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

MARCH 2024 REVISION 1

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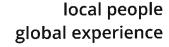
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Derek Lo

Environmental Team Leader

DATE:

11 April 2024





Our Ref: 7076811/L30811/AG/KL/TK/KCL/rw

11 April 2024

Drainage Services Department Sewage Services Branch Special Duty Division Group 3 42/F Revenue Tower 5 Gloucester Road Wan Chai, Hong Kong

By Email and Post (kschan04@dsd.gov.hk)

Attn: Mr. Silas CHAN

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 (March 2024)

With reference to the Monthly EM&A Report (March 2024) Revision 1 dated and certified by the ET Leader on 11 April 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

Kitty LEE

Independent Environmental Checker

CC

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- Mr. Kevin CHAN

by email

Lam

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EXECUTIVE SUMMARY

- i. This is the Monthly Environmental Monitoring and Audit (EM&A) Report March 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 31 March 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, Pui O Beach
 - Excavation and site formation at San Shek Wan Sewage Treatment Works (SSWSTW) and Pui O Sewage Pumping Station (POSPS)
 - · Horizontal Directional Drilling (HDD) works at marine
 - Removal works of Excavation and Lateral Support (ELS)
 - Excavation and Lateral Support (ELS) works
 - Superstructure Reinforced Concrete (RC) Works

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 4 to 6 March 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 on 9 (mid-ebb and mid-flood), 13 (mid-ebb) March 2024 were cancelled due to Strong Monsoon Signal. 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. In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, no action level and limit level exceedances were recorded in the reporting month.

Ecological Impact Monitoring

- ix. Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.
- x. 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.
- xi. The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- xii. The extent of the work site boundaries was checked by the ET during the weekly site audit.

Complaint log

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

Notifications of Any Summons and Successful Prosecutions

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

Reporting Changes

xv. There are no particular reporting changes.

Future Key Issues

- xvi. 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, Pui O Beach
 - Dredging at marine
 - Site formation works
 - Drilling works
 - Excavation works
 - ELS works
 - Superstructure RC Works
 - Removal works of ELS
- xvii. Key construction activities for the next three months with the recommended mitigation measures to be implemented are presented as follows:

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

Key Construction Works	Recommended Mitigation Measures		
Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Pui O Beach Dredging at marine Site formation works Drilling works Excavation works ELS works Superstructure RC Works Removal works of ELS	 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; 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. 		

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:

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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. Silas Chan	2594 7272	3104 6426
Binnies Hong Kong Limited	Engineer's Representative	Resident Engineer	Mr. Kevin Chan	3529 3013	-
Kwan Lee – Chun	Contractor	Site Agent	Mr. Charles Yeung	6128 2606	2744 6937
Wo Joint Venture		Environmental Officer	Ms. Shirley Kong	5162 5933	
SMEC Hong Kong	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Ms. Kitty Lee	3995 8140	3995 8101
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, Pui O Beach
 - Excavation and site formation at San Shek Wan Sewage Treatment Works (SSWSTW) and Pui O Sewage Pumping Station (POSPS)
 - · Horizontal Directional Drilling (HDD) works at marine
 - Removal works of Excavation and Lateral Support (ELS)
 - Excavation and Lateral Support (ELS) works
 - Superstructure Reinforced Concrete (RC) Works

The locations of works are shown in Figure 2.2.

- 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	POPS: WT00039820-2021	31 Dec 2021	31-12-2021 to 31-12-2026	Valid
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-RS0065-24	30 Jan 2024	09-02-2024 to 08-08-2024	Valid
Construction Noise Permit under Noise Control Ordinance for POSPS	GW-RS0822-23	25 Sep 2023	27-09-2023 to 26-03-2024	Expired
	GW-RS0213-24	15 Mar 2024	27-03-2024 to 26-09-2024	Valid
Marine Dumping Permit (Dredged Sediment Requiring Type 1 – Open Sea Disposal	EP/MD/24-060	27 Feb 2024	01-03-2024 to 31-08-2024	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 07, 12, 18 and 25 March 2024. IEC attended the SSEMC meeting held on 18 February 2024. Holding nursery visit for transplanted trees on 22 March 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
7 March 2024	Pui O Sewage Pumping Station(POSPS): 1. Drip tray should be provided to chemical container	Rectified by the Contractor on 7 Mar 2024
12 March 2024	Pui O Sewage Pumping Station(POSPS): 1. Contractor was reminded to avoid surface runoff into public road.	N.A
18 March 2024	 Pui O Sewage Pumping Station(POSPS): Waste impervious sheet outside site boundary should be removed. Housekeeping should be enhanced Drip tray should be provided to chemical container 	Rectified by the Contractor on 23 Mar 2024
25 March 2024	Pui O Sewage Pumping Station(POSPS):1. Exposed soil outside at site boundary should be covered properly by tarpaulin sheet.	Rectified by the Contractor on 26 Mar 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	0005062
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	nitoring Location Measurement Type	
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 4 to 6 March 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	16J104708/17F100236	
Turbid meter	WGZ-3B	1807073	

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 Communities) at Pui O Wan	814938	810975
SR5	Ecological Sensitive Receiver (Coral Communities) at Pui O Wan	814326	810540
SR6	Gazetted Bathing Beach at Lower Cheung Sha	810553	810475
SR9 (1)	Ecological Important Stream at Tong Fuk	811325	809787
SR10	Secondary Contact Recreational Zones at South Lantau	810561	809494
SR12 ⁽¹⁾	Proposed Special Site of Scientific Interest (SSSI) at Shui Hau Wan	810359	808989
SR15	Gazetted Bathing Beach at Pui O and Ecologically Important Stream at Pui O	816037	810722

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 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				
	13.1 mg/L <u>and</u>	30.4 mg/L <u>and</u>				
SS in mg/L	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				

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 (E	Bottom)	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	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR5	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR6	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR9	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR10	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR12	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR15	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
Total	Action	0	0	0	0	0	0	0	0		0
	Limit	0	0	0	0	0	0	0	0		0

- 4.2.21 Water quality monitoring on 9 (mid-ebb and mid-flood), 13 (mid-ebb) March 2024 were cancelled due to Strong Monsoon Signal. 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.
- 4.2.22 In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, no action level and limit level exceedances were recorded in the reporting month.

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 22 March 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 '000m ³)	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)	0.19468	0.17578	16.99626
Metals (in '000kg)	0.00530	8.15540	15.68900
Paper / Cardboard Packing (in '000kg)	0.04540	0.04180	0.67588
Plastics (in '000kg)	0.00170	0.00110	0.07006
Chemical Wastes (in '000kg)	0	0	0
General Refuses (in '000kg)	13.31	17.86	600.68
Marine Sediment (Type 1 – Open Sea Disposal) , m3	0	0	60.2

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
March 2024	0
Project commencement to the end of last reporting month	2
Total	2

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 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.

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, Pui O Beach
 - Dredging at marine
 - Site formation works
 - Drilling works
 - Excavation works
 - ELS works
 - Superstructure RC Works
 - Removal works of ELS
- 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 April 2024 to June 2024 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,	 Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan; Dust control during dust generating works;
Pui O Beach • Dredging at marine	 Silt curtain should be maintained in good condition; Adopt surface drainage and sediment control facilities for
Site formation works	sewage installation in village and public roads;
Drilling worksExcavation works	 Adopt temporary drainage and sediment control facilities on Site;
ELS worksSuperstructure RC Works	Vehicle wheel-washing and body washing facilities should be provided at the site entrance;
Removal works of ELS	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 4 to 6 March 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 on 9 (mid-ebb and mid-flood), 13 (mid-ebb) March 2024 were cancelled due to Strong Monsoon Signal. 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 In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, no action level and limit level exceedances were recorded in the reporting month.

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 22 March 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
22 March 2024	 Transplanted trees in holding nursery at Kam Tin Remainder: 1. The Contractor was reminded to provide watering to all tree species temporarily transplanted in the holding nursery. 	Will be rectified in early April 2024

Note: Previous finding during site inspection on 28 Feb 2024 was rectified on 8 March 2024.

- 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.

Figure 2.1

Master Layout Plan

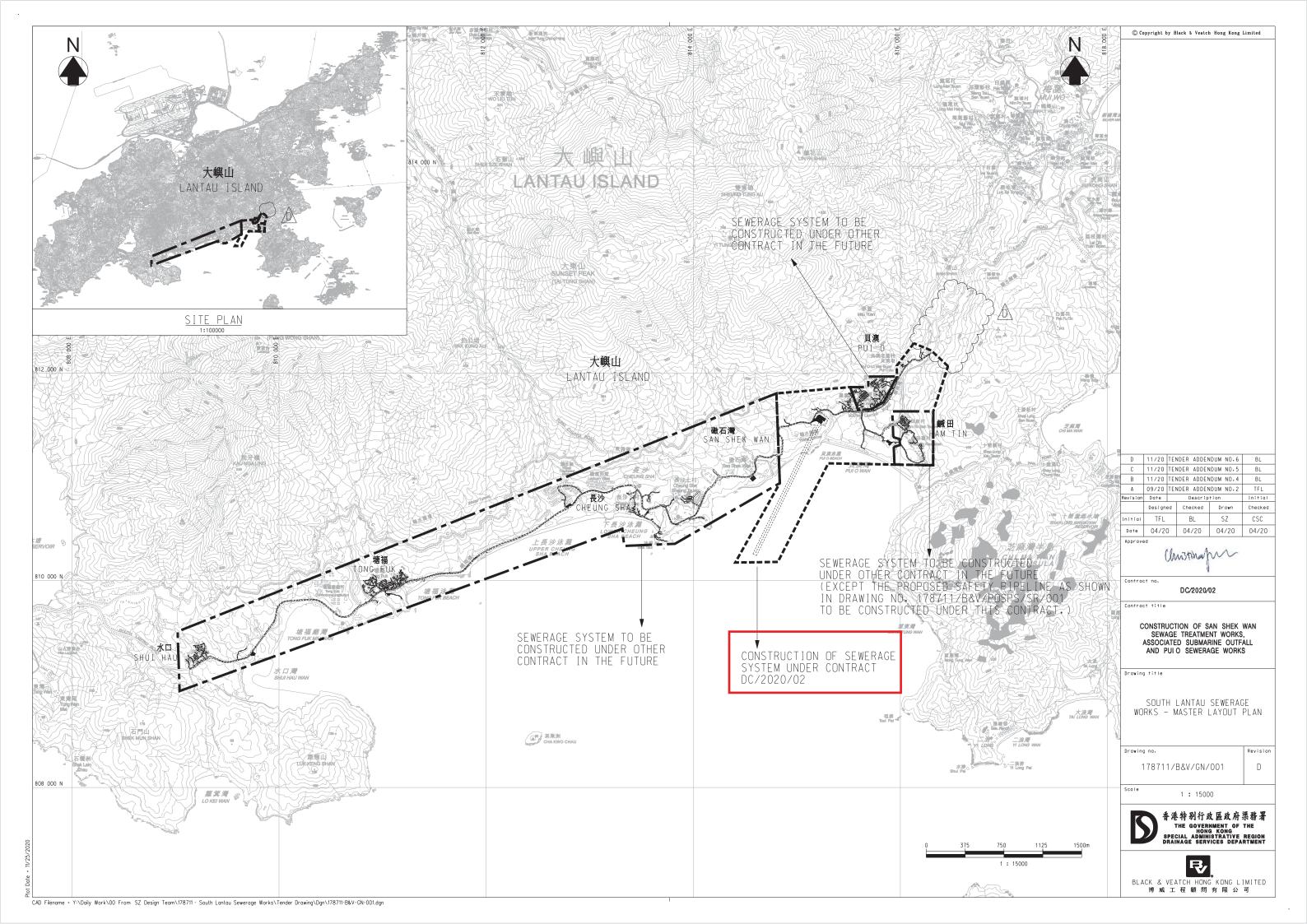


Figure 2.2

Contract Layout Plan

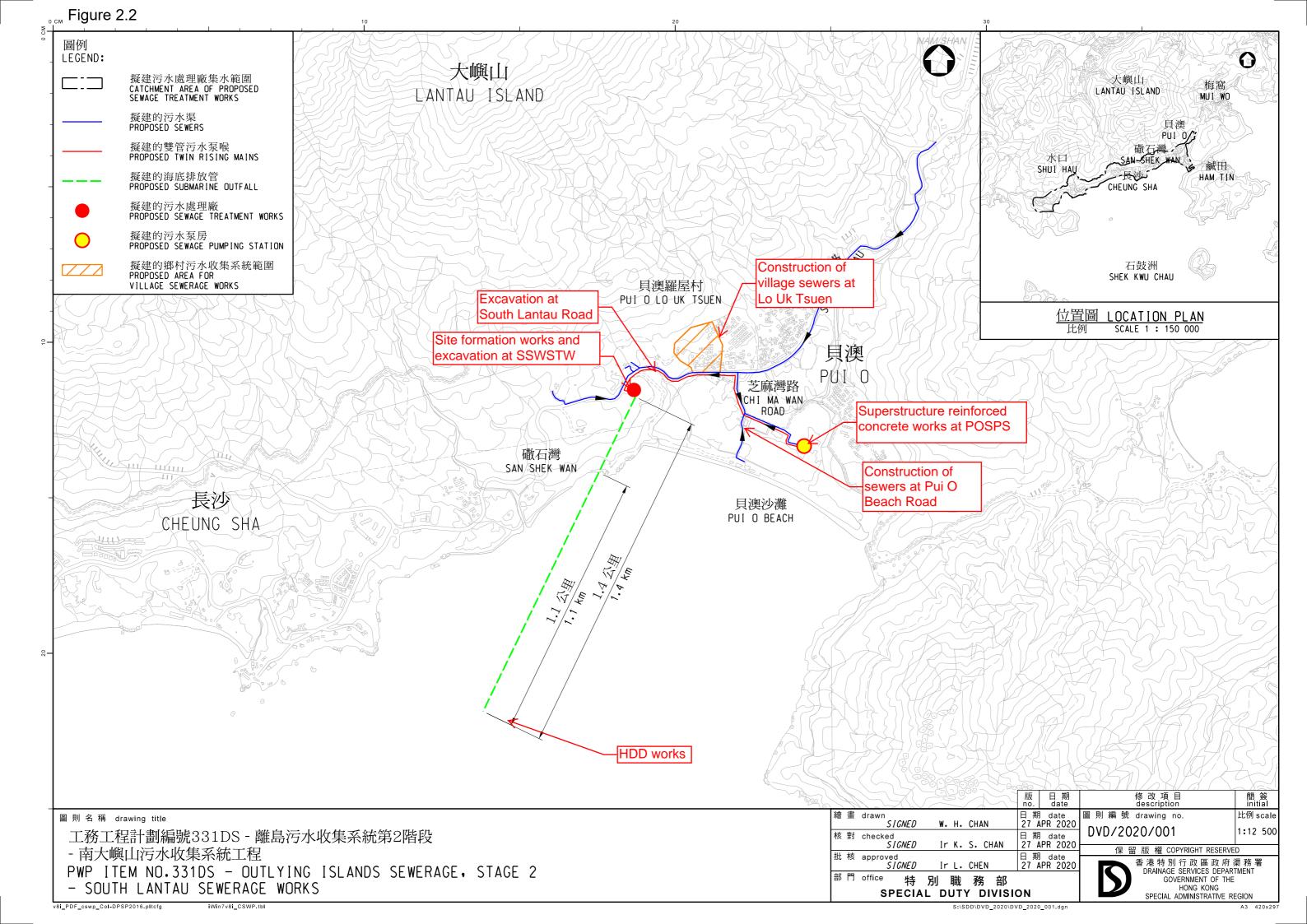


Figure 2.3

Locations of Noise Monitoring Station

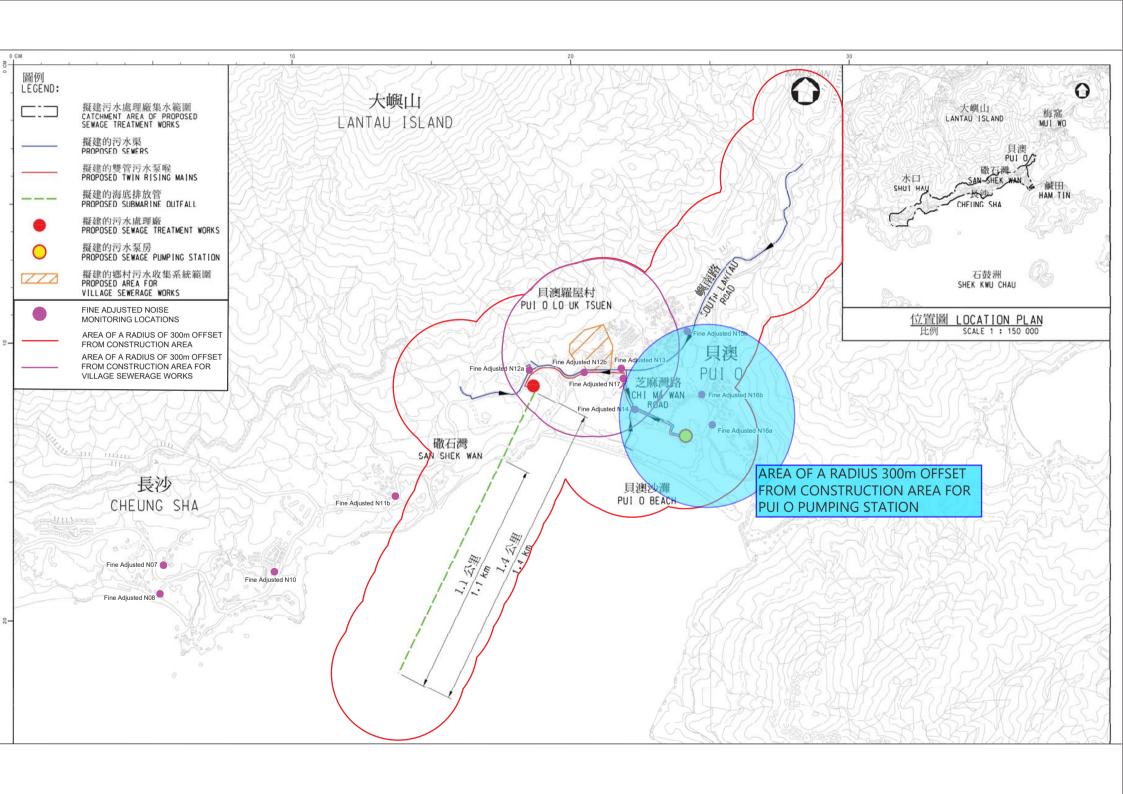


Figure 2.4 Locations of Water Quality Monitoring Stations

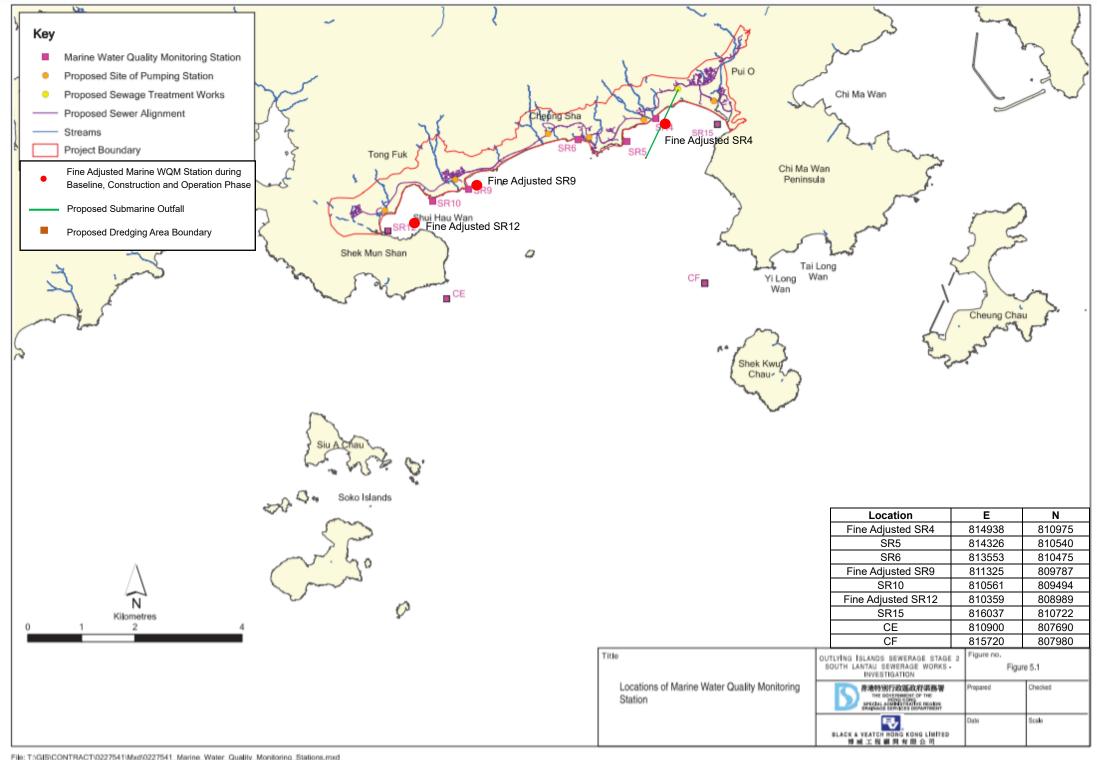


Figure 2.5

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

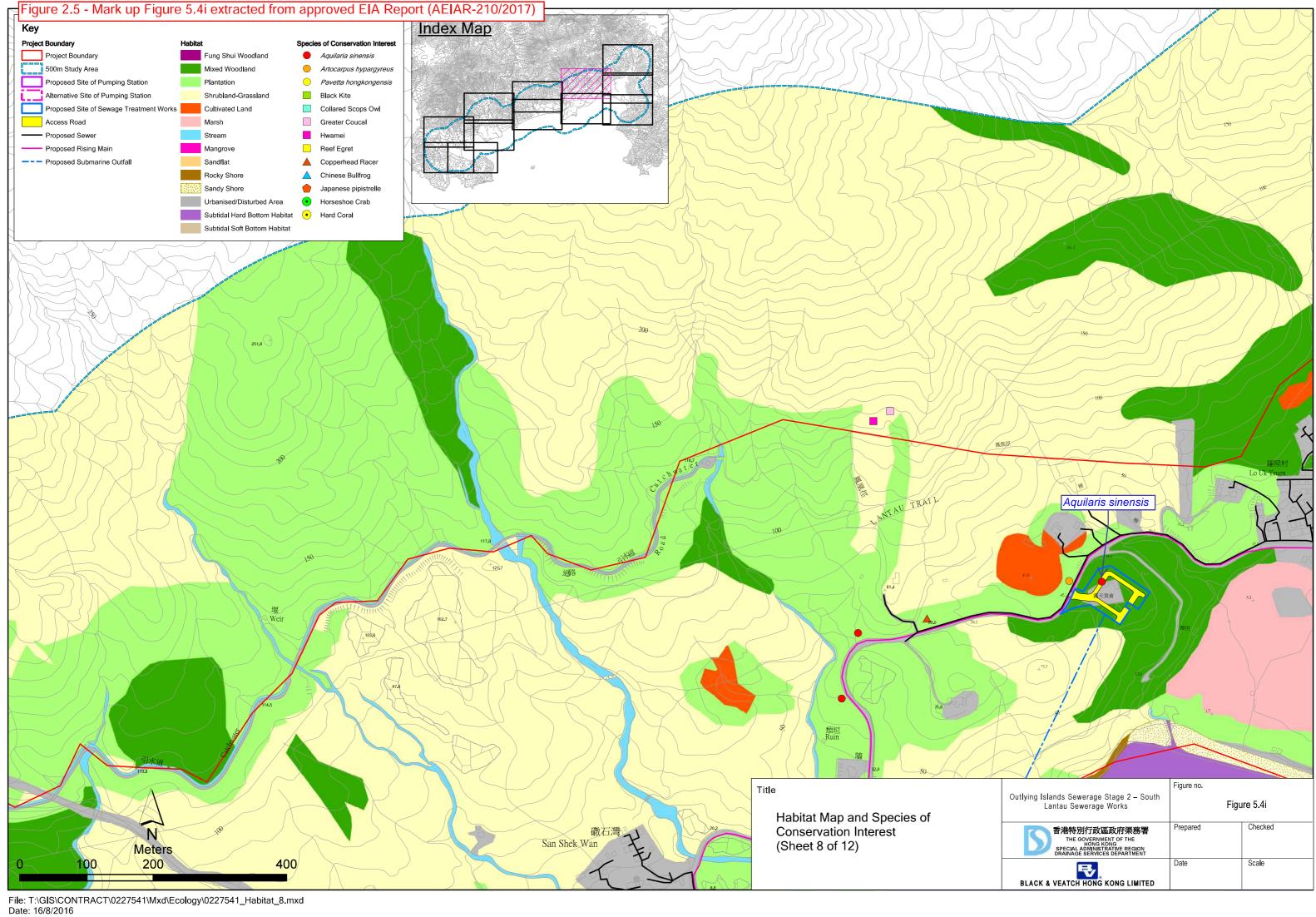
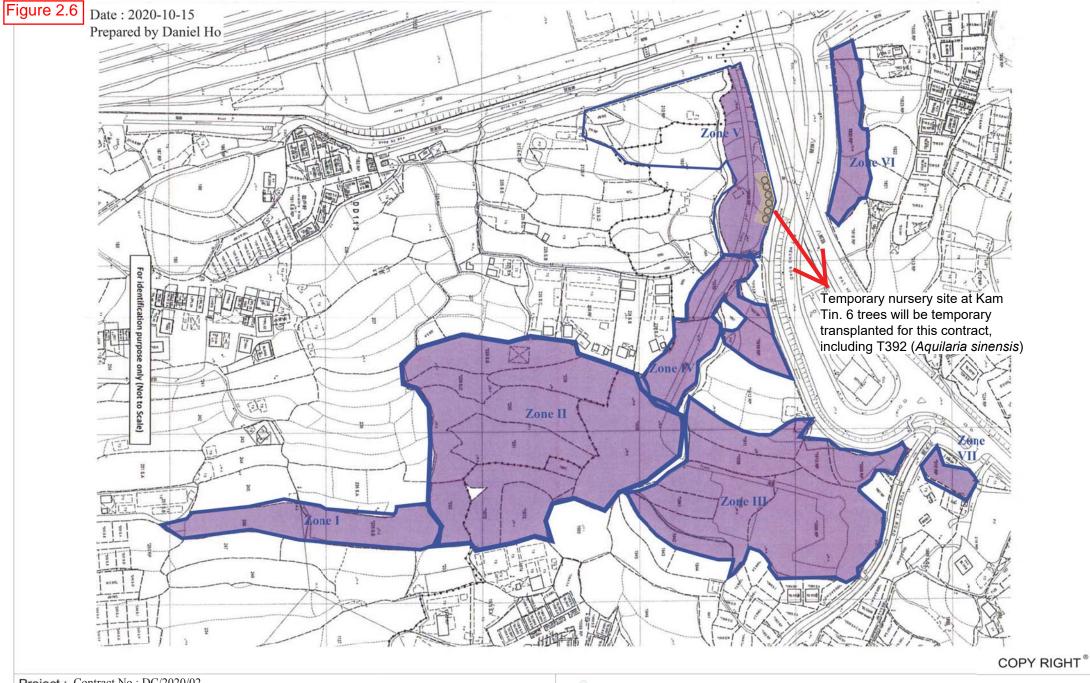


Figure 2.6 Location Plan for Temporary Holding Nursery



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

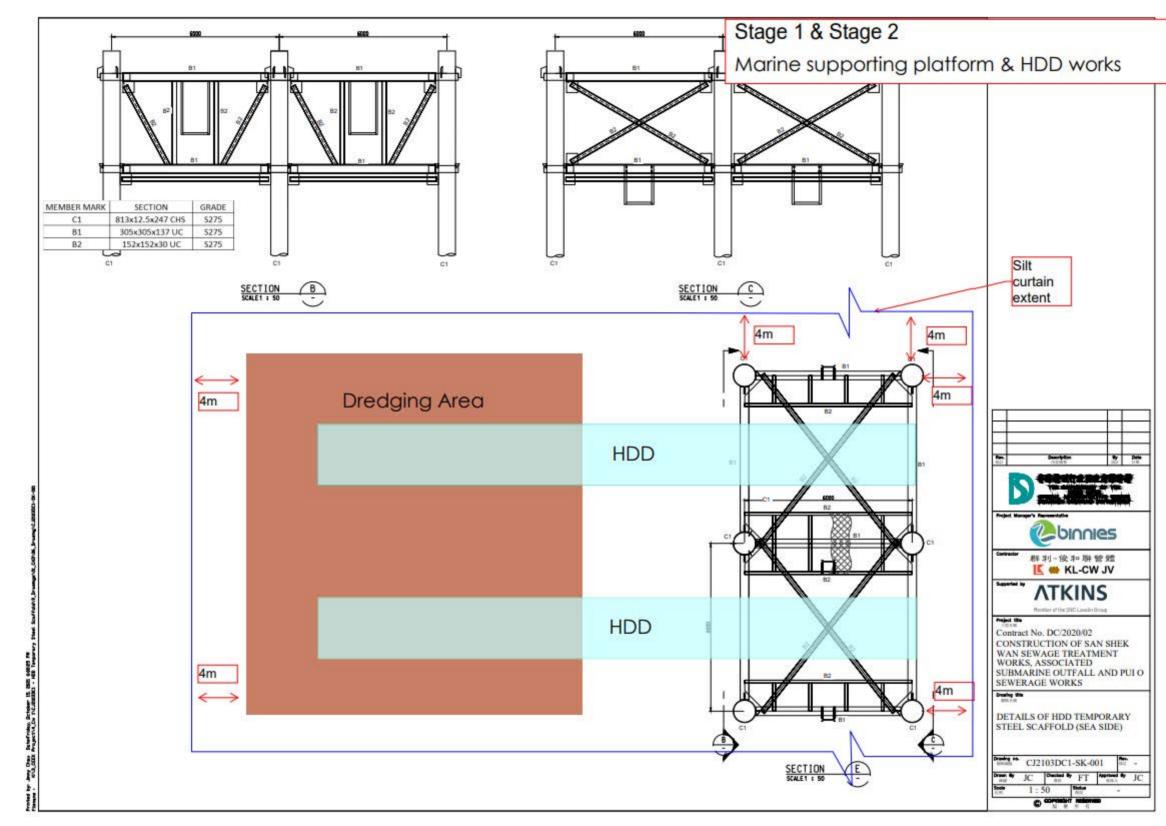


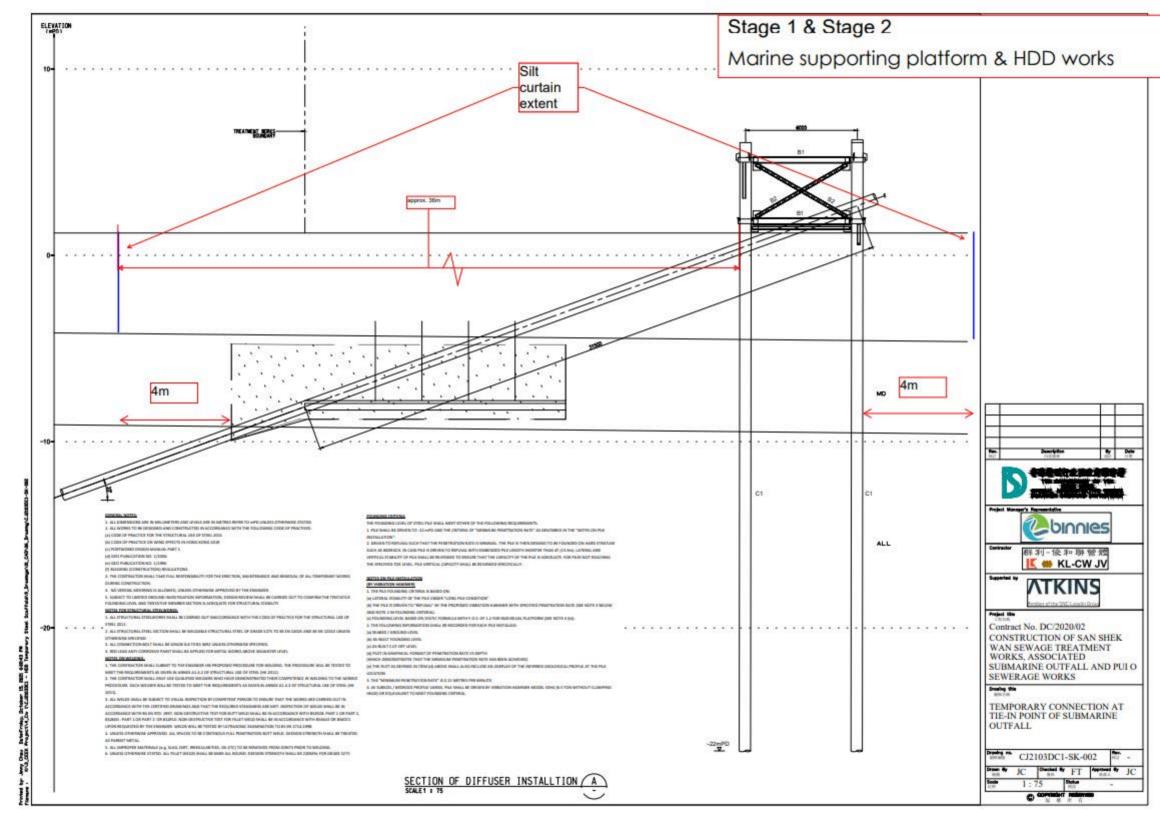
Toyo Greenland Co., Ltd.

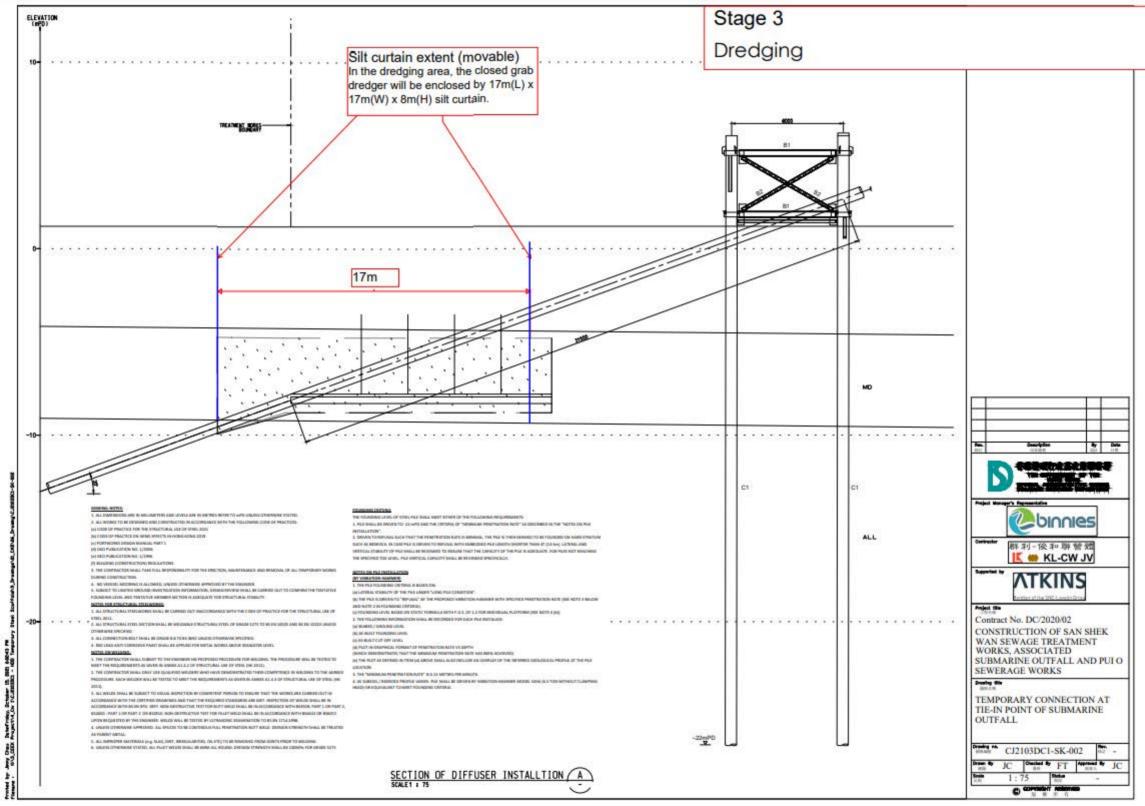
Check : Ho Tat Pui, Daniel	Scale : N.T.S.	Rev.
Ref : C3109/22/TGD0164	Date : 10 January 2022	00

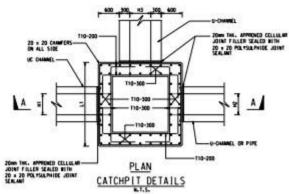
Figure 2.7

Typical Details of Proposed Silt Curtain

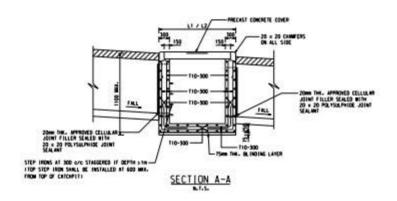


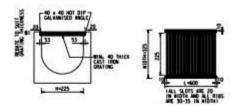




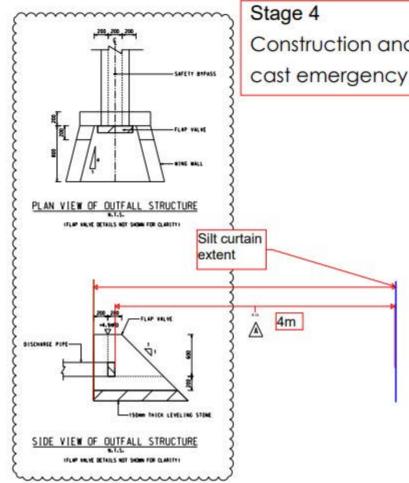


IL1 - 900 - GREATER OF HI OR H2- L2 - 900 - GREATER OF H3 OR H41





TYPICAL SECTION OF U-CHANNEL WITH CAST IRON GRATING



Coppright by Black & Verteb Song Kong Limited

6. FOR LOCATION OF OMNTALL BEFERS TO DESMINES NO. 178711/080/25Carthurstown.

Construction and installation of precast emergency outfall

> 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

178711/B&V/CS/001

H.T.S.

BLACK & VEATCH HONG KONG LIMITED

Appendix 4.1

Copies of Calibration Certificates



香港新界葵涌永基路22-24號好爸爸創科大廈 Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com



2



CERTIFICATE OF CALIBRATION

Certificate No.:

23CA0508 02-04

Page

of

Item tested

Description: Manufacturer:

Adaptors used:

Sound Level Meter (Class 1) Larson Davis

Type/Model No.: Serial/Equipment No.:

LxT1 0005062 Microphone PCB 377B02 173734

Preamp **PCB** PRMLxT1L 042836

Item submitted by

Customer Name:

Lam Environmental Services Limited

Address of Customer:

Request No .: Date of receipt:

08-May-2023

Date of test:

11-May-2023

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Model:

Serial No.

Expiry Date: 23-Aug-2023

Traceable to: CIGISMEC

Signal generator

B&K 4226 DS 360

2288444 61227

08-Jun-2023

CEPREI

Ambient conditions

Temperature:

22 ± 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 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.

Feng

Approved Signatory:

Date:

13-May-2023

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.

C Soils & Materials Engineering Co., Ltd.

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



香港新界麥涌永基路22-24號好爸爸創科大廈 Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com



2



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

23CA0508 02-04

Page

0

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
Self-generated noise	Α	Pass	0.3	
Och-generated holde	Č	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	
and American Agencia (Construction and American State (Construction of the Construction of the Constructi	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

Ellu -

Checked by:

Chan Yuk Yiu

Date:

 13-May-2023

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



SMECLab

香港新界葵涌永基路22-24號好爸爸創科大廈 Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com

Test Data for Sound Level Meter Page 1 of 5

Sound level meter type:

LxT1

Serial No.

0005062

Date 11-May-2023

Microphone Preamp type: type: 377B02 PRMLxT1L Serial No. Serial No. 173734 042836

Report: 23CA0508 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

12.5

dB

Noise level in Lin

19.5

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	al level	Tolerance	Devia	ation
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	118.9	118.9	0.7	-0.1	-0.1
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	49.0	49.0	0.7	0.0	0.0
44.0	44.0	44.0	0.7	0.0	0.0
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

Form No.: CAWS 152/Issue 1/Rev. B/01/02/2007



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Test Data for Sound Level Meter

Page 2 of 5

Sound level meter type:		LxT1		Seri	ial No.	0005062	Da	te 11-M	ay-2023
Microphone Preamp	type: type:	377B02 PRMLxT1L			ial No. ial No.	173734 042836	Re	port: 23CA	0508 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
20.120	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	54.6	1.5	1.5	0.0
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	90.7	1.0	1.0	-0.1
1995.0	94.0	95.2	95.2	1.0	1.0	0.0
3981.0	94.0	95.0	95.0	1.0	1.0	0.0
7943.0	94.0	92.9	92.9	1.5	3.0	0.0
12590.0	94.0	89.7	89.7	3.0	6.0	0.0

Frequency weighting C:

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	91.0	91.0	1.5	1.5	0.0	
63.1	94.0	93.2	93.1	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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Form No.: CAWS 152/Issue 1/Rev. B/01/02/2007



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Test Data for Sound Level Meter

Page 3 of 5

Sound level me	eter type:	LxT	1	Serial No.	000	5062	Date	11-May-2023
Microphone Preamp	type: type:		B02 MLxT1L	Serial No. Serial No.	173 042	734 836	Report:	23CA0508 02-04
1995.0	94.0		93.8	93.8	1.0	1.0	0.0	
3981.0	94.0		93.2	93.2	1.0	1.0	0.0	
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	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	94.0	94.0	1.5	1.5	0.0
63.1	94.0	94.0	93.9	1.5	1.5	-0.1
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	94.0	1.0	1.0	0.0
7943.0	94.0	94.0	94.0	1.5	3.0	0.0
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)

Ref. level	Expected level	Actual level	Tolera	nce(dB)	Deviation
dB	dB	dB	+	-	dB
116.0	115.0	115.0	1.0	1.0	0.0

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	Expected level	Actual level Tolerar	Tolerance(dB)		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)
	TVCIGITITIO Z. SCI LITE GENERALOI SIGNAL LO SINGIO, ELPOSITI

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
119.0	119.0	119.4	2.0	0.4

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Test Data for Sound Level Meter

Page 4 of 5

Sound level meter type:

LxT1

Serial No.

0005062

Date 11-May-2023

Report: 23CA0508 02-04

Microphone Preamp type: type: 377B02 PRMLxT1L Serial No. 173734 Serial No. 042836

Negative polarities:

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
119.0	119.0	119.4	2.0	0.4

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:

40 Hz

Tone burst signal:

11 cycles of a sine wave of frequency 2000 Hz.

(Set to INT)

	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
Time wighting	dB	dB	indication(dB)	+/- dB	dB
Slow	114.0+6.6	114.0	113.8	0.5	-0.2

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 burs	Single burst indication		Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
120.0	111.2	111.1	2.0	-0.1

Repeated at 100 Hz

Ref. Level	Repeated bu	Repeated burst indication		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	89.8	1.0	-0.2	60s integ.
10000	80.0	80.0	79.8	1.0	-0.2	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.

0005062

Date 11-May-2023

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

173734 042836

Report: 23CA0508 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:

10 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

Integration time:

10 sec

Single burst duration:

1 msec

Rms level	Level reduced by	Expected 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	Expected level Actual level		Tolerance (dB)		
Hz	dB	Measured (dB)	+	+ -		
1000	94.0	94.0	0.0	0.0	0.0	
125	77.9	77.9	1.0	1.0	0.0	
8000	92.9	90.8	1.5	3.0	-2.1	

-----END-----

Form No: CAWS 152/Issue 1/Rev. B/01/02/2007



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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



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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

DEREK LO

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD

ADDRESS:

19/F, REMEX CENTRE,

42 WONG CHUK HANG ROAD.

HONG KONG

WORK ORDER:

HK2406440

SUB-BATCH:

0

LABORATORY:

HONG KONG

DATE RECEIVED:

16-Feb-2024

DATE OF ISSUE:

27-Feb-2024

GENERAL COMMENTS

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

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

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

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

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

EQUIPMENT INFORMATION

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

Equipment Type:

Multifunctional Meter

Service Nature:

Performance Check

Scope:

Dissolved Oxygen, pH Value, Salinity and Temperature

Brand Name/ Model No.:

[YSI]/ [Professional Plus]

Serial No./ Equipment No.:

[16J104708/17F100236]/[N/A]

Date of Calibration:

23-February-2024

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK2406440

SUB-BATCH:

27-Feb-2024

DATE OF ISSUE: CLIENT: LAM ENVIRONMENTAL SERVICES LTD

Equipment Type: Multifunctional Meter Brand Name/

0

Model No.:

[YSI]/ [Professional Plus]

Serial No./

[16J104708/17F100236]/[N/A]

Equipment No.: Date of Calibration:

23-February-2024

Date of Next Calibration:

23-May-2024

PARAMETERS:

Dissolved Oxygen

Method Ref: APHA (23rd edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)		
2.99	2.84	-0.15		
5.58	5.50	-0.08		
7.11	7.15	+0.04		
	Tolerance Limit (mg/L)	±0.20		

pH Value

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

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	4.08	+0.08
7.0	7.09	+0.09
10.0	10.00	+0.00
	Tolerance Limit (pH unit)	±0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)		
0	0.01	H-		
10	9.84	-1.6		
20	19.76	-1.2		
30	29.54	-1.5		
	Tolerance Limit (%)	±10.0		

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

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER:

HK2406440

ALS

SUB-BATCH:

0

DATE OF ISSUE:

27-Feb-2024

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.: [YSI]/ [Professional Plus]

Serial No./

[16J104708/17F100236]/[N/A]

Equipment No.: Date of Calibration:

23-February-2024

Date of Next Calibration:

23-May-2024

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
6.5	6.4	-0.1
22.5	22.4	-0.1
43.5	42.5	-1.0
	Tolerance Limit (°C)	±2.0

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

1:5

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics



Calibration Report

Calibration No. : 52508051- A29E3201

Laboratory : FT LaboratoriesLtd.

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

Telephone : (852) 2758 4861

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.: 1807073

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 : 29 Jan.,2024

Date of Calibration : 05 Feb.,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:

Notes:

Date of Issue: <u>- 9 FEB 2024</u>

CHAN Joseph Nicolas (Sen or Technical Engineer)

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

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



Calibration Report

Calibration No.

52508051- A29E3201

Results

Turbidity of standard solution used (NTU)	Measured value (NTU)	Error (%)
0	0	
4	4.00	0.00%
10	10.00	0.00%
40	39.98	-0.05%
100	99.96	-0.04%
400	399.1	-0.22%
1000	999.2	-0.08%

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:

05 Feb., 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) Impact Environmental Monitoring Schedule

Mar 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
25 Feb	26 Feb	27 Feb	28 Feb	29 Feb Noise Monitoring	01 Mar	02 Mar
	Mid-Ebb 13:31 Mid-Flood 7:52 04 Mai		Mid-Ebb 14:29 Mid-Flood 8:32 06 Mar		Mid-Ebb 15:38 Mid-Flood 9:16 08 Mar	09 Mar
				Noise Monitoring		WQM for Mid-Flood and Mid-Edd suspended due to Strong Monsoon Signal
		Mid-Ebb 18:45*		Mid-Ebb 10:40*		Mid-Ebb 12:07
10 Mar	11 Mai	Mid-Flood 8:18	13 Mar	Mid-Flood 15:06 14 Mar	15 Mar	Mid-Flood 17:23 16 Mar
			WQM for Mid-ebb suspended due to Strong Monsoon Signal	Noise Monitoring		
	Mid-Ebb 13:15		Mid-Ebb 14:29		Mid-Ebb 16:01	
17 Mar	Mid-Flood 7:22 18 Mai		Mid-Flood 8:17 20 Mar		Mid-Flood 9:15 22 Mar	23 Mar
				Noise Monitoring		
		Mid-Ebb 18:45* Mid-Flood 8:52		Mid-Ebb 11:14* Mid-Flood 16:04		Mid-Ebb 11:56 Mid-Flood 17:31
24 Mar	25 Mai	' 26 Mar	27 Mar	28 Mar	29 Mar	30 Mar
	Mid-Ebb 12:36 Mid-Flood 18:44		Mid-Ebb 13:30 Mid-Flood 7:22		Mid-Ebb 14:30 Mid-Flood 8:01	



CONTRACT NO: SD 15/2022

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

Tentative Impact Marine Water Quality Monitoring Schedule (Rev. 3) Apr 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.

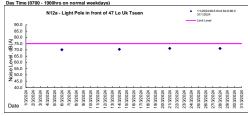
02 Apr	03	Apr 0	4 Apr	05 Apr	06 A <u>r</u>
,					
1			Mid-Ebb Mid-Flood	10:25* 15:13	
09 Apr	10	Apr 1	1 Apr	12 Apr	13 Aբ
			Mid-Ebb Mid-Flood	14:50 8:03	
				19 Apr	20 Ap
			Mid-Ebb	10:41	
				15:49 26 Apr	27 Ap
·					
			Mid-Ebb	13:31	
					04 Ma
337,	·		,		0
					id-Ebb 9:5 id-Flood 15:0
	09 Apr	Mid-Flood 8 09 Apr 10 Mid-Ebb 13 Mid-Flood 5 Mid-Flood 9 23 Apr 24 Mid-Ebb 12 Mid-Flood 9 Mid-Flood 18	Mid-Flood 8:00* 09 Apr 10 Apr 1 Mid-Ebb 13:24 Mid-Flood 7:03 16 Apr 17 Apr 1 Mid-Ebb 18:45* Mid-Flood 9:30* 23 Apr 24 Apr 2 Mid-Ebb 12:34 Mid-Flood 18:05* 30 Apr 01 May 02	Mid-Flood 8:00* 09 Apr 10 Apr 11 Apr Mid-Ebb 13:24 Mid-Flood 7:03 Mid-Flood 17 Apr 18 Apr Mid-Ebb Mid-Flood 23 Apr 24 Apr 25 Apr Mid-Ebb Mid-Flood 18:05* Mid-Flood 30 Apr 01 May 02 May	Mid-Flood 8:00* Mid-Flood 15:13 09 Apr 10 Apr 11 Apr 12 Apr Mid-Ebb 13:24 Mid-Ebb 14:50 Mid-Flood 7:03 Mid-Flood 8:03 16 Apr 17 Apr 18 Apr 19 Apr Mid-Ebb 18:45* Mid-Ebb 10:41 Mid-Flood 9:30* 25 Apr 26 Apr 23 Apr 24 Apr 25 Apr 26 Apr Mid-Ebb 13:31 Mid-Flood 6:52 30 Apr 01 May 02 May 03 May Mid-Ebb 17:40* Mid

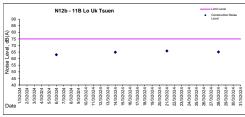
Appendix 4.3

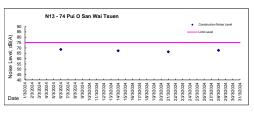
Noise Monitoring Results and Graphical Presentations

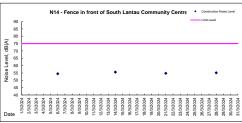
Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)

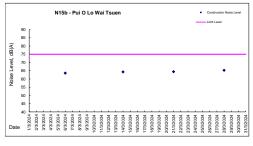
am

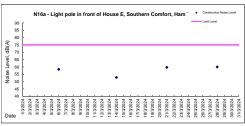


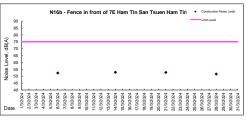


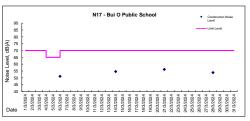














Day Time (0700 - 1900hrs on normal weekdays)

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

					Measur	ement No	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level		
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Major Construction	Other Noise
			Cneck		Unit	: dB(A), (5	-min)		Unit:	dB(A), (30-min)		Noise Source(s)*	Source(s)
				14:15	68.6	71.8	58.4						
				14:20	73.1	75.6	59.5	Ī					
6 Mar 2024	Sunny	0.0	94.1	14:25	67.8	71.3	56.8	70.1	73.3	<baseline level<="" td=""><td>75</td><td>27/1</td><td>m or</td></baseline>	75	27/1	m or
6 Mar 2024	Sunny	0.0	94.1	14:30	71.8	73.5	60.2	70.1	73.3	<baseline level<="" td=""><td>/5</td><td>N/A</td><td>Traffic</td></baseline>	/5	N/A	Traffic
				14:35	67.3	70.5	67.2	Ī					
				14:40	68.6	71.6	67.5	Ī					
				14:15	70.2	73.1	61.2						
				14:20	71.7	74.4	61.3	Ī				N/A	
	0	0.0	94.1	14:25	66.9	70.2	63.4	70.4	73.3	<baseline level<="" td=""><td>75</td><td></td></baseline>	75		
14 Mar 2024	Sunny	0.0	94.1	14:30	71.3	73.4	61.4	70.4	73.3	<baseline level<="" td=""><td>/5</td><td rowspan="3">Traffic</td></baseline>	/5		Traffic
				14:35	70.6	73.6	66.4	Ī					
				14:40	70.3	73.3	65.6	Ī					
				14:15	71.3	74.5	62.6						
				14:20	70.6	73.6	61.8	Ī					
				14:25	65.5	68.6	56.7	71.2	73.3	<baseline level<="" td=""><td>75</td><td></td></baseline>	75		
21 Mar 2024	Sunny	0.0	94.1	14:30	70.5	73.5	61.7	71.2	73.3	<baseline level<="" td=""><td>/5</td><td>N/A</td><td>Traffic</td></baseline>	/5	N/A	Traffic
				14:35	73.8	77.2	65.1	Ī					
				14:40	71.8	75.1	63.2	Ī					
				14:15	71.5	75.5	61.2						
				14:20	69.9	73.4	65.1	† I					
	Sunny	0.0	94.1	14:25	67.8	72.2	62.3	71.1					
28 Mar 2024	Sunny	0.0	94.1	14:30	70.6	74.7	62.6	/1.1	73.3	<	<baseline 75<="" level="" td=""><td>N/A</td><td>Traffic</td></baseline>	N/A	Traffic
				14:35	74.1	77.5	63.5	1					
				14:40	70.3	74.5	63.6	† I					

 $^{^{\}star}$ 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		1	1	Мерент	ement No	lava I asi		5 " 1 1	0 (" 11)		Major	
Date	Moothor	Wind Speed	Calibration	Time	Leq	L10	L90	Average Noise Level Leq	Baseline Level Leq	Construction Noise Level	Action Level		Other Noise
Date	weather	wind Speed	Check	Time				Leq		Leq	Leq	Construction	Source(s)
						dB(A), (5		1	Unit:	dB(A), (30-min)		Noise Source(s)*	* * * * * * * * * * * * * * * * * * * *
				13:40	62.9	67.4	55.5						
				13:45	62.8	68.5	55.6						
6 Mar 2024	Sunny	0.0	94.1	13:50	61.3	67.6	55.2	63.0	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				13:55	64.5	64.8	54.3						
				14:00	63.5	68.4	55.8						
				14:05	62.3	65.3	56.4						
				13:40	63.8	68.3	56.1						
				13:45	65.2	69.1	56.4					N/A	
14 Mar 2024	Sunny	0.0	94.1	13:50	64.0	69.2	55.7	64.9	76.8	<baseline level<="" td=""><td>75</td><td>Traffic</td></baseline>	75		Traffic
				13:55	64.8	70.2	58.2				-		
				14:00	66.4	71.0	56.3						
				14:05	64.8	68.5	56.7						
				13:40	62.8	67.9	54.2						
				13:45	63.5	68.4	56.8						
21 Mar 2024	Sunny	0.0	94.1	13:50	64.6	69.5	55.5	65.9	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
	Curry			13:55	68.1	73.2	59.7	00.0	70.0	ADGOOMIO EOVOI	70	IVA	Trairie
				14:00	67.8	72.6	54.2						
				14:05	65.6	70.3	53.2						
				13:40	63.5	66.5	53.1						
	13:45	64.5	68.8	55.8						Í			
28 Mar 2024	Sunny	0.0	94.1	13:50	64.2	67.7	55.0	65.1	76.8	<baseline level<="" td=""><td rowspan="2">75</td><td>N/A</td><td rowspan="2">Traffic</td></baseline>	75	N/A	Traffic
20 IVIdI 2024	Suring	0.0	94.1	13:55	66.1	71.4	56.1	00.1	70.0			IN/A	
				14:00	66.7	71.5	54.2						
				14:05	64.8	71.3	53.3	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

		Wind Speed	0 17		Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Main Constanting	Other
Date	Weather		Calibration Check	Time	Leq	Leq L10 L90		Leq	Leq	Leq	Leq	Major Construction	Noise
					Unit	: dB(A), (5	-min)		Unit:	Noise Source(s)*	Source(s		
				11:30	67.8	71.5	60.6		73.6				
6 Mar 2024				11:35	70.2	73.5	62.4			ı			
	Sunny	0.0	94.1	11:40	66.5	70.2	60.3	68.6		<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
0 Mai 202 i	Cumy	0.0	0	11:45	66.4	70.6	62.5	00.0		<daseillie level<="" td=""><td>70</td><td>IVA</td><td>Trairie</td></daseillie>	70	IVA	Trairie
				11:50	71.3	75.6	64.4]					
				11:55	66.2	67.5	59.8						
	Sunnv	0.0		11:30	68.4	72.1	61.4	67.3	73.6	<baseline level<="" td=""><td></td><td rowspan="2"></td><td rowspan="2"></td></baseline>			
			94.1	11:35	67.2	71.8	61.0						
14 Mar 2024				11:40	66.7	71.5	60.3				75	N/A	Traffic
	Cumy			11:45	65.2	68.3	58.6				70	IVA	Titalic
				11:50	68.7	72.2	62.0						
				11:55	66.7	69.4	60.0						
	Sunny	0.0	94.1	11:30	68.7	72.8	61.2	66.4	73.6				
				11:35	65.9	70.2	58.6					N/A	Traffic
21 Mar 2024				11:40	66.4	70.6	59.1			<baseline level<="" td=""><td>75</td></baseline>	75		
				11:45	61.3	65.7	53.8					1071	
				11:50	65.8	68.9	58.6						
				11:55	67.2	71.2	59.1						
		0.0		11:30	68.4	73.0	62.0	67.8	73.6	<baseline level<="" td=""><td></td><td>1</td><td rowspan="4">Traffic</td></baseline>		1	Traffic
				11:35	69.6	74.3	62.5						
28 Mar 2024	Sunny		94.1	11:40	67.1	70.0	59.8				75	N/A	
				11:45	65.4	69.8	57.3					10/1	
						59.9					1	1	
				11:55	67.7	72.6	59.6					1	

^{*} 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

			Calibration					Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Other
Date	Weather	Wind Speed	Check	Time	Leq L10 L90 Unit: dB(A), (5-min)		Leq	Leq	Leq Leq		Construct	Noise	
			Official					Unit:	dB(A), (30-min)		ion Noise	Source(
6 Mar 2024				10:55	53.5	55.7	44.9	-	62.2				
				11:00	54.1	56.3	45.6						
	Sunny	0.0	94.1	11:05	54.6	56.8	46.9	54.5		<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
	Suriny	0.0	34.1	11:10	55.9	58.1	45.7	34.3		 	75	IN/A	Hain
				11:15	1:15 54.2 56.5	56.5	45.6						
				11:20	54.2	56.5	46.8						
14 Mar 2024		0.0		10:55	54.6	56.8	47.1	55.6	62.2	<baseline level<="" td=""><td rowspan="3">75</td><td></td><td></td></baseline>	75		
	Sunny			11:00	54.9	58.9	46.7						
			94.1	11:05	56.7	58.1	48.2					N/A	Traffic
	Suriny		34.1	11:10	56.7	58.2	46.6			Chaseille Level	75	IN/A	
				11:15	55.0	57.3	47.3						
				11:20	55.3	57.5	47.3						
	Sunny	0.0		10:55	53.9	56.5	47.0		62.2				
				11:00	54.0	56.7	47.2			<baseline level<="" td=""><td rowspan="2">75</td><td></td><td rowspan="2">Traffic</td></baseline>	75		Traffic
21 Mar 2024			94.1	11:05	55.4	58.0	47.2	54.8				N/A	
21 Wai 2024	Suriny	0.0	34.1	11:10	56.1	58.8	45.1	34.0	02.2	Chaseille Level	IN/A	1 raffic	
				11:15	54.1	56.8	46.7						
				11:20	54.8	57.1	47.4						
28 Mar 2024		0.0		10:55	54.3	57.2	44.7	55.1	62.2	<baseline level<="" td=""><td rowspan="6">75</td><td></td><td></td></baseline>	75		
				11:00	53.4	56.2	44.8						Traffic
	Sunny		94.1	11:05	55.2	56.9	45.5						
20 Ividi 2024	Julily	0.0	34.1	11:10	56.8	57.5	44.5					N/A	
				11:15	53.9	58.6	45.2						
			l i	11:20	56.2	57.3	46.4						

^{*} 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	Unit: dB(A), (5-min)		Unit:		dB(A), (30-min)		Source(s)*	
6 Mar 2024				15:00	64.3	67.9	60.5					N/A	
		0.0		15:05	62.7	66.4	58.6		70.7				
	Sunny		94.1	15:10	64.1	67.8	59.4	63.6		<baseline level<="" td=""><td>75</td><td>Traffic</td></baseline>	75		Traffic
	Suriny	0.0	34.1	15:15	64.1	67.7	60.0	05.0	70.7	CDasellile Level	73	IN/A	Trainc
				15:20	62.6	66.3	58.5						
				15:25	63.4	67.0	58.9						
		0.0		15:00	64.2	67.5	60.3	64.3	70.7	70.7 <baseline level<="" td=""><td rowspan="2"></td><td></td><td></td></baseline>			
				15:05	63.1	66.4	58.7						
14 Mar 2024	Sunny		94.1	15:10	66.2	68.7	58.7				75	N/A	T66 - D E
14 Widi 2024	Guilly		34.1	15:15	64.7	68.0	59.4		70.7		.0	IN/A	Traffic, Beverage Factory
				15:20	63.4	66.8	58.4						
				15:25	63.4	66.7	58.4						
	Sunny	0.0		15:00	64.1	67.3	59.7	64.5	70.7	<baseline level<="" td=""><td></td><td rowspan="6">N/A</td><td></td></baseline>		N/A	
				15:05	63.2	66.6	58.6				75		
21 Mar 2024			94.1	15:10	66.4	69.8	57.2						Traffic
21 Wai 2024	Outility		OT. 1	15:15	65.3	68.6	59.5						Hanne
				15:20	63.6	67.3	57.6						
				15:25	63.2	66.6	57.3						
				15:00	65.3	69.1	60.6						
				15:05	63.2	67.9	59.8						
28 Mar 2024	Sunny	0.0	94.1	15:10	66.2	70.2 58.6 65.3	70.7	<baseline level<="" td=""><td>75</td><td>27/4</td><td>Traffic</td></baseline>	75	27/4	Traffic		
20 Mai 2024	Curiny	5.0	5-1.1	15:15	66.0	69.7	61.7	65.3	. 5.7	<daseille level<="" p=""></daseille>	75	N/A	TIATHC
				15:20	64.5	67.5	58.7						
				15:25	65.9	69.2	58.5						

^{*} 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		Measurement Noise 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	
					Unit:	Unit: dB(A), (5-min)		Unit: o		dB(A), (30-min)		Noise Source(s)*	Source(s)
				9:45	58.5	60.9	43.5						
				9:50	58.6	57.9	45.2						
6 Mar 2024	Sunny	0.0	94.1	9:55	56.9	59.7	45.3	58.4	68.1	<baseline level<="" td=""><td>75</td><td>Crane</td><td>Traffic</td></baseline>	75	Crane	Traffic
	Suring	0.0	34.1	10:00	58.2	61.0	47.4	30.4	66.1	CDasellile Level	73	Crane	Traffic
				10:05	57.8	60.7	48.0						
				10:10	59.9	62.8	48.2						
		0.0		9:45	60.4	63.2	45.8	60.9	68.1	<baseline level<="" td=""><td></td><td rowspan="6">N/A</td><td rowspan="2"></td></baseline>		N/A	
			94.1	9:50	61.2	62.0	47.1						
14 Mar 2024	Sunnv			9:55	61.8	64.2	48.6				75		Traffic
2024	Curry		01.1	10:00	61.3	64.2	47.5				.0		Tranc
				10:05	59.9	63.2	48.3						
				10:10	60.4	63.4	47.9						
		0.0		9:45	59.0	61.6	47.6	59.7	68.1			N/A	
				9:50	59.9	62.4	48.2			68.1 <baseline level<="" td=""><td rowspan="2">75</td><td rowspan="4">Traffic</td></baseline>	75		Traffic
21 Mar 2024	Sunny		94.1	9:55	61.5	64.1	49.1						
			0	10:00	60.6	63.2	48.6					IVA	
				10:05	58.7	61.3	47.0						
				10:10	57.4	60.0	46.7						
28 Mar 2024				9:45	59.6	61.0	48.4	60.0	68.1	<baseline level<="" td=""><td></td><td></td><td></td></baseline>			
				9:50	58.8	61.3	49.2						Traffic
	Sunny	0.0	94.1	9:55	61.6	63.0	50.1				75	N/A	
	1 '			10:00	60.3	63.8	48.2						
				10:05	59.8	61.3	48.1						
		1		10:10	59.5	61.8	48.6						

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



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

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

			Calibration		Measur	ement Noi	se Level	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)
			CHECK		Unit	: dB(A), (5	-min)		Unit:	dB(A), (30-min)		ion Noise	Source(s)
				10:20	50.6	52.7	43.4						
				10:25	51.5	53.6	44.2						
6 Mar 2024	Sunny	0.0	94.1	10:30	53.3	55.2	45.3	52.3	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
0 IVIAI 2024	Suriny	0.0	34.1	10:35	53.0	55.0	45.6	32.3	00.5	Chaseline Level	75	IN/A	Hanne
				10:40	52.1	54.2	45.1						
				10:45	52.8	55.0	45.5						
				10:20	51.0	53.1	41.5						
				10:25	52.1	54.8	43.2						
14 Mar 2024	Sunny	0.0	94.1	10:30	53.2	56.4	44.5	52.9	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
14 Wai 2024	Suriny	0.0	34.1	10:35	53.2	55.7	44.8	32.5	00.5	Chaseline Level	75	IN/A	Hame
				10:40	52.6	55.2	43.8						
				10:45	54.4	57.1	43.2						
				10:20	51.2	53.3	42.5						
				10:25	52.7	54.6	44.3						
21 Mar 2024	Sunny	0.0	94.1	10:30	52.2	55.0	43.9	52.8	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
21 IVIdi 2024	Suriny	0.0	34.1	10:35	52.6	54.9	44.7	32.0	00.5	Chaseline Level	75	IN/A	Hame
				10:40	52.3	54.7	44.5						
				10:45	54.8	57.1	44.8						
				10:20	51.2	52.9	44.5						
				10:25	51.5	53.2	46.5						
28 Mar 2024	Sunny	0.0	94.1	10:30	51.6	53.6	45.1	51.6	68.5	<baseline level<="" td=""><td>75</td><td>NT/A</td><td>Traffic</td></baseline>	75	NT/A	Traffic
20 Wal 2024	Julily	0.0	54.1	10:35	50.6	52.8	44.4	31.6	00.5	CDascille Level	75	N/A	manne
				10:40	51.3	53.4	44.3						
		1		10:45	52.8	56.1	45.0						

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



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: N17 - Bui O Public School

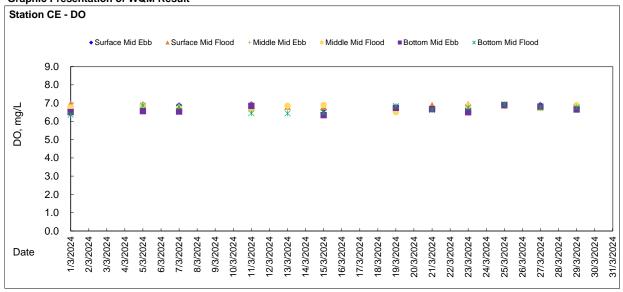
			Calibration		Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level	Major	
Date	Weather	Wind Speed	Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction Noise	Other Noise Source(s)
			CHECK		Unit	dB(A), (5	-min)		Unit:	dB(A), (30-min)	•	Source(s)*	
				13:00	52.1	54.7	48.0						
				13:05	51.4	54.1	46.9						
6 Mar 2024	Sunny	0.2	94.1	13:10	50.7	53.9	46.3	51.1	62.3	<baseline level<="" td=""><td>65</td><td>N/A</td><td>Traffic</td></baseline>	65	N/A	Traffic
0 IVIdi 2024	Suriny	0.2	34.1	13:15	50.2	54.3	46.6	31.1	02.3	CDasellile Level	05	IVA	Tranne
				13:20	51.5	54.3	47.7						
				13:25	50.6	53.5	46.4						
				13:00	54.2	56.8	49.5						
				13:05	54.1	56.9	49.2						
14 Mar 2024	Sunny	0.1	94.1	13:10	54.6	58.2	49.0	54.6	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
14 IVIdi 2024	Outility	0.1	34.1	13:15	55.3	58.2	48.9	34.0	02.5	CDASCING ECVO	70	IVA	Tranne
				13:20	54.9	57.8	49.7						
				13:25	54.6	57.1	49.5						
				13:00	54.6	57.8	48.8						
				13:05	55.1	58.1	49.5						
21 Mar 2024	Sunny	0.0	94.1	13:10	57.3	60.7	49.6	56.2	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
21 Wai 2024	Outility	0.0	34.1	13:15	56.6	60.9	49.2	30.2	02.5	CDASCING ECVO	70	IVA	Hanne
				13:20	56.6	59.8	49.6						
				13:25	56.3	59.3	50.5						
				13:00	51.6	55.6	46.2						
				13:05	52.5	55.8	47.3						
28 Mar 2024	Sunny	0.0	94.1	13:10	53.2	56.7	46.5	53.9	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
	2311119	2.0		13:15	54.9	58.7	48.1	25.0			. •	14/14	HAHIC
				13:20	54.9	58.1	48.3						
				13:25	54.9	58.7	48.6						

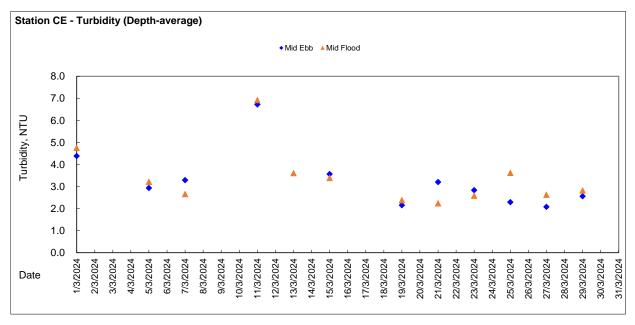
^{*} N/A refers to no major construction noise observed during noise monitoring

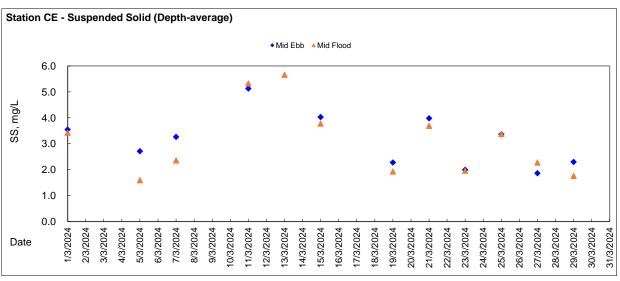
Appendix 4.4

Marine Water Quality Monitoring Results and Graphical Presentations

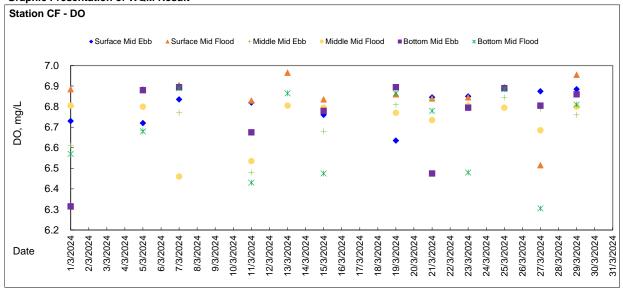


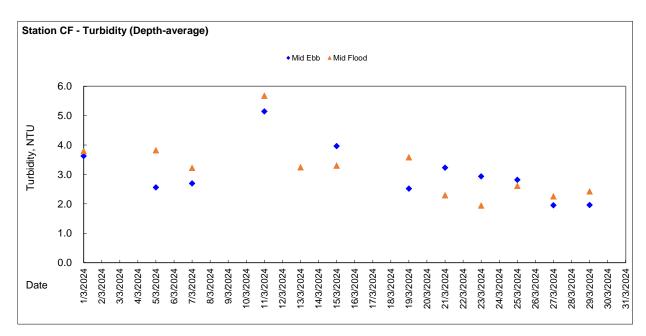


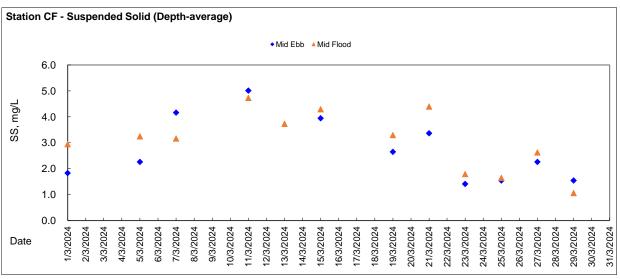




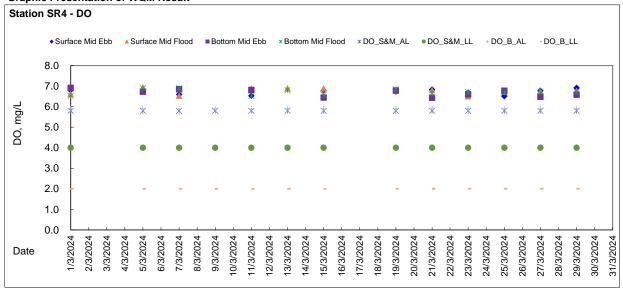


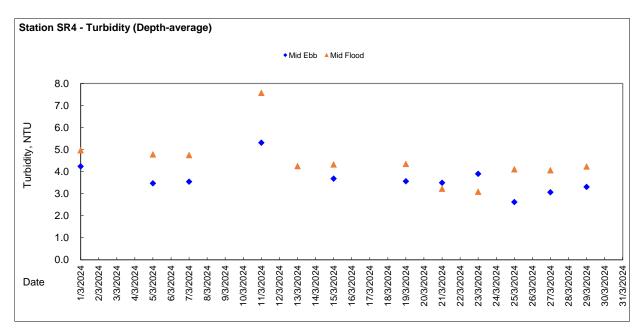


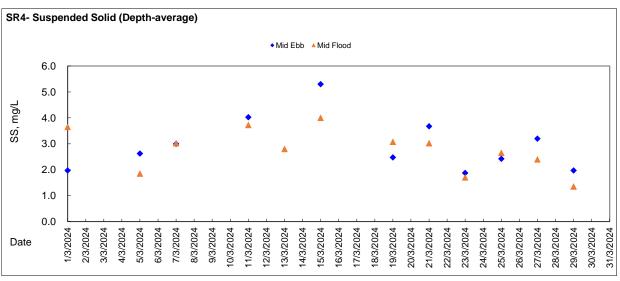




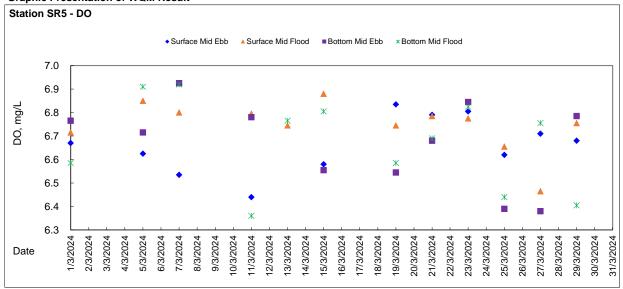


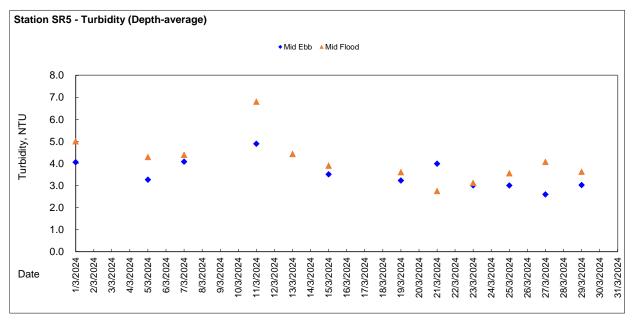


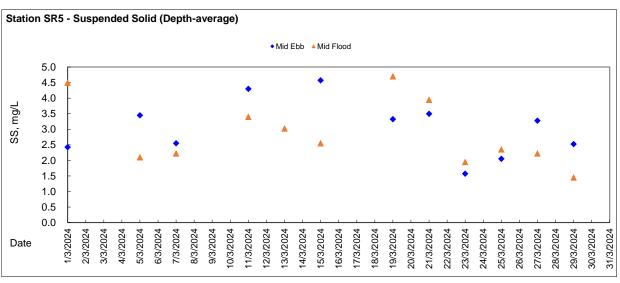






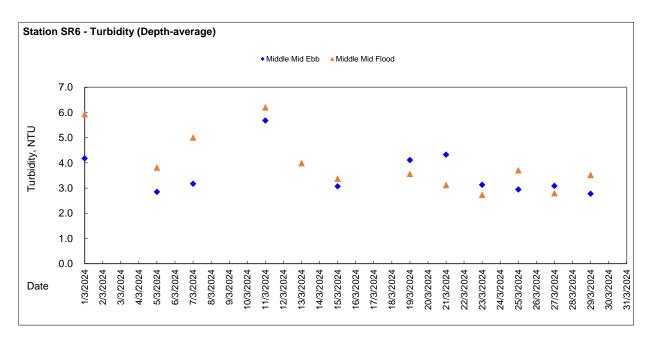


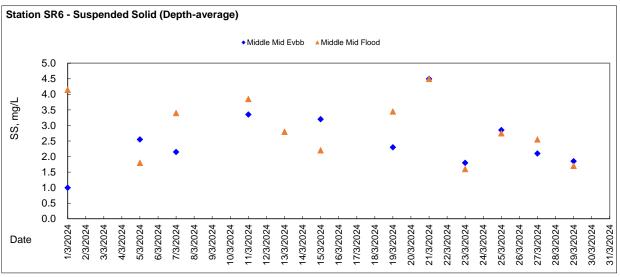




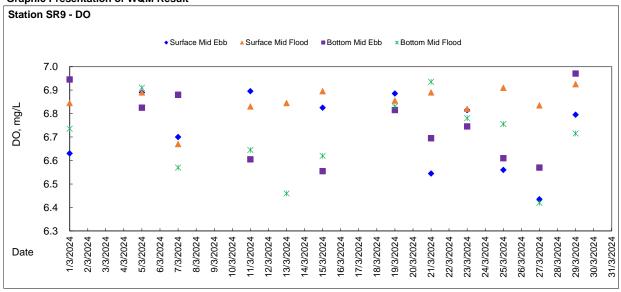


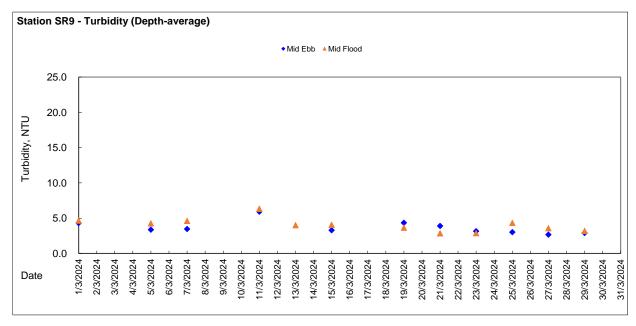
Graphic Presentation of WQM Result Station SR6 - DO Middle Mid Ebb ▲ Middle Mid Flood 7.0 6.9 DO, mg/L 6.8 6.7 6.6 6.5 6.4 3/3/2024 5/3/2024 6/3/2024 7/3/2024 8/3/2024 9/3/2024 11/3/2024 13/3/2024 14/3/2024 15/3/2024 18/3/2024 2/3/2024 10/3/2024 16/3/2024 17/3/2024 19/3/2024 21/3/2024 22/3/2024 28/3/2024 20/3/2024 25/3/2024 27/3/2024 26/3/2024 Date

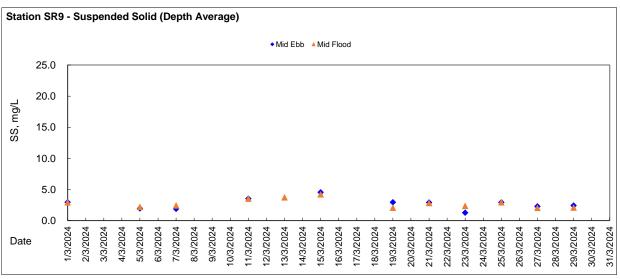












28/3/2024 29/3/2024

27/3/2024

26/3/2024

25/3/2024

24/3/2024



Date

15/3/2024

14/3/2024

16/3/2024 17/3/2024 18/3/2024 19/3/2024 20/3/2024 21/3/2024

7/3/2024

5/3/2024

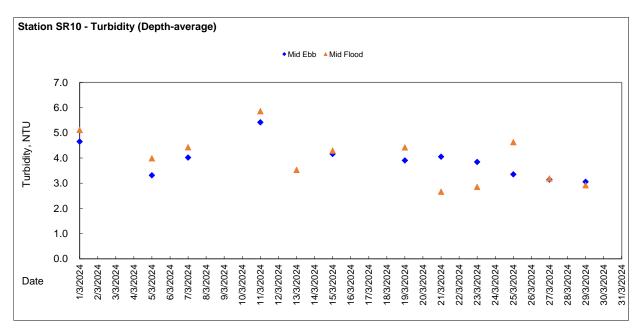
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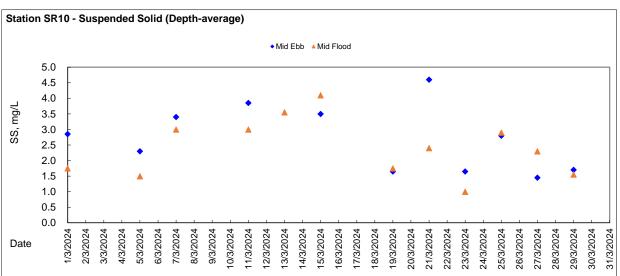
10/3/2024

9/3/2024

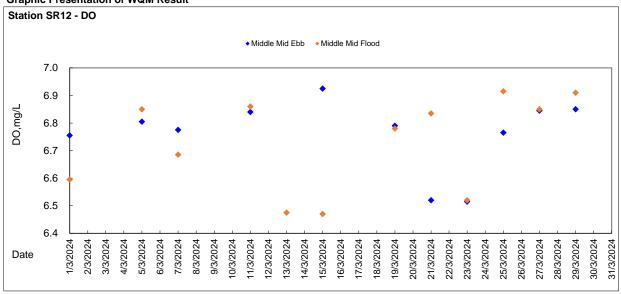
11/3/2024

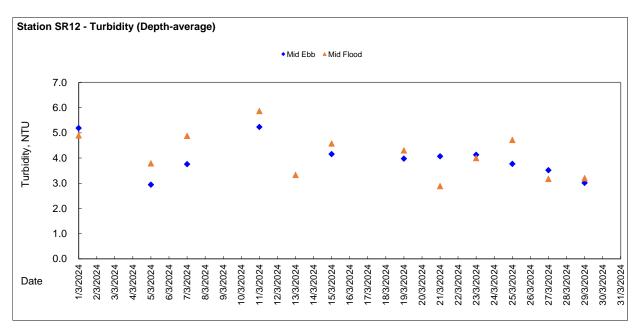
12/3/2024 13/3/2024

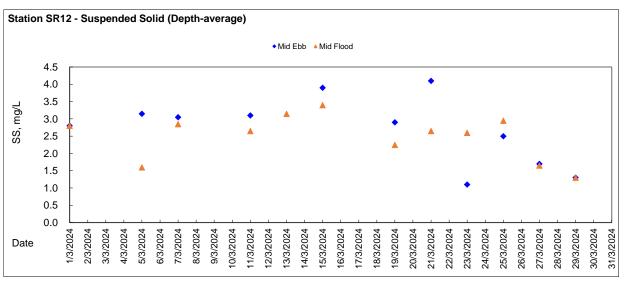




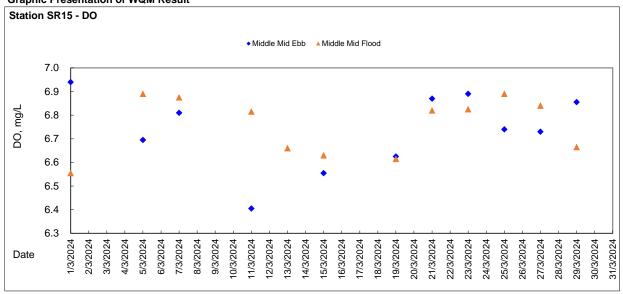


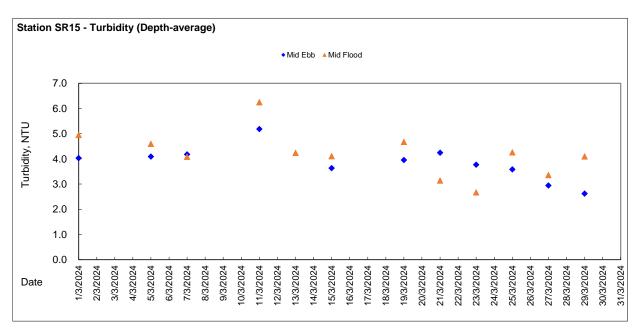


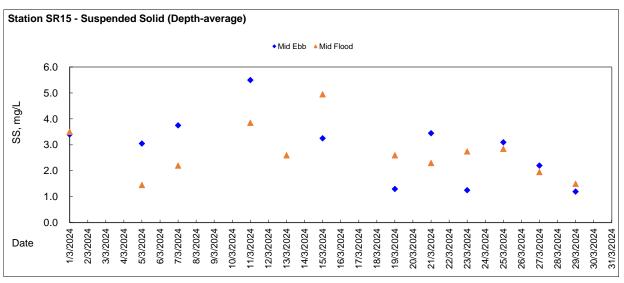












Impact Water Quality Monitoring at Station SR4 (surface) - Ebb Tide

0.1.04	Sampling		Sampling	Water	Sampling		erature	F	Н		inity		turation	D			oidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٥				p			%	mg		N7			ng/L
				m	m	Value	AVG	Value	AVG		AVG		AVG		AVG		AVG	Value	AVG
	1/3/2024	Cloudy	15:38	3.8	1.0	18.37	18.33	8.62	8.58	32.63	32.59	86.60	86.95	6.77	6.80	4.04	4.09	1.9	
			15:39	3.8	1.0	18.28		8.53		32.55		87.30		6.83		4.13		1.8	
	5/3/2024	Cloudy	18:33	3.8	1.0	20.49	20.43	8.51	8.50	32.56	32.52	91.00	90.60	6.78	6.74	3.97	3.92	3.2	
		,	18:34	3.8	1.0	20.36		8.49	0.00	32.47		90.20		6.70		3.87	0.00	2.8	
	7/3/2024	Cloudy	9:57	3.2	1.0	21.22	21.22	8.69	8.70	32.41	32.40	87.60	86.65	6.63	6.60	3.36	3.27	3.4	- 3
		,	9:58	3.2	1.0	21.21		8.70		32.39		85.70	00.00	6.56		3.18		3.1	_
	9/3/2024	Strong Mansoon							WQM	was cancelle	ed due to ad	verse weath	er						
	11/3/2024	Cloudy	13:07	3.5	1.0	19.09	19 18	8.58	8.59	32.58	32 53	82.80	82.20	6.56	6.53	5.37	5.50	4.6	4
	11/3/2024	Cidudy	13:08	3.5	1.0	19.27	19.10	8.59	0.39	32.48	32.33	81.60	02.20	6.49	0.53	5.62	5.50	3.8	"
	13/3/2024	Strong Mansoon							WQM	was cancelle	ed due to ad	verse weath	er						
SR4	15/3/2024	Cloudy	16:01	3.7	1.0	20.11	20 14	8.34	8.34	32.56	32.52	89.10	89.40	6.77	6.80	3.54	3.61	5.1	5
SR4	15/3/2024	Cidudy	16:02	3.7	1.0	20.17	20.14	8.34	0.34	32.48	32.32	89.70	69.40	6.82	0.00	3.67	3.01	5.0	
	19/3/2024	Fine	18:47	3.8	1.0	20.91	20.95	8.53	8.54	32.27	32.32	90.40	90.60	6.71	6.74	3.38	3.48	1.7	1
	19/3/2024	FINE	18:48	3.8	1.0	20.98	20.95	8.55	0.34	32.37	32.32	90.80	90.00	6.76	0.74	3.57	3.40	1.9	1 '
	21/3/2024	Cloudy	10:47	3.5	1.0	21.16	21.17	8.70	8.70	32.13	32.11	91.60	92.00	6.80	6.84	3.67	3.57	2.9	3
	21/3/2024	Cioudy	10:48	3.5	1.0	21.18	21.17	8.69	0.70	32.08	32.11	92.40	32.00	6.87	0.04	3.46	3.5	3.2	
	23/3/2024	Cloudy	11:33	3.6	1.0	21.47	21.49	8.56	8.57	32.20	32 16	91.40	91.05	6.69	6.68	3.87	3 79	1.3	1
	ZUI UI ZUZ	Oloudy	11:34	3.6	1.0	21.51	21.40	8.57	0.07	32.12	02.10	90.70	01.00	6.66	0.00	3.70	0.70	1.8	
	25/3/2024	Cloudy	11:57	3.2	1.0	21.95	21.90	8.41	8.41	31.74	31.67	87.70	87.50	6.55	6.51	2.47	2.35	2.9	2
	23/3/2024	Cioudy	11:58	3.2	1.0	21.84	21.50	8.41	0.41	31.60	31.07	87.30	07.30	6.46	0.51	2.22	2.50	2.4	
	27/3/2024	Cloudy	13:28	3.7	1.0	23.09	23.11	8.36	8.37	30.25	30.14	88.30	88.15	6.78	6.78	3.25	3.17	3.7	- 3
	2.70/2024	Sibudy	13:29	3.7	1.0	23.12	23.11	8.37	0.37	30.02	30.14	88.00	30.13	6.77	0.70	3.08	3.11	3.5	"
	29/3/2024	Cloudy	14:33	3.7	1.0	23.09	23.02	8.28	8.28	31.00	31.16	91.40	90.90	6.96	6.92	3.68	3.64	1.8	
	25/3/2024	Cioudy	14:34	3.7	1.0	22.94	25.02	8.28	0.20	31.32	31.10	90.40	30.30	6.87	0.52	3.59	3.04	1.6	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.

am

Lam Environmental Services Limited

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	aturation	0	0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt		%	m	g/L	N'	TU	m	ng/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	9:00	3.3	1.0	18.07	18.13	8.60	8.62	32.18	32.23	85.00	85.50	6.58	6.62	4.67	4.61	3.0	3.0
	170/2024	Oloudy	9:01	3.3	1.0	18.19	10.10	8.63	0.02	32.27	02.20	86.00	00.00	6.65	0.02	4.55	4.01	2.9	
	5/3/2024	Cloudy	8:03	3.2	1.0	20.42	20.40	8.54	8.57	32.74	32.70	92.30	93.00	6.88	6.94	4.95	4.89	2.3	2.2
		,	8:04	3.2	1.0	20.38		8.60		32.65		93.70		6.99		4.83		2.1	
	7/3/2024	Cloudy	15:04	3.3	1.0	20.75	20.70	8.42	8.39	32.79	32.82	84.40	84.15	6.58	6.53	4.44	4.50	4.0	
		,	15:05	3.3	1.0	20.64		8.36		32.84		83.90		6.48		4.56		3.6	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	ner						
	11/3/2024	Cloudy	7:22	3.2	1.0	18.99	18 98	8.57	8 59	32.84	32 90	87.70	88 20	6.85	6.88	7.85	7.75	3.7	
	11/3/2024	Cioudy	7:23	3.2	1.0	18.97	10.90	8.60	0.59	32.95	32.90	88.70	00.20	6.90	0.00	7.64	1.15	4.2	1 4.0
	13/3/2024	Cloudy	8:08	3.4	1.0	19.72	19.66	8.42	8.42	32.84	32.81	91.80	91.65	6.90	6.89	5.02	4.91	2.4	2.4
	10/0/2024	Oloudy	8:09	3.4	1.0	19.60	10.00	8.42	0.42	32.77	02.01	91.50	51.00	6.88	0.00	4.79	4.01	2.4	24
SR4	15/3/2024	Cloudy	8:58	3.2	1.0	20.24	20.21	8.53	8.53	32.41	32 47	87.10	87.55	6.85	6.88	4.81	4.88	4.6	
	10/0/2024	Oloudy	8:59	3.2	1.0	20.18	20.21	8.52	0.00	32.53	02.47	88.00	01.00	6.91	0.00	4.94	4.00	4.4	
	19/3/2024	Fine	8:31	3.4	1.0	20.92	20.83	8.52	8.53	31.85	31.90	89.30	89.70	6.75	6.78	4.76	4.80	2.3	
			8:32	3.4	1.0	20.74		8.53	0.00	31.94		90.10		6.80		4.84		2.0	
	21/3/2024	Cloudy	16:04	3.7	1.0	20.69	20.70	8.61	8.61	32.65	32.72	89.30	89 10	6.84	6.80	3.37	3 19	2.5	
		,	16:05	3.7	1.0	20.70		8.61		32.79		88.90		6.76	0.00	3.00		2.6	_
	23/3/2024	Cloudy	17:32	3.7	1.0	21.97	22.03	8.62	8.62	32.02	32.10	87.60	87.35	6.52	6.51	2.95	2.84	2.4	
			17:33	3.7	1.0	22.09		8.62		32.18		87.10		6.49		2.73		1.5	
	25/3/2024	Cloudy	18:54	3.0	1.0	21.56	21.62	8.34	8.34	31.74	31.64	85.20	85.75	6.69	6.74	4.05	3.95	3.6	
			18:55	3.0	1.0	21.67		8.33		31.53		86.30		6.78		3.84		2.3	
	27/3/2024	Cloudy	7:19	3.4	1.0	23.30	23.29	8.51	8.52	30.87	30.81	88.60	88.05	6.78	6.75	4.01	4.00	2.6	
			7:20	3.4	1.0	23.27		8.52		30.74		87.50		6.71		3.98		2.6	
	29/3/2024	Cloudy	7:51 7:52	3.2	1.0	23.37	23.26	8.42 8.42	8.42	31.42 31.39	31.41	87.10 87.70	87.40	6.74	6.77	4.01 3.94	3.98	1.6	
					1					7		,,,,,							+

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	turation		00	Turt	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	'C			p	pt		%		g/L		TU	m	ıg/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	15:40	3.8	2.8	18.56	18.49	8.59	8.58	32.94	32.90	89.80	89.10	6.97	6.92	4.53	4.39	2.2	2.1
	170/2024	Cioudy	15:41	3.8	2.8	18.42	10.40	8.57	0.00	32.85	02.00	88.40	00.10	6.86	0.02	4.25	4.00		
	5/3/2024	Cloudy	18:35	3.8	2.8	20.31	20.40	8.52	8.52	32.76	32 79	90.00	90.45	6.69	6.73	3.12	3.02	2.4	2.3
		,	18:36	3.8	2.8	20.48		8.51	0.02	32.81		90.90		6.76		2.92	0.02	2.1	
	7/3/2024	Cloudy	9:59	3.2	2.2	21.15	21 12	8.73	8.73	32.50	32 49	90.50	91 10	6.82	6.85	3.70	3.82	2.9	
		,	10:00	3.2	2.2	21.08		8.72		32.48		91.70		6.87		3.94	0.02	2.6	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ac	lverse weath	ier						
	11/3/2024	Cloudy	13:09	3.5	2.5	19.20	19.17	8.61	8.60	32.80	32 75	89.50	89.25	6.83	6.82	5.17	5.13	3.6	3.9
	11/3/2024	Cloudy	13:10	3.5	2.5	19.13	19.17	8.59	0.00	32.70	32.75	89.00	69.25	6.80	0.02	5.08	5.13	4.1	3.5
	13/3/2024	Strong Mansoon							WQM	was cancell	ed due to ac	lverse weath	ier						
SR4	15/3/2024	Cloudy	16:03	3.8	2.7	20.15	20 17	8.32	8.33	32.57	33.50	83.30	83.80	6.41	6 44	3.84	3.76	5.4	5.6
SR4	15/3/2024	Cioudy	16:04	3.7	2.7	20.19	20.17	8.33	0.33	34.42	33.50	84.30	03.00	6.47	0.44	3.67	3.76	5.7	5.6
	19/3/2024	Fine	18:49	3.8	2.8	20.96	20.92	8.55	8.55	32.41	32.39	91.40	91.50	6.77	6.79	3.74	3.65	3.3	
	18/3/2024	1 1110	18:50	3.8	2.8	20.87	20.82	8.54	0.33	32.36	32.35	91.60	91.30	6.80	0.73	3.56	3.03	3.0	0.2
	21/3/2024	Cloudy	10:49	3.5	2.5	21.14	21.17	8.67	8.68	32.19	32 24	84.20	84.55	6.41	6.43	3.25	3.42	4.4	4.3
	21/0/2024	Cioday	10:50	3.5	2.5	21.19	21.17	8.68	0.00	32.28	OZ.Z-	84.90	04.00	6.45	0.40	3.59	0.42	4.2	4.0
	23/3/2024	Cloudy	11:35	3.6	2.6	22.26	22.32	8.59	8.59	32.06	32 11	89.20	89.45	6.58	6.60	3.90	4.01	2.0	
	ZUI UZUZ-T	Cioudy	11:36	3.6	2.6	22.37	ZZ.OZ	8.59	0.00	32.16	02.11	89.70	00.40	6.62	0.00	4.12	4.01	2.4	
	25/3/2024	Cloudy	11:59	3.2	2.2	21.73	21.80	8.41	8 41	31.56	31.50	89.00	89.15	6.77	6.78	2.80	2.89	2.0	
		,	12:00	3.2	2.2	21.87		8.40	4	31.43		89.30		6.78		2.98		2.4	
	27/3/2024	Cloudy	13:30	3.7	2.7	23.18	23.15	8.37	8.37	31.27	31.32	81.60	82.35	6.43	6.48	2.91	2.97	2.7	2.8
		,	13:31	3.7	2.7	23.12		8.36		31.37		83.10	,	6.53		3.02		2.9	
	29/3/2024	Cloudy	14:35	3.7	2.7	23.00	22.96	8.27	8.28	31.25	31.37	87.60	87.00	6.62	6.58	2.91	2.98	2.3	
			14:36	3.7	2.7	22.91		8.28		31.49		86.40		6.54		3.04		2.2	

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 SR4 (Bottom) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	aturation		0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt		%	m	g/L	N'	TU	n	ng/L
	Date		TITLE	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	9:02	3.3	2.3	18.27	18.22	8.60	8.59	32.36	32.32	83.60	84.00	6.49	6.52	5.27	5.33	4.2	4.4
	1/3/2024	Cloudy	9:03	3.3	2.3	18.16	10.22	8.57	0.35	32.27	32.32	84.40	04.00	6.55	0.52	5.38	3.33	4.5	
	5/3/2024	Cloudy	8:05	3.2	2.2	20.31	20.34	8.63	8.62	32.16	32 22	93.10	92 45	6.95	6.90	4.61	4 67	1.6	1.5
	0/0/2024	Oloddy	8:06	3.2	2.2	20.37	20.04	8.60	0.02	32.27	OL.LL	91.80	02.40	6.84	0.50	4.72	4.01	1.4	1.0
	7/3/2024	Cloudy	15:06	3.3	2.3	20.74	20.75	8.39	8.41	32.56	32 50	89.80	89.20	6.90	6.89	5.04	5.00	2.4	2.3
	7/3/2024	Cloudy	15:07	3.3	2.3	20.75	20.73	8.43	0.41	32.43	32.30	88.60	05.20	6.88	0.03	4.96	3.00	2.1	2.0
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	ner						
	11/3/2024	Cloudy	7:24	3.2	2.2	19.01	19.09	8.58	8.58	33.64	33.51	82.70	83.45	6.49	6.52	7.32	7 40	3.7	3.5
	11/3/2024	Cloudy	7:25	3.2	2.2	19.17	19.09	8.58	0.30	33.37	33.51	84.20	03.40	6.55	0.52	7.47	7.40	3.3	3.3
	13/3/2024	Cloudy	8:10	3.4	2.4	19.60	19.58	8.40	8.41	33.14	33.12	89.50	90.20	6.75	6.80	3.67	3.60	3.0	3.2
	13/3/2024	Cloudy	8:11	3.4	2.4	19.56	19.50	8.41	0.41	33.10	33.12	90.90	90.20	6.85	0.00	3.52	3.00	3.4	
SR4	15/3/2024	Cloudy	9:00	3.2	2.2	20.17	20.16	8.54	8.54	32.49	32.50	85.60	85.35	6.59	6.58	3.87	3.78	3.6	3.5
0114	10/0/2024	Oloddy	9:01	3.2	2.2	20.14	20.10	8.53	0.04	32.50	02.00	85.10	00.00	6.56	0.00	3.69	0.70	3.4	0.0
	19/3/2024	Fine	8:33	3.4	2.4	20.82	20.82	8.52	8.52	32.10	32.08	91.60	91.20	6.88	6.85	3.78	3.90	4.2	4.0
	10/0/2024	1 1110	8:34	3.4	2.4	20.82	20.02	8.52	0.02	32.06	02.00	90.80	01.20	6.82	0.00	4.01	0.50	3.8	1
	21/3/2024	Cloudy	16:06	3.7	2.7	20.72	20.69	8.60	8.60	32.73	32 66	85.00	84 90	6.69	6.66	3.40	3.26	3.7	3.5
		,	16:07	3.7	2.7	20.65		8.60		32.59		84.80		6.62	0.00	3.12	0.20	3.3	1
	23/3/2024	Cloudy	17:34	3.7	2.7	22.01	21.89	8.62	8.63	31.96	32.00	89.60	88 40	6.76	6.72	3.28	3.34	1.1	
		,	17:35	3.7	2.7	21.77		8.63		32.04		87.20		6.67		3.40		1.8	
	25/3/2024	Cloudy	18:56	3.0	2.0	21.63	21.69	8.34	8.34	31.64	31.62	84.80	85.15	6.66	6.69	4.16	4.27	2.3	
		,	18:57	3.0	2.0	21.74		8.34		31.60		85.50		6.71	0.00	4.37		2.4	
	27/3/2024	Cloudy	7:21	3.4	2.4	23.20	23.30	8.52	8.51	30.64	30.70	88.20	87.95	6.76	6.73	4.25	4 14	2.3	
		,	7:22	3.4	2.4	23.40		8.50		30.75	,,,,,,	87.70	2.100	6.69		4.02		2.1	
	29/3/2024	Cloudy	7:53	3.2	2.2	23.09	23.02	8.43	8.43	31.25	31.22	86.10	84.85	6.65	6.72	4.41	4.49	1.1	
General Note:		f average concer	7:54	3.2	2.2	22.95		8.42		31.19		83.60	7	6.79		4.56		1.2	!

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	turation	D	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	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
	1/3/2024	Cloudy	15:29	4.3	1.0	18.32	18.37	8.43	8 49	32.87	32.83	86.10	86.35	6.65	6.67	4.09	4.11	2.6	
	170/2024	Oloudy	15:30	4.3	1.0	18.42	10.01	8.55	0.40	32.79	02.00	86.60	00.00	6.69	0.01	4.13	4.11	2.8	
	5/3/2024	Cloudy	18:24	4.3	1.0	20.43	20.40	8.50	8.51	32.87	32.84	89.30	89.40	6.60	6.63	3.19	3.22	3.3	
		,	18:25	4.3	1.0	20.36		8.52		32.81		89.50		6.65	0.00	3.25		2.9	
	7/3/2024	Cloudy	10:07	4.0	1.0	21.03	21.06	8.73	8.72	32.75	32.75	87.00	87.30	6.52	6.54	4.37	4.29	2.8	
		,	10:08	4.0	1.0	21.09		8.70		32.74		87.60	000	6.55	0.0.	4.21		2.7	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	er						
	11/3/2024	Cloudy	12:58	4.1	1.0	19.18	19.12	8.60	8.60	32.59	32.53	80.70	81.40	6.40	6.44	4.97	4.99	4.2	4.0
	11/3/2024	Cioudy	12:59	4.1	1.0	19.06	10.12	8.60	0.00	32.47	32.33	82.10	01.40	6.48	0.44	5.00	4.00	3.8	4.0
	13/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	er						
SR5	15/3/2024	Cloudy	15:52	4.4	1.0	20.04	20.06	8.34	8.34	32.63	32 61	83.80	84.35	6.56	6.58	3.54	3 43	5.1	5.0
SKS	13/3/2024	Cioudy	15:53	4.3	1.0	20.08	20.00	8.33	0.54	32.59	32.01	84.90	04.33	6.60	0.50	3.32	3.43	4.8	3.0
	19/3/2024	Fine	18:38	4.4	1.0	20.86	20.91	8.53	8.54	32.37	32.32	89.20	89.10	6.84	6.84	3.04	3.12	4.0	
	10/0/2024	1 1110	18:39	4.4	1.0	20.95	20.01	8.54	0.04	32.26	02.02	89.00	05.10	6.83	0.04	3.19	0.12	3.8	
	21/3/2024	Cloudy	10:56	4.0	1.0	21.27	21.22	8.70	8 70	32.49	32.35	89.60	88.50	6.83	6.79	3.90	4.04	2.9	
		,	10:57	4.0	1.0	21.16		8.69		32.21		87.40		6.75		4.17		3.2	
	23/3/2024	Cloudy	11:43	4.0	1.0	22.19	22 27	8.61	8.61	32.09	32.03	88.40	88.80	6.76	6.81	3.25	3 16	1.5	
		,	11:44	4.0	1.0	22.35		8.60		31.97		89.20		6.85	0.0.	3.06		1.5	
	25/3/2024	Cloudy	12:06	4.1	1.0	-	22.01	8.42	8.42	31.44	31.41	89.20	89.00	6.64	6.62	3.37	3.24	1.6	
			12:07	4.1	1.0	22.01		8.41		31.37		88.80		6.60		3.11		2.0	
	27/3/2024	Cloudy	13:18	4.3	1.0	23.30	23.29	8.39	8.39	31.36	31.32	88.30	88.70	6.68	6.71	2.47	2.36	3.8	
			13:19	4.3	1.0	23.28		8.38		31.27		89.10		6.74		2.24		3.4	_
	29/3/2024	Cloudy	14:23	4.2	1.0	22.65	22.73	8.27	8.27	31.09	31.17	83.90	86.25	6.54	6.68	3.14	3.10	2.6	
1	l		14:24	4.2	1.0	22.80		8.27		31.25	1	88.60		6.82		3.05		2.8	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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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	Turk	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		'C				pt		%	m			TU		ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	9:09	4.0	1.0	18.04	18.10	8.61	8.63	32.60	32.55	87.50	87.60	6.71	6.72	4.79	4.87	3.9	
		,	9:10	4.0	1.0	18.16		8.64	0.00	32.49		87.70	000	6.72		4.94		4.0	
	5/3/2024	Cloudy	8:13	3.8	1.0	20.34	20.31	8.62	8.61	32.76	32.80	91.30	92.00	6.80	6.85	4.25	4.34	1.6	
		,	8:14	3.8	1.0	20.28		8.59		32.84		92.70		6.90	0.00	4.43		1.8	_
	7/3/2024	Cloudy	14:55	4.1	1.0	20.84	20.79	8.42	8.43	33.12	33.08	90.00	89.80	6.83	6.80	4.36	4.31	2.8	
			14:56	4.1	1.0	20.74		8.43		33.03		89.60		6.77		4.25		2.5	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	lverse weath	ier						
	11/3/2024	Cloudy	7:31	3.9	1.0	19.10	19.07	8.55	8.56	32.90	32.94	87.30	87.85	6.77	6.80	7.09	7.13	2.9	2.7
	11/0/2024	Oloddy	7:32	3.9	1.0	19.03	10.01	8.56	0.00	32.97	02.04	88.40	01.00	6.82	0.00	7.17	7.10	2.5	
	13/3/2024	Cloudy	8:18	4.0	1.0	19.47	19 49	8.43	8.43	32.90	32.88	89.00	89.60	6.69	6.75	4.26	4.32	2.5	
		,	8:19	4.0	1.0	19.50		8.42	0.10	32.86		90.20		6.80		4.37		2.8	
SR5	15/3/2024	Cloudy	9:07	3.8	1.0	20.12	20.10	8.50	8.51	32.38	32.43	88.30	89.50	6.82	6.88	4.04	4.01	2.5	
		,	9:08	3.8	1.0	20.08		8.51		32.48		90.70		6.94		3.97		2.3	
	19/3/2024	Fine	8:40	3.9	1.0	20.77	20.75	8.53	8.54	32.00	32.04	86.20	87.45	6.62	6.75	3.47	3.39	4.1	
			8:41	3.9	1.0	20.73		8.54		32.07		88.70		6.87		3.31		4.5	
	21/3/2024	Cloudy	15:54	43	1.0	20.64	20.69	8.63	8.63	32.64	32.70	89.50	88.40	6.85	6.79	2.37	2.50	3.5	
			15:55	43	1.0	20.74		8.62		32.75		87.30		6.72		2.63		3.9	
	23/3/2024	Cloudy	17:24	4.2	1.0	21.90	22.04	8.63	8.63	32.24	32.17	88.40	89.20	6.73	6.78	2.87	2.82	2.3	
			17:25	4.2	1.0	22.17		8.63		32.10		90.00		6.82		2.76		1.5	_
	25/3/2024	Cloudy	18:45	3.7	1.0	21.80	21.73	8.31 8.33	8.32	31.36 31.50	31.43	84.20 86.30	85.25	6.59	6.66	3.38	3.47	2.4	
			7:29	4.0	1.0	21.66		8.50		31.50		86.30		6.48		4.18		1.8	
	27/3/2024	Cloudy	7:29	4.0	1.0	23.24	23.27	8.50	8.50	30.95	30.90	80.70	81.00	6.45	6.47	4.18	4.15	1.8	
			7:30 8:01	3.7	1.0	23.29		8.50		30.84		80.70		6.65		3.89		1.9	
	29/3/2024	Cloudy	8:01	3.7	1.0	23.25	23.14	8.42	8.42	31.46	31.40	88.40	85.20	6.86	6.76	4.00	3.95	1.1	

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	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			p	pt		%	m	g/L	N'	TU	m	g/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	15:31	4.3	3.3	18.23	18.31	8.42	8 49	32.49	32.56	87.70	87 40	6.79	6.77	4.02	4 00	2.0	2.2
	170/2024	Oloudy	15:32	4.3	3.3	18.38	10.01	8.56	0.40	32.63	02.00	87.10	07.40	6.74	0.77	3.98	4.00	2.3	
	5/3/2024	Cloudy	18:27	4.3	3.3	20.46	20 49	8.54	8.54	32.70	32 63	90.80	90.35	6.75	6.72	3.41	3.31	3.7	3.8
		,	18:28	4.3	3.3	20.51		8.54		32.56		89.90		6.68		3.21		3.9	
	7/3/2024	Cloudy	10:10	4.0	3.0	21.04	21.02	8.73	8.72	32.94	32.88	91.30	91.85	6.91	6.93	3.73	3.88	2.5	2.4
	770/2024	Gloddy	10:11	4.0	3.0	20.99	21.02	8.70	0.72	32.81	02.00	92.40	01.00	6.94	0.00	4.02	0.00	2.2	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ac	lverse weath	ier						
	11/3/2024	Cloudy	13:01	4.1	3.1	19.25	19 17	8.59	8.60	32.50	32 53	86.70	86.40	6.80	6.78	4.85	4.81	4.4	4.6
	11/3/2024	Cioudy	13:02	4.1	3.1	19.08	10.17	8.61	0.00	32.56	32.33	86.10	00.40	6.76	0.70	4.76	4.01	4.8	4.0
	13/3/2024	Strong Mansoon							WQM	was cancell	ed due to ac	lverse weath	ier						
SR5	15/3/2024	Cloudy	15:55	4.4	3.3	20.06	20.08	8.34	8.35	32.49	32.50	84.40	84.65	6.53	6.56	3.50	3.59	4.0	4.2
SINO	13/3/2024	Cioudy	15:56	4.3	3.3	20.10	20.00	8.35	0.33	32.50	32.30	84.90	04.00	6.58	0.50	3.67	3.35	4.4	4.2
	19/3/2024	Fine	18:40	4.4	3.4	20.99	20.98	8.52	8.53	32.41	32 37	89.80	88 90	6.60	6.55	3.41	3.33	2.9	2.8
	13/3/2024	1 1110	18:41	4.4	3.4	20.97	20.50	8.53	0.33	32.33	32.37	88.00	00.30	6.49	0.55	3.25	3.33	2.6	2.0
	21/3/2024	Cloudy	10:59	4.0	3.0	21.28	21 20	8.70	8.70	32.19	32 21	89.00	88.30	6.71	6.68	4.02	3.95	3.8	4.0
		,	11:00	4.0	3.0	21.11		8.70		32.23		87.60		6.65		3.87		4.1	
	23/3/2024	Cloudy	11:46	4.0	3.0	22.27	22 23	8.60	8.61	32.16	32 09	92.30	92 95	6.81	6.85	2.67	2.86	2.0	1.7
		,	11:47	4.0	3.0	22.18		8.61		32.01		93.60	02.00	6.88		3.04		1.3	
	25/3/2024	Cloudy	12:08	4.1	3.1	21.93	21.91	8.42	8.42	31.67	31.62	85.00	84.85	6.40	6.39	2.69	2.77	2.6	2.3
			12:09	4.1	3.1	21.89		8.42		31.56		84.70		6.38		2.84		2.0	
	27/3/2024	Cloudy	13:20	4.3	3.3	23.27	23.21	8.38	8.38	31.19	31.11	84.20	83.50	6.40	6.38	2.73	2.84	2.8	3.0
			13:21	4.3	3.3	23.15		8.38		31.02		82.80		6.36		2.94		3.1	
	29/3/2024	Cloudy	14:25	4.2	3.2	22.61	22.55	8.28	8.28	31.15	31.13	90.00	88.45	6.87	6.79	3.01	2.95	2.5	2.4
			14:26	4.2	3.2	22.48		8.28		31.10		86.90		6.70		2.89		2.2	

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		erature	F	Н	Sal	inity	DO Sa	turation	D	0	Turt	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt	•	%	m	g/L	N'	TU	m	ng/L
	Date		1 11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	9:12	4.0	3.0	18.17	18.10	8.57	8.59	32.58	32.53	85.80	85.35	6.62	6.59	5.24	5.15	5.2	
	17072024	Oloddy	9:13	4.0	3.0	18.02	10.10	8.60	0.00	32.47	02.00	84.90	00.00	6.55	0.00	5.06	0.10	4.9	
	5/3/2024	Cloudy	8:15	3.8	2.8	20.30	20.32	8.61	8.61	32.76	32.81	93.40	92 70	6.97	6.91	4.12	4.25	2.4	
		,	8:16	3.8	2.8	20.34		8.61		32.85		92.00		6.85		4.38		2.6	
	7/3/2024	Cloudy	14:58	4.1	3.1	20.70	20.73	8.47	8.46	33.20	33 13	87.70	88.10	6.87	6.92	4.40	4 48	1.7	
	1702024		14:59	4.1	3.1	20.76	20.70	8.45	0.40	33.06	00.10	88.50	00.10	6.97	0.02	4.56	4.40	1.9	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	ier						
	11/3/2024	Cloudy	7:33	3.9	2.9	19.27	19 18	8.55	8.55	32.81	32 84	82.00	82 75	6.34	6.36	6.52	6.48	4.2	4.1
	11/3/2024	Cloudy	7:34	3.9	2.9	19.09	15.10	8.55	0.55	32.86	32.04	83.50	02.73	6.38	0.30	6.43	0.40	4.0	4.1
	13/3/2024	Cloudy	8:21	4.0	3.0	19.50	19.51	8.44	8 44	33.16	33 14	90.60	89.85	6.83	6.77	4.75	4 55	3.2	3.4
	10/0/2024	Oloddy	8:22	4.0	3.0	19.52	10.01	8.43	0.44	33.12	00.14	89.10	05.00	6.70	0.11	4.34	4.00	3.6	
SR5	15/3/2024	Cloudy	9:09	3.8	2.8	20.15	20.11	8.50	8.51	32.75	32.78	89.50	88.70	6.85	6.81	3.71	3.79	2.7	
			9:10	3.8	2.8	20.07		8.51		32.81		87.90		6.76		3.87		2.7	
	19/3/2024	Fine	8:42	3.9	2.9	20.69	20.75	8.53	8.53	32.16	32.09	87.30	87.15	6.60	6.59	3.71	3.83	5.3	
			8:43	3.9	2.9	20.80		8.53		32.02		87.00		6.57		3.94		4.9	
	21/3/2024	Cloudy	15:56	43	#VALUE!	20.63	20.67	8.60	8.61	32.00	32.21	89.10	88.55	6.72	6.69	2.93	3.01	4.0	4.2
		-	15:57	43	#VALUE!	20.71		8.61		32.41		88.00		6.66		3.08		4.4	
	23/3/2024	Cloudy	17:27	4.2	3.2	21.94	21.84	8.62	8.62	32.60	32.55	90.30	89.90	6.86	6.83	3.21	3.43	2.1	
			17:28	4.2	3.2	21.74		8.62		32.49		89.50		6.79		3.64		1.9	
	25/3/2024	Cloudy	18:47	3.7	2.7	21.73	21.70	8.32	8.33	31.28	31.34	82.00	81.25	6.48	6.44	3.74	3.64	1.7	
			18:48	3.7	2.7	21.66		8.33		31.40		80.50		6.40		3.54		2.5	
	27/3/2024	Cloudy	7:31	4.0	3.0	23.09	23.14	8.48	8.49	30.74	30.80	88.00	87.60	6.77	6.76	4.05	4.00	2.5	
			7:32	4.0	3.0	23.18		8.49		30.86		87.20		6.74		3.95		2.7	
	29/3/2024	Cloudy	8:03 8:04	3.7	2.7	22.98 22.96	22.97	8.40 8.42	8.41	31.67	31.54	78.60 80.80	79.70	6.30	6.41	3.37	3.31	1.8	

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation		00	Turl	oidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	'C			p	pt		%		g/L		ΤU	m	g/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	15:19	2.8	1.4	18.37	18.31	8.62	8.61	32.63	32.57	84.10	84.40	6.64	6.67	4.27	4.18	<1.0	1.0
	1702024	Cioudy	15:20	2.8	1.4	18.24	10.01	8.59	0.01	32.50	02.07	84.70	04.40	6.69	0.01	4.09	4.10	<1.0	
	5/3/2024	Cloudy	18:14	2.8	1.4	20.54	20.49	8.52	8.53	32.94	32.90	89.60	90.00	6.66	6.69	2.95	2.85	2.7	2.6
		,	18:15	2.8	1.4	20.43		8.53	0.00	32.85		90.40		6.72		2.75		2.4	
	7/3/2024	Cloudy	10:16	2.5	1.3	20.89	20.91	8.75	8.76	33.08	33.06	90.90	90.85	6.87	6.86	3.25	3.17	2.2	2.2
		,	10:17	2.5	1.3	20.92		8.77		33.04		90.80		6.84		3.09		2.1	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ac	verse weath	ier						
	11/3/2024	Cloudy	12:48	2.6	1.3	19.11	19.06	8.61	8.62	32.90	32 75	82.40	81.50	6.50	6.46	5.57	5.68	3.2	3.4
	11/3/2024	Cloudy	12:49	2.6	1.3	19.00	19.06	8.63	0.02	32.60	32.75	80.60	61.50	6.42	0.40	5.79	5.00	3.5	3.4
	13/3/2024	Strong Mansoon							WQM	was cancell	ed due to ac	verse weath	ier						
SR6	15/3/2024	Cloudy	15:43	2.9	1.4	20.06	20.04	8.36	8.35	32.59	32.58	89.00	89.65	6.86	6.90	3.13	3.07	3.4	3.2
	15/3/2024	Cioudy	15:44	2.8	1.4	20.01	20.04	8.34	0.33	32.56	32.30	90.30	69.03	6.94	6.90	3.01	3.07	3.0	3.2
	19/3/2024	Fine	18:29	2.9	1.5	20.16	20.59	8.49	8.50	32.15	32.21	88.40	88 90	6.57	6.61	4.13	4.11	2.4	2.3
	18/3/2024	1 1110	18:30	2.9	1.5	21.01	20.35	8.51	0.50	32.26	32.21	89.40	00.50	6.64	0.01	4.09	4.	2.2	2.0
	21/3/2024	Cloudy	11:06	2.5	1.3	21.39	21.36	8.75	8.74	32.67	32.62	87.10	87.55	6.81	6.85	4.37	4.33	4.6	4.5
	21/0/2024	Cioday	11:07	2.5	1.3	21.32	21.00	8.73	0.74	32.56	OZ.OZ	88.00	07.00	6.88	0.00	4.28	4.00	4.4	4.0
	23/3/2024	Cloudy	11:52	2.5	1.3	22.36	22.38	8.63	8.63	32.01	31.95	89.50	90.10	6.69	6.75	3.25	3 13	2.2	1.8
	LUI GI LUL	Cioudy	11:53	2.5	1.3	22.40	22.00	8.63	0.00	31.89	01.00	90.70	50.10	6.80	0.70	3.01	0.10	1.4	
	25/3/2024	Cloudy	12:17	2.6	1.3	22.36	22.23	8.43	8 43	31.24	31.19	92.10	93.30	6.81	6.86	3.01	2.95	2.8	2.9
		,	12:18	2.6	1.3	22.10		8.42		31.14		94.50		6.91		2.88		2.9	
	27/3/2024	Cloudy	13:07	2.8	1.4	23.41	23.32	8.36	8.36	31.10	30.99	88.00	88.10	6.77	6.78	3.01	3.09	2.0	2.1
	22.2024	2.3009	13:08	2.8	1.4	23.23	20.02	8.35	0.00	30.88	30.00	88.20	30.10	6.78	0.70	3.16	0.00	2.2	
	29/3/2024	Cloudy	14:12	2.7	1.4	22.89	22.97	8.30	8.30	30.89	30.99	90.10	89.85	6.96	6.91	2.84	2.78	1.8	1.9
		,	14:13	2.7	1.4	23.05		8.29		31.09		89.60		6.85		2.71		1.9	

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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Lam Environmental Services Limited

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity		turation	D	00		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С		-		pt		%	m			TU		ıg/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	9:19	2.5	1.3	18.01	17.96	8.60	8.59	32.18	32.13	87.30	87.65	6.83	6.85	6.01	5.93	4.2	4.2
	170/2024	Oloudy	9:20	2.5	1.3	17.90	17.50	8.57	0.00	32.07	02.10	88.00	07.00	6.86	0.00	5.85	0.00	4.1	
	5/3/2024	Cloudy	8:22	2.3	1.2	20.42	20.40	8.62	8 64	32.65	32.57	92.70	92.10	6.93	6.88	3.87	3.81	1.9	
		,	8:23	2.3	1.2	20.37		8.65		32.49		91.50		6.82	0.00	3.75		1.7	
	7/3/2024	Cloudy	14:46	2.6	1.3	20.74	20.72	8.39	8.41	32.64	32.71	89.40	90.05	6.80	6.83	5.08	5.01	3.2	
	170/2024	Oloudy	14:47	2.6	1.3	20.70	20.72	8.42	0.41	32.77	02.71	90.70	50.00	6.85	0.00	4.93	0.01	3.6	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	er						
	11/3/2024	Cloudy	7:41	2.4	1.2	19.30	19.25	8.50	8.52	32.64	32 65	87.70	87.95	6.85	6.87	6.19	6.20	3.9	3.9
	11/3/2024	Cioudy	7:42	2.4	1.2	19.20	19.25	8.53	0.52	32.65	32.03	88.20	67.95	6.89	0.07	6.21	6.20	3.8	3.5
	13/3/2024	Cloudy	8:27	2.5	1.3	19.52	19.50	8.43	8 44	33.19	33 22	88.70	89 30	6.69	6.74	4.02	3.99	2.6	2.8
SR6	101012024	Oloudy	8:28	2.5	1.3	19.48	10.00	8.45	0.44	33.25	00.22	89.90	00.00	6.78	0.14	3.95	0.00	3.0	
ono	15/3/2024	Cloudy	9:17	2.5	1.3	20.24	20.21	8.53	8.54	32.54	32 58	84.80	83.55	6.76	6.64	3.39	3.37	2.0	2.2
		,	9:18	2.5	1.3	20.17		8.54		32.61		82.30	00.00	6.51		3.35		2.4	
	19/3/2024	Fine	8:50	2.6	1.3	20.58	20.64	8.50	8.51	31.76	31.83	87.60	86.90	6.63	6.67	3.87	3.56	3.5	3.5
			8:51	2.6	1.3	20.69		8.52		31.89		86.20		6.70		3.25		3.4	
	21/3/2024	Cloudy	15:45	2.7	1.4	20.94	20.86	8.58	8.58	32.90	32.85	90.60	90.75	6.80	6.81	3.17	3.12	4.4	4.5
		,	15:46	2.7	1.4	20.78		8.58		32.79		90.90		6.82		3.06		4.6	
	23/3/2024	Cloudy	17:15	2.7	1.4	22.01	22.09	8.64	8 64	32.09	32 04	90.30	90.20	6.81	6.81	2.84	2 73	2.0	
		,	17:16	2.7	1.4	22.17		8.64		31.99		90.10		6.80		2.62		1.2	
	25/3/2024	Cloudy	18:35	2.2	1.1	21.85	21.82	8.29	8.30	31.28	31.34	84.20	83.45	6.55	6.52	3.85	3.70	2.4	
		,	18:36	2.2	1.1	21.78		8.30		31.40		82.70		6.49		3.55		3.1	i i
	27/3/2024	Cloudy	7:40	2.5	1.3	23.25	23.17	8.53	8.53	30.93	30.99	84.60	84.40	6.52	6.50	2.87	2.80	2.7	2.6
		,	7:41	2.5	1.3	23.09		8.52		31.04	70.00	84.20		6.48		2.72		2.4	
	29/3/2024	Cloudy	8:10	2.4	1.2	23.25	23.15	8.41	8.41	31.95	31.78	89.30	88.65	6.99	6.94	3.56	3.52	1.8	
			8:11	2.4	1.2	23.04		8.40		31.61		88.00		6.89		3.47		1.6	

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

	Sampling		Sampling	Water	Sampling	Temp	erature	ı	Н	Sal	linity	DO Sa	turation		00	Turl	oidity	S	ss
Station Reference	Date	Weather	Time	Depth	Depth	٥	'C			p	pt		%	m	g/L		ΤU	m	
	Date		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	15:03	4.4	1.0	18.76	18.69	8.67	8.59	32.68	32.74	83.60	83.20	6.65	6.63	3.86	3.98	2.8	2.7
	1702024	Oloudy	15:04	4.4	1.0	18.61	10.00	8.50	0.00	32.79	02.74	82.80	00.20	6.61	0.00	4.09	0.00	2.5	
	5/3/2024	Cloudy	17:59	4.2	1.0	20.35	20.31	8.54	8.54	32.34	32.31	90.80	91.65	6.82	6.89	3.41	3.35	2.3	2.2
	0/0/2024	Oloudy	18:00	4.2	1.0	20.26	20.01	8.53	0.04	32.28	02.01	92.50	01.00	6.96	0.00	3.28	0.00	2.1	
	7/3/2024	Cloudy	10:32	4.0	1.0	20.86	20.89	8.64	8.62	32.56	32.58	90.20	89.45	6.74	6.70	3.40	3.39	2.3	2.4
		,	10:33	4.0	1.0	20.91		8.60	0.02	32.60		88.70		6.66		3.37	0.00	2.5	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ac	lverse weath	ier						
	11/3/2024	Cloudy	12:32	4.2	1.0	19.18	19.20	8.61	8.61	32.80	32.87	89.00	88.95	6.90	6.90	5.76	5.86	3.3	3.6
	11/3/2024	Cioudy	12:33	4.2	1.0	19.21	15.20	8.60	0.01	32.93	32.07	88.90	00.53	6.89	0.50	5.96	5.00	3.8	0.0
	13/3/2024	Strong Mansoon							WQM	was cancell	ed due to ac	verse weath	er						
SR9	15/3/2024	Cloudy	15:27	4.3	1.0	20.16	20.18	8.34	8.35	32.40	32 39	89.60	90.10	6.76	6.83	3.13	3.09	5.2	5.0
0.10	13/3/2024	Cioudy	15:28	4.3	1.0	20.20	20.10	8.35	0.33	32.37	32.35	90.60	30.10	6.89	0.03	3.04	3.05	4.8	0.0
	19/3/2024	Fine	18:13	4.3	1.0	20.65	20.76	8.52	8.53	32.24	32 19	91.10	90.20	6.94	6.89	4.50	4.59	3.5	3.4
	10/0/2024	1 1110	18:14	4.3	1.0	20.87	20.70	8.54	0.00	32.14	02.10	89.30	50.20	6.83	0.00	4.68	4.00	3.2	0.4
	21/3/2024	Cloudy	11:22	4.0	1.0	21.03	21.06	8.65	8.65	32.40	32.37	89.30	88.65	6.68	6.55	3.84	3.76	3.0	2.9
	21/0/2024	Gloddy	11:23	4.0	1.0	21.09	21.00	8.65	0.00	32.34	02.07	88.00	00.00	6.41	0.00	3.68	0.70	2.8	
	23/3/2024	Cloudy	12:07	3.9	1.0	22.17	22 12	8.52	8.52	32.34	32.32	89.60	89 15	6.84	6.82	3.44	3.34	<1.0	1.0
		,	12:08	3.9	1.0	22.07		8.52		32.29		88.70		6.79		3.24		1.0	
	25/3/2024	Cloudy	12:27	4.0	1.0	22.17	22.19	8.41	8.42	30.93	30.87	83.00	83.40	6.53	6.56	3.27	3.19	3.6	3.2
		,	12:28	4.0	1.0	22.21		8.42		30.80		83.80		6.59		3.11		2.8	
	27/3/2024	Cloudy	12:51	4.2	1.0	23.25	23.20	8.39	8.39	31.19	31.13	81.00	81.20	6.43	6.44	2.47	2.52	2.4	2.5
			12:52	4.2	1.0	23.15		8.38		31.07		81.40		6.44		2.56		2.6	l
	29/3/2024	Cloudy	13:55	4.1	1.0	22.47	22.53	8.39	8.39	31.29	31.40	91.00	90.90	6.80	6.80	2.84	2.80	2.3	2.2
			13:56	4.1	1.0	22.58		8.38		31.51		90.80		6.79		2.76		2.1	

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 (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	aturation		00	Turl	bidity	S	S
Station Reference	Date	Weather	Time	Depth	Depth	٩	С			p	pt		%	m	g/L		TU	mg	
	Date		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	9:35	4.1	2.1	18.73	18 71	8.47	8.53	32.94	32.94	89.30	88 75	6.88	6.85	4.68	4 60	2.5	2.7
	17012024	Cioday	9:36	4.1	2.1	18.69	10.71	8.58	0.00	32.93	02.04	88.20	00.70	6.81	0.00	4.51	4.00	2.8	
	5/3/2024	Cloudy	8:38	3.9	2.0	20.09	20.12	8.58	7 10	32.81	32 77	91.50	89.85	6.97	6.89	4.35	4.31	2.2	2.4
	3/3/2024	Cloudy	8:38	3.9	2.0	20.15	20.12	5.62	7.10	32.73	32.77	88.20	05.00	6.80	0.03	4.27	4.51	2.5	2.4
	7/3/2024	Cloudy	14:30	3.8	1.9	20.64	20.72	8.56	8.55	32.98	32.93	87.60	88.25	6.64	6.67	4.97	4.89	2.9	3.1
	1/3/2024	Cioudy	14:31	3.8	1.9	20.79	20.72	8.54	0.55	32.88	32.83	88.90	00.23	6.70	0.07	4.81	4.05	3.2	0.1
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	ner						
	11/3/2024	Cloudy	7:56	3.9	2.0	19.17	19 14	8.47	8.50	32.69	32 73	89.80	89.50	6.85	6.83	6.37	6 44	4.2	4.0
	11/3/2024	Cloudy	7:57	3.9	2.0	19.11	10.14	8.52	0.30	32.76	32.73	89.20	05.30	6.81	0.03	6.51	0.44	3.8	4.0
	13/3/2024	Cloudy	8:43	3.9	2.0	19.69	19.69	8.46	8.46	33.14	33.15	89.40	88 40	6.98	6.85	4.37	4 25	4.2	4.1
	10/0/2024	Gloddy	8:44	3.9	2.0	19.68	10.00	8.45	0.40	33.16	00.10	87.40	00.40	6.71	0.00	4.12	4.20	4.0	4.1
SR9	15/3/2024	Cloudy	9:32	4.0	2.0	20.29	20.26	8.50	8.50	32.58	32 59	88.10	87.80	6.94	6.90	4.05	3.98	4.9	5.1
	10/0/2024	Gloddy	9:33	4.0	2.0	20.23	20.20	8.50	0.00	32.60	02.00	87.50	07.00	6.85	0.50	3.91	0.00	5.3	
	19/3/2024	Fine	9:04	4.0	2.0	21.09	21.04	8.54	8.54	31.86	31.81	90.60	90.05	6.88	6.86	3.56	3.58	2.6	2.6
	10/0/2024	1110	9:05	4.0	2.0	20.99	21.04	8.53	0.04	31.76	01.01	89.50	50.00	6.83	0.00	3.60	0.00	2.6	2.0
	21/3/2024	Cloudy	15:29	4.2	2.1	20.85	20.81	8.62	8.63	32.30	32.29	90.90	91.00	6.88	6.89	2.60	2.53	2.2	2.3
	21/0/2024	Gloudy	15:30	4.2	2.1	20.76	20.01	8.63	0.00	32.27	OL.LU	91.10	01.00	6.90	0.00	2.45	2.00	2.4	
	23/3/2024	Cloudy	16:59	4.0	2.0	21.89	21.82	8.63	8.63	32.08	32.00	90.10	90.05	6.82	6.82	2.94	2.77	2.5	2.4
	2002024	Gloddy	17:00	4.0	2.0	21.74	21.02	8.62	0.00	31.92	02.00	90.00	50.00	6.82	0.02	2.60	2	2.2	2.4
	25/3/2024	Cloudy	18:19	3.6	1.8	21.64	21.76	8.41	8.41	31.39	31.45	87.20	88.05	6.84	6.91	4.47	4.42	1.9	2.3
	EG/G/EGE4	Gloddy	18:20	3.6	1.8	21.88	21.70	8.40	0.41	31.50	01.40	88.90	00.00	6.98	0.01	4.37	4.42	2.6	
	27/3/2024	Cloudy	7:56	3.9	2.0	23.06	23.12	8.47	8.48	31.08	31.12	88.20	88.10	6.84	6.84	3.47	3.38	2.7	2.5
	22.2024	2.5ddy	7:57	3.9	2.0	23.17	20.12	8.48	0.40	31.16	31.12	88.00	30.10	6.83	0.04	3.29	0.00	2.3	
	29/3/2024	Cloudy	8:26	3.7	1.8	22.95	22.91	8.42	8.43	31.59	31.62	82.70	83.55	6.88	6.93	3.17	3.11	2.6	2.5
	25.2.2024	2.Judy	8:27	3.7	1.8	22.87	22.01	8.43	0.40	31.64	31.02	84.40	30.00	6.97	0.50	3.05	0.11	2.4	2.0

Impact Water Quality Monitoring at Station SR9 (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			p	pt		%	m	g/L	N'	TU	m	ng/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	15:06	4.4	3.4	18.52	18.50	8.53	8.50	32.87	32.78	89.60	90 10	6.92	6.95	4.71	4 65	3.4	
	170/2024	Oloudy	15:07	4.4	3.4	18.47	10.00	8.47	0.00	32.69	02.70	90.60	50.10	6.97	0.00	4.58	4.00	3.1	
	5/3/2024	Cloudy	18:02	4.2	3.2	20.24	20.31	8.52	8.52	32.22	32.26	91.60	91.00	6.88	6.83	3.54	3.40	1.8	
		,	18:03	4.2	3.2	20.37		8.52	0.02	32.30		90.40		6.77		3.25		1.6	
	7/3/2024	Cloudy	10:35	4.0	3.0	20.87	20.85	8.65	8 65	32.97	32.91	89.00	90.30	6.83	6.88	3.41	3.54	1.4	1.4
	770/2024	Gloddy	10:36	4.0	3.0	20.83	20.00	8.65	0.00	32.84	02.01	91.60	50.50	6.93	0.00	3.67	0.04	1.4	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ac	lverse weath	ier						
	11/3/2024	Cloudy	12:35	4.2	3.2	19.17	19 19	8.59	8.61	32.24	32.32	84.80	84.50	6.62	6.61	6.08	6.00	3.4	
	11/3/2024	Cioudy	12:36	4.2	3.2	19.21	10.10	8.62	0.01	32.39	32.32	84.20	04.30	6.59	0.01	5.92	0.00	3.6	0.0
	13/3/2024	Strong Mansoon							WQM	was cancell	ed due to ac	lverse weath	ier						
SR9	15/3/2024	Cloudy	15:30	4.3	3.3	20.06	20.09	8.35	8.35	32.58	32 59	87.20	86.50	6.59	6.56	3.42	3.51	3.9	4.1
SICS	13/3/2024	Cioudy	15:31	4.3	3.3	20.11	20.05	8.35	0.33	32.60	32.35	85.80	00.30	6.52	0.50	3.59	3.31	4.3	4.1
	19/3/2024	Fine	18:16	4.3	3.3	20.89	20.79	8.52	8.52	32.04	32 10	94.60	93.60	6.87	6.82	4.17	4 10	2.7	2.6
	13/3/2024	1 1110	18:17	4.3	3.3	20.68	20.75	8.52	0.32	32.16	32.10	92.60	55.00	6.76	0.02	4.02	4.10	2.4	20
	21/3/2024	Cloudy	11:25	4.0	3.0	20.95	20.97	8.65	8 65	32.48	32.52	89.20	89 75	6.66	6.70	3.90	4.03	3.0	
		,	11:26	4.0	3.0	20.98		8.64	0.00	32.56		90.30		6.73		4.16		2.8	
	23/3/2024	Cloudy	12:09	3.9	2.9	21.86	21.83	8.53	8.53	32.29	32 28	89.10	89 75	6.72	6.75	2.84	2 96	1.8	
		,	12:10	3.9	2.9	21.79		8.52	0.00	32.26		90.40		6.77		3.07		1.3	
	25/3/2024	Cloudy	12:29	4.0	3.0	22.01	22.13	8.42	8.42	31.23	31.25	88.20	87.80	6.64	6.61	2.76	2.86	2.7	2.7
			12:30	4.0	3.0	22.25		8.42		31.26		87.40		6.58		2.95		2.6	
	27/3/2024	Cloudy	12:53	4.2	3.2	23.16	23.03	8.38	8.38	31.45	31.38	86.50	86.15	6.60	6.57	2.94	2.82	2.2	
		,	12:54	4.2	3.2	22.89		8.38		31.31		85.80	,,,,,,	6.54		2.70		2.0	
	29/3/2024	Cloudy	13:57	4.1	3.1	22.09	22.20	8.37	8.37	31.08	31.13	93.10	93.40	6.95	6.97	2.97	3.01	2.5	
		,	13:58	4.1	3.1	22.30		8.36		31.17		93.70		6.99		3.04		2.8	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 SR9 (Bottom) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity		turation	D	00		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С		-		pt		%	m			TU		ıg/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	9:38	4.1	3.1	18.91	18.87	8.59	8.61	32.89	32.92	86.10	86.20	6.72	6.74	4.60	4.71	3.2	
		,	9:39	4.1	3.1	18.82		8.63		32.95		86.30		6.75		4.82		3.2	
	5/3/2024	Cloudy	8:40	3.9	2.0	20.18	20.15	8.63	8 64	32.61	32 60	93.00	91.80	6.94	6.91	4.22	4.20	3.2	
		,	8:41	3.9	2.0	20.12		8.64		32.58		90.60		6.87		4.18		2.9	
	7/3/2024	Cloudy	14:32	3.8	2.8	20.76	20.78	8.56	8.56	33.06	33.04	82.90	83.50	6.53	6.57	4.28	4.35	1.7	1.8
	170/2024	Oloudy	14:33	3.8	2.8	20.80	20.70	8.55	0.00	33.01	00.04	84.10	00.00	6.61	0.07	4.42	4.00	1.9	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	er						
	11/3/2024	Cloudy	7:58	3.9	2.9	19.15	19 18	8.50	8.48	32.59	32 63	86.00	85.20	6.69	6.65	6.24	6.22	2.6	3.1
	11/3/2024	Cidudy	7:59	3.9	2.9	19.20	19.10	8.46	0.40	32.67	32.03	84.40	65.20	6.60	0.03	6.19	0.22	3.5	3.1
	13/3/2024	Cloudy	8:45	3.9	2.9	19.70	19.68	8.44	8.46	33.01	33.05	83.80	84.15	6.43	6.46	3.72	3.78	3.6	3.4
	13/3/2024	Cioudy	8:46	3.9	2.9	19.66	13.00	8.47	0.40	33.08	33.03	84.50	04.13	6.49	0.40	3.84	3.70	3.1	0.4
SR9	15/3/2024	Cloudy	9:35	4.0	3.0	20.18	20 19	8.49	8.50	32.42	32 41	83.90	84.55	6.60	6.62	4.15	4 16	3.5	3.4
0110	10/0/2024	Oloudy	9:36	4.0	3.0	20.20	20.10	8.50	0.00	32.40	02.41	85.20	04.00	6.64	0.02	4.16	4.10	3.2	0.4
	19/3/2024	Fine	9:07	4.0	3.0	20.89	20.93	8.53	8.53	32.01	32.08	93.50	93.05	6.85	6.83	3.62	3.73	1.5	1.6
	10/0/2024	1 1110	9:08	4.0	3.0	20.97	20.00	8.53	0.00	32.14	02.00	92.60	00.00	6.81	0.00	3.84	0.70	1.6	
	21/3/2024	Cloudy	15:32	4.2	3.2	20.74	20.70	8.63	8 64	32.41	32.38	90.60	90.95	6.91	6.94	3.11	3.18	3.5	
		,	15:33	4.2	3.2	20.65		8.64		32.35		91.30		6.96		3.25		3.2	
	23/3/2024	Cloudy	17:02	4.0	3.0	21.98	22 01	8.63	8.63	31.87	31.78	89.90	89 15	6.80	6.78	2.93	2 99	2.5	
		,	17:03	4.0	3.0	22.04		8.63	0.00	31.69		88.40		6.76		3.05		2.2	
	25/3/2024	Cloudy	18:21	3.6	2.6	21.87	21.77	8.41	8.41	31.44	31.46	85.90	86.10	6.73	6.76	4.17	4.27	4.0	
			18:22	3.6	2.6	21.67		8.41		31.47		86.30		6.78		4.36		3.2	
	27/3/2024	Cloudy	7:58	3.9	2.9	22.99	22.99	8.47	8.47	31.36	31.28	82.20	82.75	6.39	6.42	3.67	3.77	1.7	1.6
		,	7:59	3.9	2.9	22.98		8.46		31.20		83.30	,2	6.45		3.86	•	1.5	
	29/3/2024	Cloudy	8:28	3.7	2.7	22.86	22.79	8.42	8.42	31.41	31.37	82.80	81.55	6.76	6.72	3.15	3.26	1.6	
			8:29	3.7	2.7	22.72		8.42		31.32		80.30		6.67		3.36		1.8	

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sal	inity	DO Sa	turation	D	0	Turt	oidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	٩	С			р			%	m	g/L	N'	ΓU	m	g/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	14:53	2.9	1.5	18.68	18.70	8.63	8.59	32.43	32.51	89.00	89.60	6.92	6.94	4.73	4.66	2.9	2.9
	170/2024	Oloudy	14:54	2.9	1.5	18.71	10.70	8.55	0.00	32.58	02.01	90.20	00.00	6.95	0.54	4.58	4.00	2.8	
	5/3/2024	Cloudy	17:50	2.8	1.4	20.19	20 19	8.56	8 55	32.67	32 61	86.10	85 45	6.63	6.58	3.23	3.32	2.4	2.3
		,	17:51	2.8	1.4	20.18		8.54	0.00	32.54		84.80		6.52		3.40		2.2	
	7/3/2024	Cloudy	10:41	2.7	1.4	20.87	20.90	8.62	8.62	33.02	33.04	90.10	89.25	6.70	6.65	4.09	4.02	3.6	3.4
		,	10:42	2.7	1.4	20.92		8.62	0.02	33.06		88.40		6.59		3.95		3.2	
	9/3/2024	Strong Mansoon							WQM	was cancelle	ed due to ad	lverse weath	ier						
	11/3/2024	Cloudy	12:23	2.6	1.3	19.31	19.30	8.59	8.61	32.80	32 77	86.30	87.50	6.78	6.81	5.36	5.42	3.7	3.9
	11/3/2024	Cioudy	12:24	2.6	1.3	19.28	15.50	8.62	0.01	32.74	32.77	88.70	07.30	6.84	0.01	5.47	5.42	4.0	0.0
	13/3/2024	Strong Mansoon							WQM	was cancelle	ed due to ad	lverse weath	ier						
SR10	15/3/2024	Cloudy	15:18	2.7	1.4	20.08	20.09	8.35	8.35	32.65	32 63	85.70	86.80	6.58	6.76	4.26	4 16	3.6	3.5
3810	15/3/2024	Cioudy	15:19	2.8	1.4	20.10	20.09	8.34	0.33	32.60	32.03	87.90	00.00	6.94	0.76	4.06	4.10	3.4	3.5
	19/3/2024	Fine	18:04	2.7	1.4	20.65	20.72	8.54	8.54	32.11	32.08	90.70	89 65	6.85	6.82	3.84	3.91	1.8	1.7
	13/3/2024	1 1110	18:05	2.7	1.4	20.79	20.72	8.53	0.54	32.05	32.00	88.60	05.00	6.78	0.02	3.97	3.51	1.5	1.7
	21/3/2024	Cloudy	11:31	2.6	1.3	20.87	20.93	8.62	8.63	32.37	32 29	89.50	90.70	6.70	6.77	4.11	4.05	4.4	4.6
		,	11:32	2.6	1.3	20.99		8.64	0.00	32.21		91.90		6.84	****	3.99		4.8	
	23/3/2024	Cloudy	12:16	2.5	1.3	21.98	21.89	8.53	8 54	31.96	31.86	87.90	88.20	6.52	6.56	4.01	3.85	2.0	1.7
		,	12:17	2.5	1.3	21.80		8.54		31.75		88.50		6.60	0.00	3.68	0.00	1.3	
	25/3/2024	Cloudy	12:36	2.7	1.4	21.97	21.92	8.43	8.43	31.54	31.47	88.10	87.85	6.83	6.79	3.47	3.36	3.0	2.8
			12:37	2.7	1.4	21.87		8.43		31.40		87.60		6.75		3.24		2.6	
	27/3/2024	Cloudy	12:42	2.8	1.4	23.19	23.16	8.38	8.38	31.09	31.01	83.70	83.30	6.65	6.58	3.27	3.15	1.4	1.5
			12:43	2.8	1.4	23.12		8.37		30.93		82.90		6.51		3.02		1.5	
	29/3/2024	Cloudy	13:45	2.7	1.4	22.25	22.22	8.37	8.37	31.52	31.50	92.70	93.05	6.93	6.95	3.10	3.06	1.6	
			13:46	2.7	1.4	22.19		8.37		31.47	l	93.40		6.97		3.01	l	1.8	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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Lam Environmental Services Limited

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

	Sampling		Sampling	Water	Sampling		erature	р	Н	Sal	inity	DO Sa	turation	D	0	Turt	oidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٩	С			р	pt	•	%	mg		N'		m	ng/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	9:44	2.7	1.4	18.74	18.70	8.59	8.59	32.62	32.67	87.20	87.60	6.76	6.79	5.17	5.12	1.6	
	1702024	Cicacy	9:45	2.7	1.4	18.65	10.70	8.58	0.00	32.71	02.07	88.00	07.00	6.82	0.70	5.06	0.12	1.9	
	5/3/2024	Cloudy	8:47	2.4	1.2	20.19	20.12	8.65	8 64	32.84	32.78	87.60	87.00	6.62	6.58	3.97	3.99	1.6	
			8:48	2.4	1.2	20.04		8.62		32.71		86.40	0.100	6.54		4.01		1.4	
	7/3/2024	Cloudy	14:20	2.8	1.4	20.59	20.68	8.56	8.55	33.12	33.19	82.30	83.00	6.47	6.50	4.52	4.43	3.2	
	7702024	Cicacy	14:21	2.8	1.4	20.76	20.00	8.54	0.00	33.26	00.10	83.70	00.00	6.53	0.00	4.34	4.40	2.8	
	9/3/2024	Strong Mansoon							WQM	was cancelle	ed due to ad	verse weath	ier						
	11/3/2024	Cloudy	8:06	2.6	1.3	19.17	19 19	8.50	8.51	33.04	33.00	88.70	89.80	6.83	6.89	5.74	5.86	2.6	3
	11/3/2024	Cloudy	8:07	2.6	1.3	19.21	19.19	8.52	0.51	32.95	33.00	90.90	09.00	6.94	0.09	5.98	3.00	3.4	J.
	13/3/2024	Cloudy	8:52	2.4	1.2	19.73	19.72	8.47	8.46	33.16	33 14	90.00	91.05	6.89	6.94	3.56	3.53	3.6	3
	13/3/2024	Cloudy	8:53	2.4	1.2	19.70	10.72	8.45	0.40	33.11	33.14	92.10	31.03	6.99	0.54	3.49	5.5	3.5	Ĭ
SR10	15/3/2024	Cloudy	9:40	2.5	1.3	20.11	20.15	8.52	8.51	32.53	32.54	87.40	86.55	6.87	6.81	4.37	4.29	4.0	4
01110	10/0/2024	Gloddy	9:41	2.5	1.3	20.19	20.10	8.50	0.01	32.54	02.04	85.70	00.00	6.75	0.01	4.21	4.20	4.2	
	19/3/2024	Fine	9:13	2.4	1.2	20.70	20.74	8.52	8.52	32.06	32.10	89.00	89.65	6.73	6.75	4.47	4 43	1.7	1
	10/0/2024	1 110	9:14	2.4	1.2	20.78	20.74	8.52	0.02	32.13	02.10	90.30	05.00	6.77	0.70	4.38	4.40	1.8	
	21/3/2024	Cloudy	15:20	2.8	1.4	20.74	20.80	8.63	8 64	31.87	31.93	87.00	87.65	6.62	6.66	2.74	2 67	2.2	
			15:21	2.8	1.4	20.85		8.64		31.98	0	88.30	00	6.69		2.59		2.6	
	23/3/2024	Cloudy	16:49	2.6	1.3	22.10	22 01	8.64	8 64	31.85	31.73	86.20	86.60	6.49	6.50	3.01	2.86	<1.0	1
			16:50	2.6	1.3	21.91		8.63		31.60		87.00		6.51		2.70	-100	<1.0	
	25/3/2024	Cloudy	18:09	2.6	1.3	22.02	21.96	8.40	8 40	31.74	31.68	87.70	87 95	6.82	6.84	4.69	4 63	3.5	
			18:10	2.6	1.3	21.89		8.40		31.61	000	88.20	00	6.86		4.57		2.3	
	27/3/2024	Cloudy	8:05	2.4	1.2	23.10	23.06	8.49	8 49	30.94	30.91	81.90	82 90	6.47	6.51	3.25	3 19	2.4	2
	22.2024	2.2009	8:06	2.4	1.2	23.02	_0.00	8.48	0.40	30.87	30.01	83.90	32.00	6.55	0.01	3.13	0.10	2.2	
	29/3/2024	Cloudy	8:36 8:37	2.3	1.2	22.58	22.61	8.40 8.41	8.41	31.24 31.36	31.30	84.90 84.30	84.60	6.88	6.81	2.95	2.92	1.5	

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity		turation	D	00		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С		-		pt		%	m			TU		ıg/L
	Duto		1 11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	14:47	2.7	1.4	18.68	18.63	8.54	8.62	32.83	32.76	84.30	84.55	6.74	6.76	5.01	5.19	3.0	2.8
		,	14:48	2.7	1.4	18.57		8.70	0.02	32.69		84.80	0.1100	6.77		5.37		2.6	
	5/3/2024	Cloudy	17:45	2.7	1.4	20.16	20.18	8.52	8.52	32.48	32.54	90.90	90.15	6.87	6.81	3.01	2.94	3.0	3.2
			17:46	2.7	1.4	20.20		8.52		32.59		89.40		6.74		2.87		3.3	
	7/3/2024	Cloudy	10:47	2.6	1.3	20.58	20.61	8.50	8.55	33.11	33.13	91.60	90.15	6.83	6.78	3.67	3.76	3.2	
		,	10:48	2.6	1.3	20.64		8.59		33.15		88.70		6.72		3.84		2.9	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	er						
	11/3/2024	Cloudy	12:16	2.7	1.4	19.36	19.38	8.61	8.61	32.76	32.65	87.70	87.55	6.85	6.84	5.27	5.23	2.6	3.1
	11/3/2024	Cloudy	12:17	2.7	1.4	19.40	19.30	8.60	0.01	32.54	32.03	87.40	67.55	6.83	0.04	5.19	5.23	3.6	3.1
	13/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	er						
SR12	15/3/2024	Cloudy	15:13	2.8	1.4	20.14	20.12	8.37	8.37	32.71	32 70	90.80	91.80	6.87	6.93	4.12	4 16	4.0	3.9
SK12	15/3/2024	Cloudy	15:14	2.8	1.4	20.09	20.12	8.36	0.31	32.68	32.70	92.80	91.00	6.98	0.93	4.19	4.10	3.8	3.9
	19/3/2024	Fine	17:57	2.8	1.4	20.43	20.51	8.51	8.52	32.08	32 14	89.30	90.00	6.73	6.79	3.94	3.98	2.8	2.9
	18/3/2024	1110	17:58	2.8	1.4	20.58	20.51	8.52	0.32	32.20	32.14	90.70	30.00	6.85	0.73	4.01	3.50	3.0	20
	21/3/2024	Cloudy	11:37	2.6	1.3	20.87	20.76	8.65	8 65	32.18	32.24	84.30	84.55	6.50	6.52	4.02	4.07	4.2	4.1
	Z I/O/ZOZ4	Gloddy	11:38	2.6	1.3	20.65	20.70	8.65	0.00	32.29	OZ.L4	84.80	04.00	6.54	0.02	4.12	4.07	4.0	4.1
	23/3/2024	Cloudy	12:21	2.4	1.2	21.99	22.00	8.54	8.54	31.56	31.62	87.30	86 45	6.55	6.52	4.01	4 13	<1.0	1.1
	ZUI UI ZUZ	Gloddy	12:22	2.4	1.2	22.01	22.00	8.54	0.04	31.68	01.02	85.60	00.40	6.48	0.02	4.25	4.10	1.2	
	25/3/2024	Cloudy	12:43	2.8	1.4	21.56	21.64	8.44	8 44	31.36	31.40	91.60	90.85	6.83	6.77	3.85	3.77	2.8	
		,	12:44	2.8	1.4	21.71		8.43		31.44		90.10	0.0.00	6.70	•	3.69	•	2.2	
	27/3/2024	Cloudy	12:38	2.7	1.4	23.09	23.13	8.38	8.39	31.06	31.05	88.10	87.90	6.86	6.85	3.47	3.52	1.8	
	22.2024	2.Judy	12:39	2.7	1.4	23.17	20.10	8.39	0.00	31.04	31.00	87.70	37.00	6.83	0.00	3.56	0.02	1.6	
	29/3/2024	Cloudy	13:38	2.8	1.4	22.30	22.36	8.39	8.39	31.30	31.27	92.40	91.85	6.90	6.85	3.05	3.02	1.2	
			13:39	2.8	1.4	22.41	12.00	8.38		31.24	1	91.30		6.80		2.98		1.4	

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.

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Lam Environmental Services Limited

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	turation		00	Tur	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٥	С			р	pt		%	m	g/L	N	TU	m	ıg/L
	Date		TITLE	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	9:50	2.5	1.3	18.80	18.76	8.56	8.57	32.70	32.77	85.60	85.00	6.65	6.60	4.86	4.90	2.6	2.8
	170/2024	Gloudy	9:51	2.5	1.3	18.72	10.70	8.57	0.07	32.84	02.77	84.40	00.00	6.54	0.00	4.94	4.50	3.0	
	5/3/2024	Cloudy	8:53	2.3	1.2	20.09	20.08	8.65	8 64	32.41	32.36	88.60	89.50	6.82	6.85	3.71	3.79	1.6	1.6
	0.02024	Gloddy	8:54	2.3	1.2	20.06	20.00	8.63	0.04	32.30	02.00	90.40	00.00	6.87	0.00	3.86	0.70	1.6	1.0
	7/3/2024	Cloudy	14:13	2.5	1.3	20.61	20.54	8.53	8.54	33.08	33 10	87.70	86.95	6.71	6.69	4.74	4.88	2.7	2.9
	170/2024	Gloudy	14:14	2.5	1.3	20.47	20.04	8.54	0.04	33.12	00.10	86.20	00.00	6.66	0.00	5.02	4.00	3.0	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ac	lverse weath	er						
	11/3/2024	Cloudy	8:12	2.5	1.3	19.20	19.22	8.39	8.46	33.08	33.01	88.30	89.30	6.77	6.86	5.91	5.87	2.7	2.7
	11/3/2024	Cloudy	8:13	2.5	1.3	19.24	19.22	8.52	0.40	32.93	33.01	90.30	69.30	6.95	0.00	5.82	5.07	2.6	2.7
	13/3/2024	Cloudy	8:59	2.5	1.3	19.69	19.71	8.46	8.46	33.20	33 19	82.20	82.90	6.45	6.48	3.41	3.33	3.0	3.2
	101012024	Gloddy	9:00	2.5	1.3	19.72	10.71	8.45	0.40	33.18	00.10	83.60	02.50	6.50	0.40	3.25	0.00	3.3	
SR12	15/3/2024	Cloudy	9:46	2.6	1.3	20.14	20.16	8.51	8.52	32.50	32.51	85.90	84.95	6.52	6.47	4.50	4.58	3.2	
OKIZ	10/0/2024	Gloddy	9:47	2.6	1.3	20.17	20.10	8.52	0.02	32.51	02.01	84.00	04.50	6.42	0.41	4.65	4.00	3.6	0.4
	19/3/2024	Fine	9:19	2.5	1.3	20.58	20.64	8.52	8.53	32.10	32.12	87.70	86.60	6.85	6.78	4.36	4.31	2.3	2.3
	10/0/2024	1 1110	9:20	2.5	1.3	20.69	20.04	8.53	0.00	32.14	02.12	85.50	00.00	6.71	0.70	4.25	4.01	2.2	
	21/3/2024	Cloudy	15:13	2.7	1.4	20.73	20.70	8.64	8 64	31.69	31 64	90.80	89 95	6.87	6.84	2.80	2.89	2.5	
		,	15:14	2.7	1.4	20.67		8.64		31.58		89.10		6.80		2.98		2.8	
	23/3/2024	Cloudy	16:40	2.6	1.3	22.06	22.12	8.63	8.63	31.32	31.40	86.70	86.45	6.53	6.52	3.94	4.00	3.0	
		,	16:41	2.6	1.3	22.17		8.63	0.00	31.47		86.20		6.51	0.02	4.05		2.2	
	25/3/2024	Cloudy	18:03	2.5	1.3	22.04	22.11	8.39	8.40	31.84	31.90	90.20	91.20	6.88	6.92	4.84	4.72	3.4	3.0
			18:04	2.5	1.3	22.17		8.40		31.95		92.20		6.95		4.60		2.5	
	27/3/2024	Cloudy	8:10	2.3	1.2	23.25	23.31	8.48	8.48	30.76	30.80	90.20	89.70	6.88	6.85	3.08	3.17	1.7	1.7
		,	8:11	2.3	1.2	23.36		8.48		30.84		89.20		6.82		3.26		1.6	
	29/3/2024	Cloudy	8:42	2.4	1.2	22.37	22.39	8.42	8.42	31.17	31.19	87.50	88.25	6.90	6.91	3.25	3.20	1.4	1.3
General Note:		f average concer	8:43	2.4	1.2	22.41		8.42		31.20		89.00		6.92		3.15		1.2	l

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	H	Sal	inity	DO Sa	turation	D	00	Turk	oidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р			%	m			TU		ng/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	15:45	2.9	1.5	18.24	18 19	8.37	8 44	32.19	32 25	88.00	88.65	6.89	6.94	3.98	4.03	3.6	
	170/2024	Oloudy	15:46	2.9	1.5	18.14	10.10	8.50	0.44	32.31	OZ.ZO	89.30	00.00	6.99	0.54	4.08	4.00	3.2	
	5/3/2024	Cloudy	18:40	2.7	1.4	20.48	20.54	8.51	8.51	32.66	32 69	90.60	90.20	6.74	6.70	4.12	4 09	3.2	
		,	18:41	2.7	1.4	20.60		8.50		32.71		89.80		6.65		4.06		2.9	
	7/3/2024	Cloudy	9:49	2.4	1.2	21.32	21.36	8.69	8 70	32.32	32 37	89.20	88.65	6.84	6.81	4.25	4 18	3.6	
	170/2024	Oloudy	9:50	2.4	1.2	21.40	21.00	8.71	0.70	32.41	02.07	88.10	00.00	6.78	0.01	4.10	4.10	3.9	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	er						
	11/3/2024	Cloudy	13:16	2.6	1.3	19.10	19.07	8.45	8.51	32.94	32.88	81.60	82.15	6.38	6.41	5.08	5.19	5.0	5.5
	11/3/2024	Cidudy	13:17	2.6	1.3	19.03	19.07	8.56	0.51	32.82	32.00	82.70	02.13	6.43	0.41	5.29	5.19	6.0	5.5
	13/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	er						
SR15	15/3/2024	Cloudy	16:10	2.8	1.4	20.12	20 11	8.35	8.36	32.56	32 59	87.80	86.50	6.57	6.56	3.69	3 63	3.4	3.3
OICIO	10/0/2024	Oloudy	16:11	2.8	1.4	20.10	20.11	8.36	0.00	32.61	02.00	85.20	00.00	6.54	0.00	3.57	0.00	3.1	0.0
	19/3/2024	Fine	18:54	2.3	1.2	20.89	20.95	8.51	8.51	32.67	32.56	87.60	87.05	6.64	6.63	4.01	3.96	1.3	1.3
	10/0/2024	1 1110	18:55	2.3	1.2	21.00	20.00	8.50	0.01	32.44	02.00	86.50	01.00	6.61	0.00	3.90	0.00	1.3	
	21/3/2024	Cloudy	10:39	2.4	1.2	21.08	21 10	8.67	8.68	32.15	32 18	91.00	90.85	6.88	6.87	4.37	4 25	3.6	
	Z II GIZOZ4	Oloudy	10:40	2.4	1.2	21.12	21.10	8.68	0.00	32.20	02.10	90.70	50.00	6.86	0.07	4.12	4.20	3.3	0.0
	23/3/2024	Cloudy	11:24	2.4	1.2	22.77	22.79	8.55	8.54	31.59	31.64	94.90	94.40	6.92	6.89	3.84	3.77	1.3	
	ZU U ZUZ-	Oloudy	11:25	2.4	1.2	22.80	22.70	8.53	0.04	31.68	01.04	93.90	54.40	6.86	0.00	3.69	0.77	1.2	
	25/3/2024	Cloudy	11:49	2.7	1.4	22.06	21.98	8.42	8.43	30.79	30.91	89.80	90.30	6.70	6.74	3.70	3.58	2.9	
	25.5.2024	2.5uuy	11:50	2.7	1.4	21.89	_1.00	8.43	0.40	31.02	30.01	90.80	30.00	6.78	0.74	3.46	0.00	3.3	
	27/3/2024	Cloudy	12:36	2.7	1.4	23.17	23.09	8.39	8.39	30.91	30.85	88.70	89.15	6.69	6.73	2.99	2.95	2.3	
	22024	2.5uuy	12:37	2.7	1.4	23.01	20.00	8.38	0.00	30.78	50.00	89.60	30.10	6.77	0.70	2.90	2.00	2.1	
	29/3/2024	Cloudy	14:42	2.7	1.4	23.17	23.09	8.26	8.27	31.95	31.91	93.00	91.80	6.84	6.86	2.67	2.62	1.2	
	F	,	14:43	2.7	1.4	23.01		8.27		31.87		90.60		6.87	0.00	2.57		1.2	

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

			I	Water	Sampling	Temp	erature		Н	Sa	linity	DO Sa	turation	D	0	Turb	idity		SS
Station Reference	Sampling Date	Weather	Sampling Time	Depth	Depth		'C			р	ppt		%	m	g/L	NT	U	m	ıg/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	8:52	2.7	1.4	18.13	18.08	8.47	8.53	32.48	32 49	85.80	85.30	6.60	6.56	5.01	4 95	3.3	3.5
	170/2024	Gloday	8:53	2.7	1.4	18.03	10.00	8.58	0.00	32.50	02.40	84.80	00.00	6.51	0.00	4.89	4.55	3.7	0.0
	5/3/2024	Cloudy	7:55	2.2	1.1	20.63	20.59	8.63	8.62	32.38	32 40	90.10	90.55	6.86	6.89	4.67	4 60	1.4	1.5
	0/0/2024	Oloddy	7:56	2.2	1.1	20.55	20.00	8.61	0.02	32.41	02.40	91.00	50.55	6.92	0.00	4.53	4.00	1.5	
	7/3/2024	Cloudy	15:12	2.6	1.3	20.85	20.81	8.45	8.44	32.07	32.35	90.50	90.55	6.87	6.88	4.12	4.09	2.3	2.2
		,	15:13	2.6	1.3	20.77		8.43		32.62		90.60		6.88		4.05		2.1	
	9/3/2024	Strong Mansoon							WQM	was cancell	led due to ad	verse weath	ier						
	11/3/2024	Cloudy	7:14	2.4	1.2	18.88	18.93	8.57	8.56	32.72	32.68	89.50	89.25	6.83	6.82	6.17	6.25	3.1	3.9
	11/0/2024	Gloday	7:15	2.4	1.2	18.97	10.00	8.55	0.00	32.64	02.00	89.00	00.20	6.80	0.02	6.33	0.20	4.6	0.0
	13/3/2024	Cloudy	7:59	2.5	1.3	19.71	19.70	8.38	8.39	33.10	33.07	87.80	88.55	6.62	6.66	4.27	4 24	2.7	2.6
	10/0/2024	Oloddy	8:00	2.5	1.3	19.68	10.70	8.40	0.00	33.03	00.07	89.30	00.00	6.70	0.00	4.21	4.24	2.5	
SR15	15/3/2024	Cloudy	8:49	2.4	1.2	20.23	20.22	8.50	8.51	32.64	32.61	85.90	85.50	6.66	6.63	4.17	4 11	4.8	5.0
	10.0.00	,	8:50	2.4	1.2	20.20		8.51		32.58		85.10		6.60		4.04		5.1	
	19/3/2024	Fine	8:19	2.4	1.2	20.85	20.91	8.53	8.53	31.76	31.88	88.00	88 10	6.60	6.62	4.73	4 68	2.7	2.6
			8:20	2.4	1.2	20.96		8.53	0.00	31.99		88.20		6.63	0.02	4.62		2.5	
	21/3/2024	Cloudy	16:12	2.7	1.4	20.70	20.66	8.60	8.61	32.74	32.70	89.20	88.15	6.85	6.82	3.25	3.14	2.2	2.3
		-	16:13	2.7	1.4	20.61		8.61		32.65		87.10		6.79		3.03		2.4	
	23/3/2024	Cloudy	17:41	2.6	1.3	22.17	22.12	8.61	8.61	32.19	32.15	90.00	90.05	6.79	6.83	2.74	2.67	2.4	2.8
			17:42	2.6	1.3	22.07		8.61		32.10		90.10		6.86		2.60		3.1	
	25/3/2024	Cloudy	19:02	2.4	1.2	21.74	21.72	8.33	8.33	31.58	31.50	87.70	88.00	6.85	6.89	4.37	4.26	2.8	2.9
			19:03	2.4	1.2	21.69		8.32		31.42		88.30		6.93		4.15		2.9	
	27/3/2024	Cloudy	7:10	2.3	1.2	23.66	23.61	8.50	8.50	30.41	30.48	90.30	90.75	6.82	6.84	3.47	3.36	2.0	2.0
			7:11	2.3	1.2	23.56		8.50		30.54		91.20		6.86		3.25		1.9	
	29/3/2024	Cloudy	7:42 7:43	2.2	1.1	23.44	23.37	8.43 8.42	8.43	31.03 31.17	31.10	84.10 86.60	85.35	6.64	6.67	4.15 4.04	4.10	1.4	1.5

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sal	inity		turation	D	0		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С				pt		%	m			TU		ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	14:35	8.7	4.4	16.59	16.54	8.63	8.63	32.18	32.13	85.70	85.30	6.72	6.70	4.19	4.25	2.8	
		,	14:36	8.7	4.4	16.48		8.62		32.07		84.90		6.68		4.30		3.0	
	5/3/2024	Cloudy	17:32	8.6	4.3	20.21	20.23	8.52	8.52	32.49	32 44	90.70	91.55	6.87	6.91	3.17	3 10	2.3	2.2
		,	17:33	8.6	4.3	20.25		8.51		32.38		92.40		6.94		3.02		2.1	
	7/3/2024	Cloudy	10:59	8.4	4.2	21.02	20.98	8.67	8.67	33.09	33.06	90.90	89.25	6.91	6.87	2.57	2.60	3.9	
		,	11:00	8.4	4.2	20.93		8.66		33.02		87.60		6.83		2.62		3.6	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	ier						
	11/3/2024	Cloudy	12:05	8.6	4.3	19.30	19.28	8.59	8.59	32.47	32.51	90.20	49.64	6.90	6.93	6.47	6.55	6.4	5.8
	11/3/2024	Cioudy	12:06	8.6	4.3	19.25	19.20	8.58	0.59	32.55	32.51	9.08	49.04	6.95	6.93	6.63	6.55	5.2	3.0
	13/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	er						
CE	15/3/2024	Cloudy	15:00	8.7	4.4	20.10	20.12	8.34	8.35	32.91	32.95	89.00	88.05	6.71	6.66	3.12	3.07	4.8	5.0
OL.	15/3/2024	Cioudy	15:01	8.7	4.4	20.14	20.12	8.35	0.33	32.98	32.93	87.10	00.00	6.60	0.00	3.02	3.07	5.2	3.0
	19/3/2024	Fine	17:45	8.8	4.4	20.65	20.72	8.54	8.54	32.37	32 41	91.10	90.85	6.77	6.75	2.37	2.47	1.4	1.5
	13/3/2024	1 1110	17:46	8.8	4.4	20.78	20.72	8.53	0.54	32.45	32.41	90.60	50.05	6.73	0.75	2.56	2.47	1.6	1.5
	21/3/2024	Cloudy	11:49	8.4	4.2	20.70	20.72	8.63	8 64	32.38	32 44	88.90	89.45	6.69	6.72	3.04	3.07	4.6	4.5
	21/3/2024	Cioudy	11:50	8.4	4.2	20.73	20.72	8.64	0.04	32.49	32.44	90.00	05.40	6.74	0.72	3.10	3.07	4.4	4.0
	23/3/2024	Cloudy	12:34	8.4	4.2	21.87	21.84	8.55	8.55	31.87	31.91	90.10	90.35	6.69	6.70	2.71	2 69	2.0	1.9
	23/3/2024	Cioudy	12:35	8.4	4.2	21.81	21.04	8.54	0.55	31.95	31.51	90.60	50.55	6.71	0.70	2.67	2.05	1.8	1
	25/3/2024	Cloudy	12:54	8.5	4.3	21.93	21.89	8.43	8 44	31.40	31.67	89.00	90.30	6.83	6.88	2.47	2.56	4.0	3.6
	25/5/2024	Sibudy	12:55	8.5	4.3	21.84	21.05	8.44	0.44	31.93	31.07	91.60	30.30	6.93	0.00	2.65	2.50	3.2	0.0
	27/3/2024	Cloudy	12:25	8.8	4.4	22.49	22.52	8.36	8.37	31.19	31.24	89.40	90.00	6.87	6.89	2.38	2.30	2.2	2.3
	277072024	Sibudy	12:26	8.8	4.4	22.55	22.32	8.37	0.37	31.28	31.24	90.60	30.00	6.91	0.03	2.21	2.50	2.4	2.0
	29/3/2024	Cloudy	13:25	8.7	4.4	22.49	22.63	8.42	8.43	31.30	31.31	91.50	91.75	6.82	6.84	2.29	2.37	2.8	
			13:26	8.7	4.4	22.76	12.00	8.44		31.31	, , , , ,	92.00	,	6.85		2.44		2.7	

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	0	Turk	oidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt		%	m			TU	m	ıg/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	10:01	8.6	4.3	17.09	17.05	8.63	8.62	32.79	32.76	89.10	88.90	6.97	6.96	4.97	5.02	2.7	2.9
	170/2024	Gloddy	10:02	8.6	4.3	17.01	17.00	8.61	0.02	32.72	02.70	88.70	00.50	6.95	0.50	5.06	0.02	3.0	
	5/3/2024	Cloudy	9:05	8.2	4.1	20.41	20.36	8.62	8.62	32.81	32.78	90.90	91 15	6.90	6.93	3.62	3.75	1.6	
		,	9:06	8.2	4.1	20.31		8.61		32.75		91.40	•	6.96		3.88		1.7	
	7/3/2024	Cloudy	14:00	8.5	4.3	20.94	20.91	8.60	8.58	33.12	33.08	93.60	93.80	6.84	6.86	2.37	2.48	2.7	2.9
		,	14:01	8.5	4.3	20.87		8.55	0.00	33.03		94.00		6.87	0.00	2.58		3.1	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	ier						
	11/3/2024	Cloudy	8:22	8.3	4.2	19.25	19.18	8.49	8.51	32.24	32.19	89.30	89.60	6.93	6.94	8.01	8.12	5.8	5.6
	11/3/2024	Cloudy	8:23	8.3	4.2	19.11	13.10	8.53	0.51	32.13	32.15	89.90	08.00	6.95	0.54	8.22	0.12	5.3	0.0
	13/3/2024	Cloudy	9:11	8.5	4.3	19.96	19.97	8.45	8.46	32.80	32 79	90.70	89.95	6.85	6.81	3.74	3.83	6.3	6.5
	10/0/2024	Gloddy	9:12	8.5	4.3	19.98	10.07	8.46	0.40	32.78	02.70	89.20	00.00	6.77	0.01	3.91	0.00	6.6	
CE	15/3/2024	Cloudy	9:58	8.4	4.1	20.20	20.18	8.51	8.52	32.75	32.71	88.50	87.45	6.87	6.78	3.01	3.04	3.2	
		,	9:59	8.4	4.1	20.16		8.52		32.67		86.40		6.69		3.06		3.2	
	19/3/2024	Fine	9:32	8.5	4.3	20.89	20.93	8.54	8.54	32.30	32 39	88.90	88 70	6.71	6.70	2.64	2 69	1.3	
			9:33	8.5	4.3	20.97		8.54		32.47	0-100	88.50		6.68		2.73	-100	1.5	
	21/3/2024	Cloudy	15:00	8.6	4.3	20.68	20.68	8.62	8.63	32.60	32.60	89.50	90.25	6.86	6.88	1.97	2.01	2.8	
			15:01	8.6	4.3	20.68		8.63		32.59		91.00		6.90		2.05		3.2	
	23/3/2024	Cloudy	16:28	8.5	4.3	21.84	21.81	8.62	8.63	32.09	32.11	91.20	91.45	6.95	6.93	2.31	2.24	2.4	2.0
		,	16:29	8.5	4.3	21.78		8.64		32.13		91.70		6.90		2.17		1.6	
	25/3/2024	Cloudy	17:50	8.3	4.2	21.61	21.73	8.42	8.43	31.74	31.69	87.70	88.20	6.85	6.88	3.25	3.34	3.1	3.4
			17:51	8.3	4.2	21.84		8.43		31.64		88.70		6.90		3.43		3.7	The state of the s
	27/3/2024	Cloudy	8:23	8.4	4.2	23.09	23.53	8.48	8.48	31.49	31.47	88.20	88.65	6.73	6.77	2.79	2.85	1.6	
			8:24	8.4	4.2	23.97		8.47		31.44		89.10		6.80		2.90		1.8	
	29/3/2024	Cloudy	8:55	8.3	4.2	22.91	23.00	8.44	8.45	31.44	31.50	88.20	88.90	6.83	6.88	2.73	2.70	1.6	1.5
	Formation to the	·	8:56	8.3	4.2	23.09		8.45		31.56		89.60		6.92		2.67		1.4	

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sal	inity	DO Sa	turation	D	0	Turt	oidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	٩	С				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
	1/3/2024	Cloudy	14:37	8.7	4.4	16.30	16.30	8.64	8.63	32.37	32.32	83.80	84.10	6.58	6.60	4.53	4 40	3.8	
	17072024	Oloddy	14:38	8.7	4.4	16.29	10.00	8.62	0.00	32.27	02.02	84.40	04.10	6.62	0.00	4.27	4.40	3.4	
	5/3/2024	Cloudy	17:34	8.6	4.3	20.24	20.22	8.50	8.51	32.27	32 33	88.90	88.50	6.82	6.80	2.89	2 99	2.6	
		,	17:35	8.6	4.3	20.19		8.52		32.39	02.00	88.10		6.78		3.09		2.8	
	7/3/2024	Cloudy	11:01	8.4	4.2	20.89	20.93	8.65	8 65	32.46	32.52	88.20	88.25	6.64	6.64	3.29	2.88	3.1	
	1702024	,	11:02	8.4	4.2	20.97	20.00	8.64	0.00	32.57	02.02	88.30	00.20	6.64	0.04	2.47	2.00	3.4	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	ier						
	11/3/2024	Cloudy	12:07	8.6	4.3	19.23	19.27	8.60	8.61	32.45	32.51	88.90	89.80	6.82	6.88	6.62	6.79	4.9	5.0
	11/3/2024	Cloudy	12:08	8.6	4.3	19.30	10.27	8.61	0.01	32.56	32.31	90.70	05.00	6.93	0.00	6.96	0.78	5.0	0.0
	13/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	er						
CE	15/3/2024	Cloudy	15:02	8.7	4.4	20.06	20.07	8.34	8.35	33.13	33 16	85.20	85.05	6.44	6.43	3.47	3.58	3.7	3.9
CL	13/3/2024	Cioday	15:03	8.7	4.4	20.08	20.07	8.35	0.55	33.18	33.10	84.90	05.05	6.42	0.43	3.69	3.30	4.1	3.5
	19/3/2024	Fine	17:47	8.8	4.4	20.77	20.71	8.53	8.53	32.42	32 49	88.40	87 80	6.67	6.64	2.25	2 19	2.6	2.5
	18/3/2024	1 1110	17:48	8.8	4.4	20.64	20.71	8.52	0.55	32.56	32.45	87.20	07.00	6.60	0.04	2.12	2.10	2.3	2.0
	21/3/2024	Cloudy	11:51	8.4	4.2	20.67	20.62	8.65	8 65	32.51	32 50	88.40	89.20	6.66	6.65	3.27	3 19	3.9	
		,	11:52	8.4	4.2	20.57		8.65		32.49		90.00	00.20	6.63		3.10		4.2	
	23/3/2024	Cloudy	12:36	8.4	4.2	21.72	21.81	8.54	8.54	32.18	32 21	89.20	90.00	6.65	6.69	2.80	2.83	2.1	2.3
		,	12:37	8.4	4.2	21.90		8.54		32.24		90.80		6.73		2.85		2.4	_
	25/3/2024	Cloudy	12:56	8.5	4.3	21.76	21.80	8.43	8.43	31.96	31.97	91.80	91.10	6.88	6.83	2.31	2.28	3.6	
			12:57	8.5	4.3	21.84		8.42		31.98		90.40		6.77		2.24		3.0	
	27/3/2024	Cloudy	12:27	8.8	4.4	22.76	22.64	8.37	8.37	31.67	31.70	90.80	90.10	6.95	6.92	2.09	2.11	1.9	
		,	12:28	8.8	4.4	22.52		8.36		31.73	,,,,,	89.40	,	6.89		2.12		1.8	
	29/3/2024	Cloudy	13:27	8.7 8.7	4.4	22.78	22.69	8.42 8.40	8.41	31.29 31.19	31.24	91.80 92.30	92.05	6.84	6.86	2.60	2.54	2.4	

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.

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	н	Sal	linity	DO Sa	aturation		00	Turt	oidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			p	pt		%	m	g/L	N'	TU	m	ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	10:03	8.6	4.3	17.05	17.12	8.60	8 65	32.81	32.85	84.80	84.60	6.77	6.76	5.00	4.93	3.3	
		,	10:04	8.6	4.3	17.19		8.70		32.88		84.40		6.75		4.85		3.6	
	5/3/2024	Cloudy	9:07	8.2	4.1	20.15	20.20	8.60	8.62	32.32	32 37	89.60	89 45	6.85	6.85	3.25	3.21	2.6	
		,	9:08	8.2	4.1	20.25		8.63	0.02	32.41		89.30		6.84		3.17		2.3	
	7/3/2024	Cloudy	14:02	8.5	4.3	20.83	20.90	8.54	8.56	33.22	33.26	87.60	88.35	6.72	6.75	2.53	2.65	2.6	
		,	14:03	8.5	4.3	20.96		8.57		33.29		89.10		6.77		2.76		2.3	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	ner						
	11/3/2024	Cloudy	8:24	8.3	4.2	19.08	19.09	8.50	8.51	32.45	32 41	85.50	85.45	6.64	6.64	6.41	6.39	5.9	5.6
	11/3/2024	Cioudy	8:25	8.3	4.2	19.10	15.05	8.52	0.51	32.37	32.41	85.40	00.40	6.64	0.04	6.37	0.55	5.2	3.0
	13/3/2024	Cloudy	9:13	8.5	4.3	19.97	19.98	8.47	8.47	32.92	32 97	88.20	89 20	6.82	6.85	3.36	3.37	5.4	
	101012024	Gloddy	9:14	8.5	4.3	19.99	10.00	8.46	0.47	33.02	02.07	90.20	00.20	6.88	0.00	3.38	0.01	5.8	
CE	15/3/2024	Cloudy	10:00	8.4	4.2	20.19	20 16	8.50	8.51	33.12	33 10	89.50	89.35	6.91	6.90	3.14	3.12	4.0	
		,	10:01	8.4	4.2	20.13		8.51		33.08		89.20		6.88		3.10	*****	3.7	
	19/3/2024	Fine	9:34	8.5	4.3	20.76	20.80	8.53	8.54	32.18	32 24	84.20	83 10	6.55	6.51	2.30	2 37	1.7	
			9:35	8.5	4.3	20.83		8.54		32.29		82.00		6.47		2.44		1.7	
	21/3/2024	Cloudy	15:02	8.6	4.3	20.65	20.66	8.63	8.63	32.52	32.45	87.20	88.15	6.59	6.67	2.16	2.23	3.6	
			15:03	8.6	4.3	20.67		8.63		32.37		89.10		6.75		2.29		4.0	
	23/3/2024	Cloudy	16:30	8.5	4.3	21.74	21.82	8.63	8.63	32.44	32.41	90.40	90.50	6.85	6.86	2.51	2.49	1.8	
			16:31	8.5	4.3	21.89		8.63		32.37		90.60		6.86		2.47		2.2	
	25/3/2024	Cloudy	17:52	8.3	4.2	21.60	21.60	8.43	8.43	31.95	31.90	89.60	89.25	6.93	6.91	3.71	3.64	3.2	3.7
			17:53	8.3	4.2	21.59		8.42		31.84		88.90		6.89		3.56		4.1	
	27/3/2024	Cloudy	8:25	8.4	4.2	22.83	22.86	8.47	8.47	31.24	31.30	88.90	88.45	6.77	6.74	2.60	2.57	2.2	
			8:26	8.4	4.2	22.89		8.47		31.36		88.00		6.70		2.55		2.4	_
	29/3/2024	Cloudy	8:57	8.3	4.2	22.88	22.87	8.44 8.43	8.44	31.29	31.31	92.20 88.20	90.20	6.95 6.83	6.89	2.85 2.65	2.75	1.6	
l	l		8:58	8.3	4.2	22.85		8.43		31.33	1	88.20		6.83	1	2.65		1.7	1

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sal	inity		turation	D	00		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С				pt		%	m			TU		ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	14:39	8.7	7.7	16.12	16.10	8.60	8.62	32.56	32.51	82.80	82.75	6.51	6.51	4.40	4.50	4.0	4.2
		,	14:40	8.7	7.7	16.07		8.63	0.02	32.46		82.70		6.51		4.59		4.3	
	5/3/2024	Cloudy	17:36	8.6	7.6	20.26	20.32	8.51	8.51	32.20	32.20	86.50	86.75	6.55	6.56	2.65	2.72	3.1	3.3
			17:37	8.6	7.6	20.37		8.51		32.19		87.00		6.57		2.79		3.4	
	7/3/2024	Cloudy	11:03	8.4	7.4	20.84	20.85	8.67	8.66	32.86	32.81	84.40	83.70	6.57	6.54	4.29	4.39	3.0	
			11:04	8.4	7.4	20.85		8.65		32.75		83.00		6.51		4.48		2.6	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	ier						
	11/3/2024	Cloudy	12:09	8.6	7.6	19.20	19.20	8.61	8.62	32.92	32.88	87.70	87.45	6.85	6.85	6.92	6.82	4.3	4.7
	11/3/2024	Cioudy	12:10	8.6	7.6	19.19	15.20	8.63	0.02	32.84	32.00	87.20	07.43	6.84	0.00	6.72	0.02	5.0	4.7
	13/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	ier						
CE	15/3/2024	Cloudy	15:04	8.7	7.7	20.05	20.03	8.33	8.33	33.81	33.50	83.90	83.55	6.36	6.34	4.09	4 04	3.0	3.2
CE	15/3/2024	Cioudy	15:05	8.7	7.7	20.01	20.03	8.33	0.33	33.19	33.50	83.20	03.33	6.32	0.34	3.98	4.04	3.4	3.2
	19/3/2024	Fine	17:49	8.8	7.8	20.48	20.57	8.51	8.51	32.68	32.58	89.40	90.05	6.71	6.74	1.69	1.80	2.8	2.9
	18/3/2024	1 1110	17:50	8.8	7.8	20.65	20.37	8.50	0.51	32.47	32.30	90.70	90.03	6.77	0.74	1.91	1.00	3.0	20
	21/3/2024	Cloudy	11:53	8.4	7.4	20.74	20.69	8.66	8.67	32.70	32 69	88.20	88.65	6.65	6.68	3.29	3.35	3.6	3.4
	Z I/O/ZOZ4	Oloudy	11:54	8.4	7.4	20.64	20.00	8.67	0.07	32.67	02.00	89.10	00.00	6.70	0.00	3.40	0.00	3.2	0.4
	23/3/2024	Cloudy	12:38	8.4	7.4	21.73	21 71	8.52	8.53	31.94	31.88	88.10	88.40	6.49	6.50	3.04	2 99	2.3	
	ZUI UI ZUZ	Oloudy	12:39	8.4	7.4	21.68	21.71	8.53	0.00	31.81	01.00	88.70	00.40	6.51	0.00	2.94	2.00	1.4	
	25/3/2024	Cloudy	12:58	8.5	7.5	21.65	21.68	8.42	8.43	31.73	31.79	90.80	91.65	6.82	6.89	1.88	2.04	3.2	
		,	12:59	8.5	7.5	21.70		8.43		31.84	,	92.50	,	6.96		2.19		3.2	
	27/3/2024	Cloudy	12:29	8.8	7.8	22.87	22.69	8.37	8.38	31.94	31.90	88.30	88.20	6.81	6.81	1.91	1.84	1.4	1.5
		,	12:30	8.8	7.8	22.50		8.38		31.86	,	88.10	,,,,,,,	6.80		1.76		1.5	
	29/3/2024	Cloudy	13:29	8.7	7.7	22.72	22.81	8.43	8.43	31.40	31.39	87.70	86.90	6.70	6.65	2.68	2.78	1.8	
	1	I	13:30	8.7	7.7	22.90		8.43		31.37		86.10		6.60		2.87		1.9	

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 CE (Bottom) - Flood Tide

	Sampling		Sampling	Water	Sampling	Tempe		F	Н	Sali	nity	DO Sa	turation	Di	0	Turk	oidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٥				pp			%	mg			TU	m	ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	10:05	8.6	7.6	17.06	17.08	8.62	8.66	32.83	32.89	81.90	82.10	6.33	6.37	4.27	4.33	4.0	4.
		,	10:06	8.6	7.6	17.10		8.69		32.94		82.30		6.40		4.38		4.0	
	5/3/2024	Cloudy	9:09	8.2	4.1	20.10	20 19	8.61	8.61	32.40	32.45	90.10	90.05	6.87	6.87	2.59	2.68	3.2	
		,	9:10	8.2	4.1	20.27		8.61		32.50		90.00		6.87		2.77		3.6	_
	7/3/2024	Cloudy	14:04	8.5	7.5	20.99	20.92	8.56	8.56	33.08	33.03	89.60	90.10	6.78	6.79	2.96	2.85	1.8	1.
			14:05	8.5	7.5	20.85		8.56		32.97		90.60		6.80		2.74		1.7	
	9/3/2024	Strong Mansoon							WQM	was cancelle	d due to ad	verse weath	er						
	11/3/2024	Cloudy	8:26	8.3	7.3	19.05	19.06	8.51	8.52	32.39	32.43	82.20	81.50	6.48	6.45	6.24	6.27	4.8	4.
	11/3/2024	Cioudy	8:27	8.3	7.3	19.07	15.00	8.52	0.02	32.46	32.43	80.80	01.50	6.41	0.43	6.30	0.27	5.0	-
	13/3/2024	Cloudy	9:15	8.5	7.5	20.01	20.00	8.46	8.46	33.16	33.09	83.90	83.50	6.47	6 44	3.56	3 63	4.8	5
	13/3/2024	Cioudy	9:16	8.5	7.5	19.98	20.00	8.45	0.40	33.01	33.05	83.10	03.30	6.40	0.44	3.70	3.03	5.1	ŭ
CE	15/3/2024	Cloudy	10:02	8.4	7.4	20.08	20.07	8.50	8.50	33.05	33.03	84.30	84 55	6.47	6.49	3.97	4 02	4.2	4
		,	10:03	8.4	7.4	20.05		8.50		33.01		84.80		6.50	*****	4.06		4.4	
	19/3/2024	Fine	9:36	8.5	7.5	20.68	20.74	8.54	8.55	32.20	32 27	89.10	88 65	6.88	6.85	2.01	2.09	2.6	
			9:37	8.5	7.5	20.80		8.55	0.00	32.34		88.20		6.81		2.17		2.8	
	21/3/2024	Cloudy	15:04	8.6	7.6	20.62	20.63	8.62	8.63	32.62	32.73	87.70	86.90	6.65	6.62	2.59	2.48	4.5	4
		,	15:05	8.6	7.6	20.64		8.63	0.00	32.84		86.10		6.59		2.36		4.1	
	23/3/2024	Cloudy	16:32	8.5	7.5	22.01	21.90	8.64	8.64	32.30	32.27	89.10	88.80	6.78	6.76	2.98	3.03	1.6	
			16:33	8.5	7.5	21.79		8.64		32.24		88.50		6.73		3.07		2.2	
	25/3/2024	Cloudy	17:54	8.3	7.3	21.80	21.73	8.41	8.42	31.90	31.87	89.00	90.25	6.90	6.93	3.76	3.88	2.6	
			17:55	8.3	7.3	21.66		8.42		31.84		91.50	- 1	6.95		3.99		3.6	
	27/3/2024	Cloudy	8:27	8.4	7.4	22.76	22.66	8.47	8.47	31.51	31.63	88.90	88.75	6.76	6.76	2.34	2.46	3.0	
			8:28	8.4	7.4	22.56		8.46		31.74		88.60		6.75		2.57		2.7	
	29/3/2024	Cloudy	8:59	8.3	7.3	22.74	22.77	8.42	8.41	31.41	31.36	87.70	87.40	6.79	6.77	3.05 2.95	3.00	2.2	2
	Facilities to the		9:00	8.3	7.3	22.80		8.40		31.30		87.10		6.74		2.95		2.1	

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sal	inity		aturation		0		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С				pt		%	m			TU		ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG		AVG	Value	AVG
	1/3/2024	Cloudy	16:03	8.8	1.0	16.88	16.91	8.63	8.69	32.81	32.88	86.90	85.60	6.79	6.73	3.67	3.77	2.6	
		,	16:04	8.8	1.0	16.94		8.74		32.94		84.30		6.67		3.87		2.3	
	5/3/2024	Cloudy	18:58	8.7	1.0	20.64	20.69	8.51	8.51	32.38	32 41	84.90	87.70	6.51	6.72	2.37	2.41	1.7	
		,	18:59	8.7	1.0	20.74		8.50		32.44		90.50		6.93		2.45		1.9	
	7/3/2024	Cloudy	9:30	8.3	1.0	21.07	21.09	8.67	8.62	32.89	32.91	90.90	90.05	6.86	6.84	3.04	3.07	3.6	
		,	9:31	8.3	1.0	21.10		8.56		32.92		89.20		6.81		3.10		3.3	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	ner						
	11/3/2024	Cloudy	13:36	8.5	1.0	19.30	19 27	8.56	8.58	32.59	32.61	88.40	88.05	6.85	6.82	4.98	5.02	3.4	3.7
	11/3/2024	Cioudy	13:37	8.5	1.0	19.23	19.27	8.60	0.30	32.62	32.01	87.70	00.00	6.79	0.02	5.05	5.02	3.9	3.7
	13/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	ner						
CF	15/3/2024	Cloudy	16:30	8.7	1.0	20.21	20.20	8.34	8.35	32.90	32.87	90.70	90.20	6.79	6.76	4.09	4 11	3.1	3.3
OI .	15/3/2024	Cioudy	16:31	8.7	1.0	20.19	20.20	8.35	0.33	32.84	32.01	89.70	90.20	6.73	6.76	4.12	4.11	3.4	3.3
	19/3/2024	Fine	19:20	8.9	1.0	20.79	20.74	8.54	8.55	32.28	32.24	84.90	84.50	6.66	6.64	2.19	2.24	3.3	3.2
	19/3/2024	FINE	19:21	8.9	1.0	20.68	20.74	8.55	0.33	32.19	32.24	84.10	04.30	6.61	0.04	2.29	2.24	3.1	3.2
	21/3/2024	Cloudy	10:20	8.4	1.0	21.36	21.42	8.69	8.69	31.34	31.23	91.20	91.85	6.81	6.85	3.25	3.42	2.8	2.9
	21/3/2024	Cioudy	10:21	8.4	1.0	21.47	21.42	8.69	0.09	31.11	31.23	92.50	91.00	6.88	6.65	3.58	3.42	3.0	2.0
	23/3/2024	Cloudy	11:05	8.4	1.0	22.77	22 60	8.58	8.59	31.59	31.62	92.40	91.45	6.89	6.85	2.40	2.30	1.3	1.2
	23/3/2024	Cioudy	11:06	8.4	1.0	22.42	22.00	8.60	0.55	31.64	31.02	90.50	31.40	6.81	0.03	2.19	2.30	<1.0	
	25/3/2024	Cloudy	11:30	8.6	1.0	21.94	21.90	8.38	8.39	31.48	31.50	94.50	93.30	6.97	6.89	2.96	3.00	1.2	1.6
	25/3/2024	Cioudy	11:31	8.6	1.0	21.85	21.90	8.39	0.39	31.51	31.50	92.10	93.30	6.81	6.09	3.04	3.00	1.9	1.0
	27/3/2024	Cloudy	13:56	8.7	1.0	22.28	22.33	8.38	8.38	30.87	30.90	91.40	91.05	6.90	6.88	1.65	1.71	3.0	2.8
	2173r2024	Cidudy	13:57	8.7	1.0	22.37	22.33	8.38	0.30	30.92	30.90	90.70	31.05	6.85	0.00	1.77	1.71	2.6	2.0
	29/3/2024	Cloudy	15:02	8.8	1.0	22.56	22 48	8.24	8.25	31.76	31.63	91.50	89.85	6.97	6.89	1.68	1.73	1.7	1.8
	25/5/2024	Sidudy	15:03	8.8	1.0	22.40	22.40	8.25	0.23	31.49	31.03	88.20	38.03	6.80	0.03	1.77	1.73	1.9	1.0

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 CF (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	P	H	Sal	inity	DO Sa	turation	D	00	Turl	oidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt	•	%	m		N'	TU	m	ıg/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	8:33	8.4	1.0	18.15	18 12	8.71	8.66	32.76	32.82	88.00	87 85	6.89	6.89	3.47	3.55	3.3	
	170/2024	Oloudy	8:34	8.4	1.0	18.09	10.12	8.61	0.00	32.88	02.02	87.70	01.00	6.88	0.00	3.63	0.00	3.5	
	5/3/2024	Cloudy	7:36	8.2	1.0	20.63	20.59	8.64	8 65	32.19	32.21	90.80	92.00	6.79	6.89	3.56	3.67	3.7	
		,	7:37	8.2	1.0	20.55		8.66		32.22		93.20		6.98		3.77		4.0	
	7/3/2024	Cloudy	15:31	8.5	1.0	20.87	20.90	8.36	8.42	32.74	32.71	89.40	89.00	6.92	6.91	3.30	3.38	3.7	3.8
		,	15:32	8.5	1.0	20.93		8.48		32.68		88.60		6.89		3.46	0.00	3.9	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	ier						
	11/3/2024	Cloudy	6:55	8.2	1.0	19.22	19.21	8.39	8.47	32.65	32.68	88.30	87.30	6.88	6.83	5.01	5.09	3.8	3.7
	11/3/2024	Cioudy	6:56	8.2	1.0	19.19	19.21	8.54	0.47	32.70	32.00	86.30	07.30	6.78	0.03	5.17	5.05	3.5	0.7
	13/3/2024	Cloudy	7:40	8.4	1.0	19.85	19.88	8.42	8.49	32.62	32.66	92.60	92.35	6.98	6.97	3.27	3.32	3.4	3.3
	10/0/2024	Oloudy	7:41	8.4	1.0	19.90	10.00	8.56	0.40	32.70	02.00	92.10	02.00	6.95	0.01	3.36	0.02	3.1	
CF	15/3/2024	Cloudy	8:30	8.2	1.0	20.30	20.30	8.51	8.51	32.81	32.86	89.30	90.20	6.75	6.84	3.56	3.50	5.2	
		,	8:31	8.2	1.0	20.29		8.50		32.90	02.00	91.10		6.92		3.44		4.8	
	19/3/2024	Fine	8:03	8.4	1.0	20.99	21 02	8.58	8.58	31.15	31 20	92.60	91 75	6.90	6.86	3.74	3.83	4.0	
			8:04	8.4	1.0	21.04		8.57		31.24		90.90		6.82		3.91		4.3	
	21/3/2024	Cloudy	16:32	8.6	1.0	21.31	21.26	8.74	8.74	31.87	31.91	91.50	91.00	6.87	6.84	2.09	2.14	4.4	4.6
			16:33	8.6	1.0	21.20		8.74		31.95		90.50		6.81		2.18		4.8	
	23/3/2024	Cloudy	17:59	8.6	1.0	22.04	22.02	8.67	8.67	32.12	32.06	90.90	91.85	6.80	6.85	1.40	1.48	1.8	
			18:00	8.6	1.0	21.99		8.67		31.99		92.80		6.89		1.56		1.4	
	25/3/2024	Cloudy	19:20	8.3	1.0	21.51	21.62	8.32	8.32	31.68	31.71	88.20	88.45	6.89	6.90	2.65	2.74	1.9	2.0
			19:21	8.3	1.0	21.73		8.32		31.74		88.70		6.90		2.83		2.1	
	27/3/2024	Cloudy	6:51	8.2	1.0	23.45	23.41	8.48	8.48	30.89	30.84	82.60	82.80	6.50	6.52	1.98	2.04	3.1	3.0
			6:52	8.2	1.0	23.36		8.48		30.78		83.00		6.53		2.09		2.9	
	29/3/2024	Cloudy	7:23	8.2	1.0	23.01	23.09	8.45	8.46	31.59	31.62	87.70	88.75	6.94	6.96	2.05	2.13	1.3	1.2
	Facilities to the		7:24	8.2	1.0	23.16		8.46		31.64		89.80		6.97		2.21		1.1	

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sal	linity		turation	D	00		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С		-		pt		%	m			TU		ng/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	16:05	8.8	4.4	17.16	17.16	8.60	8.61	32.62	32.56	82.00	82.80	6.59	6.61	3.95	3.87	1.9	
		,	16:06	8.8	4.4	17.15		8.62		32.50		83.60	02.00	6.63		3.79		1.7	
	5/3/2024	Cloudy	19:00	8.7	4.4	20.49	20.44	8.52	8.52	32.30	32.37	87.80	87.55	6.56	6.69	2.69	2.61	2.4	2.3
			19:01	8.7	4.4	20.38		8.52		32.44		87.30		6.81		2.52		2.2	
	7/3/2024	Cloudy	9:32	8.3	4.2	21.01	21.00	8.67	8.68	32.80	32.82	91.50	89.25	6.91	6.77	2.37	2.47	4.3	
			9:33	8.3	4.2	20.99		8.68		32.83		87.00		6.63		2.57		4.0	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	er						
	11/3/2024	Cloudy	13:38	8.5	4.3	19.34	19.38	8.58	8.54	32.33	32.31	82.40	81.50	6.54	6.48	5.19	5.14	4.7	5.4
	11/3/2024	Cioudy	13:39	8.5	4.3	19.42	19.30	8.49	0.54	32.29	32.31	80.60	01.30	6.42	0.40	5.09	3.14	6.0	0.4
	13/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	er						
CF	15/3/2024	Cloudy	16:32	8.7	4.4	20.15	20 17	8.34	8.34	32.56	32.52	87.20	87.60	6.64	6.68	4.04	4.01	4.1	3.9
CF	15/3/2024	Cioudy	16:33	8.7	4.4	20.18	20.17	8.34	0.34	32.47	32.32	88.00	07.00	6.72	0.00	3.98	4.01	3.7	3.9
	19/3/2024	Fine	19:22	8.9	4.5	20.47	20.51	8.54	8.54	32.15	32.17	88.40	88.05	6.83	6.81	2.52	2 45	2.7	2.6
	13/3/2024	1 1110	19:23	8.9	4.5	20.54	20.51	8.54	0.54	32.18	32.17	87.70	00.00	6.79	0.01	2.37	2.40	2.5	20
	21/3/2024	Cloudy	10:22	8.4	4.2	21.27	21.28	8.70	8 70	32.06	32 04	90.20	90.70	6.78	6.84	3.40	3.30	3.2	3.4
	Z II GIZOZ4	Oloudy	10:23	8.4	4.2	21.29	21.20	8.69	0.70	32.01	02.04	91.20	50.70	6.89	0.04	3.19	0.00	3.5	0.4
	23/3/2024	Cloudy	11:07	8.4	4.2	22.17	22 10	8.58	8.58	32.06	32 13	91.30	90.90	6.84	6.81	2.37	2 44	1.2	
	ZU U ZUZ-	Oloudy	11:08	8.4	4.2	22.02	22.10	8.58	0.00	32.19	02.10	90.50	50.50	6.78	0.01	2.50	2.44	1.4	
	25/3/2024	Cloudy	11:32	8.6	4.3	21.77	21.67	8.40	8.40	31.44	31.40	91.00	91.15	6.84	6.85	2.85	2.90	1.8	
		,	11:33	8.6	4.3	21.57		8.40	0.110	31.36		91.30	• · · · · ·	6.85	0.00	2.95		1.2	
	27/3/2024	Cloudy	13:58	8.7	4.4	22.59	22.67	8.38	8.39	30.90	30.83	89.40	88.75	6.81	6.79	1.94	1.98	2.4	2.3
			13:59	8.7	4.4	22.74		8.39	0.00	30.76	70.00	88.10	,	6.77		2.01		2.2	_
	29/3/2024	Cloudy	15:04	8.8	4.4	22.59	22.60	8.24	8.24	31.19	31.24	88.60	87.75	6.82	6.76	1.96	1.85	1.5	
			15:05	8.8	4.4	22.61		8.24		31.28		86.90		6.70		1.74		1.7	

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

	Sampling		Sampling	Water	Sampling	Temp	erature	Р	Н	Sal	inity	DO Sa	turation	D	0	Turt	oidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р			%	mg		N'		m	ng/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG		AVG	Value	AVG
	1/3/2024	Cloudy	8:35	8.4	4.2	18.16	18 18	8.60	8.62	32.98	32 99	87.40	86.75	6.85	6.81	3.79	3.66	2.7	2.9
	170/2024	Oloudy	8:36	8.4	4.2	18.20	10.10	8.64	0.02	32.99	02.00	86.10	00.70	6.76	0.01	3.52	0.00	3.0	2.0
	5/3/2024	Cloudy	7:38	8.2	4.1	20.35	20.36	8.65	8.61	32.39	32 41	89.40	90.50	6.72	6.80	3.99	3.83	3.4	3.3
	0.02024	Oloudy	7:39	8.2	4.1	20.37	20.00	8.57	0.01	32.43	02.41	91.60	50.50	6.88	0.00	3.67	0.00	3.1	
	7/3/2024	Cloudy	15:33	8.5	4.3	20.91	20.89	8.49	8.54	32.69	32.72	84.10	83.05	6.50	6.46	3.59	3.51	3.4	3.3
		,	15:34	8.5	4.3	20.87		8.59		32.74		82.00		6.42		3.42		3.1	
	9/3/2024	Strong Mansoon							WQM	was cancelle	ed due to ad	verse weath	er						
	11/3/2024	Cloudy	6:57	8.2	4.1	19.12	19 11	8.50	8.51	32.50	32.54	83.20	82.60	6.59	6.54	5.82	5.89	5.4	5.3
	11/3/2024	Cioudy	6:58	8.2	4.1	19.09	10.11	8.52	0.51	32.58	32.04	82.00	02.00	6.48	0.54	5.95	3.05	5.1	3.3
	13/3/2024	Cloudy	7:44	8.4	4.2	19.67	19.66	8.40	8.41	32.98	32.95	90.10	89.25	6.90	6.81	3.35	3.27	3.6	3.8
	13/3/2024	Cioudy	7:45	8.4	4.2	19.64	13.00	8.41	0.41	32.92	32.63	88.40	05.23	6.71	0.01	3.18	3.27	3.9	0.0
CF	15/3/2024	Cloudy	8:32	8.2	4.1	20.21	20.21	8.49	8.50	32.74	32 78	89.00	90.00	6.71	6.80	3.37	3.32	4.4	4.3
		,	8:33	8.2	4.1	20.20		8.50		32.82		91.00		6.88		3.26		4.1	
	19/3/2024	Fine	8:05	8.4	4.2	20.87	20.85	8.56	8.57	31.60	31.59	88.30	89.75	6.64	6.77	3.58	3.50	3.5	
			8:06	8.4	4.2	20.82		8.57		31.57		91.20		6.90	•	3.41	0.00	3.2	
	21/3/2024	Cloudy	16:34	8.6	4.3	21.19	21.20	8.73	8.74	32.21	32.31	87.60	87.30	6.75	6.74	2.35	2.26	4.4	4.5
			16:35	8.6	4.3	21.20		8.74		32.41		87.00		6.72		2.17		4.6	
	23/3/2024	Cloudy	18:01	8.6	4.3	21.86	21.81	8.66	8.67	32.06	32.12	89.70	90.80	6.78	6.81	1.50	1.60	1.9	
			18:02	8.6	4.3	21.76		8.67		32.17		91.90		6.83		1.69		2.2	
	25/3/2024	Cloudy	19:22	8.3	4.2	21.60	21.57	8.33	8.33	31.90	31.89	85.90	85.35	6.83	6.80	2.79	2.75	1.3	
			19:23	8.3	4.2	21.53		8.32		31.87		84.80		6.76		2.70		1.6	
	27/3/2024	Cloudy	6:53	8.2	4.1	23.18	23.10	8.49	8.49	31.10	31.05	84.40	84.70	6.67	6.69	2.16	2.14	2.8	
			6:54	8.2	4.1	23.02		8.48		31.00		85.00		6.70		2.11		2.5	
	29/3/2024	Cloudy	7:25 7:26	8.2 8.2	4.1 4.1	22.87 22.95	22.91	8.44 8.44	8.44	31.47 31.30	31.39	87.30 86.60	86.95	6.83 6.77	6.80	2.27	2.32	<1.0	1.0

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sal	inity		turation	D	00		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С				pt		%	m			TU		ıg/L
	Duto		1 11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	16:07	8.8	7.8	17.32	17.31	8.57	8.59	32.09	32.12	80.80	79.70	6.38	6.32	3.30	3.25	1.2	
	170/2024	Oloudy	16:08	8.8	7.8	17.29	17.01	8.60	0.00	32.14	02.12	78.60	70.70	6.25	0.02	3.19	0.20	1.3	
	5/3/2024	Cloudy	19:02	8.7	7.7	20.50	20.47	8.53	8.53	32.29	32 29	88.70	90.40	6.90	6.88	2.60	2.66	2.8	
		,	19:03	8.7	7.7	20.44		8.52		32.28		92.10		6.86	0.00	2.72		2.6	
	7/3/2024	Cloudy	9:34	8.3	7.3	20.96	20.95	8.68	8.68	33.12	33 16	89.40	90.20	6.87	6.90	2.61	2.55	4.7	4.9
	170/2024	Oloudy	9:35	8.3	7.3	20.94	20.00	8.68	0.00	33.19	00.10	91.00	00.20	6.92	0.50	2.49	2.00	5.1	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	er						
	11/3/2024	Cloudy	13:40	8.5	7.5	19.27	19.29	8.37	8.47	32.09	32.13	85.80	86.00	6.66	6.68	5.21	5.29	5.5	6.1
	11/3/2024	Cioudy	13:41	8.5	7.5	19.31	19.29	8.56	0.47	32.16	32.13	86.20	00.00	6.69	0.00	5.36	5.29	6.6	0.1
	13/3/2024	Strong Mansoon							WQM	was cancell	ed due to ad	verse weath	er						
CF	15/3/2024	Cloudy	16:34	8.7	7.7	20.08	20.05	8.30	8.31	32.32	32.36	88.10	88.70	6.74	6.78	3.65	3.79	4.8	4.7
Cr	15/3/2024	Cioudy	16:35	8.7	7.7	20.01	20.05	8.31	0.31	32.40	32.30	89.30	00.70	6.82	0.70	3.92	3.19	4.6	4.7
	19/3/2024	Fine	19:24	8.9	7.9	20.29	20.33	8.54	8.55	32.03	32.02	92.10	91.95	6.91	6.90	2.84	2.87	2.3	2.2
	13/3/2024	1 1110	19:25	8.9	7.9	20.37	20.33	8.55	0.55	32.01	32.02	91.80	31.33	6.88	0.50	2.90	2.07	2.0	
	21/3/2024	Cloudy	10:24	8.4	7.4	21.12	21.16	8.71	8.71	32.00	32.05	85.60	86.00	6.44	6.48	2.89	2.99	4.0	3.9
	Z II GIZOZ4	Oloudy	10:25	8.4	7.4	21.19	21.10	8.71	0.71	32.09	02.00	86.40	00.00	6.51	0.40	3.08	2.00	3.7	0.0
	23/3/2024	Cloudy	11:09	8.4	7.4	21.89	21 94	8.59	8.59	31.87	31.91	90.90	90.95	6.78	6.80	4.30	4.07	1.4	
	ZU U ZUZ-	Oloudy	11:10	8.4	7.4	21.98	21.04	8.58	0.00	31.94	01.01	91.00	00.00	6.81	0.00	3.84	4.07	2.2	
	25/3/2024	Cloudy	11:34	8.6	7.6	21.68	21.59	8.40	8.41	31.19	31.21	93.80	93.55	6.90	6.89	2.66	2.55	1.8	1.6
		,	11:35	8.6	7.6	21.49		8.41		31.22		93.30		6.88	0.00	2.43		1.4	
	27/3/2024	Cloudy	14:00	8.7	7.7	22.69	22.78	8.39	8.39	31.35	31.30	88.50	89.25	6.78	6.81	2.25	2.17	1.6	
		,	14:01	8.7	7.7	22.87		8.39	0.00	31.24	0	90.00		6.83		2.08		1.8	
	29/3/2024	Cloudy	15:06	8.8	7.8	22.47	22.60	8.25	8.25	31.25	31.35	89.60	90.00	6.85	6.86	2.25	2.31	1.2	
			15:07	8.8	7.8	22.72		8.25	1	31.45	,	90.40		6.87		2.36		1.3	

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 3.145 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 | 30.441 |

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Lam Environmental Services Limited

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

	Sampling		Sampling	Water	Sampling	Temp	erature	ı	Н	Sal	linity	DO Sa	turation		00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	'C			р	pt		%		g/L		TU	m	g/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2024	Cloudy	8:37	8.4	7.4	18.30	18.25	8.58	8.59	32.58	32.54	84.80	85.00	6.55	6.57	4.21	4.19	2.5	2.6
	170/2024	Oloudy	8:38	8.4	7.4	18.20	10.20	8.60	0.00	32.49	02.04	85.20	00.00	6.59	0.01	4.17	4.10	2.7	
	5/3/2024	Cloudy	7:40	8.2	7.2	20.27	20.30	8.59	8.61	32.74	32.80	87.70	87.40	6.70	6.68	3.92	3.98	2.5	2.7
		,	7:41	8.2	7.2	20.32		8.63		32.85		87.10		6.66		4.03		2.8	
	7/3/2024	Cloudy	15:35	8.5	7.5	20.92	20.91	8.60	8.54	33.14	33 10	91.20	90.60	6.91	6.89	2.67	2 79	2.6	2.5
			15:36	8.5	7.5	20.90		8.47		33.05		90.00		6.87		2.90		2.3	
	9/3/2024	Strong Mansoon							WQM	was cancell	ed due to ac	lverse weath	ier						
	11/3/2024	Cloudy	6:59	8.2	7.2	19.10	19.09	8.50	8 49	32.86	32.92	82.00	81.25	6.46	6.43	6.11	6.06	5.0	5.3
	11/3/2024	Cioddy	7:00	8.2	7.2	19.08	15.05	8.48	0.45	32.97	32.52	80.50	01.23	6.40	0.43	6.01	0.00	5.6	0.0
	13/3/2024	Cloudy	7:47	8.4	7.4	19.56	19.53	8.40	8.39	33.09	33.05	91.10	91.20	6.85	6.87	3.21	3 15	4.1	4.2
	10/0/2024	Oloudy	7:48	8.4	7.4	19.50	10.00	8.38	0.00	33.01	00.00	91.30	01.20	6.88	0.01	3.09	0.10	4.3	
CF	15/3/2024	Cloudy	8:34	8.2	7.2	20.17	20 18	8.50	8.50	32.55	32 61	84.30	84.05	6.50	6.48	3.09	3.09	3.8	3.7
		,	8:35	8.2	7.2	20.18		8.50		32.67		83.80		6.45		3.08		3.5	
	19/3/2024	Fine	8:07	8.4	7.4	20.77	20.71	8.57	8.57	32.39	32.33	90.40	90.75	6.86	6.87	3.36	3.43	2.3	2.4
			8:08	8.4	7.4	20.64		8.57		32.27		91.10		6.87		3.50		2.5	
	21/3/2024	Cloudy	16:36	8.6	7.6	21.23	21.20	8.73	8.73	31.86	31.89	89.10	89.65	6.76	6.78	2.37	2.48	4.0	4.1
			16:37	8.6	7.6	21.16		8.72		31.91		90.20		6.80		2.59		4.2	
	23/3/2024	Cloudy	18:03	8.6	7.6	21.80	21.75	8.67	7.68	32.23	32.35	88.40	88.15	6.50	6.48	2.82	2.75	2.1	1.8
			18:04	8.6	7.6	21.69		6.68		32.46		87.90		6.46		2.67		1.4	
	25/3/2024	Cloudy	19:24	8.3	7.3	21.67	21.62	8.31	8.31	32.04	31.98	89.00	88.35	6.92	6.89	2.28	2.35	1.6	1.5
			19:25	8.3	7.3	21.56		8.31		31.92		87.70		6.85		2.41		1.4	
	27/3/2024	Cloudy	6:55	8.2	7.2	22.91	22.88	8.49	8.49	30.83	30.89	80.70	81.75	6.25	6.31	2.56	2.60	2.2	2.3
			6:56	8.2	7.2	22.84		8.49		30.95		82.80		6.36		2.63			-
	29/3/2024	Cloudy	7:27	8.2	7.2	22.90	22.85	8.44	8.44	31.41	31.53	87.70	87.30	6.84	6.81	2.69	2.83	<1.0	1.0
	l	1	7:28	8.2	7.2	22.79	1	8.44	1	31.65	1	86.90		6.78	1	2.96	1	<1.0	1

Appendix 4.5

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table for 2024

	Ac	ctual Quantities	of Inert C&D	Material Gen	erated Monthl	y	Actu	al Quantities o	f C&D Wastes	Generated Mo	onthly
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	0.00	0.00	0.00	0.00	8.63
Feb	0.18	0.00	0.00	0.00	0.18	0.00	8.16	0.04	0.00	0.00	17.86
Mar	0.19	0.00	0.00	0.00	0.19	0.00	0.01	0.05	0.00	0.00	13.31
Apr											
May											
Jun											
Sub-total	2.05	0.00	0.00	0.00	2.05	0.00	8.16	0.09	0.00	0.00	39.80
July											
Aug											
Sept											
Oct											
Nov					_	_				_	_
Dec											
Total	2.05	0.00	0.00	0.00	2.05	0.00	8.16	0.09	0.00	0.00	39.80

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 UkTsuen, South Lantau Road, Pui O Beach
2	Excavation and site formation at SSWSTW and POSPS
3	Removal works of ELS
4	ELS works
5	Superstructure RC Works

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 (April, May and June 2024) Construction Rolling Program

Item	Construction Activities
1	Excavation, sewer laying, construction of manhole at Pui O Lo UkTsuen, South Lantau Road, Pui O Beach
2	Dredging at marine
3	Site formation works
4	Drilling works
5	Excavation works
6	ELS works
7	Superstructure RC Works
8	Removal works of ELS