 April 2022. HDD casing works commenced on 30 May 2022.
- 4.2.11 To support water quality monitoring, the silt curtain deployment plan has minor updates to include an additional brand of geosynthetic material as alternative for selection and adopt underwater robot for inspecting condition of silt curtain.
- 4.2.12 For the upcoming marine works (stage 3 and stage 4), new silt curtain extension to be applied at diffuser and emergency bypass constructions has been proposed and supplemented in the

revised silt curtain deployment plan. Typical details of proposed silt curtain are shown in *Figure* **2.7**.

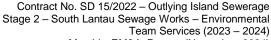
- 4.2.13 The levels of dissolved oxygen (DO), temperature, turbidity and salinity were measured in situ while suspended solids (SS) is determined by laboratory analysis at all the monitoring stations in *Table 4.4* three times a week. Impact monitoring schedule can be referred to *Appendix 4.2*.
- 4.2.14 In association with the water quality parameters, other relevant data shall also be recorded, such as monitoring location / position, time, water temperature, DO saturation, weather conditions, and any special phenomena underway near the monitoring station.
- 4.2.15 Impact Monitoring shall be carried out three days per week, at mid-flood and mid-ebb tides (within ± 1.75 hour of the predicted time). The interval between two sets of monitoring shall not be less than 36 hours. The monitoring period should avoid concurrent marine project in the vicinity.
- 4.2.16 The sampling frequency of at least three days per week should be undertaken. Upon completion of the construction works, the monitoring exercise at the designated monitoring locations should be continued for four weeks in the same manner as the impact monitoring. In case exceedance of Action/Limit Level is recorded, the frequency shall be increased as per the Event and Action Plan.
- 4.2.17 To ensure the robustness of in-situ measurement, parameters shall be measured in duplicate. In case the difference between duplicates is larger than 25%, a third set of measurement shall be carried out.

MONITORING RESULTS

- 4.2.18 Marine water quality monitoring results measured in this reporting period are reviewed and summarized. Details of marine water quality monitoring results and graphical presentation can be referred in <u>Appendix 4.4</u>
- 4.2.19 Water quality monitoring is evaluated against Action and Limit Levels. The derived Action and Limit Level proposed in Baseline Monitoring Report Rev. 9.2 was agreed by EPD on 2 September 2022. Action and Limit Levels of marine water quality monitoring have been set with reference to the derived criteria as shown in *Table 4.5* below for reference.

Table 4.5 Action and Limit Levels of Water Quality

Parameters	Action Level	Limit Level					
Construction Phase Mari	Construction Phase Marine Water Monitoring - derived criteria						
DO in mg/L ^B	Surface and Middle: 5.8 mg/L	Surface and Middle: 4 mg/L					
DO III IIIg/L -	Bottom: 5.9 mg/L	Bottom: 2 mg/L					
	14.4 NTU <u>and</u>	23.5 NTU <u>and</u>					
Turbidity in NTU	20% exceedance of value at any impact	30% exceedance of value at any impact					
(Depth-averaged A) ^C	station compared with corresponding	station compared with corresponding data					
	data from control station D	from control station D					
SS in mg/L	13.1 mg/L <u>and</u>	30.4 mg/L <u>and</u>					



Monthly EM&A Report (November 2024)

Parameters	Action Level	Limit Level
(Depth-averaged A) C	20% exceedance of value at any impact	30% exceedance of value at any impact
	station compared with corresponding	station compared with corresponding data
	data from control station D	from control station D

Notes (with proposed amendments in AL/LL in underlined text):

- A. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- B. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- C. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- D. Action Level and Limit Level with 95%-ile / 99%-ile derived from baseline data "and" 20% / 30% exceedance of control station proposed in Baseline Monitoring Report.
- 4.2.20 Number of exceedances recorded during the reporting month are summarized in *Table 4.6*.

Table 4.6 Summary of Marine Water Quality Exceedances

	Parameter	DO (S&M)	DO (B	ottom)	Turl	oidity	S	SS		edance ount
Station	Level exceeded	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood
SR4	Action	/	/	/	/	/	/	2	/	2	0
3114		, , , , , , , , , , , , , , , , , , ,	<i>'</i> ,	,	,	,	,		,		
	Limit	/	/	/	/	/	/	/	/	0	0
SR5	Action	/	/	/	/	/	/	2	1	2	1
	Limit	/	/	/	/	/	/	/	/	0	0
SR6	Action	/	/	/	/	/	/	3	2	3	2
	Limit	/	/	/	/	/	/	/	/	0	0
SR9	Action	/	/	/	/	/	/	1	3	1	3
	Limit	/	/	/	/	/	/	/	/	0	0
SR10	Action	/	/	/	/	/	/	2	3	2	3
	Limit	/	/	/	/	/	/	/	/	0	0
SR12	Action	/	/	/	/	/	/	2	/	2	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR15	Action	/	/	/	/	/	/	1	1	1	1
	Limit	/	/	/	/	/	/	/	/	0	0
Total	Action	0	0	0	0	0	0	13	10	:	23
	Limit	0	0	0	0	0	0	0	0		0

- 4.2.21 According to the Contractor's construction programme and confirmed with Engineer Representative, there is no potential marine work until further notice. As such, pursuant to Condition 3.1 of the Environmental Permit No. EP-538/2017, proposal of temporary suspension of impact marine water quality monitoring was submitted to EPD for approval on 12 July 2024. This proposal was reviewed and verified by the Independent Environmental Checker (IEC) on 12 July 2024. The proposal was approved by EPD on 27 August 2024, thus, impact marine water quality monitoring had been temporarily suspended starting from 28 August 2024 and resumed on 7 October 2024.
- 4.2.22 Water quality monitoring during mid-flood on 13 November 2024 was cancelled due to Strong Wind Signal, No. 3 was in force during the scheduled sampling time slots. No substitution would be arranged for such cancellation since it is impossible to maintain the monitoring frequency as three times a week for the event of marine water quality monitoring cancellation in between time with respect to the fact that not less than 36 hours interval shall be followed for two monitoring days as required by the EM&A Manual Clause 5.1.6 (b) for the project.
- 4.2.23 According to the Contractor's construction programme received via email on 26 November 2024, the marine works will be officially commenced on 27 November 2024.



- 4.2.24 In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, action level exceedances of Depth-averaged on suspended solids (SS) were recorded at the following stations and time slots,
 - SR9 and SR10 during flood tide from 17:23 to 17:37 on 1 Nov 2024;
 - > SR4, SR5 and SR6 during ebb tide from 7:05 to 7:28 on 8 Nov 2024
 - SR6 and SR10 during flood tide from 16:01 to 16:30 on 8 Nov 2024;
 - SR9 during flood tide from 15:02 to 15:05 on 11 Nov 2024;
 - SR9 during flood tide from 16:36 to 16:51 on 15 Nov 2024;
 - SR6 during ebb tide from 13:49 to 13:50 on 18 Nov 2024;
 - SR4, SR5, SR6, SR10, SR12 and SR15 during ebb tide from 14:10 to 15:18 on 20 Nov 2024; and
 - > SR4, SR5, SR6 and SR15 during flood tide from 14:57 to 15:28 and SR9, SE10 and SR12 during ebb tide from 07:52 to 08:10 on 22 Nov 2024
- 4.2.25 As the suspended solids (SS) result is determined by laboratory analysis that require 7 working days, it is not possible to increase the monitoring frequency to daily until no exceedance of Action Level. If such exceedances continuous during marine works commencement, ET will check with contractor the implementation of the mitigation measures and daily WQM monitoring will be considered.
- 4.2.26 As no marine work were conducted before 27 November 2024, no sign of pollution was observed during site inspection or marine water samples collection, the SS exceedance in recently should be caused by Typhoon YINXING (8-10 Nov 2024), TORAJI (11-15 Nov 2024) & MAN-YI (18-19 Nov 2024) and northeast monsoon coincides with the highest astronomical tides. It is considered that the exceedance were not related to Project works.

4.3 Ecology

MONITORING METHODOLOGY

- 4.3.1 The weekly site audit to be carried out by the ET should include checking whether good site practices are being properly implemented by the Contractor.
- 4.3.2 Impact monitoring of the transplanted *Aquilaris sinensis* at holding nursery and one retain tree of *Aquilaris sinensis* in SSWSTW Project Site, establishment and after-establishment caring measures of the compensatory mixed woodland to ensure the affected tree would not be affected by any unacceptable construction works. The trees would be treated with establishment works immediately after transplanting.

PARAMETERS MONITORED

- 4.3.3 The extent of the work site boundaries should be checked by the ET during the weekly site audit. Any disturbance by the Contractor outside the works area especially any damage to the vegetation and surrounding habitats outside the Project area shall be reported to ER and IEC.
- 4.3.4 To identify any unacceptable construction works for the trees of *Aquilaris sinensis* during transplanting, establishment and after-establishment caring measures of the compensatory mixed woodland.

MONITORING LOCATION

4.3.5 As per latest version of PTP, four tree found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW (*Figure 2.5*) which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery (*Figure 2.6*) at Kam Tin and eventually be transplanted to Pui O Pumping Station.

MONITORING DATE, TIME, FREQUENCY AND DURATION

- 4.3.6 The recommended good site practices to be audited once every week as part of the site audit programme. The weekly site audit to be carried out by the ET includes checking whether good site practices are being properly implemented by the Contractor. Results are recorded in Weekly Environmental Site Audit Checklist.
- 4.3.7 Monitoring programme for post-transplantation was conducted on 29 November 2024 once per month.

MONITORING RESULTS

- 4.3.8 The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- 4.3.9 The extent of the work site boundaries was checked by the ET during the weekly site audit.
- 4.3.10 Results and findings of site audit in this reporting month are listed in *Table 3.3*.

4.4 Waste Management

4.4.1 The quantities of waste for disposal in the Reporting Period are summarized in *Table 4.7*. The Monthly Summary Waste Flow Table is shown in *Appendix 4.5*.

Table 4.7 Summary of Quantities of Waste Material



Waste Type	Quantity this month	Quantity (the end of last month)	Cumulative Quantity-to-Date
Hard Rock and Large Broken Concrete (Inert) (in '000m³)	0	0	0
Reused in this Contract (Inert) (in '000m³)	0	0	0
Reused in other Projects (Inert) (in '000m³)	0	0	0
Disposal as Public Fill (Inert) (in '000m³)	0.22	0.3170	25.24789
Metals (in '000kg)	0.056	0	15.77517
Paper / Cardboard Packing	0.0941	0	0.91848
(in '000kg)	0	0	0.83538
Plastics (in '000kg)	0.0030	0	0.07796
Chemical Wastes (in '000kg)	0	0	0
General Refuses (in '000kg)	30.03	12.49	713.24
Marine Sediment (Type 1 – Open Sea Disposal) , m3	400	0	460.2

5 Complaints, Notification of Summons and Prosecution

- 5.1.1 No environmental complaint was recorded in the reporting month.
- 5.1.2 No notification of summons and successful prosecution regarding construction works were recorded in the reporting month.
- 5.1.3 Cumulative statistic on complaints, summary of complaints and successful prosecutions are summarized in *Table 5.1*, *Table 5.2* and *Table 5.3* respectively.

Table 5.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
November 2024	0
Project commencement to the end of last reporting month	3
Total	3

Table 5.2 Summary of Complaints

Date of Notification from EPD	Date of Complaint	Description of Complaint	Validity of Complaint	Close-Out Date / Status
26 May 2022	22 May 2022	A complaint is regarding to noise nuisance from marine site of San Shek Wan, Lantau Island.	Based on the investigation, the works activities of marine works did not result in any noise nuisance to Noise Sensitive Receivers (NSRs), noise nuisance from the Project is unlikely to be valid.	The interim report was submitted to EPD in June 2022. EPD replied no further comments on the final investigation report on 13 July 2022.
23 Dec 2022	21 Dec 2022	A complaint is regarding to the water quality for Pui O Beach, Lantau Island.	Based on the investigation, the works activities at POPS did not result in any water quality impacts to the Pui O Beach.	The interim report was submitted to EPD on 4 Jan 2023.
16 Aug 2024 2024	15 Aug 2024	A complaint is regarding to the damaged silt curtain	Based on the investigation, no marine works since Dec 2023 till present, the land based works activities at	The interim report was submitted to EPD on 31 Aug 2024.

Contract No. SD 15/2022 – Outlying Island Sewerage Stage 2 – South Lantau Sewage Works – Environmental Team Services (2023 – 2024) Monthly EM&A Report (November 2024)

quality impact. water quality impacts to the Pui O Wan.	and potential water	POPS did not result in any	
Pui O Wan.	quality impact.	water quality impacts to the	
		Pui O Wan.	

Table 5.3 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	-	0	0
Other	-	0	0
Total	-	0	0

6 Future Key Issues

- 6.1.1 In coming reporting 3 months, the scheduled construction activities are listed as follows:
 - Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road
 - Excavation and site formation at SSWSTW
 - Trenchless drilling works (Chi Ma Wan Road)
 - Excavation and ELS work at POSPS
 - Superstructure RC works at SSWSTW
 - Retaining wall construction at SSWSTW
 - Superstructure RC Works at SSWSTW
 - Dredging and diffuser construction at SSWSTW
 - E&M Installation at POSPS
- 6.1.2 The scheduled construction activities and the recommended mitigation measures for the coming 3 months are listed in *Table 6.1*. The major construction activities for the next 3 months are summarized in Three Months Rolling Programme November 2024 to January 2025 in *Appendix 6.1*.

Table 6.1 Construction Activities and Recommended Mitigation Measures in Coming Reporting 3 Months

Key Construction Works	Recommended Mitigation Measures
 Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road Dredging and diffuser construction at SSWSTW Site formation works Trenchless drilling works Excavation works ELS works Superstructure RC Works Retaining wall construction at SSWSTW E&M Installation at POSPS 	 Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan; Dust control during dust generating works; Silt curtain should be maintained in good condition prior to and during dredging and related marine works; Adopt surface drainage and sediment control facilities for sewage installation in village and public roads; Adopt temporary drainage and sediment control facilities on Site; Vehicle wheel-washing and body washing facilities should be provided at the site entrance; Regular water spraying on excavation works for dust control; and Proper waste handling, recycling and storage.



7 Conclusion

7.1 Noise Monitoring

- 7.1.1 School examination was taken place at N17 Bui O Public School from 6 to 8 November 2024 and 11 to 15 November 2024 in the reporting period, the limit level of noise monitoring station N17-Bui O Public School was adjusted accordingly to 65dB(A) during the period.
- 7.1.2 No action or limit level exceedance was recorded in construction noise level in this reporting period.

7.2 Water Quality Monitoring

- 7.2.1 Marine-based construction works commenced on 19 April 2022, HDD casing works commenced on 30 May 2022.
- 7.2.2 Water quality monitoring during mid-flood on 13 November 2024 was cancelled due to Strong Wind Signal, No. 3 was in force during the scheduled sampling time slots. No substitution would be arranged for such cancellation since it is impossible to maintain the monitoring frequency as three times a week for the event of marine water quality monitoring cancellation in between time with respect to the fact that not less than 36 hours interval shall be followed for two monitoring days as required by the EM&A Manual Clause 5.1.6 (b) for the project.
- 7.2.3 According to the Contractor's construction programme received via email on 26 November 2024, the marine works will be officially commenced on 27 November 2024.
- 7.2.4 In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, action level exceedances of Depth-averaged on suspended solids (SS) were recorded at the following stations and time slots,
 - > SR9 and SR10 during flood tide from 17:23 to 17:37 on 1 Nov 2024;
 - > SR4, SR5 and SR6 during ebb tide from 7:05 to 7:28 on 8 Nov 2024
 - SR6 and SR10 during flood tide from 16:01 to 16:30 on 8 Nov 2024;
 - SR9 during flood tide from 15:02 to 15:05 on 11 Nov 2024;
 - > SR9 during flood tide from 16:36 to 16:51 on 15 Nov 2024;
 - SR6 during ebb tide from 13:49 to 13:50 on 18 Nov 2024;
 - SR4, SR5, SR6, SR10, SR12 and SR15 during ebb tide from 14:10 to 15:18 on 20 Nov 2024; and
 - > SR4, SR5, SR6 and SR15 during flood tide from 14:57 to 15:28 and SR9, SE10 and SR12 during ebb tide from 07:52 to 08:10 on 22 Nov 2024
- 7.2.5 As the suspended solids (SS) result is determined by laboratory analysis that require 7 working days, it is not possible to increase the monitoring frequency to daily until no exceedance of Action Level. If such exceedances continuous during marine works commencement, ET will

check with contractor the implementation of the mitigation measures and daily WQM monitoring will be considered.

7.2.6 As no marine work were conducted before 27 November 2024, no sign of pollution was observed during site inspection or marine water samples collection, the SS exceedance in recently should be caused by Typhoon YINXING (8-10 Nov 2024), TORAJI (11-15 Nov 2024) & MAN-YI (18-19 Nov 2024) and northeast monsoon coincides with the highest astronomical tides. It is considered that the exceedance were not related to Project works.

7.3 Ecological Impact Monitoring

- 7.3.1 Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.
- 7.3.2 As per latest version of PTP, four tree found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery at Kam Tin and eventually be transplanted to Pui O Pumping Station.
- 7.3.3 The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- 7.3.4 The extent of the work site boundaries was checked by the ET during the weekly site audit.
- 7.3.5 Within this reporting period, holding nursery visit for transplanted trees on 29 November 2024.
- 7.3.6 No non-compliance was found during the site inspection while reminders on environmental measures were recommended. Results and findings of these inspections in this reporting period are listed below in *Table 7.1*.

Table 7.1 Summary of Ecological Impact Monitoring

Inspection Date	Reminder and Recommendations	Close-out Date / Status
29 November 2024	Holding nursery at Kam Tin: Obs1: Malfunction of water sprinkler (located between T742 and T751) and minimal watering to T742, T751 and T392 were observed. The Contractor was reminded to provide adequate irrigation to all transplanted trees during dry season.	To be rectified by the Contractor
	Obs2: The Contractor was reminded to remove other herbaceous plant species from <i>Gmelina chinensis</i> (T751).	
	R1: The tree tag of <i>Celtis sinensis</i> (T113) should be replaced.	

7.4 Review of the Reasons for and the Implications of Non-compliance

7.4.1 No environmental non-compliance was recorded in the reporting month.



7.5 Summary of action taken in the event of and follow-up on non-compliance

7.5.1 There was no particular action taken since no non-compliance was recorded in the reporting period.

30 EP-538/2017

Figure 2.1

Master Layout Plan

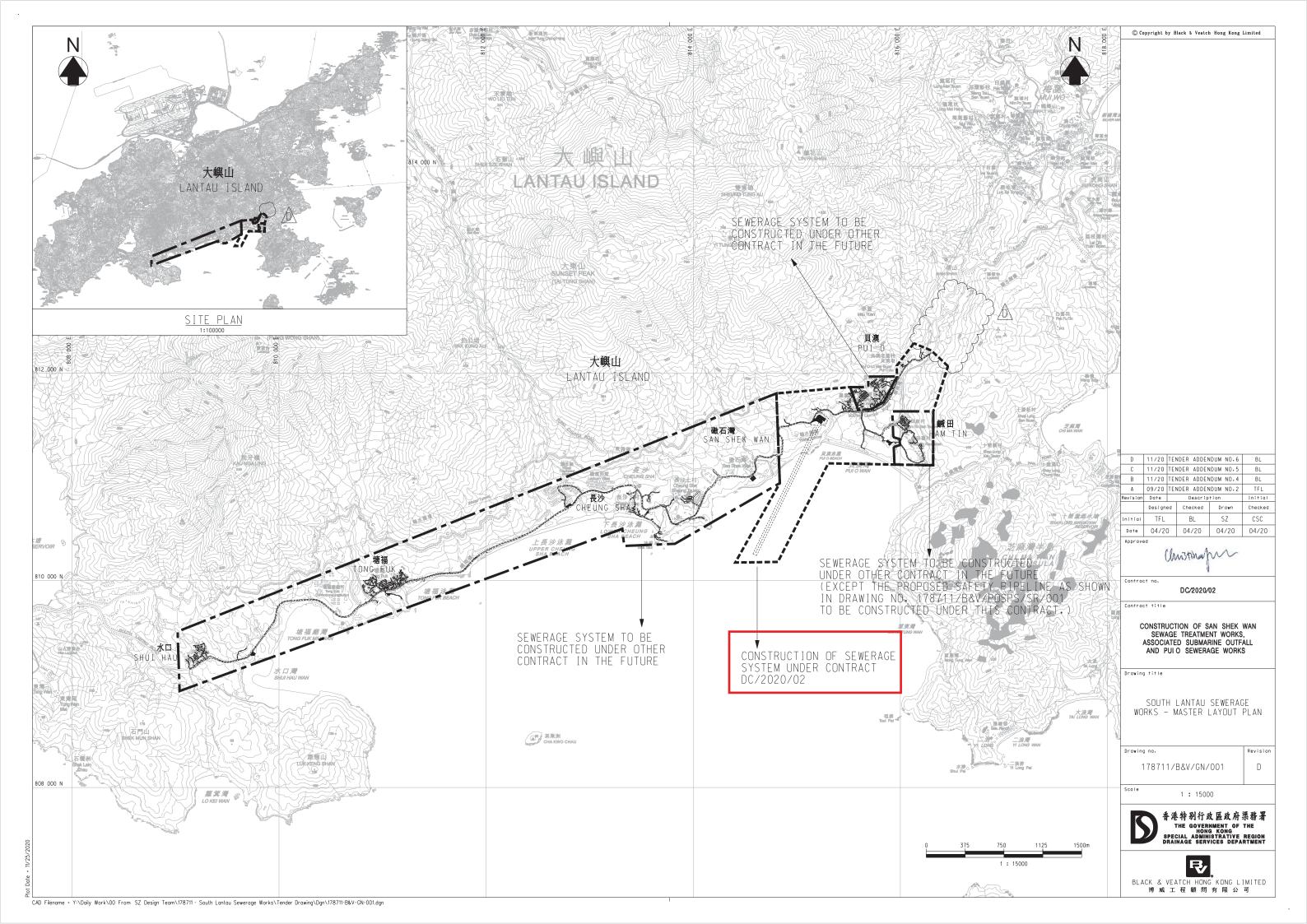


Figure 2.2

Contract Layout Plan

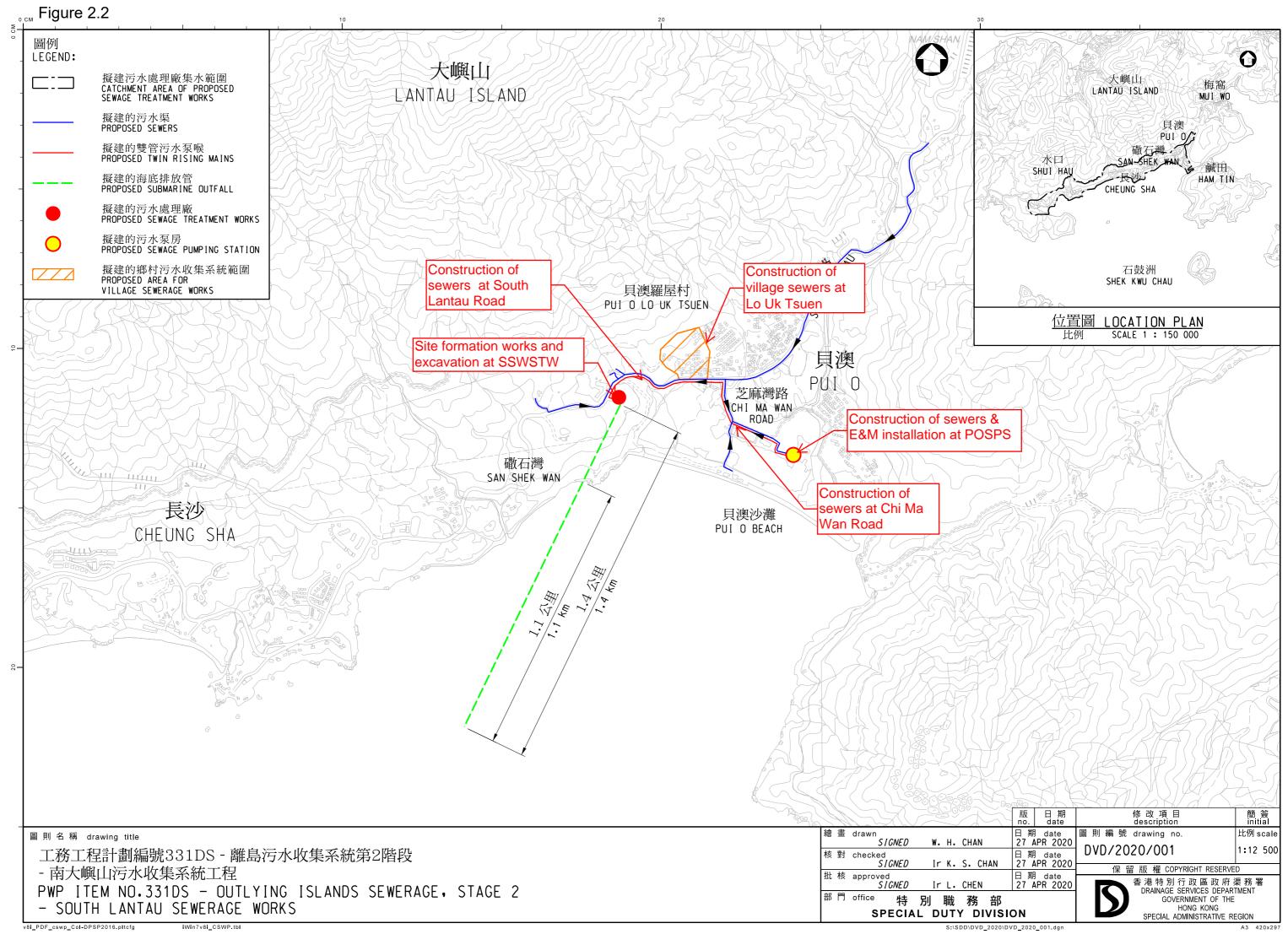


Figure 2.3

Locations of Noise Monitoring Station

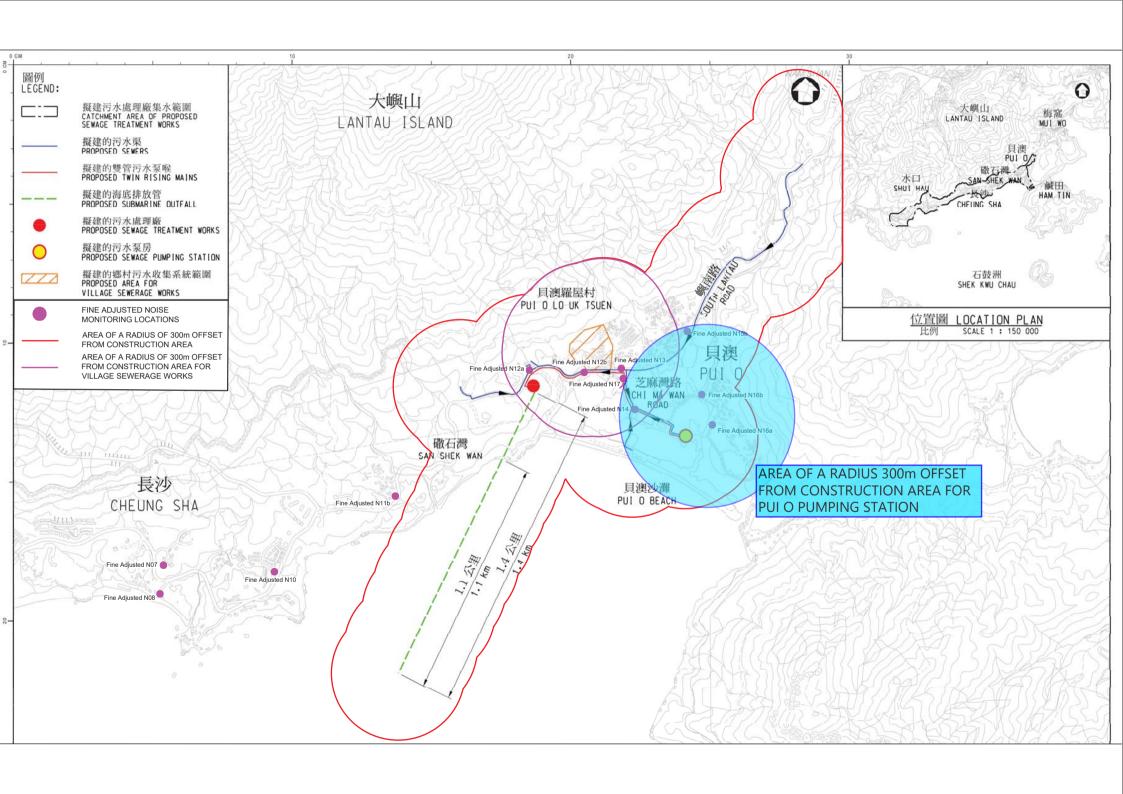


Figure 2.4 Locations of Water Quality Monitoring Stations

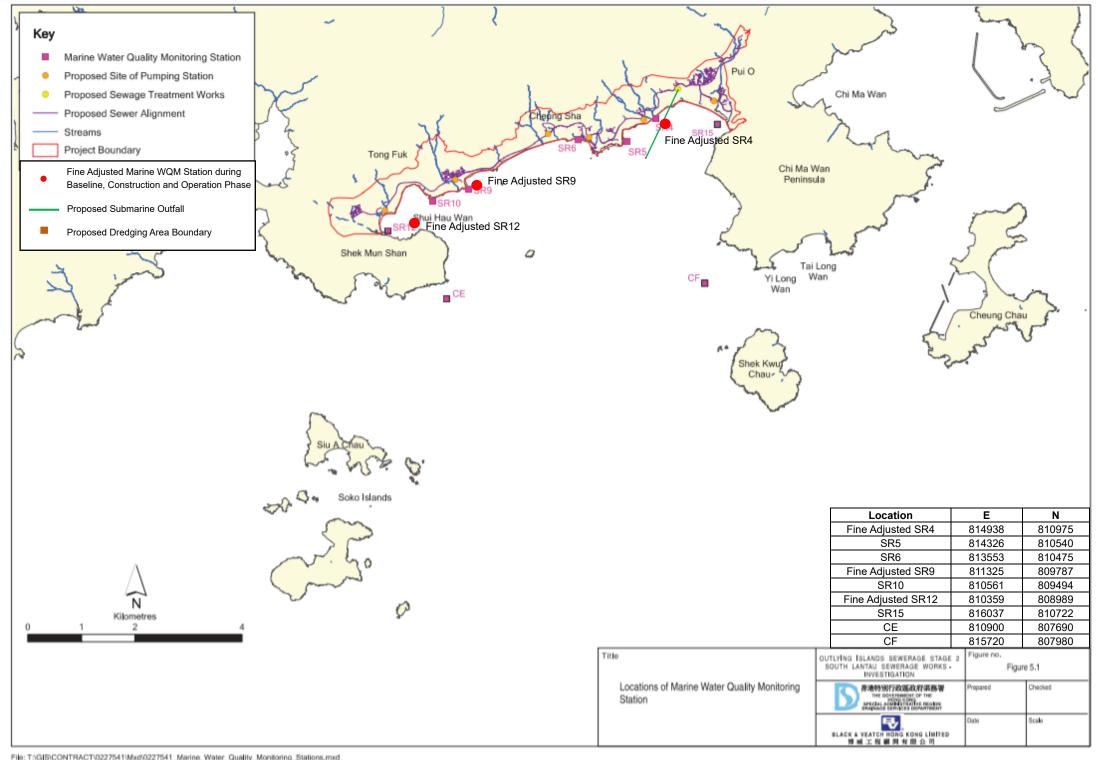


Figure 2.5

Mark up Figure 5.4i extracted from approved EIA Report (AEIAR-210/2017)

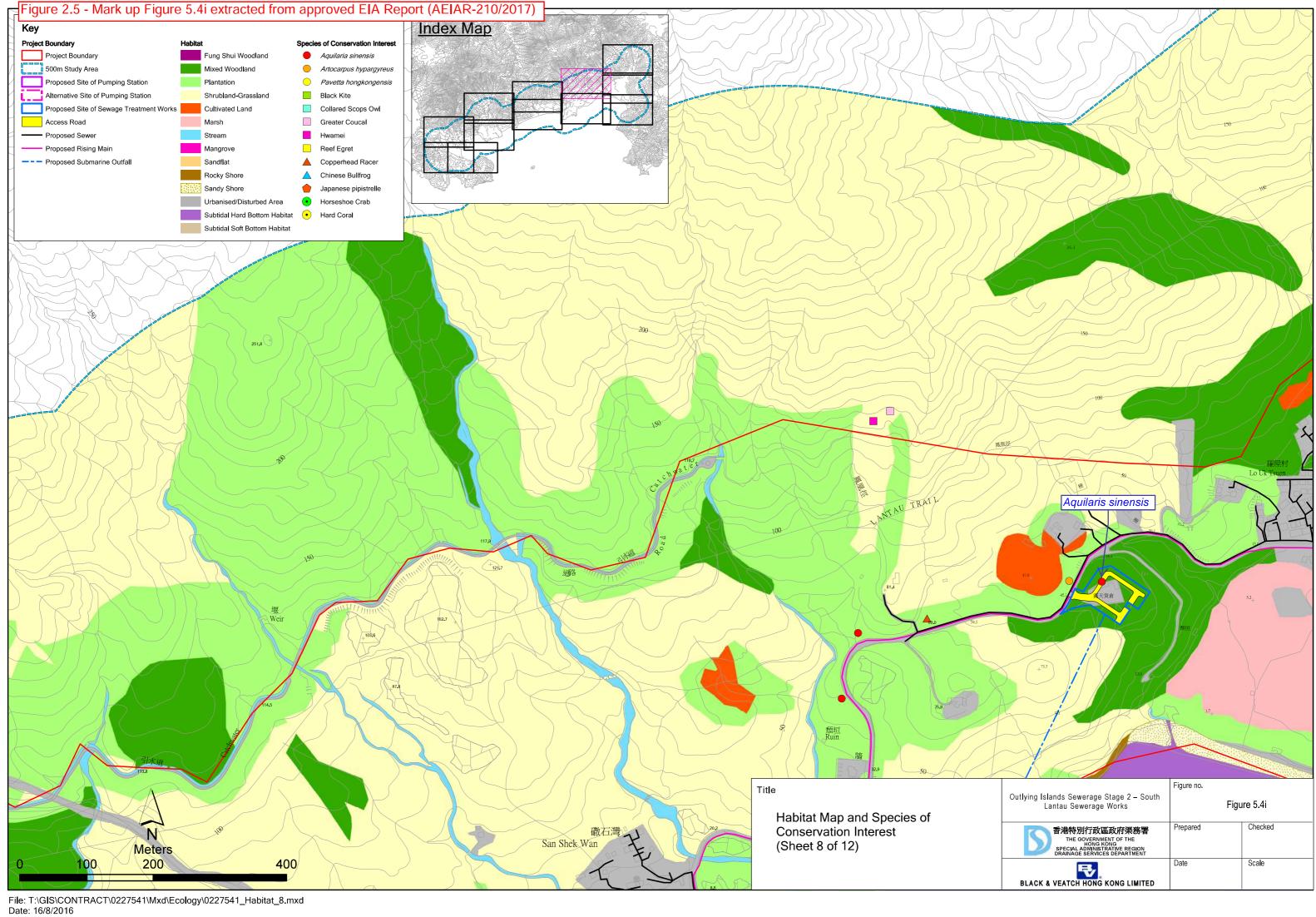
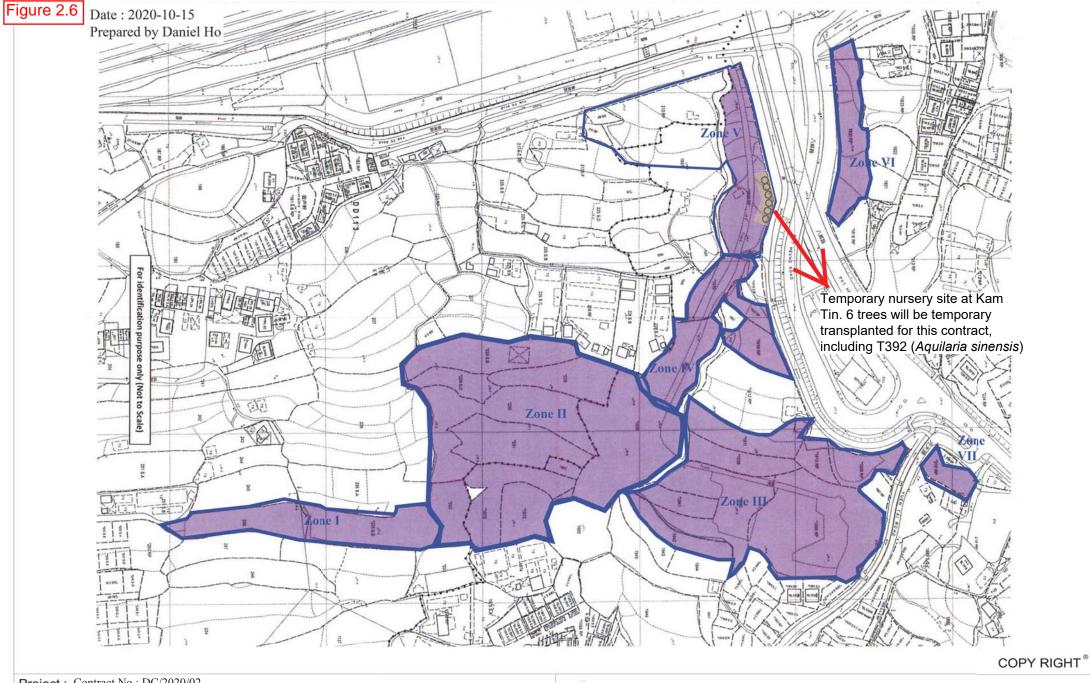


Figure 2.6

Location Plan for Temporary Holding Nursery



Project: Contract No.: DC/2020/02

Construction of San Shek Wan Sewage Treatment Works,

Associated Submarine Outfall and Pui O Sewerage Works

Drawing Title: Location Plan for 6 nos. Trees on Kam Tin Nursery

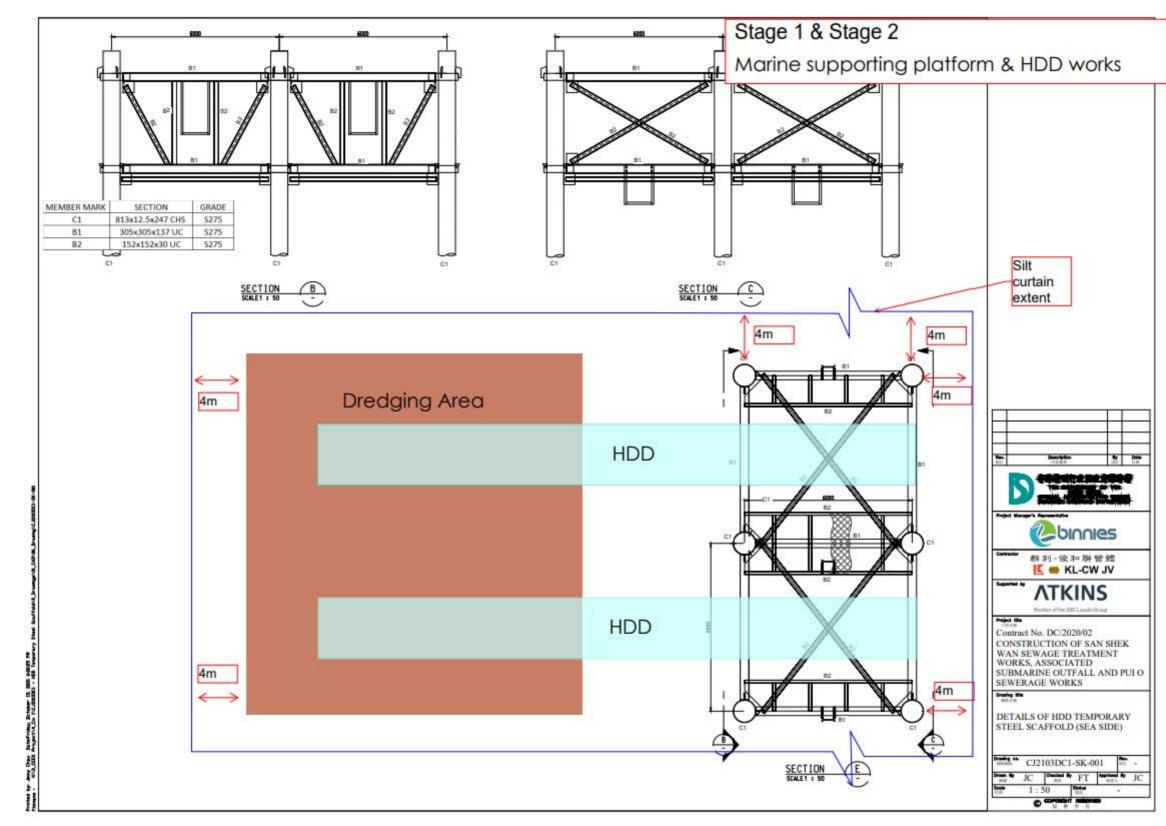


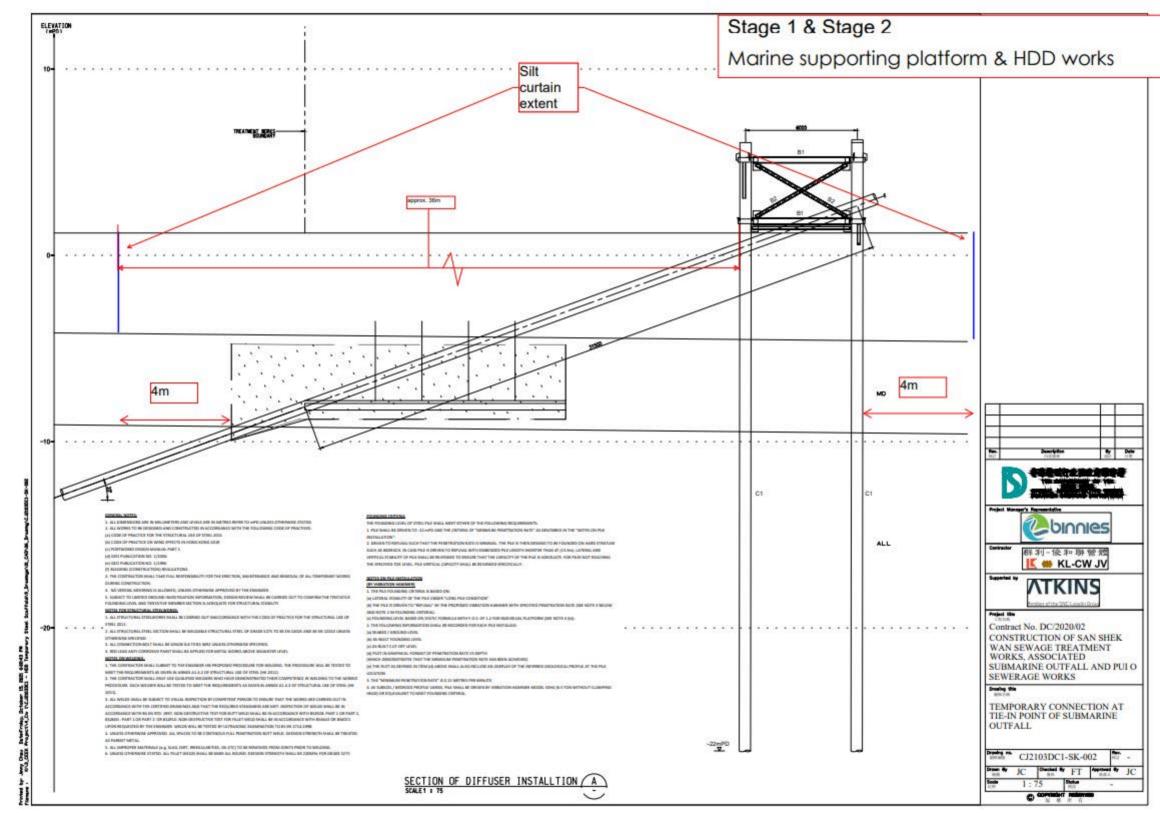
Toyo Greenland Co., Ltd.

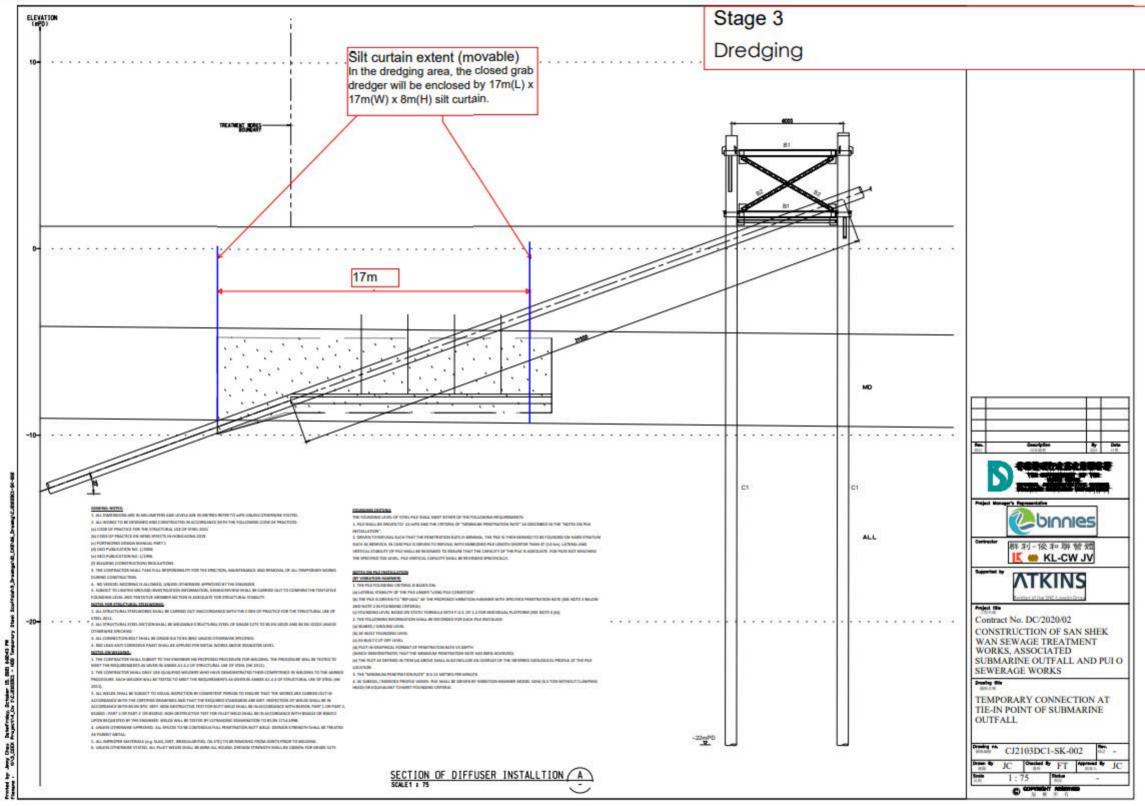
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Ref : C3109/22/TGD0164	Date : 10 January 2022	00

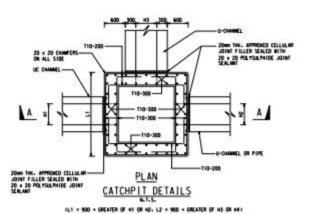
Figure 2.7

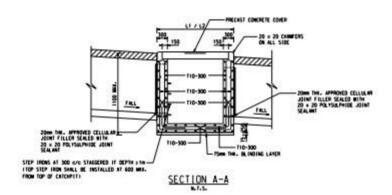
Typical Details of Proposed Silt Curtain

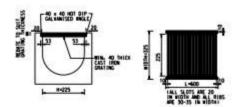




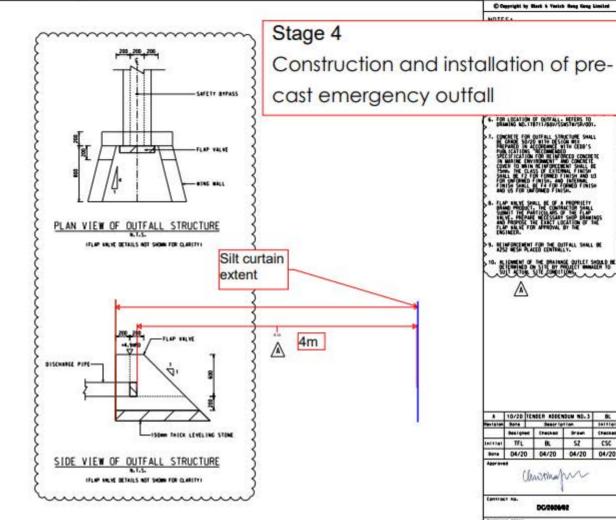








TYPICAL SECTION OF U-CHANNEL WITH CAST IRON GRATING



6. FOR LOCATION OF OMNTALL BEFERS TO DESMINES NO. 178711/080/25CHTTW/SE/SON A 10/20 TENDER ADDENDUM NO.3 BL SZ BL. 9019 04/20 04/20 04/20 04/20 Christinahor CONSTRUCTION OF SAN SHEK WAN SEWAGE TREATMENT WORKS, ASSOCIATED SUBMARINE OUTFALL AND PUT O SEWERAGE WORKS TYPICAL DRAINAGE DETAILS

Coppright by Black & Verteb Song Cong Limited

178711/B&V/CS/001

H.T.S.



BLACK & VEATCH HONG KONG LIMITED

Appendix 4.1

Copies of Calibration Certificates



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

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2



CERTIFICATE OF CALIBRATION

Certificate No.:

24CA0510 02-04

Page

of

Item tested

Description: Manufacturer: Sound Level Meter (Class 1)

Larson Davis LxT1

Type/Model No.: Serial/Equipment No.: 0006357 Adaptors used:

Microphone **PCB**

377B02 325638

Preamp **PCB** PRMLxT1L

070008

Item submitted by

Customer Name:

Lam Environmental Services Limited

Address of Customer:

Request No .:

Date of receipt:

10-May-2024

Date of test:

14-May-2024

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Model: B&K 4226 Serial No.

Expiry Date: 28-Aug-2024

Traceable to: CIGISMEC

Signal generator

DS 360

2288444 61227

28-Jun-2024

CEPREI

Ambient conditions

Temperature:

21 ± 1 °C 55 ± 10 %

Relative humidity: Air pressure:

1005 ± 5 hPa

Test specifications

The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 1, and the lab calibration procedure SMTP004-CA-152.

The electrical tests were performed using an electrical signal substituted for the microphone which was removed and 2. replaced by an equivalent capacitance within a tolerance of +20%.

The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3. between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

ena

Approved Signatory:

Date:

16-May-2024

Company Chop:

ENGIN

The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.

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Form No.CARP152-1/Issue 1/Rev.C/01/02/2007



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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

24CA0510 02-04

Page

2

2

1. Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
1001.				
Self-generated noise	Α	Pass	0.3	
3	С	Pass	0.8	2.1
	Lin	Pass	1.6	2.2
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	Α	Pass	0.3	
	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/103 at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

Fung Chi Yip

End

Checked by:

Date: 14-May-2024

Date:

Chan Yuk Yiu 16-May-2024

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP152-2/Issue 1/Rev.C/01/02/2007



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Test Data for Sound Level Meter

Page 1 of 5

Sound level meter type:

LxT1

Serial No.

0006357

Date 14-May-2024

Microphone Preamp type: type: 377B02 PRMLxT1L Serial No. Serial No. 325638 070008

Report: 24CA0510 02-04

SELF GENERATED NOISE TEST

The noise test is performed in the most sensitive range of the SLM with the microphone replaced by an equivalent impedance.

Noise level in A weighting

8.5

dB

Noise level in C weighting

11.3

dB

Noise level in Lin

19.1

dB

LINEARITY TEST

The linearity is tested relative to the reference sound pressure level using a continuous sinusoidal signal of frequency 4 kHz. The measurement is made on the reference range for indications at 5 dB intervals starting from the 94 dB reference sound pressure level. And until within 5 dB of the upper and lower limits of the reference range, the measurements shall be made at 1 dB intervals.(SLM set to LEQ/SPL)

Reference/Expected level	Actua	l level	Tolerance	Devia	ition
Reference/Expected level	non-integrated	integrated		non-integrated	integrated
dB	dB	dB	+/- dB	dB	dB
94.0	94.0	94.0	0.7	0.0	0.0
99.0	99.0	99.0	0.7	0.0	0.0
104.0	104.0	104.0	0.7	0.0	0.0
109.0	109.0	109.0	0.7	0.0	0.0
114.0	114.0	114.0	0.7	0.0	0.0
115.0	115.0	115.0	0.7	0.0	0.0
116.0	116.0	116.0	0.7	0.0	0.0
117.0	117.0	117.0	0.7	0.0	0.0
118.0	118.0	118.0	0.7	0.0	0.0
119.0	119.0	119.0	0.7	0.0	0.0
120.0	120.0	120.0	0.7	0.0	0.0
89.0	89.0	89.0	0.7	0.0	0.0
84.0	84.0	84.0	0.7	0.0	0.0
79.0	79.0	79.0	0.7	0.0	0.0
74.0	74.0	74.0	0.7	0.0	0.0
69.0	69.0	69.0	0.7	0.0	0.0
64.0	64.0	64.0	0.7	0.0	0.0
59.0	59.0	59.0	0.7	0.0	0.0
54.0	54.0	54.0	0.7	0.0	0.0
49.0	48.9	48.9	0.7	-0.1	-0.1
44.0	43.9	43.9	0.7	-0.1	-0.1
39.0	38.9	38.9	0.7	-0.1	-0.1
34.0	33.9	33.9	0.7	-0.1	-0.1
33.0	32.9	32.9	0.7	-0.1	-0.1

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Test Data for Sound Level Meter

Page 2 of 5

Sound level meter type:		LxT1		Serial No.	0006357	Date	14-May-2024
Microphone Preamp	type: type:	377B02 PRMLxT1L		Serial No. Serial No.	325638 070008	Repo	ort: 24CA0510 02-04
32.0		31.9	31.9	0.7		-0.1	-0.1
31.0		30.9	30.9	0.7		-0.1	-0.1
30.0		29.8	29.9	0.7		-0.2	-0.1

Measurements for an indication of the reference SPL on all other ranges which include it

Other ranges	Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-120	94.0	94.0	0.7	0.0

Measurements on all level ranges for indications 2 dB below the upper limit and 2 dB above the lower limit

Ranges	Reference/Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
00.400	30.0	29.9	0.7	-0.1
20-120	118.0	118.0	0.7	0.0

FREQUENCY WEIGHTING TEST

The frequency response of the weighting netwoks are tested at octave intervals over the frequency ranges 31.5 Hz to 12500 Hz. The signal level at 1000 Hz is set to give an indication of the reference SPL.

Frequency weighting A:

Frequency	Ref. level	Expected level	Actual level	Tolerar	nce(dB)	Deviation
Hz	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	54.6	54.7	1.5	1.5	0.1
63.1	94.0	67.8	67.8	1.5	1.5	0.0
125.9	94.0	77.9	77.9	1.0	1.0	0.0
251.2	94.0	85.4	85.4	1.0	1.0	0.0
501.2	94.0	90.8	90.8	1.0	1.0	0.0
1995.0	94.0	95.2	95.3	1.0	1.0	0.1
3981.0	94.0	95.0	95.1	1.0	1.0	0.1
7943.0	94.0	92.9	92.9	1.5	3.0	0.0
12590.0	94.0	89.7	89.6	3.0	6.0	-0.1

Frequency weighting C:

Frequency	Ref. level	Expected level	Expected level Actual level		nce(dB)	Deviation
Hz	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	91.0	91.2	1.5	1.5	0.2
63.1	94.0	93.2	93.3	1.5	1.5	0.1
125.9	94.0	93.8	93.8	1.0	1.0	0.0
251.2	94.0	94.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	94.0	1.0	1.0	0.0



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Test Data for Sound Level Meter

Page 3 of 5

Sound level meter type:		LxT1 Serial No.		000	0006357		14-May-2024
Microphone Preamp	type: type:	377B02 PRMLxT1L	Serial No. Serial No.		638 008	Report	: 24CA0510 02-04
1995.0	94.0	93.8	93.9	1.0	1.0	0.1	
3981.0	94.0	93.2	93.3	1.0	1.0	0.1	
7943.0	94.0	91.0	91.0	1.5	3.0	0.0	
12590.0	94.0	87.8	87.7	3.0	6.0	-0.1	

Frequency weighting Lin:

Frequency	Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
Hz	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	94.0	94.0	1.5	1.5	0.0
63.1	94.0	94.0	94.0	1.5	1.5	0.0
125.9	94.0	94.0	94.0	1.0	1.0	0.0
251.2	94.0	94.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	94.0	1.0	1.0	0.0
1995.0	94.0	94.0	94.0	1.0	1.0	0.0
3981.0	94.0	94.0	94.1	1.0	1.0	0.1
7943.0	94.0	94.0	94.1	1.5	3.0	0.1
12590.0	94.0	94.0	94.0	3.0	6.0	0.0

TIME WEIGHTING FAST TEST

Time weighting F is tested on the reference range with a single sinusoidal burst of duration 200 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A. Maximum hold)

mion the eight to earthing	(
Ref. level	Expected level	Actual level	Tolera	nce(dB)	Deviation
dB	dB	dB	+	-	dB
116.0	115.0	114.9	1.0	1.0	-0.1

TIME WEIGHTING SLOW TEST

Time weighting S is tested on the reference range with a single sinusoidal burst of duration 500 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Ref. level Expected level Actua	Actual level	Tolera	Deviation	
dB	dB	dB	+	-	dB
116.0	111.9	111.8	1.0	1.0	-0.1

PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the 10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range.

Positive polarities: (Weighting Z. set the generator signal to single, Lzpeak)

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
119.0	119.0	119.5	2.0	0.5



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SMECLab

Test Data for Sound Level Meter

Page 4 of 5

Sound level meter type:

LxT1

Serial No.

0006357

Date 14-May-2024

Microphone Preamp

type: type: 377B02 PRMLxT1L Serial No. Serial No.

325638 070008

Report: 24CA0510 02-04

Negative polarities:

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
119.0	119.0	119.5	2.0	0.5

RMS ACCURACY TEST

The RMS detector accuracy is tested on the reference range for a crest factor of 3.

Test frequency:

2000 Hz

Amplitude:

2 dB below the upper limit of the primary indicator range.

Burst repetition frequency: Tone burst signal:

11 cycles of a sine wave of frequency 2000 Hz

(Set to INT)

Torio barot olgitali.		11 Oyoloo ol a sille	wave or nequency z	.000 112. (001	to har
	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
Time wighting	dB	dB	indication(dB)	+/- dB	dB
Slow	114.0+6.6	114.0	113.9	0.5	-0.1

TIME WEIGHTING IMPULSE TEST

Time weighting I is tested on the reference range (Set the SLM to LAImax)

Test frequency:

2000 Hz

Amplitude:

The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

Ref. Level	Single burst indication		Single burst indication Tolerance	
dB	Expected (dB)	Actual (dB)	+/- dB	dB
120.0	111.2	111.1	2.0	-0.1

Repeated at 100 Hz

Ref. Level	Repeated burst indication		Tolerance	Deviation	
dB	Expected (dB)	Actual (dB)	+/- dB	dB	
120.0	117.3	117.1	1.0	-0.2	

TIME AVERAGING TEST

This test compares the SLM reading for continuous sine signals with readings obtained from a sine tone burst sequence having the same RMS level. The test level is 30 dB below the upper limit of the linearity range and repeated for Type 1 SLM with 40 dB below the upper limit of the linearity.

Frequency of tone burst:

4000 Hz

Duration of tone burst:

1 ms

Repetition Time	Level of tone burst	Expected Leq	Actual Leq	Tolerance	Deviation	Remarks
msec	dB	dB	dB	+/- dB	dB	
1000	90.0	90.0	89.9	1.0	-0.1	60s integ.
10000	80.0	80.0	79.9	1.0	-0.1	6min. integ.

PULSE RANGE AND SOUND EXPOSURE LEVEL TEST

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency:

4000 Hz

Integration time:

10 sec

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Test Data for Sound Level Meter

Page 5 of 5

Sound level meter type:

LxT1

Serial No.

0006357

14-May-2024

Date

Microphone Preamp type: type: 377B02 PRMLxT1L Serial No. Serial No. 325638 070008

Report: 24CA0510 02-04

The integrating sound level meter set to Leq:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10	90.0	60.0	60.0	1.7	0.0

The integrating sound level meter set to SEL:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation	
msec	tone burst (dB)	dB	dB	+/- dB	dB	
10.0	90.0	70.0	70.0	1.7	0.0	

OVERLOAD INDICATION TEST

For SLM capable of operating in a non-integrating mode.

Test frequency:

2000 Hz

Amplitude:

2 dB below the upper limit of the primary indicator range.

Burst repetition frequency:

40 Hz

Tone burst signal:

11 cycles of a sine wave of frequency 2000 Hz.

Level	Level reduced by	Further reduced	Difference	Tolerance	Deviation
at overload (dB)	1 dB	3 dB	dB	dB	dB
113.3	112.3	109.3	3.0	1.0	0.0

For integrating SLM, with the instrument indicating Leq.

For integrating SLM, with the instrument indicating Leq and set to the reference range. The test signal as following: The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency:

4000 Hz 10 sec

Integration time: Single burst duration:

1 msec

Olligio barot	adiation.	1 111000				
Rms level	s level Level reduced by Expected level Actual level		Actual level	Tolerance	Deviation	
at overload (dB)	1 dB	dB	dB	dB	dB	
120.0	119.0	79.0	79.0	2.2	0.0	

ACOUSTIC TEST

The acoustic test of the complete SLM is tested at the frequency 125 Hz and 8000 Hz using a B&K type 4226 Multifunction Acoustic Calibrator. The test is performed in A weighting.

Frequency	Expected level	Actual level	Tolerar	Deviation	
Hz	dB	Measured (dB)	+	-	dB
1000	94.0	94.0	0.0	0.0	0.0
125	77.9	78.0	1.0	1.0	0.1
8000	92.9	90.5	1.5	3.0	-2.4

-----END-----



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2

CERTIFICATE OF CALIBRATION

Certificate No.:

24CA0205 01-02

Page:

of

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer: Type/Model No.: Larson Davis CAL200 13128

Serial/Equipment No.: Adaptors used:

2

Item submitted by

Curstomer:

Lam Environmental Services Ltd.

Address of Customer:

-

Request No.:

Date of receipt:

05-Feb-2024

Date of test:

06-Feb-2024

Reference equipment used in the calibration

Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter Audio analyzer	Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A 8903B	Serial No. 3257888 3353200 2346941 61227 US36087050 GB41300350	Expiry Date: 15-Aug-2024 13-Jun-2024 13-Jun-2024 28-Jun-2024 01-Jun-2024 13-Jun-2024	Traceable to: SCL CEPREI CEPREI CEPREI CEPREI CEPREI
Universal counter	53132A	MY40003662	07-Jun-2024	CEPREI

Ambient conditions

Temperature:

21 ± 1 °C 55 ± 10 %

Relative humidity: Air pressure:

1005 ± 5 hPa

Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3, The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

Fena

Approved Signatory:

Date:

07-Feb-2024

Company Chop:

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.

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Form No.CARP156-1/Issue 1/Rev.D/01/03/2007



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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

24CA0205 01-02

Page:

C

2

1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

			(Output level in dB re 20 μPa
Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	93.74	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz

STF = 0.016 dB

Estimated expanded uncertainty

0.005 dB

3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz

Actual Frequency = 999.4 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz

TND = 0.8%

Estimated expanded uncertainty

Fung Chi Yi

0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

End

calibrated by

Checked by

Date:

07-Feb-2024

Date:

06-Feb-202<mark>4</mark>)

U7-FED-2024

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP156-2/Issue 1/Rev.C/01/05/2005

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BD090011

Date of Issue

: 05 September 2024

Page No.

: 1 of 2

PART A - CUSTOMER INFORMATION

Lam Environmental Services Limited

PART B - SAMPLE INFORMATION

Name of Equipment:

YSI Professional Plus Multi Parameters

Manufacturer:

YSI

Serial Number:

17G100383

Date of Received:

03 September 2024

Date of Calibration:

04 September 2024

Date of Next Calibration:

03 December 2024

Request No.:

D-BD090011

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method

pH value

APHA 21e 4500-H+ B

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

Dissolved oxygen

APHA 23e 4500-O G (Membrane Electrode Method)

Salinity

APHA 21e 2520 B

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.01	0.01	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	10.02	0.01	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
19.0	18.0	-1.0	Satisfactory
27.0	26.0	-1.0	Satisfactory
36.5	35.5	-1.0	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

(3) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
6.87	6.38	-0.49	Satisfactory
5.58	5.48	-0.10	Satisfactory
3.66	3.54	-0.12	Satisfactory
0.56	0.44	-0.12	Satisfactory

Tolerance of Dissolved oxygen should be less than \pm 0.5 (mg/L)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager



專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BD090011

Date of Issue

: 05 September 2024

Page No.

: 2 of 2

(4) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.98	-0.20	Satisfactory
20	20.15	0.75	Satisfactory
30	30.96	3.20	Satisfactory

Tolerance of Salinity should be less than \pm 10.0 (%)

Remark(s)

- 'The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
- ·The results relate only to the calibrated equipment as received
- The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- 'The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.

--- END OF REPORT ---



Calibration Report

~	1:1.	ration	No	
2	1111)	Lauvii	INO.	

60408001-K04E3002

Laboratory

FT LaboratoriesLtd.

Address

Lot No. DD77 Section 1552 S.Ass 1RP, Ng Chow South Road, Ping Che, Fanling, New Territories

Telephone

Facsimile

(852) 2758 8962

Customer

Lam Environmental Services Limited

Address

19/F., Remex Centre, 42 Wong Chuk Hang Road, Hong Kong

Item Calibrated

Name/Description:

Turbidimeter

Manufacturer:

Shanghai Xinrui Instruments & Meters co.,Ltd

Model no:

WGZ-3B

Equipment no.:

2209074

Reference Standard /

C23/01 under NCRM reference material number GBW(E) 120125.

Major Measurement

Standard Solution of Formazine Turbidity

Equipment

Calibration Method

In-house calibration method according to Ref: APHA22nd ed 213 OB

Date of item received

04 Oct.,2024

Date of Calibration

08 Oct., 2024

Location of Calibration

Chemical Laboratory of FT LaboratoriesLtd.

Calibration Conditions

Temperature

 20 ± 3 °C

Relative Humidity

30% to 80%

Test Results

The test results are detailed in the subsequent page(s).

Certified by:

Date of Issue: -8 OCT 2024

CHAN Joseph Nicolas (Senior Technical Engineer)

Notes:

The above equipment has been callbrated against standards which are traceable to internationally recognized standards. (1)

This certificate shall not be reproduced, except in full, without the written approval of FT LaboratoriesLtd.



Calibration Report

Calibration No.

60408001-K04E3002

Results

Turbidity of standard solution used (NTU)	Measured value (NTU)	Ептог (%)
0	0	
4	3.99	-0.25%
10	9.99	-0.10%
40	39.96	-0.10%
100	99.60	-0.40%
400	398.0	-0.50%
1000	997.0	-0.30%

Remarks:

- (A) Each reported result is the mean of three measurements on UUT (unit-under-test).
- (B) The values given in this Calibration Report only relate to the unit-under-test and the values measured at the time of the test. Any uncertainties quoted will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the measurement.
- (C) Before calibration, UUT and reference equipment was placed in the laboratory for at least one hour.

< End of Report >

Calibrated by:

CH Cheung

Date:

08 Oct., 2024

Checked by

Date:

Appendix 4.2

Impact Monitoring Schedule for Reporting Month and Next Month



CONTRACT NO: SD 15/2022 OUTLYING ISLAND SEWERAGE STAGE 2 - SOUTH LANTAU SEWAGE WORKS -ENVIRONMENTAL TEAM SERVICES (2023 – 2024) Environmental Monitoring Schedule (Rev. 4)

Nov 2024

*Mid-tide time during daylight period of the ebb/flood tide is scheduled in consideration of navigation safety and to capture major marine works operation.

Sunday	Monda	ay	Tuesday	Wednesda	ıy	Thursday	Fric	lay	Saturday
27 Oct		28 Oct	29 Oct		30 Oct	31 Oct		01 Nov	02 Nov
	Mid-Ebb Mid-Flood	9:56 16:40 04 Nov		Mid-Ebb Mid-Flood	11:13 17:15 06 Nov	07 Nov	Mid-Ebb Mid-Flood	12:18 17:49 08 Nov	09 Nov
				Noise monitoring					
	Mid-Ebb	13:44		Mid-Ebb	15:00*		Mid-Ebb	06:45*	
10 Nov	Mid-Flood	8:27 11 Nov	12 Nov	Mid-Flood	09:00* 13 Nov	14 Nov	Mid-Flood	16:30* 15 Nov	16 Nov
				WQM for Mid-floo suspended due to Strong Wind Signa No.3					
	Mid-Ebb	7:53		Mid-Ebb	9:57		Mid-Ebb	11:38	
17 Nov	Mid-Flood	15:24 18 Nov	19 Nov	Mid-Flood	16:20 20 Nov	21 Nov	Mid-Flood	17:21 22 Nov	23 Nov
						Noise monitoring			
	Mid-Ebb Mid-Flood	13:56* 8:42		Mid-Ebb Mid-Flood	15:00*		Mid-Ebb Mid-Flood	6:55* 15:00*	
24 Nov		25 Nov	26 Nov	Noise monitoring	27 Nov	28 Nov		29 Nov	30 Nov
	Mid-Ebb Mid-Flood	8:02 15:12		Mid-Ebb Mid-Flood	9:54 15:58		Mid-Ebb Mid-Flood	11:12 16:32	



CONTRACT NO: SD 15/2022 OUTLYING ISLAND SEWERAGE STAGE 2 – SOUTH LANTAU SEWAGE WORKS – ENVIRONMENTAL TEAM SERVICES (2023 – 2024)

ENVIRONMENTAL TEAM SERVICES (2023 – 2024) Tentative Impact Marine Water Quality Monitoring Schedule (Rev. 4) Dec 2024

Note:

*Mid-tide time during daylight period of the ebb/flood tide is scheduled in consideration of navigation safety and to capture major marine works operation.

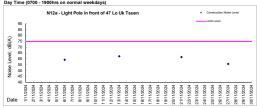
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01 Dec	02	Dec 03 De	С 04	Dec 05 D	ec 06 De	c 07 Dec
	Mid-Flood	2:54 7:51 Dec 10 De	Mid-Flood	4:04 9:21 Dec 12 D	Mid-Ebb 16:00 Mid-Flood 10:0 ec 13 De	0
		7:08*		8:27	Mid-Ebb 10:3	3
15 Dec	Mid-Flood 1	3:40 17 Dec 17 De		4:56 Dec 19 D	Mid-Flood 16:0 ec 20 De	
	Mid-Flood	3:02 7:55	Mid-Flood	3:57 9:29	Mid-Ebb 16:00 Mid-Flood 10:0	0
22 Dec	23	Dec 24 De	с 25	Dec 26 D	ec 27 De	c 28 Dec
		6:53*		7:48	Mid-Ebb 9:5	
29 Dec		3:12 Dec 31 De		4:14 Jan 02 J	Mid-Flood 15:0 an 03 Ja	
		2:03		Mid-Ebb 14:		Mid-Ebb 15:55
		7:17			07	Mid-Flood 10:2

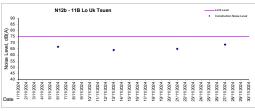
Appendix 4.3

Noise Monitoring Results and Graphical Presentations

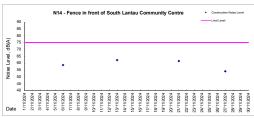


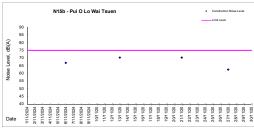


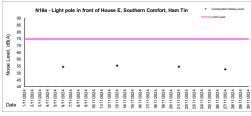




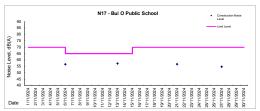














Day Time (0700 - 1900hrs on normal weekdays)

Location: N12a - Light Pole in front of 47 Lo Uk Tsuen

			Calibration		Measur	ement No	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	M: C · ·	Oil N.:
Date	Weather	Wind Speed	Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Major Construction	Other Noise
			CHECK		Unit:	dB(A), (5	i-min)		Unit:	dB(A), (30-min)	•	Noise Source(s)*	Source(s)
				14:15	59.0	61.2	51.2						
				14:20 58.6 60.8 51.4									
6 Nov 2024	Sunny	0.0	94.1	14:25	56.5	58.8	48.7	59.3	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
0 1404 2024	Suriny	0.0	34.1	14:30	59.0	60.8	51.4	39.3	73.3	Chaseline Level	15	IN/A	Traine
				14:35	59.3	61.5	51.0	Ī					
				14:40	61.7	63.5	51.8	Ī					
				14:15	61.4	64.0	49.3						
				14:20	61.8	64.3	49.8	Ī					
40 Nov. 2004	13 Nov 2024 Cloudy 0.6 94.	94.1	14:25	60.1	62.3	48.0	62.3	73.3	<baseline level<="" td=""><td rowspan="2">75</td><td>NT/A</td><td rowspan="3">Traffic</td></baseline>	75	NT/A	Traffic	
13 NOV 2024		34.1	14:30	63.4	65.4	52.4	02.3	75.5	CDaseline Level		N/A		
			14:35	63.0	64.6	50.5							
				14:40	63.0	64.8	49.4	Ī					
				16:00	60.4	62.4	49.3						
				16:05	60.4	63.2	49.2						
21 Nov 2024	Cloudy	0.2	94.1	16:10	60.8	63.3	48.5	61.6	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
21 NOV 2024	Cloudy	0.2	34.1	16:15	62.8	65.3	49.4	01.0	73.3	Chaseline Level	73	IN/A	Traine
				16:20	62.7	65.1	49.1						
				16:25	61.6	64.1	47.5						
				16:20	54.9	57.0	51.5						·
				16:25	54.8	56.6	51.9	1					
27 Nov 2024	ov 2024 Sunny 0.0 94.1	94.1	16:30	52.1	54.3	48.5	55.7	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>m oc</td></baseline>	75	N/A	m oc	
2. 1107 2024	Culliny	5.0	0.0 94.1	16:35	53.6	55.5	49.6	55.7	. 0.0	<paseiiile level<="" p=""></paseiiile>	15	IN/A	Traffic
				16:40	54.8	56.9	50.6						
				16:45	59.6	61.3	52.8						

 $^{^{\}star}$ N/A refers to no major construction noise observed during noise monitoring



Day Time (0700 - 1900hrs on normal weekdays)

Location: N12b - 11B Lo Uk Tsuen

	1	ı	1		Measur	ement Noi	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major		
Date	Weather	Wind Speed	Calibration	Time	Leq	L10	L90	Leq	Leq			Construction	Other Noise	
Date	Weather	Willia Speed	Check	Tillie		dB(A), (5		Leq		Leq dB(A), (30-min)	Leq		Source(s)	
	1	1		13:40	69.0	72.4	58.4		Offic.	ab(A), (so min)		Noise Source(s)*		
				13:45	63.1	68.4	58.4							
6 Nov 2024	Sunny	0.0	94.1	13:50 13:55	64.1 66.2	70.0 70.6	56.8 57.9	66.6	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic	
				13:55	66.5	70.6	57.9	•						
				14:05	67.8	70.5	58.5	•						
	1			13:40	66.5	69.4	61.1							
				13:45	60.3	65.9	59.8	•						
	13 Nov 2024 Cloudy 0.3 94.1		0.3 94.1	13:50	62.6	67.2	60.1	•			75		Traffic	
13 Nov 2024		0.3		13:55	64.5	67.3	60.1	64.0	76.8	<baseline level<="" td=""><td>N/A</td></baseline>		N/A		
					14:00	63.0	66.3	60.5						
				14:05	64.4	67.5	59.4	•					ĪII	
				13:35	66.7	71.0	59.3							
				13:40	63.8	69.0	59.0	•						
				13:45	65.8	70.6	58.8							
21 Nov 2024	Cloudy	0.1	94.1	13:50	66.0	69.3	60.6	65.0	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic	
				13:55	61.5	66.6	60.3	•						
				14:00	64.0	68.0	59.9							
				14:50	70.4	74.4	54.5							
				14:55	64.9	69.7	56.3							
				15:00	65.1	71.2	52.0	1					l	
27 Nov 2024	27 Nov 2024 Sunny 0.0	.0 94.1	15:05	66.8	72.6	54.6	68.4	68.4 76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic		
				15:10	69.5	73.2	55.6	1						
				15:15	70.1	74.5	56.1	1						
	1	1	i	15:15	70.1	/4.5	56.1			I		1		

^{*} N/A refers to no major construction noise observed during noise monitoring



Day Time (0700 - 1900hrs on normal weekdays)

Location: N13 - 74 Pui O San Wai Tsuen

Date	Weather	Wind Speed	Calibration Check	Time	Measurement Noise Level		Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Od N	
					Leq	L10	L90	Leq	Leq	Lea	Leq	Construction	Other Noise
					Unit: dB(A), (5-min)				Noise Source(s)*	Source(s)			
6 Nov 2024	Sunny	0.0	94.1	11:30	65.2	68.6	53.9	64.8	73.6	<baseline level<="" td=""><td rowspan="6">75</td><td rowspan="6">N/A</td><td rowspan="6">Demolation works at Restaurant</td></baseline>	75	N/A	Demolation works at Restaurant
				11:35	65.0	69.0	55.5						
				11:40	63.6	67.3	53.6						
				11:45	65.0	68.9	55.0						
				11:50	65.2	69.0	54.6						
				11:55	64.7	69.4	54.1						
13 Nov 2024		0.4	94.1	11:30	67.6	71.9	58.1	65.4	73.6	<baseline level<="" td=""><td rowspan="6">75</td><td rowspan="6">N/A</td><td rowspan="6">Demolation works at Restaurant</td></baseline>	75	N/A	Demolation works at Restaurant
	Cloudy			11:35	62.9	65.3	57.2						
				11:40	64.7	68.8	56.9						
				11:45	64.1	68.1	58.7						
				11:50	65.9	69.8	58.8						
				11:55	65.8	70.8	57.8						
	Cloudy	0.1	94.1	14:10	67.2	71.1	56.2	65.7	73.6	<baseline level<="" td=""><td rowspan="6">75</td><td rowspan="6">N/A</td><td rowspan="6">Demolation works at Restaurant</td></baseline>	75	N/A	Demolation works at Restaurant
21 Nov 2024				14:15	64.1	67.7	55.6						
				14:20	65.2	70.2	55.1						
				14:25	66.4	71.1	58.0						
				14:30	64.7	68.0	57.5						
				14:35	66.0	71.0	57.2						
27 Nov 2024	Sunny	0.0	94.1	14:10	61.5	63.6	48.2	63.5	73.6	<baseline level<="" td=""><td rowspan="6">75</td><td rowspan="6">N/A</td><td rowspan="6">Demolation works at Restaurant</td></baseline>	75	N/A	Demolation works at Restaurant
				14:15	65.9	71.5	52.2						
				14:20	60.9	64.8	48.7						
				14:25	64.5	68.6	50.6						
				14:30	63.5	66.9	49.6						
				14:35	62.6	66.4	48.7						

^{*} N/A refers to no major construction noise observed during noise monitoring



Day Time (0700 - 1900hrs on normal weekdays)

Location: N14 - South Lantau Community Centre

Date	Weather	Wind Speed	Calibration Check	Time	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Other
					Leq L10 L90			Leq	Leq	Leq	Leq	Constructio	Noise
					Unit: dB(A), (5-min)		Unit: dB(A), (30-min)				n Noise	Source(
6 Nov 2024	Sunny	0.0	94.1	10:55	57.2	59.4	54.4	58.6	62.2	<baseline level<="" td=""><td rowspan="6">75</td><td></td><td></td></baseline>	75		
				11:00	58.0	60.4	56.0					Fan, Excavating	Traffic
				11:05	59.6	61.2	55.7						
				11:10	59.6	61.2	55.0						
				11:15	59.4	61.3	55.9						
				11:20	57.1	58.7	54.6						
13 Nov 2024	Cloudy	0.5	94.1	10:55	61.7	63.0	60.6	62.2	62.2	39	75	Excavating	Traffic
				11:00	62.2	63.8	61.5						
				11:05	61.7	62.3	60.2						
				11:10	63.5	64.6	60.1						
				11:15	62.3	63.8	61.1						
				11:20	61.6	62.9	60.9						
21 Nov 2024	Cloudy	0.2	94.1	14:35	60.7	62.2	57.2	61.5	62.2	<baseline level<="" td=""><td rowspan="6">75</td><td rowspan="6">Excavating</td><td rowspan="6">Traffic</td></baseline>	75	Excavating	Traffic
				14:40	60.7	62.5	58.6						
				14:45	59.3	60.3	56.7						
				14:50	62.9	64.3	60.5						
				14:55	62.4	64.0	61.3						
				15:00	62.0	63.1	60.6						
27 Nov 2024		0.0	94.1	9:50	51.6	54.9	47.0	54.0	62.2	<baseline level<="" td=""><td rowspan="5">75</td><td rowspan="5">Excavating</td><td rowspan="5">Traffic</td></baseline>	75	Excavating	Traffic
				9:55	52.8	55.6	49.0						
	Sunny			10:00	56.1	58.9	50.4						
	Suriny			10:05	54.5	56.9	48.3						
				10:10	55.6	58.1	49.3						
				10:15	51.3 53.8 47.6		1	İ	l				

^{*} N/A refers to no major construction noise observed during noise monitoring



Day Time (0700 - 1900hrs on normal weekdays)

Location: N15b - Pole in front of 7A Pui O Lo Wai Tsuen

			Calibration		Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level	Major	
Date	Weather	Wind Speed	Calibration	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction Noise	Other Noise Source(s)
			CHECK		Unit	: dB(A), (5	-min)		Unit:	dB(A), (30-min)	•	Source(s)*	
				15:00	67.4	71.6	60.4						
				15:05	67.6	70.5	58.8						
6 Nov 2024	Sunny	0.0	94.1	15:10	66.0	70.0	58.7	66.8	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
01407 2024	Suriny	0.0	34.1	15:15	67.1	70.8	58.2	00.0	70.7	CDasellile Level	73	IN/A	Traine
				15:20	65.5	69.0	58.8						
				15:25	67.0	70.2	59.3						
				15:00	70.9	74.6	66.0						
				15:05	69.5	72.5	66.0						
13 Nov 2024	Cloudy	0.6	94.1	15:10	70.3	74.1	65.7	70.3	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
13 NOV 2024	Oloudy	0.0	15:15 71.2 73.8 63.6		13	IN/A	Traine						
				15:20	68.8	70.9	64.1						
				15:25	70.5	72.6	65.8						
				14:05	69.8	74.0	62.2						
				14:10	68.2	72.0	62.4						
21 Nov 2024	Cloudy	0.3	94.1	14:15	69.4	73.6	62.4	70.3	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
21 1407 2024	Oloudy	0.0	04.1	14:20	71.9	75.7	65.0	70.5	70.7	CDascille Ecvel	13	IVA	Hanne
				14:25	70.2	72.9	65.3						
				14:30	71.3	74.4	66.5						
				11:10	63.3	67.8	53.6						
				11:15	64.2	67.3	50.4						
27 Nov 2024	ov 2024 Sunny 0.0	94.1	11:20	60.0	64.4	50.5	62.5	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic	
27 1137 2024		5-1.1	11:25	62.2	66.6	51.2	32.0	. 5.7	ADGOOMIC LOVE		IN/A	TIATHC	
				11:30	61.3	65.4	52.5						
				11:35	62.6	67.0	51.3	1					

^{*} N/A refers to no major construction noise observed during noise monitoring



Day Time (0700 - 1900hrs on normal weekdays)

Location: N16a - Light pole in front of House E, Southern Comfort, Ham Tin

			Calibration		Measur	ement No	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Other Noise
Date	Weather	Wind Speed	Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction	Source(s)
			Officer		Unit:	dB(A), (5	-min)		Unit:	dB(A), (30-min)		Noise Source(s)*	Source(s)
				9:45	56.1	58.7	51.1						
				9:50	54.9	57.9	51.0						
6 Nov 2024	Sunny	0.1	94.1	9:55	53.7	55.9	51.5	54.6	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
01101 2021	Curiny	0.1	01.1	10:00	54.1	56.7	50.6	54.0	00.1	CDASCIIIC ECVCI	75	IVA	Hanne
				10:05	54.3	57.2	50.7						
				10:10	54.2	56.1	50.9						
				9:45	57.9	60.3	51.2						
				9:50	56.5	58.7	51.1						
13 Nov 2024	Cloudy	0.9	94.1	9:55	52.3	54.8	50.6	55.5	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
10 1101 202 1	Cioday	0.0	01.1	10:00	56.1	58.5	51.3	00.0	00.1	ADGOMINO EOVO		IVA	Traine
				10:05	54.6	56.9	49.8						
				10:10	53.4	55.1	49.5						
				13:30	55.5	58.3	49.4						
				13:35	55.0	57.9	49.6						
21 Nov 2024	Cloudy	0.5	94.1	13:40	52.1	54.8	49.5	54.7	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
	,			13:45	56.6	59.1	49.8					1071	1111110
				13:50	54.8	57.7	49.2						
				13:55	52.1	54.3	49.1						
				14:25	53.1	55.5	50.3						
				14:30	52.7	55.4	49.3						
27 Nov 2024	v 2024 Sunny 0.0	94.1	14:35	53.4	55.5	50.9	52.8	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic	
			14:40	51.3	53.2	48.8						2144110	
				14:45	52.6	55.9	50.2						
		1	1	14:50	53.4	55.8	51.5			1			

^{*} N/A refers to no major construction noise observed during noise monitoring



Day Time (0700 - 1900hrs on normal weekdays)

Location: N16b - Fence in front of 7E Ham Tin San Tsuen, Ham Tin

			Calibration		Measur	ement Noi		Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Other Noise
Date	Weather	Wind Speed	Calibration	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construct	Source(s)
			Oncor		Unit	: dB(A), (5	-min)		Unit:	dB(A), (30-min)		ion Noise	Source(s)
				10:20	56.4	59.7	48.9						
				10:25	51.7	53.5	48.0						
6 Nov 2024	Sunny	0.0	94.1	10:30	54.5	56.4	48.0	54.2	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
01101 2021	Outliny	0.0	0	10:35	53.8	55.7	47.9	04.2	00.0	CDASCINC ECVCI	75	IN/A	Hanne
				10:40	54.3	56.6	48.6						
				10:45	52.7	57.6	48.2						
				10:20	54.8	57.3	50.2						
				10:25	50.1	52.7	49.8						
13 Nov 2024	Cloudy	Cloudy 0.0	94.1	10:30	55.4	58.0	50.6	53.2	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
10 140 2024	Cioday		0	10:35	52.6	55.0	49.3	00.2	00.0	CDASCING ECVCI	75	IN/A	Hanne
				10:40	53.1	55.6	50.1						
				10:45	50.9	53.9	49.9						
				14:43	53.6	56.3	47.9						
				14:48	50.9	54.2	48.2						
21 Nov 2024	Cloudy	0.0	94.1	14:53	53.2	57.2	48.4	52.3	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
21 1404 2024	Cioday	0.0	0	14:58	52.9	55.3	48.2	02.0	00.0	CDASCINC ECVCI	75	IN/A	Hanne
				15:03	50.3	53.1	48.8						
				15:08	52.0	55.4	49.1						
				10:25	56.8	60.9	46.9						
				10:30	51.8	52.8	45.5						
27 Nov 2024	27 Nov 2024 Sunny 0.0	94.1	10:35	52.5	53.5	44.2	54.0	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic	
2. 1107 2024		2.0		10:40	53.6	55.8	45.6	00	55.0	S S S S S S S S S S S S S S S S S S S	.0	IN/A	Hallic
				10:45	54.1	56.3	46.3						
			10:50	53.5	59.6	45.3							

^{*} N/A refers to no major construction noise observed during noise monitoring



Day Time (0700 - 1900hrs on normal weekdays)

Location: N17 - Bui O Public School

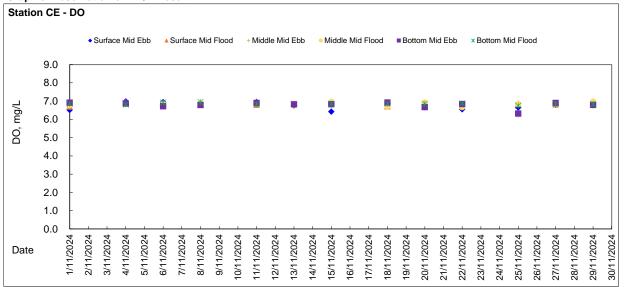
			Calibration		Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level	Major	
Date	Weather	Wind Speed	Calibration	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction Noise	Other Noise Source(s)
			Crieck		Unit	dB(A), (5	-min)		Unit:	dB(A), (30-min)		Source(s)*	
				13:00	57.5	59.1	54.3						
				13:05	56.4	58.4	54.3						
6 Nov 2024	Sunny	0.0	94.1	13:10	54.2	56.6	52.1	56.6	62.3	<baseline level<="" td=""><td>65</td><td>N/A</td><td>T CC</td></baseline>	65	N/A	T CC
0 NOV 2024	Suriny	0.0	34.1	13:15	55.6	57.5	51.9	50.0	62.3	<daseille level<="" td=""><td>65</td><td>N/A</td><td>Traffic</td></daseille>	65	N/A	Traffic
				13:20	57.8	59.0	54.8	1					
				13:25	57.2	59.1	54.3	1					
				13:00	58.5	60.5	56.0						
				13:05	57.0	58.9	55.4	1					
40.11 0004	Cloudy	0.0	04.4	13:10	55.3	58.3	54.4	57.3	62.3	<baseline level<="" td=""><td>65</td><td>27/1</td><td>m ee</td></baseline>	65	27/1	m ee
13 Nov 2024	Cloudy	0.0	94.1 13:15 56.6 5		59.2	53.8	57.5	62.3	<daseille level<="" td=""><td>65</td><td>N/A</td><td>Traffic</td></daseille>	65	N/A	Traffic	
				13:20	58.9	60.2	56.7	1					
				13:25	56.5	58.6	54.2	1					
				15:10	56.7	59.0	53.1						
				15:15	57.0	58.6	54.5	1					
	Cloudy	0.0	94.1	15:20	55.9	58.3	53.6	56.7	62.3	<baseline level<="" td=""><td>70</td><td>27/1</td><td>m ee</td></baseline>	70	27/1	m ee
21 Nov 2024	Cloudy	0.0	94.1	15:25	57.5	59.9	54.1	56.7	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
				15:30	57.3	59.5	55.8						
				15:35	55.2	58.0	53.6	1					
				10:25	54.9	57.0	51.5						
				10:30	54.8	56.6	51.9						
	2024 Sunny 0.0		10:35	52.1	54.3	48.5	54.7	00.0	Deceller Level	70			
27 Nov 2024		94.1	10:40	53.4	55.2	49.3	54.7	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic	
				10:45	55.1	56.8	52.0	1					
				10:50	56.5	58.4	53.2	1					

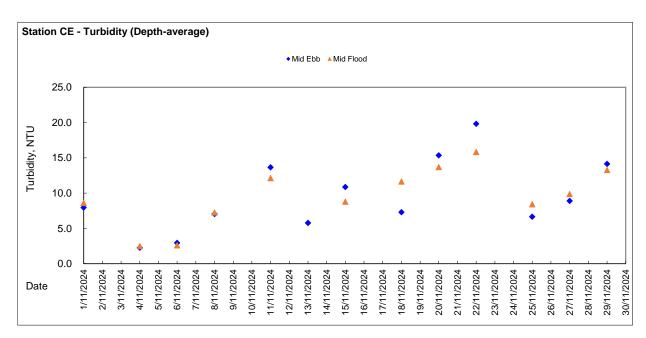
^{*} N/A refers to no major construction noise observed during noise monitoring

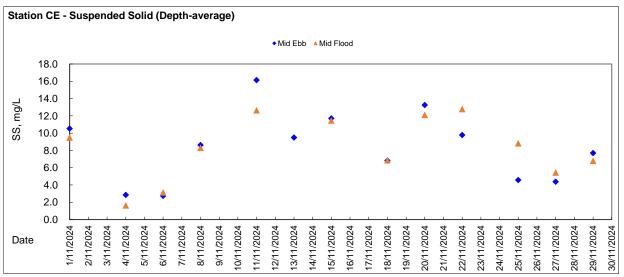
Appendix 4.4

Marine Water Quality Monitoring Results and Graphical Presentations

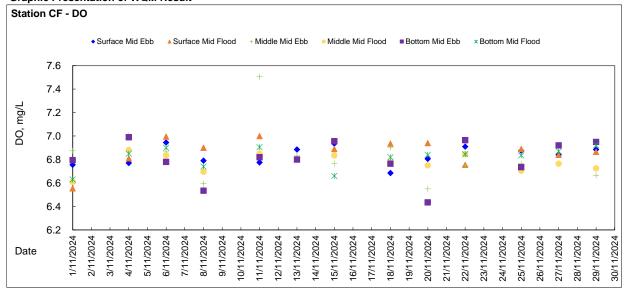


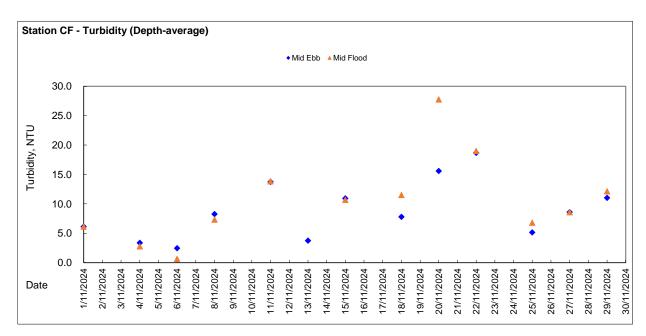


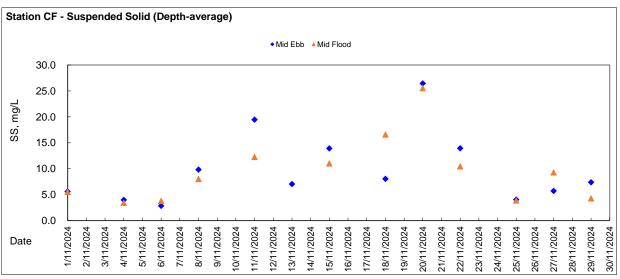






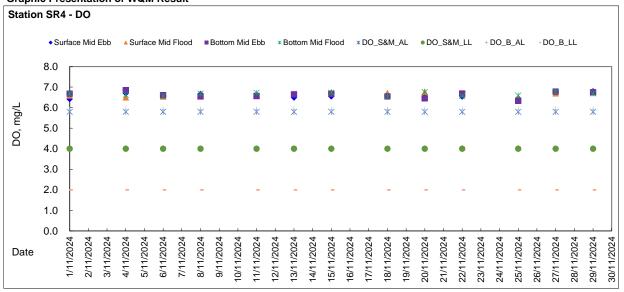


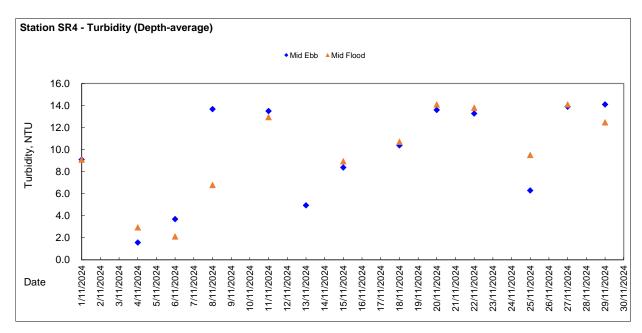


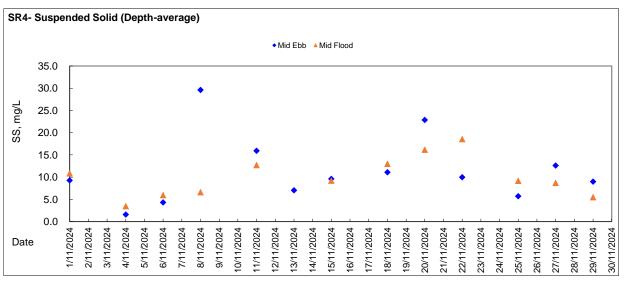




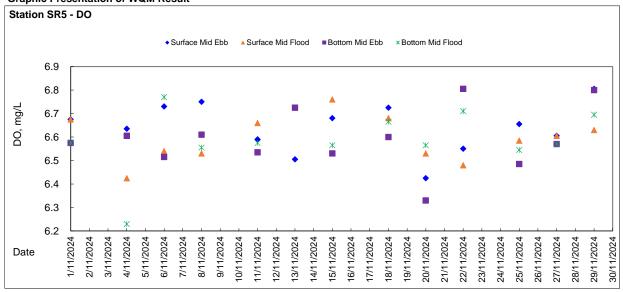


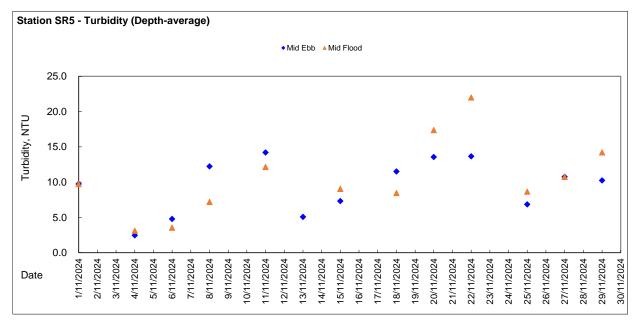


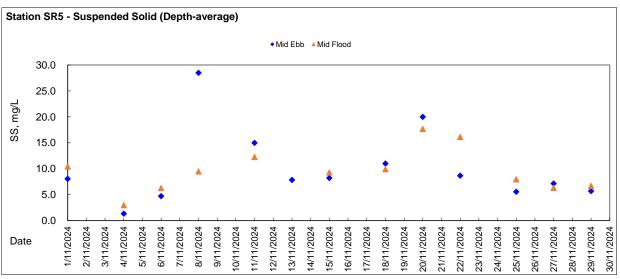




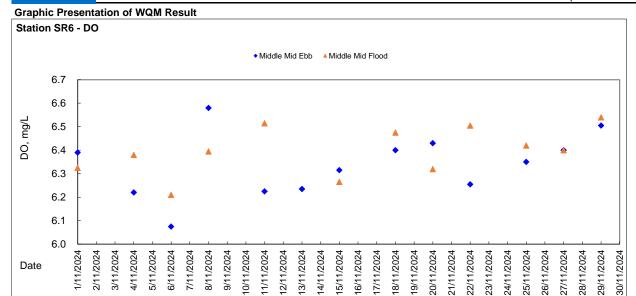


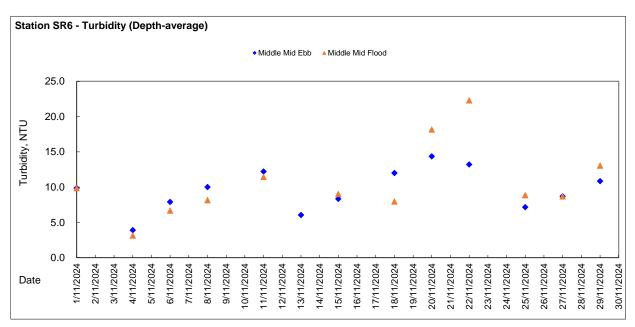


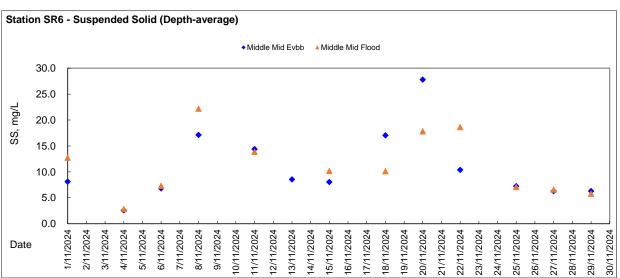




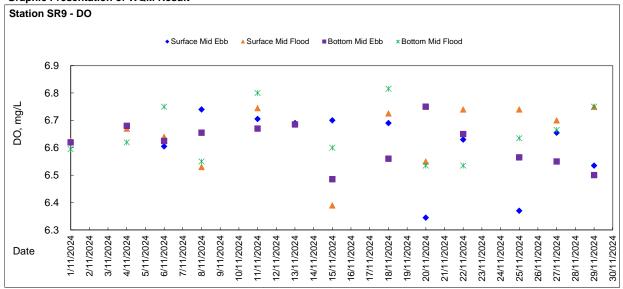


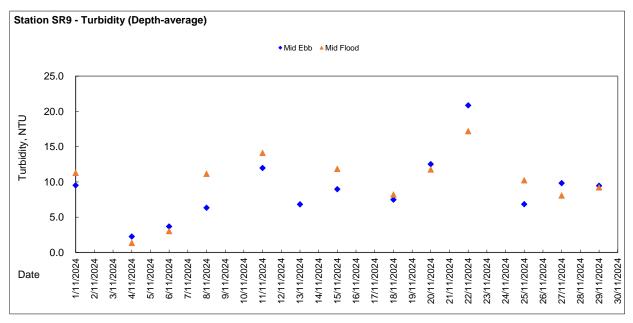


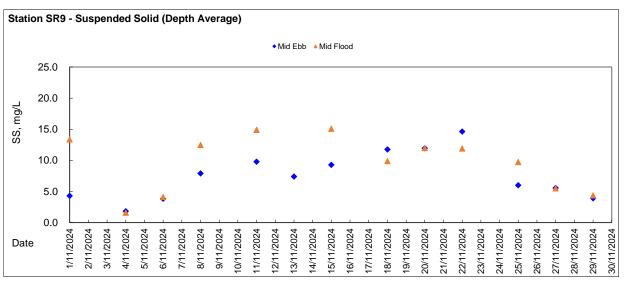




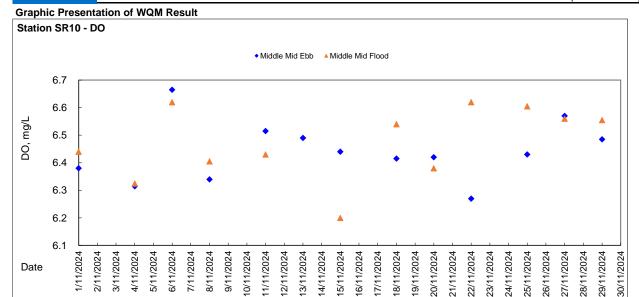


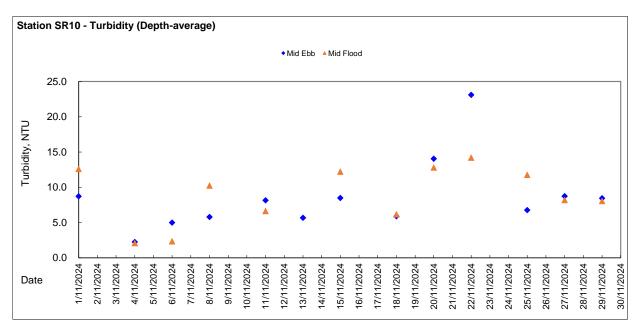


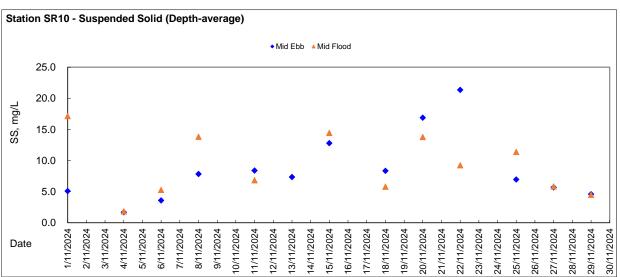




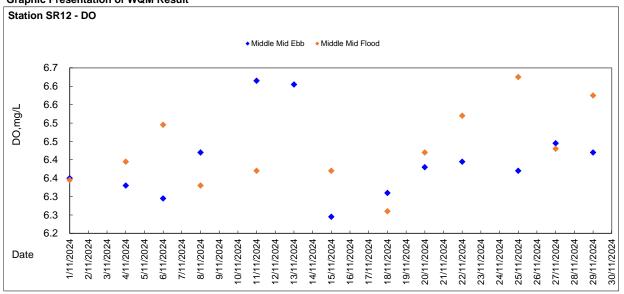


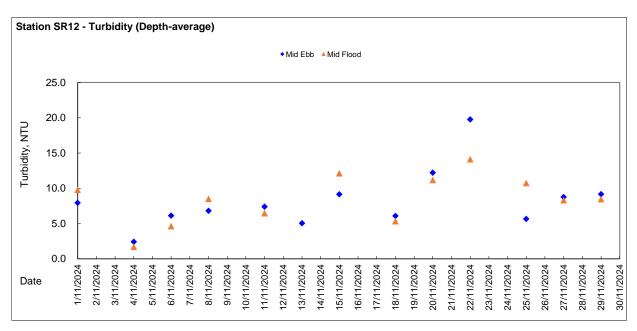


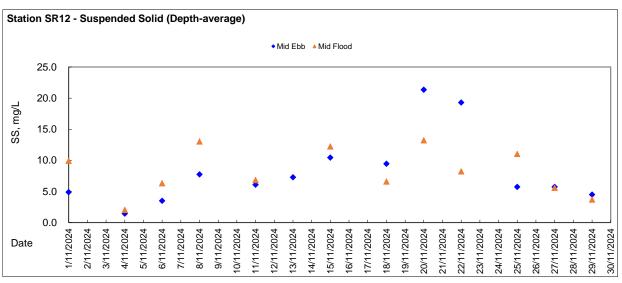




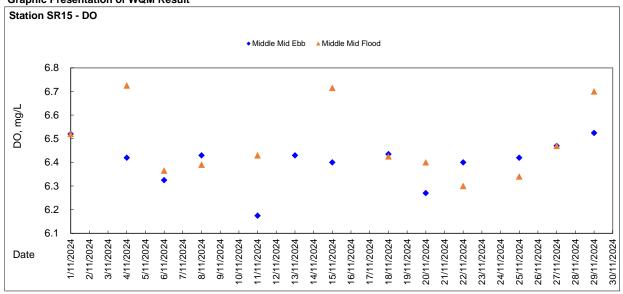


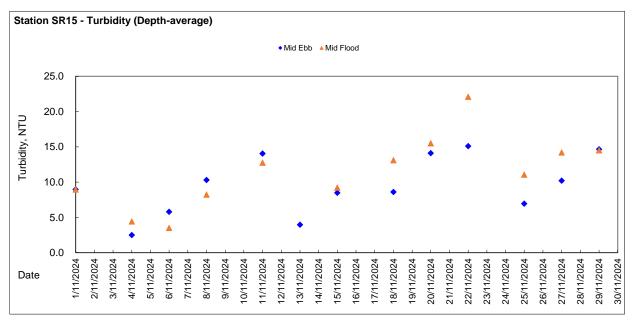


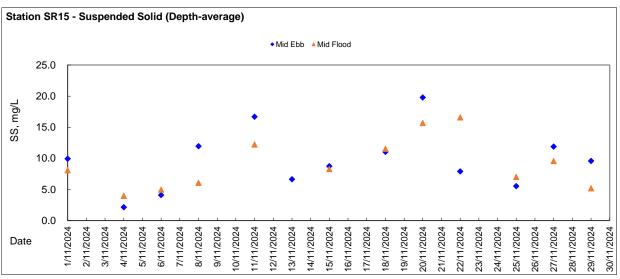












Impact Water Quality Monitoring at Station SR4 (surface) - Ebb Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth		С				ppt		%	m			TU		ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	18:09	3.7	1.0	26.40	26.39	7.76	7.75	33.76	33.70	83.30	83.95	6.40	6.42	8.68	8.82	9.0	9.0
	1711/2024	Gloddy	18:10	3.7	1.0	26.37	20.00	7.74	7.70	33.63	00.70	84.60	00.00	6.44	0.42	8.95	0.02	9.0	0.0
	4/11/2024	Cloudy	13:53	3.8	1.0	26.39	26.25	7.81	7.81	34.67	34.59	98.00	98.75	6.68	6.70	1.92	1.56	1.8	
	471172024	Cioday	13:54	3.8	1.0	26.10	20.20	7.81	7.01	34.51	04.00	99.50	50.75	6.72	0.70	1.20	1.00	1.6	
	6/11/2024	Cloudy	15:08	4.0	1.0	26.73	26.79	7.84	7 84	33.79	33.70	97.30	97 65	6.50	6.57	2.79	2.91	5.6	5.1
	0/1//2024	Gloddy	15:09	4.0	1.0	26.84	20.70	7.83	7.04	33.61	00.70	98.00	51.00	6.63	0.01	3.02	2.01	4.5	0.1
	8/11/2024	Fine	7:05	3.6	1.0	25.28	25.29	7.96	7.96	34.67	34 60	97.30	97.65	6.56	6.66	13.60	13.97	45.3	41.9
	0/11/2024	1110	7:06	3.6	1.0	25.30	25.25	7.96	7.50	34.53	34.00	98.00	57.05	6.76	0.00	14.34	13.87	38.4	41.0
	11/11/2024	Cloudy	7:38	3.8	1.0	24.98	25.02	7.64	7 65	34.17	34.08	88.40	89.30	6.61	6.62	12.60	12.90	15.9	16.0
	11/11/2024	Gloddy	7:39	3.8	1.0	25.05	20.02	7.66	7.00	33.99	04.00	90.20	05.50	6.63	0.02	13.20	12.50	16.0	10.0
	13/11/2024	Rainv	9:27	3.8	1.0	25.82	25.78	7.63	7.63	33.80	33.77	96.90	96.35	6.50	6.49	5.19	5.07	7.0	6.8
	13/11/2024	Rainy	9:28	3.8	1.0	25.73	25.70	7.62	7.00	33.74	33.11	95.80	90.33	6.48	0.43	4.95	3.07	6.5	0.0
SR4	15/11/2024	Rainv	10:57	2.8	1.0	25.73	25.71	7.74	7.73	34.24	34.32	96.90	96.15	6.59	6.55	7.83	7.92	10.6	10.0
0114	10/11/2024	rearry	10:58	2.8	1.0	25.68	20.71	7.72	7.70	34.40	04.02	95.40	50.10	6.50	0.00	8.00	7.02	9.4	
	18/11/2024	Fine	14:10	3.8	1.0	26.13	26.07	7.89	7 90	33.82	33.90	97.70	96.65	6.70	6.63	8.27	8 28	10.8	10.1
	10/11/2024	1110	14:11	3.8	1.0	26.00	20.07	7.90	7.50	33.97	33.80	95.60	90.03	6.55	0.03	8.29	0.20	9.3	10.1
	20/11/2024	Cloudy	15:09	3.8	1.0	23.58	23.61	7.92	7 92	33.62	33.67	92.40	91.65	6.56	6.53	14.00	13.65	18.4	18.7
	20/11/2024	Gloddy	15:10	3.8	1.0	23.64	20.01	7.92	7.02	33.71	00.07	90.90	01.00	6.50	0.00	13.30	10.00	19.0	
	22/11/2024	Fine	7:12	3.5	1.0	22.90	23.02	7.60	7 60	33.78	33.70	92.10	91.35	6.58	6.54	13.20	13.60	9.5	10.1
	ED 11/EOE4	1110	7:13	3.5	1.0	23.14	20.02	7.60	7.00	33.62	00.70	90.60	01.00	6.50	0.04	14.00	10.00	10.7	10.1
	25/11/2024	Fine	7:48	3.7	1.0	23.94	24.03	7.58	7.58	33.89	33.94	92.30	92.35	6.45	6.46	6.73	6.27	5.7	5.7
	20/11/2024	1110	7:49	3.7	1.0	24.12	24.00	7.58	7.00	33.99	00.04	92.40	02.00	6.46	0.40	5.81	0.21	5.6	
	27/11/2024	Fine	9:32	3.9	1.0	21.89	21.96	7.84	7.84	33.74	33.83	93.40	93.35	6.71	6.70	13.50	14.10	13.0	11.6
	21711/2024		9:33	3.9	1.0	22.02	21.50	7.84	7.04	33.91	33.03	93.30	33.33	6.68	0.70	14.70	14.10	10.1	11.0
	29/11/2024	Fine	10:45	3.9	1.0	20.76	20.66	7.54	7.54	33.97	33.89	92.40	92.30	6.81	6.80	14.90	15.45	9.0	9.0
	20/11/2024	1.116	10:46	3.9	1.0	20.55	20.00	7.54	7.54	33.80	33.09	92.20	82.30	6.79	0.00	16.00	15.45	9.0	5.0

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station SR4 (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	aturation		00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С				pt		%	m	g/L	N'	TU	n	ng/L
	Date		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	18:09	3.7	1.0	26.40	26.39	7.76	7.75	33.76	33.70	83.30	83.95	6.56	6.59	8.68	8.82	13.3	10.9
	171172024	Oloudy	18:10	3.7	1.0	26.37	20.00	7.74	1.70	33.63	00.10	84.60	00.00	6.61	0.00	8.95	0.02	8.4	
	4/11/2024	Cloudy	8:06	3.5	1.0	25.60	25.62	7.66	7 68	33.70	33.66	96.80	97.70	6.50	6.50	3.19	3.01	3.7	
		,	8:07	3.5	1.0	25.63		7.69		33.61		98.60		6.50		2.82		3.5	
	6/11/2024	Cloudy	8:45	3.8	1.0	27.14	27.05	7.78	7.79	33.45	33.47	97.50	97.95	6.50	6.54	2.36	2.22	4.6	
	0/11/2024	Oloudy	8:46	3.8	1.0	26.95	27.00	7.79	1	33.49	00.41	98.40	07.00	6.58	0.04	2.07		4.1	
	8/11/2024	Fine	16:50	3.8	1.0	24.92	24.93	7.96	7.96	34.12	34.10	89.00	88.40	6.58	6.55	6.04	6.21	6.5	6.5
	0/11/2024	Time	16:51	3.8	1.0	24.94	24.00	7.96	7.50	34.07	04.10	87.80	00.40	6.52	0.00	6.37	0.21	6.4	0.0
	11/11/2024	Cloudy	15:42	3.5	1.0	25.59	25.54	7.75	7.76	34.20	34.21	89.20	89.10	6.57	6.57	13.20	13.05	12.0	
	11/11/2024	Oloudy	15:43	3.5	1.0	25.49	20.04	7.76	1.70	34.22	04.21	89.00	00.10	6.56	0.01	12.90	10.00	12.9	
	13/11/2024	Strong Wind Signal, No. 3							WQM	was cancell	ed due to ad	verse weath	ner						
SR4	15/11/2024	Cloudy	17:27	2.9	1.0	25.42	25.46	7.85	7.86	34.12	34.01	96.20	95.40	6.79	6.75	8.94	9.03	11.2	10.1
0114	13/11/2024	Cioudy	17:28	2.9	1.0	25.49	23.40	7.86	7.00	33.90	34.01	94.60	55.40	6.71	0.73	9.12	9.00	8.9	10.1
	18/11/2024	Fine	8:32	3.5	1.0	25.40	25.44	7.62	7.62	34.47	34.35	99.20	98.30	6.73	6.71	8.69	8.72	12.5	12.2
	10/11/2024	11110	8:33	3.5	1.0	25.47	23.44	7.62	7.02	34.23	34.33	97.40	30.30	6.69	0.71	8.75	0.72	11.8	1
	20/11/2024	Cloudy	9:32	3.4	1.0	23.13	23.12	7.88	7.88	33.42	33.41	89.20	88.05	6.78	6.77	14.40	14.25	18.4	16.4
	20/11/2024	Cioudy	9:33	3.4	1.0	23.11	23.12	7.87	7.00	33.40	33.41	86.90	00.03	6.76	0.77	14.10	14.23	14.4	10.4
	22/11/2024	Fine	15:18	3.7	1.0	22.56	22.72	7.73	7 74	34.19	34.20	93.90	93.55	6.69	6.68	14.90	13.55	17.8	18.4
	ED 11/2024	Time	15:19	3.7	1.0	22.87	22.72	7.74	7.74	34.20	04.20	93.20	55.55	6.66	0.00	12.20	10.00	18.9	
	25/11/2024	Fine	15:22	3.4	1.0	23.42	23.47	7.84	7.84	33.56	33.65	90.00	90.90	6.40	6.45	8.87	8.83	10.4	
	20/11/2024	1 1110	15:23	3.4	1.0	23.52	20.41	7.84	1.04	33.73	00.00	91.80	50.50	6.50	0.40	8.79	0.00	9.2	
	27/11/2024	Fine	9:32	3.9	1.0	21.89	21.96	7.84	7 84	33.74	33.83	93.40	93.35	6.71	6.70	14.50	14.15	9.0	
	2	· mo	9:33	3.9	1.0	22.02	21.00	7.84	7.04	33.91	30.00	93.30	50.00	6.68	0.70	13.80	14.10	7.5	
	29/11/2024	Fine	16:51	3.4	1.0	20.17	20.20	7.94	7.94	33.79	33.85	90.80	91.45	6.75	6.79	12.10	11.85	5.8	
			16:52	3.4	1.0	20.23		7.94		33.90		92.10		6.82		11.60		6.0	

Impact Water Quality Monitoring at Station SR4 (Bottom) - Ebb Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			p	pt		%	m		N'	TU	m	g/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	18:11	3.7	2.7	26.24	26.29	7.73	7.74	33.54	33.62	85.80	85.55	6.70	6.68	9.43	9.36	9.9	9.6
	171172024	Oloudy	18:12	3.7	2.7	26.33	20.20	7.75	1.74	33.69	00.02	85.30	00.00	6.66	0.00	9.28	0.00	9.2	
	4/11/2024	Cloudy	13:55	3.8	2.8	26.67	26.61	7.80	7.81	34.41	34.33	100.80	101.10	6.83	6.85	1.29	1.57	1.4	1.5
		,	13:56	3.8	2.8	26.55		7.82		34.24	0	101.40		6.86		1.84		1.6	
	6/11/2024	Cloudy	15:11	4.0	3.0	26.51	26 44	7.82	7.83	34.28	34.38	96.80	98.05	6.57	6.61	4.43	4 49	3.1	3.6
		,	15:12	4.0	3.0	26.37		7.83		34.47	0	99.30		6.65		4.54		4.1	
	8/11/2024	Fine	7:07	3.8	2.8	25.18	25.19	7.95	7.96	34.24	34.31	96.60	97.10	6.52	6.55	12.90	13.38	20.1	17.4
	**********		7:08	3.6	2.6	25.19		7.96		34.37		97.60		6.58		13.85		14.7	
	11/11/2024	Cloudy	7:40	3.8	2.8	24.99	25.01	7.65	7.66	34.25	34.15	84.50	84.25	6.59	6.57	13.90	14.10	16.5	16.0
		,	7:41	3.8	2.8	25.02		7.66		34.04	•	84.00	0	6.55	0.0.	14.30		15.4	
	13/11/2024	Rainv	9:29	3.8	2.8	25.86	25.85	7.63	7.63	34.13	34.08	98.30	97.70	6.66	6.65	4.73	4.80	7.1	7.4
			9:30	3.8	2.8	25.84		7.63		34.02		97.10		6.64		4.87		7.6	
SR4	15/11/2024	Rainy	10:58	3.8	1.8	25.63	25.61	7.74	7.74	33.89	33.94	98.70	97.70	6.75	6.68	8.94	8.83	8.6	9.3
		-	10:59	2.8	1.8	25.58		7.73		33.99		96.70		6.60		8.71		9.9	
	18/11/2024	Fine	14:12	3.8	2.8	26.41	26.39	7.87	7.88	34.13	34.19	96.80	96.65	6.56	6.55	12.10	12.50	11.7	12.2
			14:13	3.8	2.8	26.37		7.88		34.25		96.50		6.53		12.90		12.6	
	20/11/2024	Cloudy	15:11	3.8	2.8	23.74	23.67	7.92	7.93	34.12	34.06	90.60	90.10	6.48	6.45	12.90	13.55	30.2	27.1
			15:12	3.8	2.8	23.59		7.93		34.00		89.60		6.42		14.20		23.9	
	22/11/2024	Fine	7:14	3.5	2.5	22.94	22.90	7.62 7.61	7.62	33.54	33.58	93.40	92.80	6.74	6.69	12.00	12.95	9.9	9.9
			7:15	3.5	2.5	22.86				33.61				6.64		13.90		9.9	
	25/11/2024	Fine	7:50	3.7	2.7	23.96	23.98	7.60	7.60	34.12	34.03	90.20	89.40	6.37	6.33	6.47	6.30	6.6	5.8
			7:51	3.7	2.7	23.99		7.60		33.94		88.60		6.29		6.12		5.0	
	27/11/2024	Fine	9:34 9:35	3.9	2.9	21.73	21.78	7.87 7.86	7.87	34.01 33.97	33.99	94.10	94.05	6.79	6.78	13.40	13.60	15.2 12.2	13.7
	29/11/2024	Fine	10:47	3.9	2.9	19.45	19.57	7.71	7.71	34.21	34.29	91.90	92.05	6.72	6.75	13.60	12.75	8.7	9.0
			10:48	3.9	2.9	19.69	l .	7.70	1	34.37		92.20		6.77	l .	11.90	I	9.3	1

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station SR4 (Bottom) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			p	pt	•	%	m			TU		ıg/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	18:11	3.7	2.7	26.24	26.29	7.73	7.74	33.54	33.62	85.80	85.55	6.70	6.68	9.43	9.36	12.1	10.9
	171172024	Oloudy	18:12	3.7	2.7	26.33	20.20	7.75	1.74	33.69	00.02	85.30	00.00	6.66	0.00	9.28	0.00	9.6	
	4/11/2024	Cloudy	8:08	3.5	2.5	25.37	25.48	7.70	7 69	34.19	34.03	99.10	98.35	6.66	6.62	2.76	2.89	3.4	3.4
		,	8:09	3.5	2.5	25.59		7.68		33.86		97.60		6.58	0.00	3.02		3.3	
	6/11/2024	Cloudy	8:47	3.8	2.8	26.92	27.09	7.79	7.80	34.03	34.01	99.90	98.55	6.60	6.57	1.77	2 01	7.8	
		,	8:48	3.8	2.8	27.25		7.81		33.98		97.20		6.54		2.25		7.3	
	8/11/2024	Fine	16:52	3.8	2.8	24.63	24.67	7.98	7.98	34.26	34.20	92.40	92.10	6.70	6.69	7.49	7.36	7.0	
			16:53	3.8	2.8	24.71		7.97		34.14		91.80		6.67		7.23		6.6	
	11/11/2024	Cloudy	15:44	3.5	2.5	25.37	25.33	7.75	7.75	34.16	34.20	90.20	90.90	6.67	6.72	12.30	12.85	12.6	
		1	15:45	3.5	2.5	25.29		7.75		34.24		91.60		6.77		13.40		13.4	
	13/11/2024	Strong Wind Signal, No. 3							WQM	was cancell	ed due to ad	verse weath	er						
SR4	15/11/2024	Cloudy	17:28	2.9	1.9	25.36	25.38	7.86	7.86	34.36	34.32	95.90	95.85	6.73	6.73	8.74	8.86	9.0	8.4
SI(4	13/11/2024	Cioudy	17:29	2.9	1.9	25.40	25.50	7.86	7.00	34.28	34.32	95.80	55.05	6.73	0.73	8.97	0.00	7.8	0.4
	18/11/2024	Fine	8:34	3.5	2.5	25.71	25.65	7.64	7 64	34.39	34.35	96.20	96.10	6.58	6.55	12.40	12.70	14.4	13.9
	10/11/2024	11110	8:35	3.5	2.5	25.59	25.05	7.63	7.04	34.31	34.33	96.00	30.10	6.51	0.55	13.00	12.70	13.3	10.0
	20/11/2024	Cloudy	9:34	3.4	2.4	23.20	23.22	7.88	7 89	33.49	33.50	92.60	92.00	6.72	6.76	13.90	13.95	16.2	16.0
	20/11/2024	Gloudy	9:35	3.4	2.4	23.24	20.22	7.89	7.00	33.50	00.00	91.40	02.00	6.80	0.70	14.00	10.00	15.7	10.0
	22/11/2024	Fine	15:20	3.7	2.7	22.70	22 67	7.74	7 75	33.85	33.76	91.60	92 00	6.55	6.56	13.80	14 00	21.1	18.8
	EE 11/E0E4	1 1110	15:21	3.7	2.7	22.64	22.07	7.75	7.70	33.67	00.10	92.40	02.00	6.57	0.00	14.20	14.00	16.5	
	25/11/2024	Fine	15:24	3.4	2.4	23.37	23.44	7.87	7.87	33.56	33.67	92.60	92.50	6.60	6.60	9.80	10.20	9.0	
			15:25	3.4	2.4	23.50		7.86		33.78		92.40		6.59		10.60		8.2	
	27/11/2024	Fine	9:34	3.9	2.9	21.73	21.78	7.87	7.87	34.01	33.99	94.10	94.05	6.79	6.78	14.40	13.95	9.6	
			9:35	3.9	2.9	21.83		7.86		33.97		94.00		6.77		13.50		8.8	· ·
	29/11/2024	Fine	16:53	3.4	2.4	20.24	20.21	7.96	7.96	34.29	34.24	91.30	90.75	6.72	6.69	12.70	13.10	5.4	5.2
	/===:		16:54	3.4	2.4	20.17	10.2	7.95	1	34.18	, , , , ,	90.20		6.66		13.50		4.9	

Impact Water Quality Monitoring at Station SR5 (surface) - Ebb Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	H	Sa	linity	DO Sa	turation	D	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٥	С			р	pt		%	m	g/L	N'	TU	m	ng/L
	Duic		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	18:00	3.6	1.0	26.18	26.15	7.75	7.77	33.24	33.19	89.40	89.10	6.69	6.68	8.25	8.39	8.4	
	171172024	Oloudy	18:01	3.6	1.0	26.12	20.10	7.79		33.14	00.10	88.80	05.10	6.66	0.00	8.53	0.00	7.1	
	4/11/2024	Cloudy	13:44	4.1	1.0	25.99	26.06	7.83	7.84	34.04	33.96	97.00	97.45	6.59	6.64	2.64	2.36	1.8	
		,	13:45	4.1	1.0	26.13		7.84		33.87		97.90		6.68		2.07		1.1	
	6/11/2024	Cloudy	14:59	4.1	1.0	26.19	26.24	7.80	7.81	34.91	34.87	100.70	100.60	6.73	6.73	3.98	4 11	4.4	
		,	15:00	4.1	1.0	26.28		7.82		34.82	0	100.50		6.73		4.23		3.8	
	8/11/2024	Fine	7:48	3.9	1.0	25.30	25.30	7.94	7.95	34.10	34.12	90.80	91.60	6.74	6.75	11.90	12.15	22.4	17.2
			7:16	3.8	1.0	25.29		7.95		34.14		92.40	000	6.76		12.40		11.9	
	11/11/2024	Cloudy	7:48	3.9	1.0	25.01	25.01	7.68	7.68	34.18	34.22	89.50	89.05	6.64	6.59	12.80	13.35	15.5	
			7:49	3.9	1.0	25.00		7.68		34.26		88.60		6.54		13.90		14.1	_
	13/11/2024	Rainy	9:37	4.0	1.0	25.69	25.71	7.64	7.65	34.50	34.44	94.40	94.90	6.49	6.51	4.44	4.34	7.1	
			9:38	4.0	1.0	25.73		7.65		34.37		95.40		6.52		4.23		7.7	
SR5	15/11/2024	Rainy	11:08	4.0	1.0	25.72	25.78	7.75	7.74	34.53	34.56	97.50	97.75	6.67	6.68	7.25	7.14	9.0	
			11:09	3.9	1.0	25.83		7.73		34.59		98.00		6.69		7.02		8.3	
	18/11/2024	Fine	14:01	4.0	1.0	26.54	26.59	7.86	7.86	34.23	34.22	99.90	99.30	6.77	6.73	11.60	11.25	11.7	
			14:02	4.0	1.0	26.64		7.86		34.20		98.70		6.68		10.90		10.2	
	20/11/2024	Cloudy	14:59	4.0	1.0	23.51	23.58	7.91	7.91	33.84	33.88	89.80	89.30	6.45	6.43	12.70	12.95	14.6	
			15:00	4.0	1.0	23.64		7.90		33.91		88.80		6.40		13.20		13.7	_
	22/11/2024	Fine	7:23 7:24	4.0	1.0	23.48	23.61	7.66	7.67	33.89 34.14	34.02	91.60	90.80	6.63	6.55	14.30	14.10	8.3 9.0	
			7:58	3.9	1.0	24.04		7.67		34.14		94.30		6.63		7.01		6.4	
	25/11/2024	Fine	7:59	3.9	1.0	23.98	24.01	7.62	7.62	33.80	33.81	95.70	95.00	6.68	6.66	6.81	6.91	4.8	5.6
			9:42	4.0	1.0	22.45		7.87		33.78		91.30		6.58		11.50		6.5	
	27/11/2024	Fine	9:42	4.0	1.0	22.45	22.43	7.88	7.88	33.59	33.69	92.40	91.85	6.63	6.61	10.90	11.20	7.8	
			10:55	4.0	1.0	19.99		7.76		34.02		92.40		6.76		9.99		6.6	
	29/11/2024	Fine	10:56	4.0	1.0	19.89	19.94	7.75	7.76	33.97	34.00	92.20	91.75	6.85	6.81	10.20	10.10	5.8	

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Lam Environmental Services Limited

Impact Water Quality Monitoring at Station SR5 (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation		00	Turl	bidity	S	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			F	ppt		%		g/L	N'	TU		ıg/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	18:00	3.6	1.0	26.18	26.15	7.75	7 77	33.24	33.19	89.40	89.30	6.69	6.68	8.25	8.39	8.8	8.4
	1711/2024	Oloudy	18:01	3.6	1.0	26.12	20.10	7.79	1.77	33.14	00.10	89.20	05.00	6.66	0.00	8.53	0.00	8.0	0.4
	4/11/2024	Cloudy	8:17	3.8	1.0	25.70	25.75	7.70	7.71	34.37	34.19	95.60	96.00	6.40	6.43	3.25	3 18	3.5	
	471172024	Oloudy	8:18	3.8	1.0	25.80	20.70	7.71	7.71	34.01	04.10	96.40	50.00	6.45	0.40	3.10	0.10	2.8	
	6/11/2024	Cloudy	8:55	3.8	1.0	27.09	27.06	7.82	7.82	33.84	33.79	98.60	97.65	6.56	6.54	3.16	3.02	6.3	
		,	8:56	3.8	1.0	27.03		7.81		33.73		96.70	01100	6.52		2.87	0.00	5.9	
	8/11/2024	Fine	16:41	4.1	1.0	24.62	24.60	7.96	7 97	34.40	34.48	86.90	88.05	6.48	6.53	6.13	6 19	6.2	
			16:42	4.1	1.0	24.57		7.97		34.56		89.20		6.58	0.00	6.24		6.0	
	11/11/2024	Cloudy	15:32	3.7	1.0	25.21	25.19	7.76	7.77	33.74	33.86	90.80	90.30	6.68	6.66	12.80	12.35	11.7	11.9
		-	15:33	3.7	1.0	25.17		7.77		33.98		89.80		6.64		11.90		12.1	
	13/11/2024	Strong Wind Signal, No. 3							WQM	was cancel	led due to ac	verse weath	er						
SR5	15/11/2024	Cloudy	17:15	4.0	1.0	25.41	25.35	7.85	7.85	33.92	33.95	98.20	98.60	6.74	6.76	9.12	9.25	8.4	8.3
SINO	13/11/2024	Cioudy	17:16	4.0	1.0	25.28	25.55	7.85	7.00	33.98	33.83	99.00	30.00	6.78	0.70	9.37	5.23	8.2	0.0
	18/11/2024	Fine	8:42	3.8	1.0	26.04	25.99	7.75	7.75	34.75	34.44	97.80	97.35	6.71	6.68	8.54	8 59	9.4	9.2
	10/11/2024	1110	8:43	3.8	1.0	25.93	20.00	7.74	7.70	34.12	04.44	96.90	07.00	6.65	0.00	8.64	0.00	9.0	0.2
	20/11/2024	Cloudy	9:42	3.7	1.0	23.13	23.10	7.88	7 89	33.64	33.63	86.90	88.05	6.48	6.53	14.50	13.95	20.0	17.8
		,	9:43	3.7	1.0	23.06		7.89		33.61		89.20		6.58	0.00	13.40		15.6	
	22/11/2024	Fine	15:06	4.2	1.0	23.18	23.14	7.74	7.75	34.25	34.19	91.30	90.35	6.55	6.48	20.00	20.95	16.4	15.7
			15:07	4.2	1.0	23.09		7.75		34.12		89.40		6.41		21.90		15.0	
	25/11/2024	Fine	15:10	3.4	1.0	23.45	23.32	7.85	7.86	33.68	33.60	93.60	92.25	6.67	6.59	8.25	8.22	6.8	
			15:11	3.4	1.0	23.19		7.86		33.51		90.90		6.50		8.18		8.2	
	27/11/2024	Fine	9:42	4.0	1.0	22.45	22.43	7.87	7.88	33.78	33.69	91.30	91.85	6.58	6.61	11.50	11.20	6.2	
			9:43	4.0	1.0	22.40		7.88		33.59		92.40		6.63		10.90		6.6	
	29/11/2024	Fine	16:41 16:42	3.6	1.0	20.47	20.42	7.95 7.96	7.96	33.99	34.05	90.10 89.20	89.65	6.65	6.63	14.40	14.30	6.8	

Impact Water Quality Monitoring at Station SR5 (Bottom) - Ebb Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	ı	Н	Sa	linity	DO Sa	turation	D	0	Turl	bidity	8	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			F	ppt		%	m	g/L	N'	TU		g/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	18:02	3.6	2.6	26.29	26.31	7.80	7.80	33.74	33.81	84.80	84 70	6.59	6.58	10.90	11.05	7.7	8.4
	171172024	Oloudy	18:03	3.6	2.6	26.32	20.01	7.80	7.00	33.88	00.01	84.60	04.70	6.56	0.00	11.20	11.00	9.0	
	4/11/2024	Cloudy	13:47	4.1	3.1	26.24	26 40	7.86	7.86	33.87	33.92	96.90	96.95	6.60	6.61	2.49	2.56	1.3	1.3
	471172024	Oloddy	13:48	4.1	3.1	26.55	20.40	7.85	7.00	33.96	00.02	97.00	50.55	6.61	0.01	2.63	2.00	1.2	
	6/11/2024	Cloudy	15:02	4.1	3.1	26.46	26.42	7.84	7 84	34.56	34.65	97.50	97 60	6.51	6.52	5.64	5 44	4.2	5.4
	0/11/2024	Oloddy	15:03	4.1	3.1	26.37	20.42	7.84	7.04	34.73	04.00	97.70	01.00	6.52	0.02	5.24	0.44	6.5	
	8/11/2024	Fine	7:17	3.8	2.8	25.36	25.34	7.94	7 94	34.07	34.08	89.00	89 55	6.64	6.61	12.60	12 30	39.0	39.9
	0/11/2024	1 1110	7:18	3.8	2.8	25.32	20.04	7.93	7.54	34.09	04.00	90.10	00.00	6.58	0.01	12.00	12.00	40.7	
	11/11/2024	Cloudy	7:50	3.9	2.9	24.79	24 84	7.69	7 69	34.56	34 49	90.20	89.50	6.59	6.54	15.40	15.05	15.8	15.2
	11/11/2024	Cloudy	7:51	3.9	2.9	24.88	24.04	7.69	7.05	34.42	34.45	88.80	08.30	6.48	0.54	14.70	13.03	14.6	10.2
	13/11/2024	Rainv	9:40	4.0	3.0	25.49	25.52	7.64	7 65	34.81	34 79	98.40	98.30	6.73	6.73	5.86	5.79	6.2	8.3
	10/11/2024	rearry	9:41	4.0	2.9	25.54	20.02	7.66	7.00	34.76	04.70	98.20	55.55	6.72	0.70	5.71	0.70	10.4	
SR5	15/11/2024	Rainv	11:10	4.0	2.9	25.92	25.91	7.74	7 74	34.73	34.71	96.80	96.60	6.58	6.53	7.37	7 47	8.4	7.8
Ono	10/11/2024	rearry	11:11	3.9	2.9	25.90	20.01	7.74	7.74	34.69	04.71	96.40	55.55	6.48	0.00	7.56	7.47	7.2	7.0
	18/11/2024	Fine	14:04	4.0	3.0	26.81	26.77	7.86	7.85	33.89	34.00	98.90	98 15	6.69	6.60	11.40	11.75	10.7	11.1
	10/11/2024	1 1110	14:05	4.0	3.0	26.73	20.77	7.84	7.00	34.10	04.00	97.40	55.15	6.51	0.00	12.10	11.70	11.4	
	20/11/2024	Cloudy	15:02	4.0	3.0	23.74	23.61	7.93	7.93	33.88	33.86	87.60	87.10	6.35	6.33	14.30	14.15	26.7	25.9
	20/11/2024	Oloddy	15:03	4.0	3.0	23.48	20.01	7.92	7.50	33.84	00.00	86.60	07.10	6.31	0.00	14.00	14.10	25.0	20.0
	22/11/2024	Fine	7:26	4.0	3.0	23.74	23.63	7.67	7 67	34.26	34 17	94.10	94 65	6.78	6.81	12.70	13 20	8.8	8.7
	ED 11/EOE4	1 1110	7:27	4.0	3.0	23.51	20.00	7.67	7.07	34.08	04.17	95.20	54.00	6.83	0.01	13.70	10.20	8.6	
	25/11/2024	Fine	8:00	3.9	2.9	23.89	24 01	7.64	7 64	33.37	33.46	90.20	90.90	6.47	6.49	6.94	6.78	5.6	5.5
	23/2024	. mo	8:01	3.9	2.9	24.12	24.01	7.63	7.04	33.54	30.40	91.60	30.00	6.50	0.40	6.61	0.70	5.4	0.0
	27/11/2024	Fine	9:45	4.0	3.0	22.26	22.28	7.88	7.88	33.24	33.30	90.50	90.35	6.59	6.57	9.24	10.27	6.9	7.2
	2.7.1.72024	. me	9:46	4.0	3.0	22.29	22.20	7.88	7.00	33.36	33.30	90.20	30.33	6.55	0.57	11.30	10.27	7.4	
	29/11/2024	Fine	10:58	4.0	3.0	20.09	20.12	7.79	7 79	34.16	34 13	90.20	91.30	6.73	6.80	10.90	10.39	5.6	5.7
			10:59	4.0	3.0	20.14	20.12	7.79	7.70	34.09	34.10	92.40	31.00	6.87	0.00	9.87	10.00	5.8	1

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station SR5 (Bottom) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation		00	Turl	oidity	S	ss
Station Reference	Date	Weather	Time	Depth	Depth	0	С			F	pt		%		g/L		TU		g/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	18:02	3.6	2.6	26.29	26.31	7.80	7.80	33.74	33.81	84.80	84.70	6.59	6.58	10.90	11.05	10.8	12.5
	171172024	Oloudy	18:03	3.6	2.6	26.32	20.01	7.80	7.00	33.88	00.01	84.60	04.70	6.56	0.00	11.20	11.00	14.2	
	4/11/2024	Cloudy	8:19	3.8	2.8	25.73	25.81	7.70	7 72	34.25	34.18	91.60	93 10	6.18	6.23	2.96	3.05	2.7	2.9
		,	8:20	3.8	2.8	25.89		7.73		34.10		94.60		6.28		3.14		3.0	
	6/11/2024	Cloudy	8:57	3.8	2.8	27.02	27 18	7.84	7.82	33.56	33.61	103.10	101 90	6.86	6.77	3.98	4 07	6.0	6.5
		,	8:58	3.8	2.8	27.34		7.79		33.66		100.70		6.68		4.15		7.0	
	8/11/2024	Fine	16:44	4.1	3.1	24.50	24.56	7.96	7.96	33.87	33.99	89.00	88.45	6.57	6.56	8.24	8.20	9.8	12.9
			16:45	4.1	3.1	24.62		7.95		34.10		87.90		6.54		8.15		16.0	
	11/11/2024	Cloudy	15:34	3.7	2.7	25.37	25.26	7.78	7 77	33.74	33.85	90.50	89.55	6.65	6.58	11.30	11.95	12.5	12.7
			15:35	3.7	2.7	25.14		7.76		33.95		88.60		6.50		12.60		12.8	
	13/11/2024	Strong Wind Signal, No. 3							WQM	was cancel	ed due to ac	verse weath	ier						
SR5	15/11/2024	Cloudy	17:18	4.0	3.0	25.19	25 25	7.87	7.87	33.79	33.92	97.30	97 15	6.59	6.57	8.79	8.85	9.8	10.3
SKS	13/11/2024	Cioudy	17:19	4.0	3.0	25.30	25.25	7.86	7.07	34.04	33.52	97.00	37.13	6.54	0.57	8.91	0.03	10.8	10.5
	18/11/2024	Fine	8:44	3.8	2.8	25.94	26.03	7.77	7 77	34.07	34 16	98.00	97.20	6.75	6.67	8.39	8.35	11.0	10.7
	10/11/2024	11110	8:45	3.8	2.8	26.12	20.03	7.76	7.77	34.24	34.10	96.40	51.20	6.58	0.07	8.30	0.55	10.4	10.7
	20/11/2024	Cloudy	9:44	3.7	2.7	22.74	22.85	7.89	7.90	33.62	33.67	89.20	93.55	6.57	6.57	20.10	20.80	17.9	17.6
	20/11/2024	Oloudy	9:45	3.7	2.7	22.96	22.00	7.90	7.50	33.71	00.07	97.90	55.55	6.56	0.01	21.50	20.00	17.3	17.0
	22/11/2024	Fine	15:09	4.2	3.2	23.04	23.09	7.76	7.76	33.67	33.80	94.30	93.25	6.75	6.71	22.10	23.05	15.9	16.6
	EE 11/E0E4	1 1110	15:10	4.2	3.2	23.13	20.00	7.76	7.70	33.92	00.00	92.20	00.20	6.67	0.71	24.00	20.00	17.3	
	25/11/2024	Fine	15:12	3.4	2.4	23.09	23.16	7.85	7.85	33.94	33.81	89.20	90.90	6.48	6.55	9.12	9.10	9.3	8.5
			15:13	3.4	2.4	23.22		7.85		33.68		92.60		6.61		9.07	*****	7.6	
	27/11/2024	Fine	9:45	4.0	3.0	22.26	22.28	7.88	7.88	33.24	33.30	90.50	90.35	6.59	6.57	9.24	10.27	6.1	6.3
	2	· mo	9:46	4.0	3.0	22.29		7.88	7.00	33.36	30.00	90.20	50.00	6.55	0.07	11.30	10.21	6.4	
	29/11/2024	Fine	16:43	3.6	2.6	20.64	20.55	7.97	7.98	34.09	34 14	89.60	90.55	6.63	6.70	13.60	14.15	6.7	6.8
	23/2024		16:44	3.6	2.6	20.46	_0.00	7.98	7.50	34.18	34.14	91.50	50.00	6.76	0.70	14.70	14.10	6.8	

Impact Water Quality Monitoring at Station SR6 (Middle) - Ebb Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			p	pt		%		g/L	N'	TU		ıg/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	17:49	2.4	1.2	26.12	26.10	7.78	7.78	33.18	33.30	86.80	86.35	6.41	6.39	9.73	9.87	8.0	8.2
	171172024	Oloudy	17:50	2.4	1.2	26.07	20.10	7.77	1.70	33.42	00.00	85.90	00.00	6.37	0.00	10.00	0.07	8.3	0.2
	4/11/2024	Cloudy	13:33	2.7	1.4	25.78	25.71	7.82	7.81	34.19	34.20	92.90	92.55	6.19	6.22	3.99	3.90	2.4	2.6
		,	13:34	2.7	1.4	25.64		7.79		34.20		92.20		6.25		3.81		2.8	
	6/11/2024	Cloudy	14:50	2.7	1.4	26.05	26.07	7.82	7.83	33.74	33.82	90.20	90.70	6.03	6.08	7.82	7 90	5.8	
		,	14:51	2.7	1.4	26.09		7.83		33.90		91.20		6.12	0.00	7.98		7.9	
	8/11/2024	Fine	7:27	2.3	1.2	25.15	25.13	7.93	7.93	34.63	34.69	90.40	91.00	6.56	6.58	9.82	10.01	16.4	17.2
	**********		7:28	2.3	1.2	25.10		7.92		34.74		91.60		6.60		10.20		17.9	
	11/11/2024	Cloudy	7:59	2.6	1.3	24.26	24 41	7.70	7 70	34.75	34.80	83.60	84.15	6.17	6.23	12.00	12.20	14.2	
		,	8:00	2.6	1.3	24.56		7.70		34.84		84.70		6.28		12.40		14.6	
	13/11/2024	Rainv	9:47	2.6	1.3	25.82	27.33	7.67	7.67	34.35	34.30	91.50	91.70	6.22	6.24	6.12	6.04	9.3	
SR6			9:48	2.6	2.0	28.84		7.66		34.24		91.90		6.25		5.96		7.8	
Ono	15/11/2024	Rainy	11:18	2.7	2.0	25.41	25.38	7.75	7.75	34.13	34.06	93.80	92.75	6.39	6.32	8.42	8.32	8.0	8.1
		-	11:19	3.9	2.0	25.34		7.75		33.98		91.70		6.24		8.22		8.1	
	18/11/2024	Fine	13:49	2.7	1.4	26.41	26.32	7.85	7.86	34.51	34.37	93.60	93.05	6.50	6.40	11.90	12.00	17.6	17.1
			13:50	2.7	1.4	26.23		7.86		34.23		92.50		6.30		12.10		16.5	
	20/11/2024	Cloudy	14:47	2.7	1.4	23.39	23.35	7.94	7.94	34.12	34.07	95.60	94.20	6.48	6.43	14.70	14.35	28.4	27.8
		-	14:48	2.7	1.4	23.31		7.94		34.01		92.80		6.38		14.00		27.2	
	22/11/2024	Fine	7:33	2.4	1.2	23.64	23.56	7.69	7.69	33.74	33.63	89.20	87.95	6.34	6.26	13.40	13.20	9.6	
			7:34	2.4	1.2	23.47		7.68		33.52		86.70		6.17		13.00		11.2	
	25/11/2024	Fine	8:10	2.6	1.3	23.88	24.00	7.67	7.66	34.15	34.10	91.00	90.55	6.37	6.35	7.25	7.15	8.1	7.3
			8:11	2.6	1.3	24.12		7.65		34.04		90.10		6.33		7.04		6.4	
	27/11/2024	Fine	9:53	2.7	1.4	22.19	22.23	7.89	7.89	33.29	33.44	89.10	89.05	6.41	6.40	8.56	8.70	6.0	
			9:54	2.7	1.4	22.27		7.88		33.59		89.00		6.39		8.83		6.6	
	29/11/2024	Fine	11:04	2.7	1.4	19.88	19.81	7.83	7.84	34.21	34.31	87.30	87.85	6.49	6.51	10.70	10.85	6.2	
	l	l	11:05	2.7	1.4	19.74		7.84		34.40		88.40		6.52		11.00		6.3	1

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Lam Environmental Services Limited

Impact Water Quality Monitoring at Station SR6 (Middle) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation		00	Turl	oidity	S	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	'C				ppt		%		g/L		TU		ıg/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	17:49	2.4	1.2	26.12	26.10	7.78	7.78	33.18	33.30	86.60	86.25	6.35	6.33	9.73	9.87	13.4	12.8
	171172024	Oloudy	17:50	2.4	1.2	26.07	20.10	7.77	7.70	33.42	00.00	85.90	00.20	6.30	0.00	10.00	0.01	12.1	
	4/11/2024	Cloudy	8:28	2.2	1.1	25.89	25.95	7.74	7 75	34.67	34.54	95.30	94.45	6.42	6.38	3.37	3 13	2.5	
		,	8:29	2.2	1.1	26.01		7.75		34.40		93.60		6.34		2.88		3.2	
	6/11/2024	Cloudy	9:06	2.4	1.2	27.49	27.30	7.76	7 77	34.06	34 14	92.80	93.20	6.16	6.21	6.74	6.66	7.3	
		,	9:07	2.4	1.2	27.10		7.77		34.21	•	93.60		6.26		6.58	0.00	7.4	
	8/11/2024	Fine	16:29	2.6	1.3	24.95	24.88	7.95	7.95	34.24	34.29	95.70	94.75	6.43	6.40	8.04	8.15	15.8	
			16:30	2.6	1.3	24.81		7.95		34.34		93.80		6.36		8.25		28.6	
	11/11/2024	Cloudy	15:19	2.3	1.2	25.24	25.21	7.78	7.78	33.94	34.01	87.80	88.30	6.48	6.52	10.90	11.45	14.7	13.9
			15:20	2.3	1.2	25.17		7.78		34.07		88.80		6.55		12.00		13.1	
	13/11/2024	Strong Wind Signal, No. 3							WQM	was cancel	led due to ac	lverse weath	er						
SR6	15/11/2024	Cloudy	17:04	4.1	2.1	25.20	25 22	7.89	7.89	34.26	34 20	95.70	95.55	6.28	6.27	8.92	9.02	10.8	10.2
	13/11/2024	Cioudy	17:05	4.1	2.1	25.24	25.22	7.88	7.05	34.13	34.20	95.40	55.55	6.25	0.27	9.12	5.02	9.6	10.2
	18/11/2024	Fine	8:53	2.4	1.2	26.13	26.03	7.79	7 79	34.19	34.12	94.70	94.35	6.50	6.48	8.02	7.96	9.6	10.2
	10/11/2024	11110	8:54	2.4	1.2	25.92	20.03	7.78	7.75	34.04	34.12	94.00	54.55	6.45	0.40	7.89	7.50	10.7	10.2
	20/11/2024	Cloudy	9:53	2.4	1.2	22.39	22.52	7.91	7 91	33.80	33.81	90.00	91.40	6.28	6.32	18.50	18.15	19.9	17.9
	20/11/2024	Oloudy	9:54	2.4	1.2	22.65	ZZ.OZ	7.91	7.01	33.82	00.01	92.80	51.40	6.36	0.02	17.80	10.10	15.8	17.5
	22/11/2024	Fine	14:57	2.7	1.4	22.64	22.80	7.77	7 78	34.12	34 24	90.40	90.75	6.48	6.51	22.90	22.30	19.4	18.7
	EE 11/E0E4	11110	14:58	2.7	1.4	22.95	22.00	7.78	7.70	34.36	04.24	91.10	50.10	6.53	0.01	21.70	22.00	17.9	
	25/11/2024	Fine	15:00	2.3	1.2	23.46	23.37	7.87	7.87	33.70	33.66	91.20	91.75	6.39	6.42	8.99	8.86	6.6	
			15:01	2.3	1.2	23.27		7.87		33.62		92.30		6.45		8.72		7.6	
	27/11/2024	Fine	9:53	2.7	1.4	22.19	22.23	7.88	7.88	33.29	33.44	89.10	89.05	6.41	6.40	8.56	8 70	7.3	
	2		9:54	2.7	1.4	22.27	22.20	7.88	7.00	33.59	50.44	89.00	30.00	6.39	0.40	8.83	0.70	5.9	
	29/11/2024	Fine	16:30	2.3	1.2	20.83	20.78	7.96	7.96	33.79	33.85	90.40	88.95	6.63	6.54	12.70	13.05	5.2	5.8
	23/2024		16:31	2.3	1.2	20.72	20.70	7.96	7.50	33.90	30.00	87.50	50.50	6.45	0.04	13.40	10.00	6.4	

Impact Water Quality Monitoring at Station SR9 (surface) - Ebb Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	0	00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	٥	С			p	pt		%	m	g/L	N'	TU		ng/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	12:04	3.9	1.0	27.01	26.97	7.82	7.83	33.19	33.62	87.50	88.10	6.60	6.62	9.78	9.71	4.3	4.1
	171172024	Oloudy	12:05	3.9	1.0	26.92	20.07	7.83	7.00	34.05	00.02	88.70	00.10	6.64	0.02	9.64	0.71	3.9	
	4/11/2024	Cloudy	13:16	4.3	1.0	26.25	26.19	7.87	7.86	34.41	34.22	99.80	99.70	6.68	6.68	2.57	2.40	1.9	
		,	13:17	4.3	1.0	26.13		7.85		34.03		99.60		6.67		2.23		2.2	
	6/11/2024	Cloudy	14:32	4.1	1.0	27.13	27.05	7.87	7.87	34.26	34.22	100.30	99.40	6.63	6.61	3.46	3.34	3.4	3.5
	071172024	Oloudy	14:33	4.1	1.0	26.96	27.00	7.87	7.07	34.17	04.22	98.50	55.40	6.58	0.01	3.21	0.04	3.6	
	8/11/2024	Fine	7:34	3.5	1.0	25.23	25.27	7.94	7 95	34.07	34.12	92.40	91.65	6.76	6.74	6.73	6.70	8.2	
	**********		7:35	3.5	1.0	25.31		7.95		34.16		90.90		6.72	•	6.66		7.8	
	11/11/2024	Cloudy	8:17	4.0	1.0	25.24	25.33	7.77	7.78	34.54	34.37	87.80	86.60	6.76	6.71	10.80	10.90	8.7	
		,	8:18	4.0	1.0	25.41		7.78		34.20		85.40		6.65	•	11.00		8.0	
	13/11/2024	Rainv	10:04	4.1	1.0	25.91	25.88	7.71	7.72	34.08	34.11	99.70	98.50	6.77	6.69	7.36	7.29	7.4	7.8
			10:05	4.1	1.0	25.84		7.72		34.14		97.30		6.61		7.21		8.1	
SR9	15/11/2024	Rainv	11:36	4.1	1.0	26.73	26.18	7.74	7.75	34.12	34.07	94.60	95.20	6.68	6.70	8.94	8.87	9.1	9.1
			11:37	3.9	1.0	25.63		7.75		34.01		95.80		6.72		8.80		9.0	
	18/11/2024	Fine	13:30	4.1	1.0	25.58	25.63	7.86	7.86	34.11	34.18	98.50	97.65	6.76	6.69	8.01	7.82	11.2	
			13:31	4.1	1.0	25.67		7.86		34.25		96.80		6.62		7.62		11.8	_
	20/11/2024	Cloudy	14:30	4.0	1.0	22.08	22.60	7.94	7.94	33.24	33.35	89.90	89.05	6.38	6.35	11.90	12.05	10.5	
			14:31	4.0	1.0	23.11		7.93		33.46		88.20		6.31		12.20		10.8	
	22/11/2024	Fine	7:52	3.8	1.0	23.33	23.41	7.79	7.79	34.05	34.15	91.00	92.15	6.58	6.63	18.90	19.65	14.1	14.5
			7:53	3.8	1.0	23.49		7.79		34.25		93.30		6.68		20.40		14.8	
	25/11/2024	Fine	8:27	3.9	1.0	23.99	23.85	7.78	7.78	33.37	33.48	91.60	91.20	6.40	6.37	7.02	6.68	5.6	- 6.1
			8:28	3.9	1.0	23.70		7.78		33.58		90.80		6.34		6.33		6.6	_
	27/11/2024	Fine	10:11	4.1	1.0	22.47	22.40	7.92	7.92	34.24	34.11	92.80	92.00	6.70	6.66	10.90	11.05	6.1	
			10:12	4.1	1.0	22.33		7.91		33.98		91.20		6.61		11.20		5.0	
	29/11/2024	Fine	11:21	4.1	1.0	25.38	22.95	7.88	7.89	34.12	34.16	90.30	90.10	6.54	6.54	9.54	9.39	4.2	
			11:22	4.1	1.0	20.52		7.89		34.20		89.90		6.53		9.23		3.9	

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station SR9 (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation		00	Turk	oidity	S	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			p	pt		%	m	g/L	N'	TU	m	
	Duic		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	17:34	3.7	1.0	26.26	26.31	7.78	7.79	33.85	33.80	88.70	88.15	6.64	6.63	11.80	10.82	10.8	10.7
	171112024	Oloudy	17:35	3.7	1.0	26.36	20.01	7.79	7.70	33.74	00.00	87.60	00.10	6.61	0.00	9.84	10.02	10.6	
	4/11/2024	Cloudy	8:46	3.8	1.0	25.99	25.94	1.63	1.50	34.78	34.39	99.50	98.10	6.76	6.67	1.63	1.50	1.6	1.6
	4/11/2024	Cioudy	8:47	3.8	1.0	25.88	23.54	1.37	1.30	33.99	34.35	96.70	30.10	6.58	0.07	1.37	1.50	1.5	1.0
	6/11/2024	Cloudy	9:23	3.8	1.0	24.44	25.57	7.85	7.85	34.18	34.20	100.20	99.60	6.68	6.64	3.14	3.04	4.1	4.1
	0/11/2024	Oloudy	9:24	3.8	1.0	26.70	20.01	7.85	7.00	34.21	04.20	99.00	55.00	6.60	0.04	2.94	0.04	4.1	
	8/11/2024	Fine	16:12	4.0	1.0	24.94	24 89	7.97	7 97	33.67	33.78	97.60	97 90	6.51	6.53	10.80	11.05	11.6	11.4
	0/11/2024	11110	16:13	4.0	1.0	24.84	24.00	7.96	7.07	33.89	00.70	98.20	57.50	6.55	0.00	11.30	11.00	11.2	11.4
	11/11/2024	Cloudy	15:02	3.8	1.0	25.84	25.72	7.80	7.81	34.26	34.30	89.10	88.30	6.81	6.75	12.10	12.90	12.9	13.0
	11/11/2024	Oloudy	15:03	3.8	1.0	25.60	20.72	7.81	7.01	34.33	04.00	87.50	00.00	6.68	0.70	13.70	12.00	13.0	
	13/11/2024	Strong Wind Signal, No. 3							WQM	was cancell	ed due to ac	lverse weath	er						
SR9	15/11/2024	Cloudy	16:47	4.2	1.0	25.09	25 17	7.86	7.86	34.42	34.28	92.20	92 40	6.38	6.39	10.90	11.35	16.8	16.3
Sito	15/11/2024	Cidudy	16:48	4.2	1.0	25.24	25.17	7.86	7.00	34.13	34.20	92.60	92.40	6.40	6.39	11.80	11.35	15.7	10.5
	18/11/2024	Fine	9:11	3.7	1.0	26.01	25.95	7.84	7.84	33.76	33.79	100.40	99.00	6.77	6.73	8.67	8.56	9.0	9.4
	10/11/2024	1 1110	9:12	3.7	1.0	25.89	25.55	7.83	7.04	33.82	33.79	97.60	33.00	6.68	0.73	8.45	0.50	9.7	5.4
	20/11/2024	Cloudy	10:11	3.6	1.0	23.74	23.68	7.93	7.93	34.12	34.05	96.50	95.65	6.58	6.55	10.70	10.55	9.8	9.8
	20/11/2024	Cioudy	10:12	3.6	1.0	23.61	23.00	7.92	7.83	33.98	34.03	94.80	93.03	6.52	0.55	10.40	10.55	9.8	0.0
	22/11/2024	Fine	14:39	4.0	1.0	22.98	22.81	7.82	7.81	34.20	34.34	93.20	93.35	6.73	6.74	17.40	18.05	13.3	12.9
	22/11/2024	1 1110	14:40	4.0	1.0	22.64	22.01	7.80	7.01	34.47	34.34	93.50	55.55	6.75	0.74	18.70	10.03	12.4	12.0
	25/11/2024	Fine	14:42	3.5	1.0	23.64	23.68	7.77	7.78	33.75	33.72	87.80	86.70	6.76	6.74	8.97	9.64	9.1	9.5
	23/11/2024	11110	14:43	3.5	1.0	23.71	23.00	7.78	7.70	33.68	33.72	85.60	00.70	6.72	0.74	10.30	5.04	9.8	0.0
	27/11/2024	Fine	15:31	3.6	1.0	22.19	22.20	7.92	7.93	33.64	33.76	91.20	92.70	6.61	6.70	8.27	8 18	6.0	5.8
	2.7.1.72024	110	15:32	3.6	1.0	22.21	22.20	7.93	7.55	33.88	33.70	94.20	32.70	6.79	0.70	8.09	0.10	5.6	0.0
	29/11/2024	Fine	16:12	3.7	1.0	20.73	20.69	7.91	7.92	33.69	33.73	90.70	91.85	6.67	6.75	9.17	9.32	5.2	4.8
	20		16:13	3.7	1.0	20.64	20.00	7.92	7.02	33.77	30.70	93.00	31.00	6.83	0.70	9.47	0.02	4.4	4.0

Impact Water Quality Monitoring at Station SR9 (Bottom) - Ebb Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			F	ppt	•	%	m		N'	TU		ıg/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	12:06	3.9	2.9	26.99	26.94	7.86	7.85	34.41	34.40	88.80	87.70	6.66	6.62	9.24	9.31	5.0	4.5
	171172024	Oloudy	12:07	3.9	2.9	26.88	20.04	7.84	7.00	34.39	04.40	86.60	07.70	6.58	0.02	9.37	0.01	4.0	
	4/11/2024	Cloudy	13:19	4.3	3.3	26.17	26.29	7.86	7.86	34.73		99.20	100.60	6.62	6.68	2.04	2.09	1.3	
		,	13:20	4.3	3.3	26.40		7.86		34.90		102.00		6.74		2.14		1.9	
	6/11/2024	Cloudy	14:35	4.1	3.1	27.24	27.31	7.86	7.87	34.37	34 47	100.80	100.00	6.65	6.63	3.91	4 02	4.0	4.2
		,	14:36	4.1	3.1	27.37		7.87		34.56		99.20		6.60	0.00	4.12		4.4	
	8/11/2024	Fine	7:36	3.5	2.5	25.19	25.20	7.94	7.94	34.36	34.34	89.60	90.10	6.62	6.66	5.84	5.98	8.0	7.8
			7:37	3.5	2.5	25.20		7.94		34.32		90.60		6.69		6.12		7.6	
	11/11/2024	Cloudy	8:20	4.0	3.0	25.37	25.42	7.79	7.80	34.64	34.57	84.40	85.00	6.62	6.67	13.20	13.05	11.7	
			8:21	4.0	3.0	25.47		7.80		34.49		85.60		6.72		12.90		10.8	
	13/11/2024	Rainy	10:07	4.1	3.1	25.73	25.77	7.73	7.73	34.09	34.06	99.20	98.35	6.75	6.69	6.46	6.34	6.9	
			10:08	4.1	2.9	25.80		7.72		34.03		97.50		6.62		6.22		7.2	
SR9	15/11/2024	Rainy	11:38	4.1	2.9	25.58	25.51	7.76	7.76	34.23	34.33	94.60	93.40	6.53	6.49	9.00	9.06	10.0	
			11:39	3.9	2.9	25.43		7.75		34.42		92.20		6.44		9.12		9.0	
	18/11/2024	Fine	13:33	4.1	3.1	25.23	25.45	7.86	7.87	34.37	34.29	95.40	95.70	6.53	6.56	7.07	7.16	12.2	12.0
			13:34	4.1	3.1	25.67		7.87		34.20		96.00		6.59		7.25		11.8	
	20/11/2024	Cloudy	14:33	4.0	3.0	23.24	23.22	7.93	7.94	33.70	33.67	90.80	91.60	6.74	6.75	13.20	13.00	12.8	13.3
			14:34	4.0	3.0	23.19		7.94		33.64				6.76		12.80		13.7	
	22/11/2024	Fine	7:54 7:55	3.8	2.8	23.49	23.31	7.80 7.80	7.80	33.74	33.67	92.40 92.50	92.45	6.65	6.65	22.40	22.05	14.8	
			7:55 8:29	3.8	2.8	23.13		7.80		33.59		92.50 89.20		6.57		7.25		14.8	
	25/11/2024	Fine	8:29	3.9	2.9	23.79	23.82	7.69	7.70	33.56	33.43	89.20	89.10	6.56	6.57	6.79	7.02	6.2	
			10:14	4.1	3.1	22.24		7.70		33.29		91.30		6.60		8.98		5.6	
	27/11/2024	Fine	10:14	4.1	3.1	22.24	22.30	7.91	7.92	34.11	34.24	91.30 89.50	90.40	6.50	6.55	8.98	8.61	5.6	
			11:24	4.1	3.1	20.43		7.92		34.37		90.20		6.54		9.34		3.8	
	29/11/2024	Fine	11:25	4.1	3.1	20.43	20.35	7.90	7.91	33.59	33.67	89.00	89.60	6.46	6.50	9.71	9.53	3.5	
	1	1	11:25	4.1	3.1	20.27	ſ	7.91	1	33.59	1	69.00		6.46	ſ	9.71	I .	3.5	1

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station SR9 (Bottom) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation		00	Turl	oidity	S	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	'C			F	ppt		%		g/L		TU		g/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	17:36	3.7	2.7	26.25	26.34	7.77	7.78	33.87	33.98	88.90	87.70	6.64	6.60	12.30	11.75	17.9	16.1
	171172024	Oloudy	17:37	3.7	2.7	26.43	20.04	7.78	7.70	34.08	00.00	86.50	01.10	6.55	0.00	11.20	11.70	14.2	
	4/11/2024	Cloudy	8:48	3.8	2.8	25.91	26.04	1.04	1.21	34.34	34.27	97.30	98.35	6.59	6.62	1.04	1.21	1.5	1.7
		,	8:49	3.8	2.8	26.17		1.37		34.19		99.40		6.65		1.37		1.8	
	6/11/2024	Cloudy	9:25	3.8	2.8	26.59	26.48	7.86	7.87	33.89	33.82	101.10	101.20	6.75	6.75	2.99	3.03	3.8	4.2
		,	9:26	3.8	2.8	26.37		7.87		33.74		101.30		6.75		3.06		4.5	
	8/11/2024	Fine	16:15	4.0	3.0	25.03	25.01	7.95	7.95	34.33	34.25	96.50	95.65	6.58	6.55	11.60	11.25	12.2	13.6
			16:16	4.0	3.0	24.99		7.95		34.16		94.80		6.52		10.90		15.0	
	11/11/2024	Cloudy	15:04	3.8	2.8	25.68	25.71	7.80	7.80	34.21	34.20	88.70	89.00	6.78	6.80	16.00	15.35	16.4	16.9
			15:05	3.8	2.8	25.73		7.80		34.19		89.30		6.82		14.70		17.4	
	13/11/2024	Strong Wind Signal, No. 3							WQM	was cancel	led due to ac	verse weath	er						
SR9	15/11/2024	Cloudy	16:50	4.2	3.2	25.21	25 23	7.86	7.87	34.21	34 17	94.60	93.95	6.66	6.60	12.90	12.35	13.3	14.0
Sito	13/11/2024	Cioudy	16:51	4.2	3.2	25.25	25.25	7.87	7.07	34.13	34.17	93.30	55.55	6.54	0.00	11.80	12.55	14.6	14.0
	18/11/2024	Fine	9:13	3.7	2.7	25.83	25 91	7.83	7.83	33.95	33.88	99.00	99 10	6.80	6.82	7.74	7 84	10.9	10.5
	10/11/2024	11110	9:14	3.7	2.7	25.99	25.51	7.82	7.00	33.81	33.00	99.20	33.10	6.83	0.02	7.94	7.04	10.0	10.0
	20/11/2024	Cloudy	10:13	3.6	2.6	23.64	23.59	7.92	7.93	33.91	33.87	98.00	97.80	6.55	6.54	12.60	12.95	14.2	14.2
	20/11/2024	Oloudy	10:14	3.6	2.6	23.53	20.00	7.94	7.50	33.82	00.01	97.60	57.00	6.52	0.04	13.30	12.00	14.2	14.2
	22/11/2024	Fine	14:42	4.0	3.0	22.74	22.78	7.84	7 84	33.67	33.75	90.00	90.90	6.48	6.54	16.80	16.35	11.7	11.0
	EE 11/E0E4	11110	14:43	4.0	3.0	22.81	22.70	7.83	7.04	33.82	00.70	91.80	50.50	6.59	0.04	15.90	10.00	10.3	
	25/11/2024	Fine	14:44	3.5	2.5	23.62	23.59	7.77	7.77	33.68	33.76	85.40	85.50	6.62	6.64	10.70	10.85	10.4	10.1
			14:45	3.5	2.5	23.56		7.77		33.84		85.60		6.65		11.00		9.7	
	27/11/2024	Fine	15:33	3.6	2.6	22.02	22.01	7.93	7 94	34.08	34.02	92.80	92.40	6.70	6.67	7.88	7 95	5.9	5.3
	2		15:34	3.6	2.6	22.00	22.01	7.94	7.54	33.95	54.02	92.00	32.40	6.63	0.07	8.02	7.00	4.6	
	29/11/2024	Fine	16:14	3.7	2.7	20.61	20.70	7.93	7.93	33.83	33.90	91.80	91.40	6.78	6.75	9.18	9 13	3.5	4.0
	23/2024		16:15	3.7	2.7	20.79	20.70	7.92	7.55	33.96	30.00	91.00	31.40	6.72	0.70	9.07	0.10	4.5	1

Impact Water Quality Monitoring at Station SR10 (Middle) - Ebb Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			F	ppt	•	%	m		N'	TU		ıg/L
	Date		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	12:14	2.5	1.3	27.13	27.08	7.84	7.85	34.15	34.17	86.60	87.75	6.35	6.38	8.60	8.72	5.9	5.1
	171 17E0E4	Oloudy	12:15	2.5	1.3	27.02	27.00	7.85	1.00	34.19	04.17	88.90	01.10	6.41	0.00	8.84	0.72	4.3	
	4/11/2024	Cloudy	13:08	2.8	1.4	26.47	26.53	7.91	7 90	34.01	34.03	94.40	94.70	6.30	6.32	2.37	2.24	1.8	
		,	13:09	2.8	1.4	26.59		7.89		34.04		95.00		6.33	0.02	2.10		1.6	
	6/11/2024	Cloudy	14:20	2.7	1.4	26.94	26.92	7.89	7 89	34.46	34.36	101.70	100.15	6.78	6.67	5.02	4 99	3.2	
		,	14:21	2.7	1.4	26.89		7.88		34.26	0.100	98.60		6.55	0.0.	4.95		4.0	
	8/11/2024	Fine	7:46	2.7	1.4	25.12	25.15	7.93	7.93	34.73	34.59	92.80	92.00	6.38	6.34	5.82	5.80	8.0	
			7:47	2.2	1.1	25.18		7.92		34.45	0	91.20		6.30		5.77		7.7	
	11/11/2024	Cloudy	8:28	2.7	1.4	25.24	25.31	7.80	7.81	34.42	34.25	89.40	88.00	6.57	6.52	8.25	8.15	8.0	
		,	8:29	2.7	1.4	25.37		7.81		34.07	0	86.60		6.46	0.02	8.05		8.8	
	13/11/2024	Rainv	10:15	2.6	1.3	26.01	26.00	7.75	7.75	34.25	34.22	96.10	97.10	6.45	6.49	5.84	5.66	7.6	7.4
			10:16	2.6	1.3	25.98		7.75		34.19		98.10		6.53		5.48		7.1	
SR10	15/11/2024	Rainy	11:48	2.6	1.3	25.24	25.36	7.76	7.77	33.98	34.00	93.40	93.80	6.42	6.44	8.56	8.48	13.2	12.8
		-	11:49	2.6	1.3	25.48		7.77		34.02		94.20		6.46		8.40		12.4	
	18/11/2024	Fine	13:19	2.6	1.3	25.33	25.38	7.87	7.87	33.59	33.61	93.50	94.05	6.40	6.42	5.94	5.89	7.8	
			13:20	2.6	1.3	25.43		7.87		33.63		94.60		6.43		5.83		8.9	
	20/11/2024	Cloudy	14:17	2.7	1.4	22.37	22.45	7.93	7.94	33.04	33.16	90.40	90.10	6.44	6.42	14.30	14.05	20.4	16.9
			14:18	2.7	1.4	22.52		7.94		33.27		89.80		6.40		13.80		13.4	
	22/11/2024	Fine	8:03	2.7	1.4	23.08	23.16	7.81	7.81	33.72	33.88	88.60	88.30	6.29	6.27	22.70	23.05	20.3	21.4
			8:04	2.7	1.4	23.24		7.80		34.04		88.00		6.25		23.40		22.4	
	25/11/2024	Fine	8:36	2.5	1.3	23.84	23.80	7.68	7.69	34.01	33.86	88.60	87.40	6.48	6.43	6.94	6.77	7.5	7.0
			8:37	2.5	1.3	23.75		7.69		33.71		86.20		6.38		6.60		6.4	
	27/11/2024	Fine	10:22	2.7	1.4	22.33	22.29	7.92	7.92	34.57	34.42	91.00	90.80	6.59	6.57	8.56	8.73	6.6 4.8	
			10:23	2.7	1.4	22.24		7.92		34.27		90.60				8.90			
	29/11/2024	Fine	11:31	2.7	1.4	20.24	20.31	7.90	7.91	34.67	34.54	88.40	89.70	6.40	6.49	8.67	8.45	4.5	
	1	l	11:32	2.7	1.4	20.37		7.91		34.40	1	91.00		6.57		8.23		4.6	1

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station SR10 (Middle) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation	D	0	Turt	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	0				pt	•	%	m			TU	m	ıg/L
	Date		TITLE	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	17:23	2.3	1.2	26.35	26.30	7.80	7.81	33.68	33.61	86.40	86.70	6.42	6 4 4	12.30	12.60	19.6	17.3
	1/11/2024	Cioudy	17:24	2.3	1.2	26.24	20.30	7.81	7.01	33.54	33.01	87.00	00.70	6.46	0.44	12.90	12.00	14.7	
	4/11/2024	Cloudy	8:57	2.5	1.3	25.84	25.79	2.25	2.08	33.49	33.56	94.00	94.85	6.30	6.33	2.25	2.08	1.9	1.9
	471772024	Oloudy	8:58	2.5	1.3	25.74	20.70	1.91	2.00	33.63	00.00	95.70	04.00	6.35	0.00	1.91	2.00	1.8	
	6/11/2024	Cloudy	9:34	2.5	1.3	26.82	26.74	7.86	7.86	34.07	33.99	96.30	97.35	6.59	6.62	2.56	2.33	5.7	5.3
	0/11/2024	Oloudy	9:35	2.5	1.3	26.66	20.74	7.86	7.00	33.91	00.00	98.40	07.00	6.65	0.02	2.09	2.00	4.9	
	8/11/2024	Fine	16:01	2.6	1.3	25.12	25 15	7.95	7.96	33.89	33.98	94.30	93.35	6.45	6.41	9.79	10.25	13.5	13.9
	0/11/2024	Time	16:02	2.6	1.3	25.18	20.10	7.96	7.50	34.06	00.00	92.40	55.55	6.36	0.41	10.70	10.20	14.2	
	11/11/2024	Cloudy	14:52	2.5	1.3	25.93	25.87	7.83	7.84	33.87	33.94	86.60	86.50	6.44	6.43	6.79	6.62	7.1	
	11/11/2024	Oloudy	14:53	2.5	1.3	25.80	20.01	7.84	7.04	34.00	00.04	86.40	00.00	6.42	0.40	6.45	0.02	6.6	
	13/11/2024	Strong Wind Signal, No. 3							WQM	was cancell	ed due to ad	verse weath	er						
SR10	15/11/2024	Cloudy	16:36	2.7	1.4	24.89	25.05	7.88	7.88	34.54	34.45	88.60	89.05	6.17	6.20	11.60	12 20	14.4	14.5
SKIU	15/11/2024	Cidudy	16:37	2.7	1.4	25.21	25.05	7.87	7.00	34.36	34.45	89.50	69.05	6.23	6.20	12.80	12.20	14.5	14.3
	18/11/2024	Fine	9:22	2.4	1.2	25.86	25 79	7.85	7.85	33.70	33.72	95.60	95.50	6.56	6.54	6.25	6.16	6.2	5.8
	10/11/2024	rille	9:23	2.4	1.2	25.71	25.79	7.85	7.00	33.73	33.12	95.40	95.50	6.52	0.54	6.06	0.10	5.4	J
	20/11/2024	Cloudy	10:23	2.3	1.2	22.98	23.02	7.93	7.93	33.71	33.68	92.40	93.20	6.36	6.38	13.00	12.80	13.6	13.8
	20/11/2024	Oloudy	10:24	2.3	1.2	23.05	20.02	7.93	7.50	33.65	00.00	94.00	00.20	6.40	0.00	12.60	12.00	14.0	10.0
	22/11/2024	Fine	14:30	2.8	1.4	22.68	22 59	7.84	7 84	33.37	33.28	92.70	91.80	6.65	6.62	13.90	14.20	9.5	9.3
	22/11/2024	Tille	14:31	2.8	1.4	22.49	22.35	7.84	7.04	33.19	33.20	90.90	31.00	6.59	0.02	14.50	14.20	9.0	
	25/11/2024	Fine	14:30	2.3	1.2	23.36	23.42	7.77	7 77	33.19	33.29	84.90	85 15	6.57	6.61	11.00	11.75	11.9	11.4
	20/11/2024	Time	14:31	2.3	1.2	23.47	20.42	7.76		33.39	00.20	85.40	00.10	6.64	0.01	12.50	11.70	10.9	11.4
	27/11/2024	Fine	15:19	2.3	1.2	21.73	21.85	7.93	7 94	33.89	34.00	91.40	91 10	6.59	6.56	8.24	8 19	5.9	
	2	. me	15:20	2.3	1.2	21.96	_1.00	7.94	7.04	34.11	54.00	90.80	31.10	6.53	0.00	8.13	0.10	5.8	
	29/11/2024	Fine	16:01	2.4	1.2	20.94	20.80	7.93	7.94	34.00	34.01	89.00	88.70	6.59	6.56	8.09	8.06	4.8	
			16:02	2.4	1.2	20.67		7.94		34.02		88.40		6.52		8.02		4.2	L

Impact Water Quality Monitoring at Station SR12 (Middle) - Ebb Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٩	С			F	ppt	•	%	m		N'	TU		ıg/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	12:21	2.6	1.3	27.20	27.23	7.86	7.85	34.09	34.05	87.20	87.80	6.32	6.35	7.90	7.94	4.9	
	171172024	Oloudy	12:22	2.6	1.3	27.25	27.20	7.84	7.00	34.01	04.00	88.40	01.00	6.38	0.00	7.98	7.54	4.9	
	4/11/2024	Cloudy	13:01	2.7	1.4	26.55	26.54	7.88	7.88	34.00	34.19	94.00	94.35	6.31	6.33	2.30	2.42	1.3	
		,	13:02	2.7	1.4	26.53		7.88		34.37		94.70		6.35		2.54		1.6	
	6/11/2024	Cloudy	14:13	2.7	1.4	26.59	26.58	7.87	7.87	34.27	34 27	95.10	94 25	6.35	6.30	6.01	6 13	3.9	
		,	14:14	2.7	1.4	26.56		7.86		34.26		93.40	0	6.24	0.00	6.24		3.1	
	8/11/2024	Fine	7:58	2.6	1.3	25.09	25.13	7.95	7.95	34.12	34.09	94.40	93.30	6.46	6.42	6.75	6.80	7.8	
			7:59	2.3	1.2	25.16		7.94		34.05		92.20		6.38		6.84		7.7	
	11/11/2024	Cloudy	8:34	2.6	1.3	25.33	25.31	7.81	7.81	33.86	33.90	84.90	85.10	6.59	6.62	7.10	7.39	6.4	6.1
			8:35	2.6	1.3	25.29		7.81		33.94		85.30		6.64		7.67		5.8	
	13/11/2024	Rainy	10:21	2.5	1.3	25.94	25.96	7.76	7.76	33.65	33.73	96.20	96.80	6.57	6.61	5.13	5.05	6.8	
			10:22	2.5	1.4	25.98		7.76		33.81		97.40		6.64		4.97		7.8	
SR12	15/11/2024	Rainy	11:54	2.6	1.4	25.50	25.46	7.76	7.76	33.94	33.87	92.60	91.80	6.29	6.25	9.05	9.15		10.5
			11:55	2.7	1.4	25.42		7.76		33.79		91.00		6.20		9.24		10.2	
	18/11/2024	Fine	13:13	2.6	1.3	25.40	25.34	7.87	7.87	34.18	4 34.13	91.90	92.45	6.28	6.31	5.91	6.07	9.3	
			13:14	2.6	1.3	25.27		7.86		34.08		93.00		6.34		6.23		9.6	
	20/11/2024	Cloudy	14:10	2.7	1.4	22.40	22.43	7.94	7.94	33.21	33.25	89.20	88.70	6.41	6.38	12.50	12.20	20.7	21.4
			14:11	2.7	1.4	22.46		7.94		33.28		88.20		6.35		11.90		22.0	
	22/11/2024	Fine	8:09	2.5 2.5	1.3	23.24	23.13	7.82 7.82	7.82	34.25 34.14	34.20	90.60	89.60	6.42	6.40	20.60 18.90	19.75	16.6	
			8:10 8:43	2.5	1.3			7.82				88.60		6.43		18.90		6.0	
	25/11/2024	Fine	00			23.94	23.92	7.72	7.73	33.84	33.79	86.50	87.00	6.43	6.37	5.87	5.65	5.5	
			8:44 10:28	2.6	1.3	23.89		7.72		33.74		89.60		6.47		5.43 8.90		5.5	
	27/11/2024	Fine	10:28	2.8	1.4	22.20	22.34	7.93	7.93	33.97	33.87	89.60	89.05	6.42	6.45	8.90	8.75	5.9	
			11:37	2.8	1.4	20.12		7.92		34.21		87.40		6.38		9.27		46	
	29/11/2024	Fine	11:38	2.8	1.4	20.12	20.18	7.93	7.93	33.94	34.08	89.20	88.30	6.46	6.42	9.27	9.16	4.6	4.5
	1	1	11:38	2.8	1.4	20.24	ſ	7.92	1	33.94	1	69.20	1	6.46	ſ	9.04	I .	4.4	1

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station SR12 (Middle) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			F	pt	•	%	m	g/L	N'	TU	m	g/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	17:07	2.5	1.3	26.71	26.61	7.77	7 78	33.74	33.81	85.60	85.40	6.35	6.35	9.87	9.76	10.6	10.0
	171172024	Oloudy	17:08	2.5	1.3	26.50	20.01	7.79	7.70	33.88	00.01	85.20	00.40	6.34	0.00	9.65	0.70	9.3	
	4/11/2024	Cloudy	9:03	2.3	1.2	25.34	25.27	1.59	1.69	33.93	33.85	96.30	95.60	6.44	6.40	1.59	1.69	1.8	2.1
		,	9:04	2.3	1.2	25.19		1.79		33.76		94.90		6.35		1.79		2.3	
	6/11/2024	Cloudy	9:35	2.6	1.3	26.39	26 50	7.85	7.86	34.00	34.03	97.60	97 75	6.49	6.50	4.69	4.63	6.7	6.4
		,	9:36	2.6	1.3	26.60		7.86		34.06		97.90		6.50	0.00	4.56		6.0	
	8/11/2024	Fine	15:55	2.5	1.3	25.00	24.90	7.96	7.96	34.29	34.36	95.60	94.55	6.38	6.33	8.04	8.51	12.7	13.1
			15:56	2.5	1.3	24.79		7.96		34.42		93.50		6.28		8.97		13.4	
	11/11/2024	Cloudy	14:45	2.4	1.2	25.67	25.72	7.84	7.85	33.60	33.58	87.50	87.00	6.43	6.37	6.37	6.46	7.1	6.9
			14:46	2.4	1.2	25.77		7.85		33.56		86.50		6.31		6.54		6.6	
	13/11/2024	Strong Wind Signal, No. 3							WQM	was cancel	ed due to ad	verse weath	er						
SR12	15/11/2024	Cloudy	16:31	2.8	1.4	25.04	25.08	7.86	7.87	34.42	34.41	93.00	93.55	6.33	6.37	12.00	12.10	12.8	12.3
31(12	13/11/2024	Cioudy	16:32	2.8	1.4	25.12	25.00	7.88	7.07	34.39	34.41	94.10	55.55	6.41	0.57	12.20	12.10	11.7	12.0
	18/11/2024	Fine	9:26	2.3	1.2	25.65	25.73	7.84	7.85	33.70	33.66	92.90	91.60	6.30	6.26	5.13	5.31	6.9	6.6
	10/11/2024	11110	9:27	2.3	1.2	25.80	23.73	7.85	7.00	33.61	33.00	90.30	31.00	6.22	0.20	5.49	3.31	6.3	0.0
	20/11/2024	Cloudy	10:31	2.5	1.3	23.78	23.71	7.91	7.92	33.89	33.97	96.60	96.10	6.48	6.42	10.80	11.15	12.6	13.3
	20/11/2024	Oloudy	10:32	2.5	1.3	23.64	20.71	7.92	7.02	34.04	00.01	95.60	50.10	6.36	0.42	11.50	11.10	13.9	10.0
	22/11/2024	Fine	14:25	2.6	1.3	22.37	22 48	7.85	7.85	33.84	33.74	91.00	91 70	6.50	6.52	14.60	14 10	8.1	8.3
	ED 11/E0E4	1 1110	14:26	2.6	1.3	22.58	22.40	7.84	7.00	33.63	00.14	92.40	01.70	6.54	0.02	13.60	14.10	8.4	
	25/11/2024	Fine	14:22	2.4	1.2	23.24	23.38	7.79	7 79	33.41	33.52	84.90	85.55	6.59	6.63	9.95	10.73	11.1	11.1
			14:23	2.4	1.2	23.52		7.78		33.63		86.20		6.66	0.00	11.50		11.0	
	27/11/2024	Fine	15:12	2.4	1.2	21.93	21.92	7.94	7.95	34.15	34.21	88.50	88.80	6.42	6.43	8.24	8.31	5.4	5.6
	2	· mo	15:13	2.4	1.2	21.90	21.02	7.95	7.00	34.27	54.21	89.10	30.00	6.44	0.40	8.37	0.01	5.8	
	29/11/2024	Fine	15:53	2.4	1.2	20.57	20.61	7.95	7.95	33.84	33.80	89.20	89.10	6.58	6.58	8.76	8.44	4.0	3.7
			15:54	2.4	1.2	20.64		7.94		33.76	70.00	89.00	,	6.57	0.00	8.12		3.4	

Impact Water Quality Monitoring at Station SR15 (Middle) - Ebb Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	turation		0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			P	pt		%	m	g/L	N'	TU	m	ng/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	18:17	2.3	1.2	26.25	26.35	7.73	7 74	33.24	33.35	86.70	87.85	6.46	6.52	8.90	8.95	10.0	
	171172024	Oloudy	18:18	2.3	1.2	26.44	20.00	7.75	1.74	33.45	00.00	89.00	01.00	6.58	0.02	8.99	0.00	9.9	
	4/11/2024	Cloudy	14:01	2.8	1.4	26.18	26.13	7.78	7 79	34.05	34 16	94.90	95.25	6.38	6.42	2.63	2 49	2.3	
		,	14:02	2.8	1.4	26.07		7.79		34.27		95.60		6.46		2.35		2.0	
	6/11/2024	Cloudy	15:14	2.7	1.4	25.84	25.79	7.82	7.81	33.74	33.79	93.90	94.45	6.31	6.33	5.71	5.79	4.0	
	0/11/2024	Oloudy	15:15	2.7	1.4	25.73	20.70	7.80	7.01	33.84	00.10	95.00	54.40	6.34	0.00	5.86	0.70	4.2	
	8/11/2024	Fine	6:57	2.4	1.2	25.22	25.24	7.95	7.95	34.06	34.08	94.60	94.20	6.46	6.43	9.87	10.29	11.4	12.0
	0/11/2024	1 1110	6:58	2.4	1.2	25.26	20.24	7.95	7.50	34.10	04.00	93.80	04.20	6.40	0.40	10.70	10.25	12.5	12.0
	11/11/2024	Cloudy	7:30	2.5	1.3	25.14	25 11	7.65	7 65	33.75	33.80	85.00	85.15	6.17	6 18	14.20	14.05	15.4	
	11/11/2024	Oloudy	7:31	2.5	1.3	25.08	20.11	7.64	7.00	33.84	00.00	85.30	00.10	6.18	0.10	13.90	14.00	18.0	
	13/11/2024	Rainv	9:19	2.7	1.4	25.96	25.97	7.61	7.62	33.95	33.90	94.90	94.95	6.40	6.43	4.02	3.96	6.6	6.7
	10/11/2024	reality	9:20	2.7	1.4	25.97	20.01	7.62	7.02	33.84	00.00	95.00	04.00	6.46	0.40	3.89	0.00	6.7	
SR15	15/11/2024	Rainv	10:49	2.7	1.4	25.60	25.64	7.72	7.72	34.56	34.50	92.50	90.70	6.44	6.40	8.57	8.48	9.3	
			10:50	2.7	1.4	25.68		7.71	=	34.43		88.90		6.36		8.39		8.2	
	18/11/2024	Fine	14:17	2.7	1.4	25.99	26.04	7.89	7 89	34.11	34.00	93.20	93.70	6.42	6.44	8.64	8.61	10.8	11.1
	10/11/2024	1 1110	14:18	2.7	1.4	26.09	20.04	7.89	7.00	33.89	04.00	94.20	55.75	6.45	0.44	8.57	0.01	11.3	
	20/11/2024	Cloudy	15:17	2.8	1.4	23.74	23.59	7.92	7.92	33.85	33.80	92.80	92.10	6.30	6.27	14.70	14 10	20.0	
		,	15:18	2.8	1.4	23.44		7.91		33.74		91.40		6.24		13.50		19.6	
	22/11/2024	Fine	7:04	2.3	1.2	23.47	23.30	7.57	7.58	33.69	33.84	90.40	89.50	6.46	6.40	15.40	15.10	7.6	
	ED 11/EOE4	1 1110	7:05	2.3	1.2	23.12	20.00	7.58	7.00	33.98	00.04	88.60	00.00	6.34	0.40	14.80	10.10	8.2	
	25/11/2024	Fine	7:39	2.6	1.3	24.14	24.08	7.59	7.58	34.12	33.98	86.20	87.30	6.38	6.42	7.12	6.95	5.5	
			7:40	2.6	1.3	24.01		7.57		33.84		88.40	0.1.00	6.46		6.77		5.6	
	27/11/2024	Fine	9:24	2.8	1.4	22.10	22 11	7.84	7.85	34.27	34 18	90.20	89.45	6.50	6.47	9.95	10.18	12.2	
	21.1.72024	. mo	9:25	2.8	1.4	22.12		7.85	7.00	34.09	54.10	88.70	30.40	6.44	0.41	10.40	10.10	11.6	
	29/11/2024	Fine	10:27	2.7	1.4	20.67	20.63	7.60	7.55	34.05	34.13	88.58	88.29	6.54	6.53	15.40	14.65	9.4	9.6
	20 / 2024	. me	10:28	2.7	1.4	20.59	_0.00	7.50	7.00	34.21	54.10	88.00	30.20	6.51	0.00	13.90	14.00	9.7	

General Note: For calculation of average concentration of 55, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station SR15 (Middle) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	Р	Н	Sal	inity	DO Sa	turation	D	0	Turk	oidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С				pt	•	%	mg		N		m	ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	18:17	2.3	1.2	26.25	26.35	7.73	7 74	33.24	33.35	84.60	85.35	6.46	6.52	8.90	8.95	9.5	8.1
	171172024	Oloddy	18:18	2.3	1.2	26.44	20.00	7.75	1.74	33.45	00.00	86.10	00.00	6.58	0.02	8.99	0.00	6.7	0.1
	4/11/2024	Cloudy	8:00	2.3	1.2	25.65	25 60	7.63	7.62	34.25	34.08	99.60	99 70	6.70	6.73	4.51	4 42	4.4	4.0
	471172024	Oloddy	8:01	2.3	1.2	25.54	20.00	7.60	7.02	33.91	04.00	99.80	00.70	6.75	0.70	4.33	4.42	3.6	
	6/11/2024	Cloudy	8:37	2.5	1.3	27.49	27.40	7.79	7.79	33.25	33.31	96.00	95.70	6.41	6.37	3.57	3.50	5.4	5.0
		,	8:38	2.5	1.3	27.31		7.78		33.37		95.40		6.32		3.42		4.6	
	8/11/2024	Fine	16:58	2.7	1.4	24.75	24 79	7.95	7 95	34.27	34.32	94.70	94 20	6.46	6.39	8.25	8 22	6.4	6.1
			16:59	2.7	1.4	24.83		7.94		34.36	00-	93.70	020	6.32		8.19		5.8	
	11/11/2024	Cloudy	15:49	2.3	1.2	25.47	25.39	7.74	7.74	34.10	34.20	88.40	87.30	6.48	6.43	13.10	12.75	11.8	
			15:50	2.3	1.2	25.31		7.73		34.29		86.20		6.38		12.40		12.7	
	13/11/2024	Strong Wind Signal, No. 3							WQM	was cancell	ed due to ad	verse weath	er						
SR15	15/11/2024	Cloudy	17:34	2.8	1.4	25.37	25.39	7.86	7.87	33.86	33.80	99.20	97.90	6.78	6.72	9.42	9.23	8.8	8.3
31(13	13/11/2024	Cioudy	17:35	2.8	1.4	25.40	25.55	7.87	7.07	33.73	33.00	96.60	37.30	6.65	0.72	9.04	5.23	7.8	0.0
	18/11/2024	Fine	8:24	2.5	1.3	25.37	25 41	7.64	7.63	34.13	34.08	94.10	95.05	6.39	6.43	13.00	13.10	11.7	11.6
	10/11/2024	Tille	8:25	2.5	1.3	25.45	25.41	7.61	7.00	34.02	34.00	96.00	55.05	6.46	0.43	13.20	13.10	11.4	11.0
	20/11/2024	Cloudy	9:25	2.4	1.2	22.89	22.98	7.86	7.87	33.14	33.21	94.70	94 20	6.46	6.40	15.80	15.50	15.6	15.7
	20/11/2024	Oloddy	9:26	2.4	1.2	23.06	22.50	7.87	7.07	33.27	00.21	93.70	04.20	6.34	0.40	15.20	10.00	15.8	
	22/11/2024	Fine	15:27	2.6	1.3	23.08	22.99	7.72	7.73	33.92	34.02	88.30	89.20	6.29	6.30	21.90	22.15	16.4	16.6
			15:28	2.6	1.3	22.89		7.73		34.12		90.10		6.31		22.40		16.8	1010
	25/11/2024	Fine	15:28	2.4	1.2	23.56	23.48	7.83	7.82	33.48	33.36	89.80	89.35	6.35	6.34	10.80	11.05	6.4	7.1
			15:29	2.4	1.2	23.39		7.81		33.24		88.90		6.33		11.30		7.7	
	27/11/2024	Fine	9:24	2.8	1.4	22.10	22.11	7.84	7.85	34.27	34.18	90.20	89.45	6.50	6.47	13.90	14.15	11.2	
			9:25	2.8	1.4	22.12		7.85		34.09		88.70		6.44		14.40		8.0	
	29/11/2024	Fine	17:00	2.4	1.2	19.73	19.81	7.94	7.94	36.74	36.71	89.60	90.45	6.64	6.70	13.20	14.50	5.4	5.2
			17:01	2.4	1.2	19.89		7.93		36.68		91.30		6.76		15.80		5.0	

Impact Water Quality Monitoring at Station CE (surface) - Ebb Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	0	0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٥	С			p	pt		%	m	g/L	N'	TU	m	ng/L
	Date		TIIIIO	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	12:34	8.4	1.0	27.34	27.24	7.66	7.67	33.24	33.14	84.60	84.90	6.50	6.52	7.74	7.79	8.9	9.2
	171172024	Oloudy	12:35	8.4	1.0	27.14	27.24	7.68	7.07	33.04	00.14	85.20	04.50	6.53	0.02	7.84	7.70	9.4	
	4/11/2024	Cloudy	12:49	8.7	1.0	26.13	26.02	7.93	7.93	34.27	34.16	109.70	109.45	7.00	6.98	2.41	2.48	1.9	
		,	12:50	8.7	1.0	25.90		7.92		34.05		109.20		6.96		2.54		1.9	1.00
	6/11/2024	Cloudy	14:02	8.6	1.0	26.47	26.43	7.92	7.91	34.64	34.52	102.70	104.45	6.83	6.95	2.01	2.14	2.2	2.3
	071172024	Oloudy	14:03	8.6	1.0	26.38	20.40	7.90	7.01	34.39	04.02	106.20	104.40	7.06	0.00	2.26	2.14	2.4	
	8/11/2024	Fine	8:07	8.3	1.0	25.41	25.38	7.96	7.96	34.12	34.12	92.30	91.85	6.88	6.87	7.19	7 14	9.2	
	**********		8:08	8.3	1.0	25.35		7.95		34.12		91.40		6.86		7.09		8.0	
	11/11/2024	Cloudy	8:46	8.5	1.0	25.47	25.49	7.85	7.85	34.14	34.31	92.40	91.05	7.02	6.96	12.80	13.05	13.0	
		,	8:47	8.5	1.0	25.51		7.84		34.47		89.70		6.89	0.00	13.30		12.8	
	13/11/2024	Rainv	10:34	8.5	1.0	25.97	26.05	7.69	7.70	33.93	34.04	102.30	101.05	6.81	6.77	6.86	6.99	9.9	
			10:35	8.5	1.0	26.13		7.70		34.14		99.80		6.73		7.12		9.0	
CE	15/11/2024	Rainv	12:08	8.5	1.0	25.73	25.67	7.80	7.80	34.34	34.41	92.60	93.50	6.39	6.42	9.79	9.95	12.9	
			12:09	8.5	1.0	25.60		7.79		34.47		94.40		6.45		10.10		11.4	_
	18/11/2024	Fine	13:01	8.5	1.0	25.63	25.73	7.88	7.89	33.41	33.52	98.10	99.50	6.74	6.77	8.23	8.36	5.5	
			13:02	8.5	1.0	25.83		7.89		33.62		100.90		6.79		8.48		5.0	_
	20/11/2024	Cloudy	13:58	8.6	1.0	23.37	23.43	7.99	7.97	33.54	33.61	99.80	99.60	6.78	6.77	16.60	16.00	13.2	
			13:59	8.6	1.0	23.49		7.94		33.67		99.40		6.76		15.40		11.8	_
	22/11/2024	Fine	8:23	8.4	1.0	23.89	23.83	7.87	7.87	34.47	34.34	91.90	91.50	6.58	6.56	20.70	20.85	9.4	
			8:24	8.4	1.0	23.76		7.86		34.21		91.10		6.53		21.00		9.5	
	25/11/2024	Fine	8:56	8.5	1.0	23.24	23.19	7.75	7.75	33.54	33.62	96.40	95.40	6.72	6.65	5.94	6.25	4.3	4.7
			8:57	8.5	1.0	23.14		7.74		33.70		94.40		6.58		6.55		5.1	
	27/11/2024	Fine	10:42	8.6	1.0	22.74	22.71	7.94	7.94	33.72	33.76	94.00	93.55	6.88	6.80	8.27	8.62	4.4	
			10:43	8.6	1.0	22.67		7.94		33.80		93.10		6.71		8.96		3.8	
	29/11/2024	Fine	11:50	8.6	1.0	20.37	20.46	7.90	7.93	34.09	33.69	93.40	93.80	6.89	6.91	14.40	14.30	8.2	
			11:51	8.6	1.0	20.54		7.95		33.29		94.20		6.93	1	14.20		7.4	1

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station CE (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	P	H	Sal	inity	DO Sa	turation	D	00	Turk	oidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С				pt		%	m			TU	m	ıg/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	16:55	8.2	1.0	26.42	26.51	7.74	7 74	34.13	34.42	89.60	89 10	6.74	6.71	8.14	8 19	9.2	8.8
		,	16:56	8.2	1.0	26.59		7.74		34.71		88.60		6.67	•	8.24		8.4	
	4/11/2024	Cloudy	9:16	8.4	1.0	25.85	25.79	2.08	2.10	33.99	33.93	105.00	104.10	6.94	6.93	2.08	2.10	1.7	1.6
			9:17	8.4	1.0	25.73		2.11		33.87		103.20		6.92		2.11		1.5	
	6/11/2024	Cloudy	9:57	8.4	1.0	25.37	25.48	7.90	7.90	33.89	33.99	102.00	103.10	6.81	6.90	2.86	2.97	3.0	
		,	9:58	8.4	1.0	25.59		7.89		34.09		104.20		6.98		3.07		2.6	
	8/11/2024	Fine	15:42	8.6	1.0	25.12	25.13	7.97	7.97	33.69	33.75	89.40	89.80	6.85	6.88	7.49	7.57	8.0	
			15:43	8.6	1.0	25.14		7.96		33.80		90.20		6.90		7.65		9.0	
	11/11/2024	Cloudy	14:33	8.3	1.0	25.80	25.89	7.87	7.88	34.16	34.13	89.60	88.60	6.82	6.80	9.80	9.95	11.5	
			14:34	8.3	1.0	25.97		7.88		34.09		87.60		6.78		10.10		11.8	
	13/11/2024	Strong Wind Signal, No. 3							WQM	was cancell	ed due to ad	verse weath	ier						
CE	15/11/2024	Cloudy	16:18	8.7	1.0	25.24	25.30	7.81	7.82	34.46	34.53	95.20	94.70	6.95	6.94	9.04	9.11	10.2	9.5
02	10/11/2024	Oloddy	16:19	8.7	1.0	25.36	20.00	7.82	7.02	34.59	04.00	94.20	54.70	6.92	0.54	9.17	0.11	8.8	5.5
	18/11/2024	Fine	9:41	8.3	1.0	26.13	26.02	7.89	7 89	34.25	34 19	98.50	99 15	6.69	6.72	9.79	10.05	5.5	5.3
	10/11/2024	11110	9:42	8.3	1.0	25.91	20.02	7.89	7.00	34.12	04.10	99.80	00.10	6.74	0.72	10.30	10.00	5.0	
	20/11/2024	Cloudy	10:44	8.4	1.0	23.74	23.72	7.93	7.93	34.12	34.02	89.40	90.00	6.85	6.90	14.60	14.50	11.4	11.7
		,	10:45	8.4	1.0	23.70		7.92		33.92		90.60		6.95	0.00	14.40		12.0	
	22/11/2024	Fine	14:10	8.5	1.0	23.24	23.36	7.85	7.85	34.04	34.09	96.10	96.25	6.86	6.87	14.90	15.75	12.6	
	EE 11/E0E4	11110	14:11	8.5	1.0	23.48	20.00	7.84	7.00	34.13	04.00	96.40	00.20	6.88	0.07	16.60	10.70	12.4	
	25/11/2024	Fine	14:10	8.3	1.0	23.74	23.67	7.74	7 75	33.54	33.61	89.00	89.30	6.82	6.85	7.84	7.93	7.6	
			14:11	8.3	1.0	23.60		7.75		33.68		89.60		6.88	0.00	8.01		7.6	
	27/11/2024	Fine	15:00	8.2	1.0	22.16	22.21	7.95	7.95	33.84	33.80	93.40	94.10	6.78	6.82	9.47	10.04	5.3	4.9
			15:01	8.2	1.0	22.25		7.95		33.75	,	94.80	,	6.86	0.02	10.60		4.4	
	29/11/2024	Fine	15:40	8.3	1.0	21.37	21.32	7.93	7.94	33.74	33.78	93.30	92.75	6.92	6.88	12.10	12.55	6.7	6.7
	E		15:41	8.3	1.0	21.26	OT DETE	7.94		33.82	P	92.20		6.83	0.00	13.00		6.6	

Impact Water Quality Monitoring at Station CE (Middle) - Ebb Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	turation		0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt		%	m	g/L	N'	TU	m	ng/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	12:38	8.4	4.2	27.18	27 19	7.68	7 69	33.63	33.58	93.00	93.05	6.71	6.71	8.15	8.15	10.0	10.4
	1/11/2024	Cioudy	12:39	8.4	4.2	27.19	27.10	7.69	7.05	33.52	33.30	93.10	55.05	6.71	0.71	8.15	0.13	10.7	10.4
	4/11/2024	Cloudy	12:53	8.7	4.4	25.81	25.89	7.90	7 89	34.14	34 37	106.50	108.05	6.78	6.90	3.35	3.20	3.3	3.2
		,	12:54	8.7	4.4	25.97		7.88		34.59		109.60		7.02		3.04	0.20	3.0	
	6/11/2024	Cloudy	14:06	8.6	4.3	26.27	26.28	7.90	7.90	34.07	34.16	102.50	103.00	6.82	6.89	2.79	2.73	3.0	
	071172024	Oloudy	14:07	8.6	4.3	26.29	20.20	7.90	7.50	34.24	04.10	103.50	100.00	6.96	0.00	2.67	20	2.5	
	8/11/2024	Fine	8:11	8.3	4.2	25.25	25.24	7.96	7.96	34.37	34.33	90.60	90.75	6.80	6.81	7.83	7.71	8.6	
			8:12	8.3	4.2	25.23		7.96		34.28		90.90		6.81		7.59		9.2	
	11/11/2024	Cloudy	8:50	8.5	4.3	25.54	25.52	7.86	7.86	34.37	34.47	90.20	89.05	6.93	6.82	14.70	13.70	17.3	
	11/11/2024	Oloudy	8:51	8.5	4.3	25.50	20.02	7.85	7.00	34.56	04.47	87.90	00.00	6.71	0.02	12.70	10.70	16.1	
	13/11/2024	Rainv	10:38	8.5	4.3	25.97	25.94	7.70	7.71	33.83	33.82	99.60	99.10	6.72	6.70	5.23	5.11	10.4	
			10:39	8.5	4.3	25.91		7.71		33.80		98.60		6.68		4.99		8.8	
CE	15/11/2024	Rainv	12:12	8.5	4.3	25.61	25.63	7.78	7.79	34.13	34.12	101.20	99.90	6.80	6.76	11.30	11.05	11.6	
			12:13	8.5	4.3	25.64		7.80		34.11		98.60		6.71		10.80		11.0	
	18/11/2024	Fine	13:05	8.5	4.3	25.70	25.75	7.90	7.90	33.86	33.88	101.20	100.60	6.88	6.87	6.56	6.53	7.0	
			13:06	8.5	4.3	25.79		7.90		33.90		100.00		6.85		6.49		7.2	
	20/11/2024	Cloudy	14:02	8.6	4.3	23.27	23.23	7.94	7.95	33.78	33.75	93.60	93.90	6.61	6.63	14.30	14.10	12.4	
		,	14:03	8.6	4.3	23.18		7.95		33.72		94.20		6.65		13.90		13.9	
	22/11/2024	Fine	8:27	8.4	4.2	23.70	23.82	7.87	7.87	33.93	34.09	94.40	94.20	6.75	6.74	19.80	18.85	10.0	
			8:28	8.4	4.2	23.94		7.87		34.25		94.00		6.73		17.90		10.7	
	25/11/2024	Fine	9:00	8.5	4.3	23.24	23.32	7.76	7.76	33.64	33.60	89.60	88.60	6.28	6.23	6.77	6.51	5.2	
			9:01	8.5	4.3	23.39		7.76		33.55		87.60		6.18		6.24		4.1	_
	27/11/2024	Fine	10:46	8.6	4.3	22.23	22.35	7.95	7.95	33.88	33.86	95.40	94.55	6.89	6.82	8.86	8.77	3.8	
			10:47	8.6	4.3	22.47		7.94		33.84		93.70		6.75		8.67		3.2	_
	29/11/2024	Fine	11:54	8.6	4.3	20.23	20.21	7.95	7.96	34.18	34.17	90.70	91.10	6.70	6.73	14.30	14.10	6.8	
			11:55	8.6	4.3	20.18		7.96		34.16		91.50		6.75		13.90		7.3	1

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station CE (Middle) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	н	Sa	linity	DO Sa	turation		00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С				pt		%	m	g/L	N'	TU	m	ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	16:59	8.2	4.1	26.35	26.33	7.74	7.74	34.25	34.38	89.80	89.40	6.77	6.78	8.90	8.77	9.4	8.8
		,	17:00	8.2	4.1	26.30		7.73		34.50		89.00		6.78		8.63		8.1	
	4/11/2024	Cloudy	9:20	8.4	4.2	25.80	25.84	2.46	2.42	34.16	34 18	100.90	100.75	6.87	6.86	2.46	2 42	<1.0	1.2
	471772024	Oloudy	9:21	8.4	4.2	25.88	20.04	2.37	242	34.20	04.10	100.60	100.70	6.84	0.00	2.37	2.42	1.4	
	6/11/2024	Cloudy	10:01	8.4	4.2	24.40	24.32	7.90	7 91	34.32	34.29	101.20	102.95	6.71	6.84	2.24	2.21	2.5	2.4
	0/11/2024	Oloudy	10:02	8.4	4.2	24.24	24.02	7.92	7.01	34.25	04.20	104.70	102.00	6.97	0.04	2.17	2.21	2.3	24
	8/11/2024	Fine	15:46	8.6	4.3	25.05	25.02	7.97	7.98	34.17	34 16	90.40	90.50	6.88	6.89	7.23	7 19	8.4	8.3
	0/11/2024	1 1110	15:47	8.6	4.3	24.99	20.02	7.98	7.50	34.14	04.10	90.60	50.50	6.90	0.00	7.14	7.10	8.1	
	11/11/2024	Cloudy	14:37	8.3	4.2	25.80	25.83	7.89	7.89	34.26	34.29	92.40	90.75	7.02	6.91	11.40	11.45	12.6	11.4
	1171172024	Oloudy	14:38	8.3	4.2	25.85	20.00	7.88	7.00	34.32	04.20	89.10	50.75	6.80	0.01	11.50	11.40	10.2	11.4
	13/11/2024	Strong Wind Signal, No. 3							WQM	was cancell	ed due to ad	verse weath	er						
CE	15/11/2024	Cloudy	16:22	8.7	4.4	25.32	25.31	7.82	7.83	34.43	34.46	94.80	95.15	6.94	6.96	9.03	8.91	11.3	11.8
CE	15/11/2024	Cidudy	16:23	8.7	4.4	25.30	25.51	7.83	7.03	34.48	34.46	95.50	95.15	6.98	6.96	8.79	0.91	12.3	11.0
	18/11/2024	Fine	9:45	8.3	4.2	25.81	25.81	7.89	7.90	33.92	33.98	98.10	99.40	6.67	6.73	11.40	10.80	7.0	7.1
	10/11/2024	rille	9:46	8.3	4.2	25.80	25.61	7.90	7.90	34.04	33.90	100.70	99.40	6.78	6.73	10.20	10.60	7.2	7.1
	20/11/2024	Cloudy	10:48	8.4	4.2	23.86	23.90	7.92	7.92	33.69	33.77	90.80	90.60	6.88	6.91	13.50	13.30	12.0	11.9
	20/11/2024	Cioudy	10:49	8.4	4.2	23.94	23.80	7.92	1.52	33.84	33.77	90.40	30.00	6.94	0.51	13.10	13.30	11.8	11.0
	22/11/2024	Fine	14:14	8.5	4.3	23.56	23 40	7.86	7.86	34.08	34 11	94.00	93.85	6.68	6.67	12.60	14 75	13.8	13.8
	ED 11/2024	Time	14:15	8.5	4.3	23.24	20.40	7.86	7.00	34.14	04.11	93.70	00.00	6.66	0.01	16.90	14.70	13.8	10.0
	25/11/2024	Fine	14:14	8.3	4.2	23.57	23.72	7.75	7.76	33.34	33.32	92.40	91.05	6.98	6.84	8.78	8.71	10.8	10.4
	20/11/2024		14:15	8.3	4.2	23.86	23.72	7.76	7.70	33.30	33.32	89.70	31.03	6.70	0.04	8.64	0.71	9.9	10.4
	27/11/2024	Fine	15:04	8.2	4.1	22.24	22 12	7.94	7.95	33.98	34.04	96.50	95 50	6.95	6.89	9.16	8 95	4.7	5.3
	2	. me	15:05	8.2	4.1	22.00		7.95	7.50	34.09	34.04	94.50	30.00	6.82	0.00	8.74	0.55	5.8	0.0
	29/11/2024	Fine	15:44	8.3	4.2	20.81	20.88	7.95	7.95	33.91	33.78	93.60	94.00	6.95	6.97	14.00	13.50	6.9	7.0
	,===:		15:45	8.3	4.2	20.94	10.00	7.95	1100	33.64		94.40	,	6.99		13.00		7.1	

Impact Water Quality Monitoring at Station CE (Bottom) - Ebb Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation	D	0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С				ppt	•	%	m	g/L	N'	TU	m	ıg/L
	Date		TIIIIO	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	12:41	8.4	7.4	26.74	26.82	7.70	7 70	33.68	33.73	95.60	95.20	6.94	6.92	7.88	7.94	12.8	12.
	1711/2024	Cioday	12:42	8.4	7.4	26.89	20.02	7.70	7.70	33.78	00.70	94.80	00.20	6.89	0.02	8.00	7.04	11.4	
	4/11/2024	Cloudy	12:56	8.7	7.7	26.10	26.03	7.89	7.89	34.69	34.76	108.20	107 70	6.89	6.87	1.03	1 11	3.4	3.6
	47172024	Gloddy	12:57	8.7	7.7	25.95	20.00	7.89	7.00	34.82	04.70	107.20	101.10	6.84	0.01	1.18	1.11	3.7	
	6/11/2024	Cloudy	14:09	8.6	7.6	26.20	26 19	7.91	7 91	33.84	33.75	101.50	101.30	6.73	6.72	4.03	3.95	3.0	3.3
	0/11/2024	Cloudy	14:10	8.6	7.6	26.18	20.15	7.90	7.01	33.65	33.73	101.10	101.30	6.71	0.72	3.87	3.53	3.4	0.1
	8/11/2024	Fine	8:14	8.3	7.3	25.08	25 10	7.97	7 97	34.17	34 16	90.50	90.30	6.79	6.79	6.32	6.25	7.8	8.4
	0/1//2024	1110	8:15	8.3	7.3	25.11	20.10	7.96	7.07	34.15		90.10	50.50	6.78	0.75	6.17	0.20	9.0	
	11/11/2024	Cloudy	8:53	8.5	7.5	25.46	25 50	7.86	7.86	34.39	34.35	88.90	90.60	6.83	6.90	13.90	14 20	20.3	18.9
	11/11/2024	Cloudy	8:54	8.5	7.5	25.53	25.50	7.86	7.00	34.30	34.33	92.30	30.00	6.97	0.50	14.50	14.20	17.4	10.0
	13/11/2024	Rainv	10:41	8.5	7.5	25.89	25 94	7.71	7 72	33.89	33.97	102.40	102 60	6.80	6.83	5.04	5 20	10.3	9.5
	10/11/2024	rearry	10:42	8.5	7.5	25.99	20.04	7.72	7.72	34.04	00.07	102.80	102.00	6.85	0.00	5.36	0.20	8.6	
CE	15/11/2024	Rainv	12:15	8.5	7.5	25.29	25.38	7.82	7.82	33.89	33.97	102.70	101.80	6.88	6.83	11.20	11.60	11.0	11.7
			12:16	8.5	7.5	25.47		7.82		34.04		100.90		6.78	0.00	12.00		12.4	
	18/11/2024	Fine	13:08	8.5	7.5	25.80	25.77	7.90	7 90	34.24	34 29	100.30	100.75	6.90	6.92	6.94	6.97	7.7	8.2
	10/11/2024	1110	13:09	8.5	7.5	25.74	20.77	7.89	7.50	34.34	04.20	101.20	100.70	6.94	0.02	7.00	0.07	8.6	0.2
	20/11/2024	Cloudy	14:05	8.6	7.6	22.98	23.01	7.96	7.95	33.69	33.73	94.60	94.85	6.66	6.68	15.60	15.95	14.4	14.2
		,	14:06	8.6	7.6	23.03		7.94		33.77		95.10		6.69		16.30		13.9	
	22/11/2024	Fine	8:30	8.4	7.4	23.70	23.66	7.88	7.88	34.25	34 17	96.30	96.05	6.87	6.84	18.90	19 75	9.6	
	ED 11/EOE4	1110	8:31	8.4	7.4	23.62	20.00	7.87	7.00	34.08	04.17	95.80	50.00	6.81	0.04	20.60	10.70	9.5	
	25/11/2024	Fine	9:03	8.5	7.5	23.36	23.33	7.77	7 77	33.92	34.08	89.40	90.10	6.28	6.32	7.37	7 19	4.3	
	22/E024		9:04	8.5	7.5	23.30	_0.00	7.77		34.24	34.00	90.80	30.10	6.35	0.02	7.01	7.10	4.5	
	27/11/2024	Fine	10:49	8.6	7.6	22.14	22.03	7.92	7.92	33.64	33.72	94.80	95,45	6.86	6.90	9.04	9.28	5.4	5.6
	2		10:50	8.6	7.6	21.92		7.92	7.02	33.79	30.72	96.10	30.40	6.93	0.00	9.52	0.20	5.7	
	29/11/2024	Fine	11:57	8.6	7.6	19.86	19.92	7.95	7.95	33.59	33.74	92.00	92.30	6.77	6.79	13.20	14.00	8.0	8.2
			11:58	8.6	7.6	19.97	.0.02	7.95	7.50	33.89	30.14	92.60	32.00	6.81	0.75	14.80	14.00	8.4	

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

am

Impact Water Quality Monitoring at Station CE (Bottom) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	aturation		00	Turt	oidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			F	ppt	•	%	m	g/L		TU	m	ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG		AVG	Value	AVG
	1/11/2024	Cloudy	17:02	8.2	7.2	26.40	26.42	7.73	7.73	33.98	33.89	89.20	90.80	6.80	6.86	8.87	8.89	10.2	
		,	17:03	8.2	7.2	26.44		7.72		33.79		92.40		6.91		8.90		11.6	1010
	4/11/2024	Cloudy	9:23	8.4	7.4	25.83	25.82	2.88	2.95	33.91	33.83	99.60	100.00	6.78	6.81	2.88	2 95	1.4	2.1
		,	9:24	8.4	7.4	25.81		3.01		33.74		100.40		6.84		3.01		2.8	
	6/11/2024	Cloudy	10:04	8.4	7.4	26.04	26 13	7.89	7 89	34.08	34 13	103.20	103.10	6.89	6.92	2.54	2.64	4.9	
		,	10:05	8.4	7.4	26.22		7.89		34.18		103.00		6.95		2.74		3.5	
	8/11/2024	Fine	15:49	8.6	7.6	24.87	24 92	7.97	7 97	33.89	33.96	91.20	91.50	6.94	6.95	6.93	6.97	8.1	8.2
			15:50	8.6	7.6	24.96		7.97		34.02		91.80		6.95		7.01		8.2	
	11/11/2024	Cloudy	14:40	8.3	7.3	25.80	25.80	7.89	7.89	34.10	34.09	89.80	89.40	6.88	6.84	14.20	15.00	15.8	
		,	14:41	8.3	7.3	25.79		7.89		34.08		89.00		6.80		15.80		13.9	
	13/11/2024	Strong Wind Signal, No. 3							WQM	was cancel	led due to ad	verse weath	ner						
CE	15/11/2024	Cloudy	16:25	8.7	7.7	25.09	25.02	7.84	7 84	34.64	34.68	93.70	93.55	6.86	6.85	8.24	8.35	12.6	13.1
OL.	13/11/2024	Cioudy	16:26	8.7	7.7	24.94	25.02	7.84	7.04	34.71	34.00	93.40	55.55	6.84	0.03	8.45	0.55	13.6	10.1
	18/11/2024	Fine	9:48	8.3	7.3	25.64	25.68	7.89	7 89	34.11	34 13	100.60	101 90	6.77	6.86	13.90	14 05	8.6	8.3
	10/11/2024	11110	9:49	8.3	7.3	25.72	23.00	7.89	7.05	34.14	34.13	103.20	101.50	6.95	0.00	14.20	14.03	7.9	0.0
	20/11/2024	Cloudy	10:51	8.4	7.4	23.79	23.76	7.94	7 94	34.41	34.37	91.80	91.50	6.85	6.86	12.90	13.25	12.0	12.8
	20/11/2024	Oloudy	10:52	8.4	7.4	23.72	20.70	7.93	7.04	34.32	04.07	91.20	01.00	6.86	0.00	13.60	10.20	13.5	
	22/11/2024	Fine	14:17	8.5	7.5	23.39	23.46	7.88	7.87	33.54	33.59	96.50	95.65	6.90	6.87	16.70	17.00	12.7	12.1
			14:18	8.5	7.5	23.53		7.86		33.64		94.80		6.84		17.30		11.4	
	25/11/2024	Fine	14:17	8.3	7.3	23.54	23.52	7.75	7 75	33.19	33.20	89.60	88 60	6.82	6.75	8.44	8.61	7.8	
			14:18	8.3	7.3	23.49		7.75		33.21		87.60		6.67		8.77		9.2	
	27/11/2024	Fine	15:07	8.2	7.2	22.07	22.09	7.96	7.96	34.17	34.07	94.10	94.60	6.80	6.85	10.20	10.60	6.1	6.2
			15:08	8.2	7.2	22.10		7.96		33.97		95.10		6.90		11.00		6.3	
	29/11/2024	Fine	15:47	8.3	7.3	20.73	20.67	7.96	7.96	33.86	33.97	93.20	92.15	6.90	6.83	13.60	13.80	6.6	
	,===:		15:48	8.3	7.3	20.61		7.96		34.07		91.10	, ,,,,,,	6.75	0.00	14.00		6.9	

Impact Water Quality Monitoring at Station CF (surface) - Ebb Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			p	ppt	•	%	m			TU	m	ıg/L
	Date		TIIIIO	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	18:36	8.2	1.0	26.65	26.60	7.84	7.85	34.27	34.34	87.80	87.70	6.79	6.76	5.87	5.99	6.6	6.0
	171172024	Oloudy	18:37	8.2	1.0	26.54	20.00	7.85	7.00	34.41	04.04	87.60	01.10	6.72	0.70	6.11	0.00	5.3	
	4/11/2024	Cloudy	14:21	8.7	1.0	25.70	25 64	7.90	7 91	33.87	33.91	102.60	101.65	6.81	6.77	2.98	3.01	3.5	3.6
		,	14:22	8.7	1.0	25.57		7.92		33.94		100.70		6.73	•	3.04		3.7	
	6/11/2024	Cloudy	15:34	8.6	1.0	26.13	26 11	7.91	7 91	33.97	34.06	102.80	104.00	6.89	6.95	2.09	2 11	3.1	2.8
		,	15:35	8.6	1.0	26.09		7.91		34.15		105.20		7.00	0.00	2.12		2.4	
	8/11/2024	Fine	6:39	8.2	1.0	25.20	22.70	7.91	7.92	34.53	34.60	99.40	99.10	6.82	6.79	8.44	8.53	8.6	
	**********		6:40	8.2	1.0	20.19		7.92		34.67		98.80		6.76		8.62		9.7	
	11/11/2024	Cloudy	7:10	8.7	1.0	25.52	25 60	7.53	7.53	34.18	34 14	89.20	90.90	6.71	6.78	12.50	13.40	13.8	
			7:11	8.7	1.0	25.67		7.52		34.09		92.60		6.84		14.30		14.9	
	13/11/2024	Rainv	9:00	8.7	1.0	26.18	26.28	7.50	7.52	33.88	33.93	102.50	102.20	6.90	6.89	4.30	4.31	7.8	
			9:01	8.7	1.0	26.37		7.53		33.98		101.90		6.87		4.31		8.5	
CF	15/11/2024	Rainy	10:30	8.5	1.0	25.69	25.71	7.61	7.62	33.75	33.78	101.50	101.70	6.92	6.94	7.34	7.45	11.1	11.6
			10:31	8.5	1.0	25.73		7.62		33.81		101.90		6.95		7.55		12.1	
	18/11/2024	Fine	14:37	8.6	1.0	26.12	26.18	7.89	7.89	34.46	34.48	97.20	97.65	6.65	6.69	6.95	6.88	7.9	
			14:38	8.6	1.0	26.24		7.88		34.50		98.10		6.72		6.81		7.7	
	20/11/2024	Cloudy	15:37	8.5	1.0	23.69	23.72	7.92	7.93	34.29		98.40	98.80	6.78	6.81	14.50	14.30	18.2	
			15:38	8.5	1.0	23.74		7.93		34.56		99.20		6.83		14.10		17.8	
	22/11/2024	Fine	6:44	8.2	1.0	22.86	22.80	7.44	7.45	34.02	34.08	94.80	96.20	6.84	6.91	18.60	18.85	13.4	14.1
			6:45	8.2 8.7	1.0	22.74		7.46		34.14		97.60 98.00		6.98		19.10 4.79		14.8 5.2	
	25/11/2024	Fine	7:20			23.74	23.79	7.47	7.47	24.46 34.10		98.00	97.25	6.84	6.88	5.04	4.92	4.6	
			7:21	8.7	1.0	23.83													
	27/11/2024	Fine	9:05	8.7	1.0	22.20	22.23	7.89	7.87	33.74	33.71	94.20	95.00	6.79	6.84	8.12	8.42	5.8	
			9:06	8.7 8.6	1.0	22.26		7.86		33.68		95.80 94.00		6.89		8.71 9.87		5.4 7.2	
	29/11/2024	Fine	10:17	8.6	1.0	21.36	21.47	7.08	7.08	34.27 34.17	34.22	94.00	93.40	6.84	6.89	10.90	10.39	7.0	
		1	10:18	8.6	1.0	21.57	1	7.08	1	34.17	1	92.80		6.84	l .	10.90	ſ	7.0	1

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station CF (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	turation	D	00	Turt	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			p	pt		%	m			TU	m	ng/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	18:36	8.2	1.0	26.65	26.60	7.84	7.85	34.27	34.34	87.80	87.70	6.56	6.56	5.87	5.99	6.5	
	171172024	Oloudy	18:37	8.2	1.0	26.54	20.00	7.85	1.00	34.41	04.04	87.60	01.10	6.55	0.00	6.11	0.00	5.5	
	4/11/2024	Cloudy	7:40	8.2	1.0	26.12	26.20	7.45	7 44	34.10	34.11	100.20	101.10	6.77	6.81	1.09	1.15	3.0	
		,	7:41	8.2	1.0	26.27		7.43		34.11	•	102.00		6.85	•	1.21		2.7	
	6/11/2024	Cloudy	8:18	8.4	1.0	27.89	27.83	7.76	7.76	33.25	33.32	104.90	104.80	7.01	7.00	0.25	0.32	2.8	
		,	8:19	8.4	1.0	27.76		7.76		33.39		104.70		6.98		0.38	0.02	2.6	
	8/11/2024	Fine	17:17	8.7	1.0	25.19	25.16	7.96	7.96	34.24	34.31	96.00	96.30	6.88	6.90	6.92	7.04	6.8	
			17:18	8.7	1.0	25.12		7.96		34.37		96.60		6.92		7.15		6.2	
	11/11/2024	Cloudy	16:08	8.4	1.0	25.50	25.49	7.90	7.91	33.28	33.38	95.60	95.45	7.02	7.00	10.50	10.60	10.9	
			16:09	8.4	1.0	25.47		7.91		33.47		95.30		6.98		10.70		10.8	<u> </u>
	13/11/2024	Strong Wind Signal, No. 3							WQM	was cancell	ed due to ad	verse weath	er						
CF	15/11/2024	Cloudy	17:52	8.7	1.0	25.80	25.87	7.88	7.88	34.07	34.10	101.60	102.30	6.87	6.89	8.56	8.76	9.8	9.5
Ci	13/11/2024	Cioudy	17:53	8.7	1.0	25.94	25.07	7.87	7.00	34.12	34.10	103.00	102.30	6.91	0.03	8.95	0.70	9.2	0.0
	18/11/2024	Fine	8:05	8.3	1.0	25.97	26.00	7.50	7.51	34.06	34.02	102.40	103.15	6.89	6.94	7.49	7.50	12.2	11.3
	10/11/2024	1 1110	8:06	8.3	1.0	26.03	20.00	7.51	7.01	33.98	04.02	103.90	100.10	6.98	0.04	7.51	7.00	10.4	
	20/11/2024	Cloudy	9:05	8.2	1.0	23.45	23.56	7.80	7.80	33.89	33.99	96.40	95.40	6.92	6.94	23.80	24.20	15.7	
		,	9:06	8.2	1.0	23.66		7.79		34.09		94.40		6.96		24.60		16.5	
	22/11/2024	Fine	15:43	8.4	1.0	23.24	23.43	7.87	7.87	33.69	33.83	94.60	69.50	6.77	6.76	18.90	19 75	10.4	
			15:44	8.4	1.0	23.62		7.87		33.97		44.40		6.74		20.60		10.6	
	25/11/2024	Fine	15:47	8.4	1.0	24.12	24.25	7.87	7.87	33.56	33.46	101.10	99.80	6.98	6.89	7.12	6.97	4.0	
			15:48	8.4	1.0	24.37		7.86		33.36		98.50		6.80		6.82		2.9	
	27/11/2024	Fine	9:05	8.7	1.0	22.20	22.23	7.87	7.87	33.74	33.72	94.20	95.00	6.79	6.84	8.12	8.42	7.8	
			9:06	8.7	1.0	22.26		7.86		33.69	- '	95.80		6.89		8.71		8.4	
	29/11/2024	Fine	17:19	8.2	1.0	21.60	21.65	7.95	7.96	33.58	33.44	93.00	92.25	6.93	6.87	12.70	12.90	3.8	
			17:20	8.2	1.0	21.69		7.96		33.29		91.50		6.80		13.10		4.3	1

Impact Water Quality Monitoring at Station CF (Middle) - Ebb Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٩	С			F	ppt	•	%	m		N'	TU	m	ıg/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
i	1/11/2024	Cloudy	18:40	8.2	4.1	26.24	26.34	7.84	7.85	34.30	29.27	90.40	89.60	6.92	6.88	5.97	5.91	5.0	5.0
i	171172024	Oloudy	18:41	8.2	4.1	26.43	20.04	7.85	1.00	24.23	20.27	88.80	00.00	6.83	0.00	5.84	0.01	5.0	
i	4/11/2024	Cloudy	14:25	8.7	4.4	25.60	25.67	7.91	7.92	34.67	34.51	107.40	106.90	7.02	7.01	3.74	3.13	4.4	4.1
i		,	14:26	8.7	4.4	25.73		7.93		34.34		106.40		6.99		2.51		3.8	
i	6/11/2024	Cloudy	15:38	8.6	4.3	25.78	25.89	7.90	7 91	34.09	34.01	103.60	103.15	6.91	6.87	2.51	2 49	3.0	
i		,	15:39	8.6	4.3	25.99		7.91		33.92		102.70		6.82	0.0.	2.47		2.5	
	8/11/2024	Fine	6:43	8.2	4.1	25.22	25.23	7.92	7.92	34.18	34.09	94.80	94.95	6.59	6.60	8.07	7.97	10.5	
i			6:44	8.2	4.1	25.23		7.92		34.00		95.10		6.60		7.87		11.2	
i	11/11/2024	Cloudy	7:14	8.7	4.4	25.49	25.46	7.56	7.57	34.20	34.21	94.60	94.70	7.00	7.51	13.60	13.80	16.0	
i		,	7:15	8.7	4.4	25.42		7.57		34.22		94.80		8.01		14.00		25.9	
ı	13/11/2024	Rainv	9:04	8.7	4.4	26.24	26.16	7.55	7.55	34.01	33.93	100.70	100.30	6.85	6.83	3.27	3.23	6.1	6.8
ı			9:05	8.7	4.4	26.08		7.54		33.85		99.90		6.81		3.19		7.4	
CF	15/11/2024	Rainy	10:34	8.5	4.3	25.64	25.62	7.66	7.66	34.04	33.98	99.00	99.80	6.75	6.77	10.60	10.24	15.4	14.7
i		-	10:35	8.5	4.3	25.59		7.65		33.91		100.60		6.78		9.87		14.0	
i	18/11/2024	Fine	14:41	8.6	4.3	25.78	25.79	7.89	7.90	34.34	34.37	100.20	101.35	6.89	6.90	8.33	8.19	7.4	8.1
i			14:42	8.6	4.3	25.79		7.90		34.39		102.50		6.91		8.04		8.8	
i	20/11/2024	Cloudy	15:41	8.5	4.3	24.01	23.91	7.93	7.94	34.73	34.71	92.40	92.00	6.58	6.55	15.20	15.50	33.3	
i			15:42	8.5	4.3	23.80		7.94		34.68		91.60		6.52		15.80		31.6	
i	22/11/2024	Fine	6:48	8.2	4.1	22.86	22.91	7.46	7.46	34.37	34.10	94.60	94.15	6.77	6.75	19.80	19.10	13.9	
i			6:49	8.2	4.1	22.96				33.82				6.73					
i	25/11/2024	Fine	7:24	8.7	4.4	23.99	23.92	7.48	7.48	33.68	33.79	93.40	93.25	6.77	6.77	5.51	5.63	3.4	
i			7:25	8.7	4.4	23.85		7.47		33.89		93.10		6.76		5.75		3.3	
1	27/11/2024	Fine	9:09	8.7 8.7	4.4	22.11	22.08	7.86 7.87	7.87	33.91	34.04	94.00	93.50	6.82	6.77	8.64 8.47	8.56	6.6	
1			9:10		4.4	22.04				34.17									
1	29/11/2024	Fine	10:21	8.6	4.3	21.29	21.23	7.13	7.13	33.76	33.83	89.60	89.30	6.68	6.67	12.50	12.35	7.4	7.6
	l	l	10:22	8.6	4.3	21.17	1	7.12	1	33.89	1	89.00		6.65	1	12.20	1	7.8	1

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station CF (Middle) - Flood Tide

					Water	Sampling	Temp	erature	r	Н	Sa	linity	DO Sa	aturation	D	0	Turk	idity	5	is
П	Station Reference	Sampling Date	Weather	Sampling Time	Depth	Depth		С		-		ppt		%	m	g/L	N7	ΓU	m	g/L
		Date		TITLE	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
Γ		1/11/2024	Cloudy	18:40	8.2	4.1	26.24	26.34	7.84	7.85	34.30	34.27	90.40	89.60	6.64	6.61	5.97	5.91	5.1	4.7
		1/11/2024	Cioudy	18:41	8.2	4.1	26.43	20.54	7.85	7.00	34.23	34.27	88.80	05.00	6.58	0.01	5.84	3.51	4.2	4.7
		4/11/2024	Cloudy	7:44	8.2	4.1	26.09	26.06	7.46	7 47	33.72	33.84	104.20	103 65	6.90	6.88	2.97	2.88	2.9	3.3
		4/11/2024	Cioudy	7:45	8.2	4.1	26.02	20.00	7.48	7.47	33.96	33.04	103.10	103.03	6.86	0.00	2.78	2.00	3.6	0.0
		6/11/2024	Cloudy	8:22	8.4	4.2	27.46	27.62	7.76	7 77	33.70	33.63	104.00	102.55	6.92	6.84	0.49	0.62	2.9	3.4
		0/11/2024	Gloudy	8:23	8.4	4.2	27.78	27.02	7.77		33.56	00.00	101.10	102.00	6.75	0.04	0.74	0.02	3.8	0.4
		8/11/2024	Fine	17:21	8.7	4.4	25.07	25.09	7.97	7.97	34.49	34.45	92.00	93.20	6.67	6.70	7.29	7 16	7.5	7.8
		0/11/2024	1 1110	17:22	8.7	4.4	25.10	20.00	7.96	7.07	34.41	04.40	94.40	00.20	6.72	0.70	7.02	7.10	8.0	
		11/11/2024	Cloudy	16:12	8.4	4.2	25.20	25.27	7.90	7.90	34.51	34.50	93.10	92.85	6.86	6.85	16.30	15.55	12.7	12.6
				16:13	8.4	4.2	25.34		7.90		34.49		92.60	02.00	6.84		14.80		12.4	
		13/11/2024	Strong Wind Signal, No. 3							WQM	was cancel	led due to ad	verse weath	ner						
	CF	15/11/2024	Cloudy	17:56	8.7	4.4	26.93	26.88	7.88	7.87	34.42	34.38	100.40	99.90	6.86	6.84	10.80	10.30	11.4	11.5
	OI .	13/11/2024	Cioudy	17:57	8.7	4.4	26.82	20.00	7.86	7.07	34.34	34.30	99.40	35.50	6.81	0.04	9.79	10.50	11.6	11.0
		18/11/2024	Fine	8:09	8.3	4.2	25.74	25.65	7.52	7.52	34.12	34 17	99.10	98 65	6.81	6.78	14.10	13.90	17.9	17.8
		10/11/2024	Tille	8:10	8.3	4.2	25.55	25.05	7.52	7.32	34.21	34.17	98.20	30.00	6.75	0.70	13.70	13.80	17.6	17.0
		20/11/2024	Cloudy	9:09	8.2	4.1	23.66	23 64	7.80	7.80	33.79	33.73	94.60	93.60	6.74	6.75	34.60	29.30	24.2	27.4
			,	9:10	8.2	4.1	23.61		7.79		33.67		92.60		6.76		24.00		30.6	
		22/11/2024	Fine	15:47	8.4	4.2	23.51	23.55	7.86	7.87	33.74	33.67	95.70	96.35	6.80	6.85	19.40	18.40	11.6	8.8
				15:48	8.4	4.2	23.59		7.87		33.59		97.00		6.89		17.40		6.0	
		25/11/2024	Fine	15:51	8.4	4.2	24.25	24.22	7.87	7.88	33.69	33.77	94.60	93.60	6.74	6.71	6.33	6.40	3.9	3.2
				15:52	8.4	4.2	24.18		7.88		33.84		92.60	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6.67		6.47		2.5	
		27/11/2024	Fine	9:09	8.7	4.4	22.11	22.08	7.86	7.87	33.91	34.04	94.00	93.50	6.82	6.77	8.64	8.56	10.2	9.9
				9:10	8.7	4.4	22.04		7.87		34.17		93.00		6.71		8.47		9.6	
		29/11/2024	Fine	17:23	8.2	4.1	21.74	21.62	7.95	7.95	33.89	33.98	91.20	90.75	6.75	6.73	12.40	12.65	4.2	4.3
L				17:24	8.2	4.1	21.50		7.95		34.07		90.30		6.70		12.90		4.4	

Impact Water Quality Monitoring at Station CF (Bottom) - Ebb Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	ı	Н	Sa	linity	DO Sa	turation		00	Turl	bidity	S	ss
Station Reference	Date	Weather	Time	Depth	Depth	0	'C			F	ppt		%	m	g/L		TU	m	g/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	18:43	8.2	7.2	26.13	26.11	7.86	7.86	34.10	34.15	89.70	88.75	6.86	6.80	6.37	6.49	5.5	5.9
	171172024	Oloudy	18:44	8.2	7.2	26.09	20.11	7.86	7.00	34.19	04.10	87.80	00.10	6.73	0.00	6.60	0.40	6.3	5.10
	4/11/2024	Cloudy	14:28	8.7	7.7	25.73	25.72	7.92	7.93	33.88	34.01	107.00	106.60	7.00	6.99	3.79	3.94	4.0	4.3
		,	14:29	8.7	7.7	25.71		7.93		34.13		106.20		6.98		4.08		4.5	
	6/11/2024	Cloudy	15:41	8.6	7.6	25.92	25.91	7.91	7.92	33.85	33.93	101.30	101.05	6.79	6.78	2.64	2.73	3.0	3.1
		,	15:42	8.6	7.6	25.90		7.92		34.00		100.80		6.77		2.82		3.2	
	8/11/2024	Fine	6:46	8.2	7.2	25.26	25.27	7.93	7.93	34.39	34.33	93.80	94.00	6.52	6.54	8.14	8.27	9.7	9.5
			6:47	8.2	7.2	25.27		7.92		34.26		94.20		6.55		8.39		9.3	
	11/11/2024	Cloudy	7:17	8.7	7.7	25.37	25.41	7.59	7.59	34.24	34.25	92.20	92.30	6.82	6.82	14.20	14.00	24.0	23.1
			7:18	8.7	7.7	25.44		7.59		34.25		92.40		6.82		13.80		22.2	
	13/11/2024	Rainy	9:07	8.7	7.7	26.09	26.13	7.55	7.56	34.41	34.33	98.80	99.55	6.76	6.80	3.57	3.66	5.7	6.3
			9:08	8.7	7.7	26.17		7.56		34.25		100.30		6.84		3.75		6.8	
CF	15/11/2024	Rainy	10:37	8.5	7.5	25.64	25.55	7.67	7.68	33.70	33.85	102.50	101.85	6.98	6.96	14.12	15.06	15.0	15.5
			10:38	8.5	7.5	25.46		7.68		34.00		101.20		6.93		16.00		15.9	
	18/11/2024	Fine	14:44	8.6	7.6	27.99	26.94	7.89	7.89	34.50	34.44	98.40	99.20	6.73	6.77	8.25	8.30	8.8	8.3
			14:45	8.6	7.6	25.88		7.89		34.37		100.00		6.80		8.34		7.8	
	20/11/2024	Cloudy	15:44	8.5	7.5	23.42	23.49	7.94	7.95	34.60	34.66	90.60	90.40	6.44	6.44	17.50	16.95	35.1	29.0
			15:45	8.5	7.5	23.56		7.95		34.71		90.20		01.10		16.40		22.8	
	22/11/2024	Fine	6:51 6:52	8.2 8.2	7.2 7.2	22.82	22.71	7.48	7.48	34.07	34.16	96.40 97.40	96.90	6.93 7.00	6.97	17.20 18.90	18.05	13.6	13.5
			7:27	8.7	7.7	23.99		7.47		34.25		97.40		6.69		4.72		13.4	
	25/11/2024	Fine	7:27	8.7	7.7	24.03	24.01	7.48	7.49	33.74	33.65	92.60	93.30	6.78	6.74	5.00	4.86	3.8	3.9
			9:12	8.7	7.7	24.03		7.50		33.56		05.00		6.90		8.64		5.0	
	27/11/2024	Fine	9:12	8.7	7.7	21.87	21.89	7.86	7.87	34.84	34.23	95.20	95.40	6.94	6.92	8.90	8.77	5.0	5.3
			10:24	8.6	7.6	21.90		7.15		34.14		93.30		6.88		9.79		7.5	
	29/11/2024	Fine	10:25	8.6	7.6	20.85	20.97	7.15	7.16	34.14	34.12	94.90	94.10	7.02	6.95	10.80	10.30	7.5	7.4
	1		10:25	0.6	7.6	20.85	1	7.16	1	34.09	1	94.90	1	7.02	1	10.80	l .	1.2	I

General Note: For calculation of average concentration of 55, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station CF (Bottom) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	0	Turt	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С				ppt	•	%	m	g/L	N'	TU	m	ıg/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/11/2024	Cloudy	18:43	8.2	7.2	26.13	26 11	7.86	7.86	34.10	34 15	89.70	90.15	6.60	6.63	6.37	6.49	6.1	6.0
	171172024	Oloudy	18:44	8.2	7.2	26.09	20.11	7.86	7.00	34.19	04.10	90.60	00.10	6.66	0.00	6.60	0.40	5.9	
	4/11/2024	Cloudy	7:47	8.2	7.2	25.90	25.94	7.50	7.49	33.72	33.66	101.30	101.75	6.84	6.85	4.12	4.27	3.2	
		,	7:48	8.2	7.2	25.98		7.48		33.59		102.20		6.86	0.00	4.42		5.3	
	6/11/2024	Cloudy	8:25	8.4	7.4	27.51	27.46	7.78	7 77	33.29	33.43	102.70	103.45	6.87	6.90	1.09	1.00	5.2	
		,	8:26	8.4	7.4	27.41		7.76		33.56		104.20		6.93	0.00	0.91		5.6	
	8/11/2024	Fine	17:24	8.7	7.7	24.99	24.88	7.96	7.96	34.54	34.64	94.60	95.40	6.72	6.74	7.69	7.75	9.0	9.9
			17:25	8.7	7.7	24.76		7.95		34.73		96.20		6.76		7.81		10.7	
	11/11/2024	Cloudy	16:15	8.4	7.4	25.27	25.23	7.90	7.90	34.53	34.59	93.40	93.70	6.89	6.91	15.70	15.40	13.1	13.5
		,	16:16	8.4	7.4	25.19		7.90		34.64		94.00		6.92		15.10		13.8	
	13/11/2024	Strong Wind Signal, No. 3							WQM	was cancell	led due to ad	verse weath	ier						
CF	15/11/2024	Cloudy	17:59	8.7	7.7	26.81	26.81	7.88	7.88	34.57	34.59	96.50	95.45	6.70	6.66	12.20	13.05	12.6	12.1
Ci	13/11/2024	Cioudy	18:00	8.7	7.7	26.80	20.01	7.88	7.00	34.61	34.35	94.40	55.45	6.62	0.00	13.90	13.03	11.6	12.1
	18/11/2024	Fine	8:12	8.3	7.3	25.40	25 45	7.53	7.53	33.70	33.62	100.20	99.60	6.84	6.82	12.80	13 10	21.4	20.8
	10/11/2024	11110	8:13	8.3	7.3	25.49	23.43	7.53	7.33	33.54	33.02	99.00	35.00	6.80	0.02	13.40	13.10	20.2	20.0
	20/11/2024	Cloudy	9:12	8.2	7.2	23.37	23 44	7.84	7.85	34.12	34 20	93.20	92 60	6.88	6.84	24.10	29 75	27.3	33.2
	20/11/2024	Gloudy	9:13	8.2	7.2	23.50	20.44	7.85	7.00	34.27	04.20	92.00	02.00	6.80	0.04	35.40	20.70	39.1	00.2
	22/11/2024	Fine	15:50	8.4	7.4	23.51	23 49	7.88	7.88	34.89	34.48	95.30	95.75	6.82	6.85	18.50	18 85	11.9	12.2
	ED 11/E0E4	1110	15:51	8.4	7.4	23.46	20.40	7.87	7.00	34.07	04.40	96.20	00.70	6.87	0.00	19.20	10.00	12.4	
	25/11/2024	Fine	15:54	8.4	7.4	24.20	24 16	7.88	7.88	33.62	33.66	96.40	96.30	6.83	6.84	7.12	7.04	5.1	5.1
			15:55	8.4	7.4	24.12		7.88		33.69		96.20		6.84		6.95		5.0	
	27/11/2024	Fine	9:12	8.7	7.7	21.87	21.89	7.86	7.87	34.84	34.23	95.20	95.40	6.84	6.87	8.64	8.77	9.7	9.9
	2		9:13	8.7	7.7	21.90	21.00	7.87	7.07	33.61	34.20	95.60	30.40	6.90	0.01	8.90	0.77	10.1	
	29/11/2024	Fine	17:26	8.2	7.2	21.24	21.31	7.95	7.96	34.01	34.00	92.30	93.20	6.85	6.92	10.20	10.85	4.3	
	,===:		17:27	8.2	7.2	21.37		7.97		33.99	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	94.10	70.20	6.99	0.02	11.50		4.6	

Appendix 4.5

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table for 2024

	Actual Quantities of Inert C&D Material Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly				
Month	Total Quantity Generated (a)	Hard Rocks and Large Broken Concrete (b)	Reused in the Contract (c)	Reused in other Projects (d)	Disposed as Public Fill (a-b-c-d)	Imported Fill	Metals	Paper/card- board packaging	Plastics [see Note 3]	Chemical waste	Others. e.g. general refuse	
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	
Jan	1.68	0.00	0.00	0.00	1.68	0.00	0.0000	0.0000	0.0000	0.00	8.63	
Feb	0.18	0.00	0.00	0.00	0.18	0.00	8.1554	0.0418	0.0011	0.00	17.86	
Mar	0.19	0.00	0.00	0.00	0.19	0.00	0.0053	0.0454	0.0017	0.00	13.31	
Apr	0.06	0.00	0.00	0.00	0.06	0.00	0.0000	0.0000	0.0000	0.00	7.67	
May	1.27	0.00	0.00	0.00	1.27	0.00	0.0000	0.0000	0.0000	0.00	10.26	
Jun	2.57	0.00	0.00	0.00	2.57	0.00	0.0000	0.0999	0.0000	0.00	12.42	
Sub-total	5.96	0.00	0.00	0.00	5.96	0.00	8.1607	0.1871	0.0028	0.00	70.15	
July	1.37	0.00	0.00	0.00	1.37	0.00	0.0000	0.0000	0.0000	0.00	8.96	
Aug	0.90	0.00	0.00	0.00	0.90	0.00	0.0037	0.0486	0.0030	0.00	14.84	
Sept	1.54	0.00	0.00	0.00	1.54	0.00	0.0030	0.0110	0.0019	0.00	15.89	
Oct	0.32	0.00	0.00	0.00	0.32	0.00	0.0000	0.0000	0.0000	0.00	12.49	
Nov	0.22	0.00	0.00	0.00	0.22	0.00	0.0056	0.0941	0.0030	0.00	30.03	
Dec												
Total	10.31	0.00	0.00	0.00	10.31	0.00	8.1730	0.3408	0.0107	0.0000	152.36	

Notes:

- (1) The inert C&D material except slurry and bentonite are disposed at Mui Wo Temporary Public Fill Bank (MW-PFRF) or Tuen Mun Area 38 Fill Bank (TM38-FB)
- (2) The slurry and bentonite are disposed at Tseung Kwan O Area 137 Fill Bank (TKO137FB)
- (3) The non-inert waste is disposed at NENT or Outlying Islands Transfer Facilities
- (4) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (5) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (6) Assume the density of fill material is 2 tonne/m3.

Appendix 6.1

Three Months Rolling Programme

KL-CW JV

Tentative Three Months Construction Rolling Program

Contract No.: DC/2020/02

Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works Reference No. : DC/2020/02

Revision No. : -

Construction Activities for the reporting period

Item	Construction Activities
1	Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road
2	Trenchless drilling works (Chi Ma Wan Road)
3	Excavation and site formation at SSWSTW
4	Excavation and ELS work at POSPS
5	Superstructure RC Works at SSWSTW
6	Retaining wall construction at SSWSTW
7	Dredging and diffuser construction at SSWSTW
8	E&M Installation at POSPS

KL-CW JV

Tentative Three Months Construction Rolling Program

Contract No.: DC/2020/02

Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works Reference No. : DC/2020/02

Revision No. : -

Tentative Three Months (December 2024, January and February 2025) Construction Rolling Program

Item	Construction Activities
1	Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road
2	Excavation and site formation at SSWSTW
3	Trenchless drilling works (Chi Ma Wan Road)
4	Excavation and ELS work at POSPS
5	Superstructure RC works at SSWSTW
6	Retaining wall construction at SSWSTW
7	Dredging and diffuser construction at SSWSTW
8	E&M Installation at POSPS