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

SEPTERMBER 2023 REVISION 2

CLIENTS:

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CERTIFIED BY:

61

Derek Lo

Environmental Team Leader

DATE:

13 October 2023



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Our Ref

7076811/L30238/AG/KL/TK/rw

13 October 2023

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 (September 2023)

With reference to the Monthly EM&A Report (September 2023) Revision 2 dated and certified by the ET Leader on 13 October 2023, 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

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TABLE	E OF CONTENTS	
1	Introduction	6
1.1	Scope of the Report	6
1.2	Structure of the Report	6
2	Basic project Information and Environmental Status	8
2.1	Basic Project Information	8
2.2	Construction Programme	8
2.3	Works undertaken during the month	9
2.4	Drawing showing the project area, environmental sensitive receivers a monitoring locations	nd
3	Implementation Status	9
3.1	Advice on the implementation status of environmental protection and pollution control/mitigation measures	9
3.2	Environmental Mitigation Measures	10
3.3	Environmental monitoring requirements and contractual requirements	10
3.4	Site Inspection and Audit Reports	
4	Monitoring Results	13
4.1	Noise Monitoring	13
4.2	Water Quality Monitoring	16
4.3	Ecology	20
4.4	Waste Management	21
5	Complaints, Notification of Summons and Prosecution	23
6	Future Key Issues	25
7	Conclusion	26
7.1	Noise Monitoring	26
7.2	Water Quality Monitoring	26
7.3	Ecological Impact Monitoring	26
7.4	Review of the Reasons for and the Implications of Non-compliance	27
7.5	Summary of action taken in the event of and follow-up on non-complia	nce
		27

LIST OF TABLES

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



LIST OF FIGURES

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

LIST OF APPENDICES

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



EXECUTIVE SUMMARY

- i. This is the Monthly Environmental Monitoring and Audit (EM&A) Report September 2023 for the Outlying Islands Sewerage Stage 2 South Lantau Sewerage Works under Environmental Permit No. EP-538/2017 (Hereafter as "the Project"). The construction works of the Project was commenced on 3 November 2021 and the tentative completion date is Q1 2026. This Monthly EM&A Report presents the environmental monitoring findings and information recorded during the period of 1 to 30 September 2023. 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 and SSWSTW
 - 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. No school examination was taken place at N17 Bui O Public School in the reporting 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 1 Sep 2023 and 8 Sep 2023 were cancelled due to Typhoon Signal no. 8 and Black Rainstorm Signal respectively. 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.
- xiii. The retained tree (T035) Dalbergia assamica (南嶺黃檀) located within the site boundary of the Construction of San Shek Wan Sewage Treatment Works was collapsed on 2 Sep 2023 afternoon after typhoon "Saola" (Signal No. 10). No injury and significant damage were caused in the tree collapse incident. To minimize obstruction to the public, the trees were subsequently sawn and removed. Incident report for this case would be provided by the Contractor.

Complaint log

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

Notifications of Any Summons and Successful Prosecutions

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

Reporting Changes

xvi. There are no particular reporting changes.

Future Key Issues

- xvii. 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

- HDD works at marine and SSWSTW
- Site formation works
- Drilling works

- Excavation works
- ELS works
- Superstructure RC Works
- Removal works of ELS

xviii. Key construction activities for the next three months with the recommended mitigation measures to be implemented are presented as follows:

Key Construction Works	Recommended Mitigation Measures		
Excavation, sewer laying,	Implementation of noise pollution control in accordance		
construction of manhole at Pui O	with Construction Noise Mitigation Plan;		
Lo Uk Tsuen, South Lantau Road,	Dust control during dust generating works;		
Pui O Beach	Silt curtain should be maintained in good condition;		
HDD works at marine and	Adopt surface drainage and sediment control facilities for		
SSWSTW	sewage installation in village and public roads;		
Site formation works	Adopt temporary drainage and sediment control facilities		
Drilling works	on Site;		
Excavation works	Vehicle wheel-washing and body washing facilities should		
ELS works	be provided at the site entrance;		
Superstructure RC Works	Regular water spraying on excavation works for dust		
Removal works of ELS	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:

6

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 Tse	9270 3384	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 and SSWSTW
 - · 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-RS0657-23	9 Aug 2023	11-08-2023 to 08-02-2024	Valid
Construction Noise Permit under Noise Control Ordinance for POSPS	GW-RS0230-23	7 Mar 2023	27-03-2023 to 26-09-2023	Expired on 26 Sep 2023
	GW-RS0822-23	25 Sep 2023	27-09-2023 to 26-03-2024	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 05, 12,18 and 26 September 2023. IEC attended the SSEMC meeting held on 18 September 2023.Holding nursery visit for transplanted trees on 21 September 2023.
- 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
05 September 2023	Pui O Sewage Pumping Station- 1. Stagnant water in the Drip tray should be removed regularly 2. Exposed surface should be well covered 3. Drip tray should be provided to chemical container Remainder: - Retained tree (T035, Dalbergila balansae 南嶺黃檀) at the site entrance/exit of POSPS was fallen after Typhoon Saola, Contractor is reminded to report to relevant parties accordingly	Rectified on 15 Sep 2023 Incident report for T035 was provided on 28 Sep 2023
12 September 2023	Pui O Sewage Pumping Station- 1. Housekeeping on site should be enhanced.	Rectified on 14 Sep 2023
18 September 2023	Pui O Sewage Pumping Station & San Shek Wan Sewage Treatment Works(SSWSTW)- 1. Drip trays shall be provided to chemical containers 2. Tree protection zones shall be established in order to prevent the trees from being damaged during construction. Remainder: Pui O Beach Road Rising Mains - Noise mitigation measures shall be enhanced to avoid noise nuisance to nearby school	Rectified on 22 Sep 2023
26 September 2023	Pui O Sewage Pumping Station (POSPS) 1. Tree label should be provided to the retained trees within the site area.	Rectified on 27 Sep 2023

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	13437

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

4.1.4 Calibration Details

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

PARAMETERS MONITORED

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

MONITORING STATIONS

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

Table 4.2 Noise Monitoring Station

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

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

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

MONITORING DATE, TIME, FREQUENCY AND DURATION

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

NOISE MONITORING RESULTS

- 4.1.9 Noise monitoring results measured in this reporting period are reviewed and summarized.
 Details of noise monitoring results and graphical presentation can be referred in <u>Appendix 4.3</u>.
- 4.1.10 No school examination was taken place at N17 Bui O Public School in the reporting 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	Sonde YSI Professional Plus	20M100002 / 20M101455
Turbid meter	Xin Rui WGZ-3B	2209074

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

PARAMETERS MONITORED

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

MONITORING STATIONS

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

Table 4.4 Marine Water Quality Stations for Water Quality Monitoring

Station	Description	Easting	Northing
CE	Upstream control station at ebb tide	810838	807538
CF	Upstream control station at flood tide	815886	808081
SR4 (1)	Ecological Sensitive Receiver (Coral 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 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 <u>Appendix 4.2</u>.
- 4.2.13 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.

- 4.2.14 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.
- 4.2.15 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.
- 4.2.16 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

- 4.2.17 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>
- 4.2.18 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 Mai	rine 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 <u>underlined text</u>):

- 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.
- 4.2.19 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	S&M)	DO (B	ottom)	Turb	idity	S	S		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

- 4.2.20 Water quality monitoring on 1 Sep 2023 and 8 Sep 2023 were cancelled due to Typhoon Signal no. 8 and Black Rainstorm Signal respectively. 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.
- 4.2.21 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 21 September 2023 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 The retained tree (T035) Dalbergia assamica (南嶺黃檀) located within the site boundary of the Construction of San Shek Wan Sewage Treatment Works was collapsed on 2 Sep 2023 afternoon after typhoon "Saola" (Signal No. 10). No injury and significant damage were caused in the tree collapse incident. To minimize obstruction to the public, the trees were subsequently sawn and removed. Incident report for this case would be provided by the Contractor.
- 4.3.11 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*.

21

Table 4.7 Summary of Quantities of Waste Material

Waste Type	Quantity this month	Quantity (the end of last month)	Cumulative Quantity-to-Date
Hard Rock and Large Broken Concrete (Inert) (in '000m³)	0	0	0
Reused in this Contract (Inert) (in '000m³)	0	0	0
Reused in other Projects (Inert) (in '000m³)	0	0	0
Disposal as Public Fill (Inert) (in '000m³)	0.11181	1.30758	13.21906
Metals (in '000kg)	0	0.0043	7.51480
Paper / Cardboard Packing (in '000kg)	0.0397	0.0227	0.45918
Plastics (in '000kg)	0.0069	0.0092	0.05476
Chemical Wastes (in '000kg)	0	0	0
General Refuses (in '000kg)	11.98	5.85	524.39

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
Septmeber 2023	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
 - HDD works at marine and SSWSTW
 - 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 October 2023 to December 2023 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, Pui O Beach	 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;
 HDD works at marine and SSWSTW Site formation works 	 Adopt surface drainage and sediment control facilities for sewage installation in village and public roads; Adopt temporary drainage and sediment control facilities
Drilling worksExcavation worksELS works	 on Site; Vehicle wheel-washing and body washing facilities should be provided at the site entrance;
Superstructure RC WorksRemoval 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 No school examination was taken place at N17 Bui O Public School in the reporting 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 1 Sep 2023 and 8 Sep 2023 were cancelled due to Typhoon Signal no. 8 and Black Rainstorm Signal respectively. 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 retained tree (T035) Dalbergia assamica (南嶺黃檀) located within the site boundary of the Construction of San Shek Wan Sewage Treatment Works was collapsed on 2 Sep 2023 afternoon after typhoon "Saola" (Signal No. 10). No injury and significant damage were caused in the tree collapse incident. To minimize obstruction to the public, the trees were subsequently sawn and removed. Incident report for this case would be provided by the Contractor.
- 7.3.5 The extent of the work site boundaries was checked by the ET during the weekly site audit.

- 7.3.6 Within this reporting period, holding nursery visit for transplanted trees on 21 September 2023.
- 7.3.7 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
21 September 2023.	<u>Transplanted trees in holding nursery at Kam Tin</u> The Contractor was reminded to remove other herbaceous plant species from <i>Aquilaria sinensis</i> (T392), <i>Gmelina chinensis</i> (T751) and <i>Celtis sinensis</i> (T113).	27 September 2023

- 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

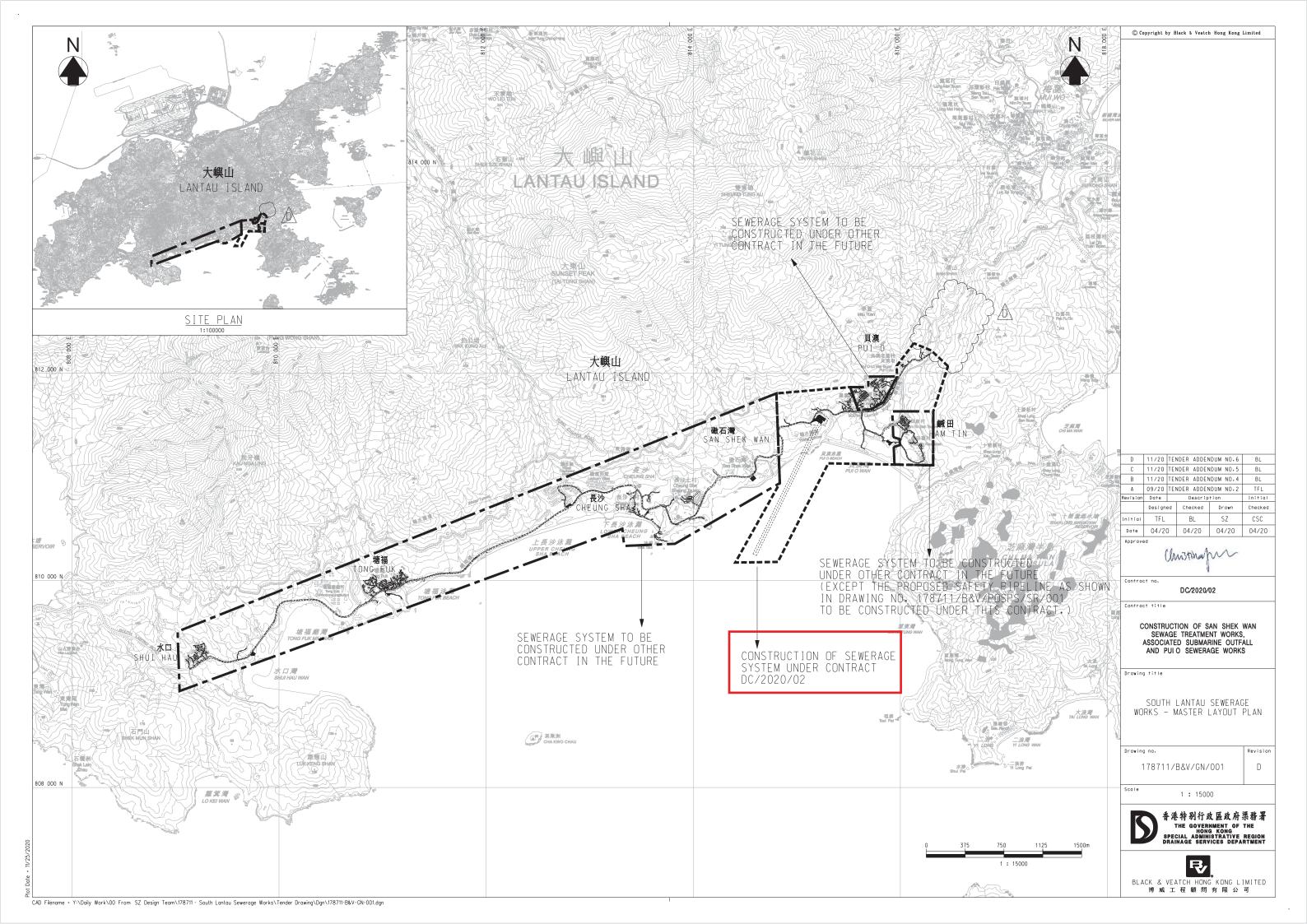


Figure 2.2

Contract Layout Plan

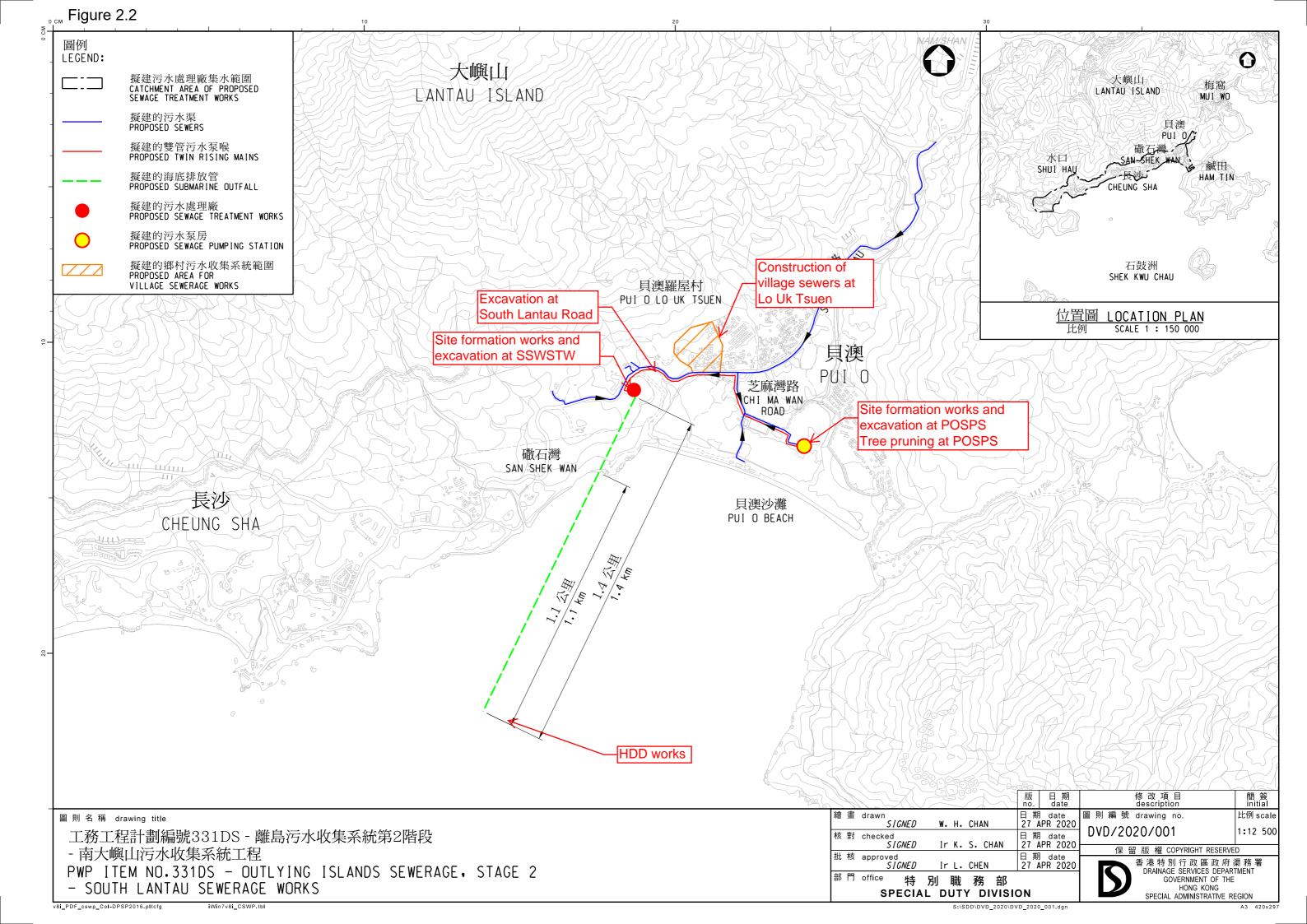


Figure 2.3

Locations of Noise Monitoring Station

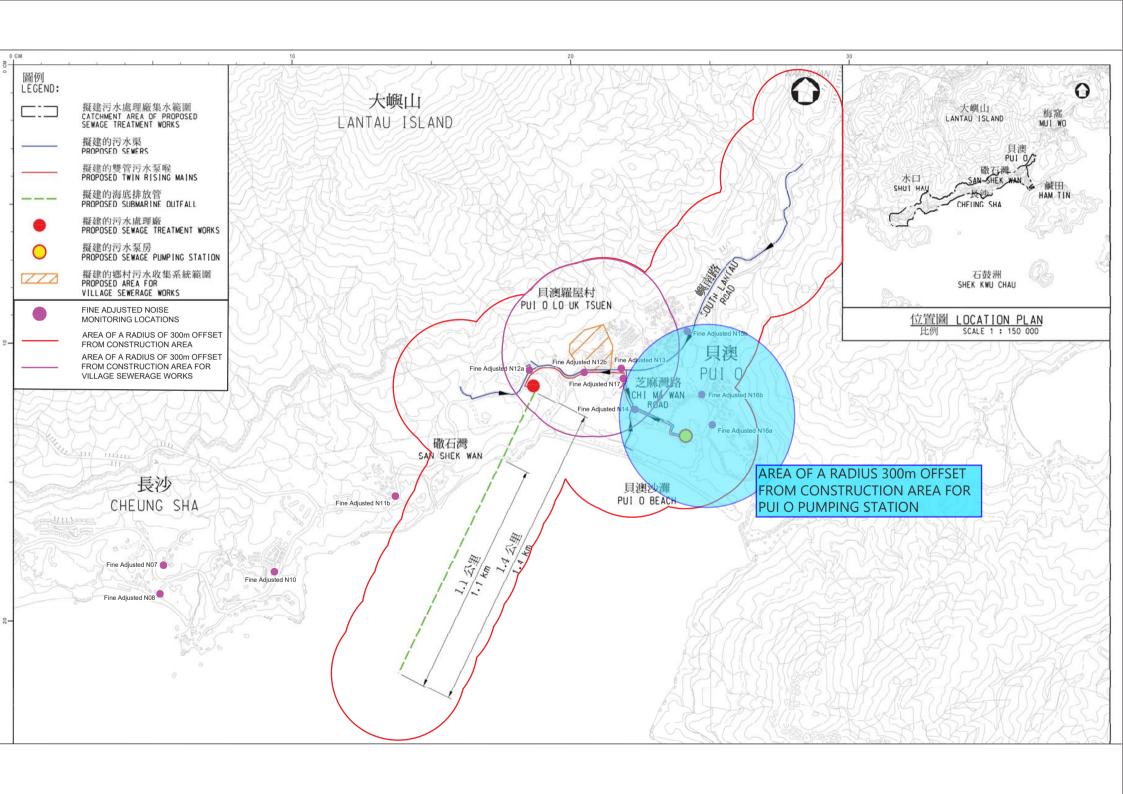


Figure 2.4 Locations of Water Quality Monitoring Stations

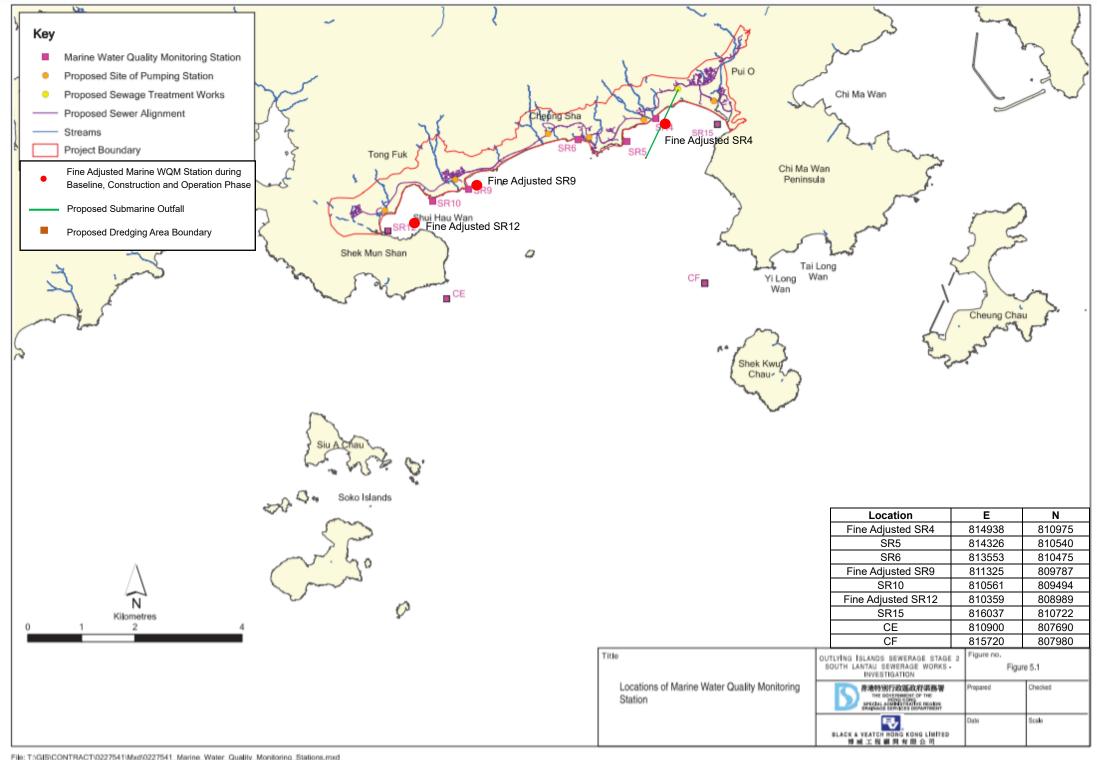


Figure 2.5

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

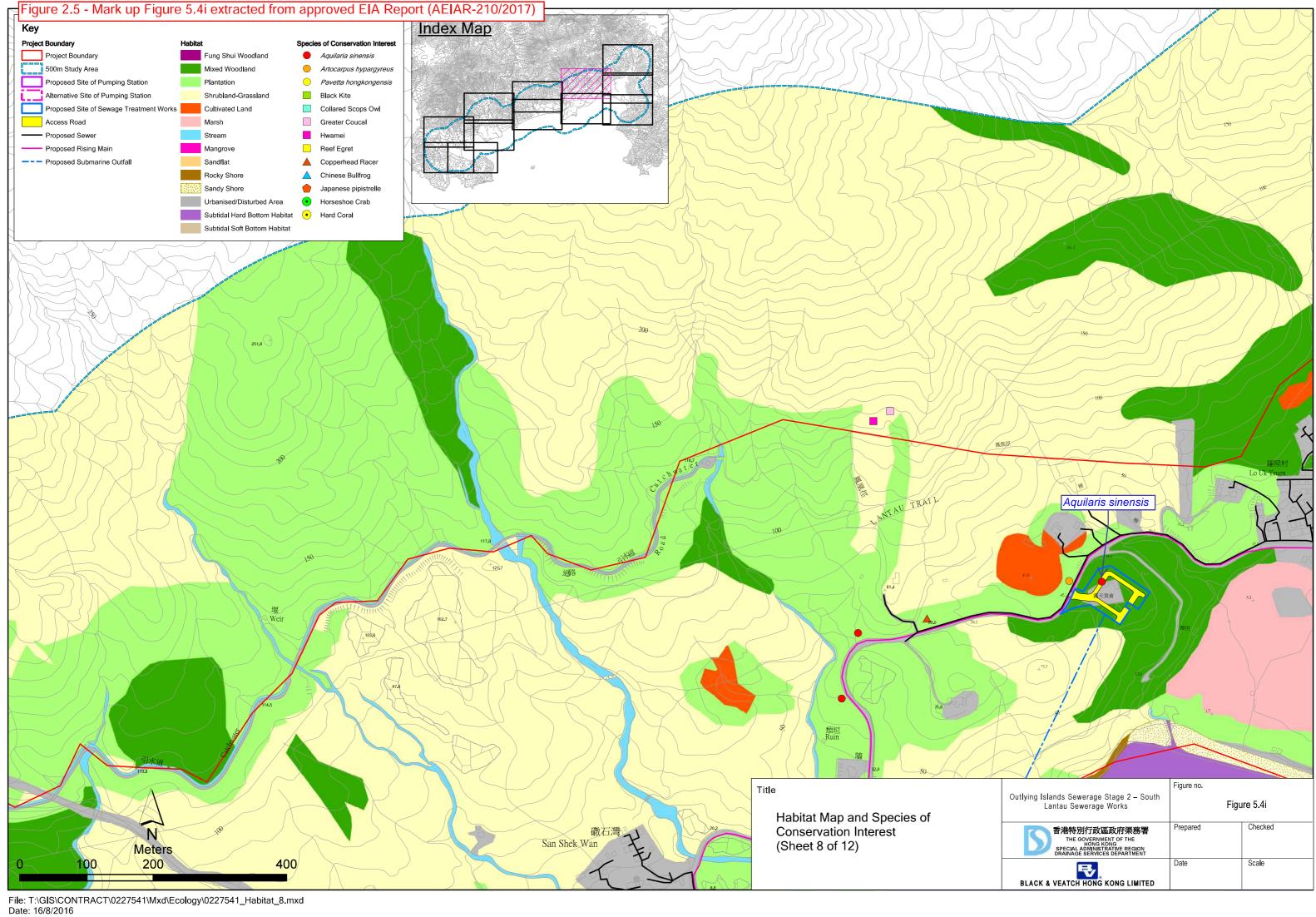
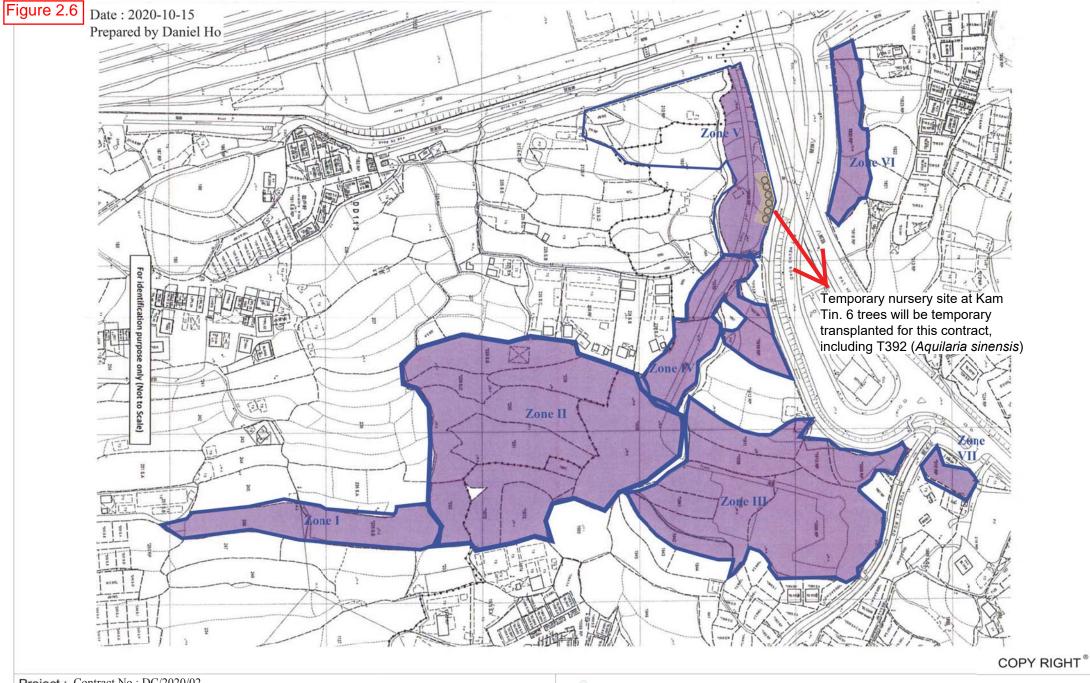


Figure 2.6

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

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



SMECLab

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



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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	Actual level	Tolerar	nce (dB)	Deviation
Hz	dB	Measured (dB)	+	-	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

to:



CERTIFICATE OF CALIBRATION

Certificate No.:

22CA1101 02-02

Page:

of

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer: Type/Model No.:

Larson Davis CAL200

Serial/Equipment No.:

13437

Adaptors used:

. .

Item submitted by

Curstomer:

Lam Environmental Services Ltd.

Address of Customer:

-

Request No.: Date of receipt:

01-Nov-2022

Date of test:

04-Nov-2022

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable
Lab standard microphone	B&K 4180	2412857	23-May-2023	SCL
Preamplifier	B&K 2673	2743150	28-Jun-2023	CEPREI
Measuring amplifier	B&K 2610	2346941	30-Jun-2023	CEPREI
Signal generator	DS 360	33873	21-Jan-2023	CEPREI
Digital multi-meter	34401A	US36087050	30-May-2023	CEPREI
Audio analyzer	8903B	GB41300350	06-Jul-2023	CEPREI
Universal counter	53132A	MY40003662	13-Jun-2023	CEPREI

Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity: Air pressure:

55 ± 10 % 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.

Feng Junqi

Approved Signatory:

Date:

05-Nov-2022

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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2



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

22CA1101 02-02

Page:

Measured Sound Pressure Level 1.

> 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) Estimated Expanded Uncertainty dB

Frequency Output Sound Pressure Measured Output Shown Level Setting Sound Pressure Level Hz dB dB 1000 94.00 93.76 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 = 0.011 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 = 1000.0 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 = 0.7%

Estimated expanded uncertainty

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

Checked by:

Date:

ung Chi Yip

Date:

05-Nov-2022

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.

C Soils & Materials Engineering Co., Ltd.

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



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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: DEREK LO WORK ORDER: HK2333034

CLIENT: LAM ENVIRONMENTAL SERVICES LTD

ADDRESS: 19/F, REMEX CENTRE, SUB-BATCH:

42 WONG CHUK HANG ROAD, LABORATORY: HONG KONG

HONG KONG **DATE RECEIVED:** 17-Aug-2023 **DATE OF ISSUE:** 25-Aug-2023

SPECIFIC COMMENTS

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

Equipment Type: Multifunctional Meter Service Nature: Performance Check

Scope: Dissolved Oxygen, pH Value, Salinity and Temperature

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

Serial No./ Equipment No.: [20M100002/20M101455]/ [N/A]

Date of Calibration: 22-August-2023

GENERAL COMMENTS

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

16.3

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK2333034

SUB-BATCH: 0

DATE OF ISSUE: 25-Aug-2023

CLIENT: LAM ENVIRONMENTAL SERVICES LTD

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/[ProQuatro]

Serial No./

[20M100002/20M101455]/ [N/A]

Equipment No.: Date of Calibration: [20101100002/20101101455]/ [10/A]

22-August-2023 Date of Next Calibration:

22-November-2023

PARAMETERS:

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.94	1.78	-0.16
4.96	4.81	-0.15
7.84	7.69	-0.15
	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	7.14	+0.14
10.0	9.96	-0.04
	Tolerance Limit (pH unit)	±0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	
10	10.06	+0.6
20	19.93	-0.4
30	29.02	-3.3
	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: HK2333034

SUB-BATCH: 0

DATE OF ISSUE: 25-Aug-2023

CLIENT: LAM ENVIRONMENTAL SERVICES LTD

Equipment Type:

Multifunctional Meter

Brand Name/

[YSI]/[ProQuatro]

Model No.: Serial No./

Equipment No.:

[20M100002/20M101455]/ [N/A]

Date of Calibration:

22-August-2023

Date of Next Calibration:

22-November-2023

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)
6.0	4.8	-1.2
25.0	23.3	-1.7
50.0	48.1	-1.9
	Tolerance Limit (°C)	±2.0

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

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

Calibration Report

52508051-G07D3003 Calibration No.

FT LaboratoriesLtd. Laboratory .

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

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

2209074 Equipment no.:

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

Standard Solution of Formazine Turbidity Major Measurement

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

07 Jul.,2023 Date of item received

14 Jul.,2023

Location of Calibration Chemical Laboratory of FT LaboratoriesLtd.

Calibration Conditions 20 ± 3 °C Temperature

Equipment

Notes:

Date of Calibration

Relative Humidity 30% to 80%

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

Date of Issue: 71 || 111 2023 Certified by:

CHAN Joseph Nicolas (Senior Technical Engineer)

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

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Calibration Report

Calibration No.

52508051- G07D3003

Results

Solution used	Measured value (NTU)	Error (%)
0	0	
4	4.03	0.8%
10	10.00	0.0%
40	39.99	0.0%
100	99.98	0.0%
400	400.4	0.1%
1000	999.6	0.0%

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:

Wong Ting Hei

Date:

14 Jul.,2023

Checked by:

D-4--

Appendix 4.2

Impact Monitoring Schedule for Reporting Month and Next Month



CONTRACT NO: SD 15/2022

Outlying Islands Sewerage Stage 2 - South Lantau Sewerage Works Environmental Team Services (2023-2024) Environmental Monitoring Schedule Sep 2023

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	Mone	day	Tuesday	Wedne	esday	Thursday	Fric	day	Saturday
27 Aug		28 Aug	29 Aug		30 Aug	31 Aug		01 Sep	02 Sep
							WQM for Mid	-Elood and	
							Mid -Ebb was		
							due to advers	se weather	
							Mid-Ebb	13:11	
00.0		04.0	05.0		00.0	07.0	Mid-Flood	7:36*	00.0
03 Sep		04 Sep	05 Sep		06 Sep	07 Sep		08 Sep	09 Sep
				Noise Monito	ring		WQM for Mid		
							Mid -Ebb was		
							due to advers	se weather	
	Mid-Ebb	15:13		Mid-Ebb	16:46		Mid-Ebb	7:26	
	Mid-Flood	9:09		Mid-Flood	11:30		Mid-Flood	17:00*	
10 Sep		11 Sep	12 Sep		13 Sep	14 Sep		15 Sep	16 Sep
	Noise Monito	ring							
	Mid-Ebb	10:26		Mid-Ebb	11:40		Mid-Ebb	12:41	
	Mid-Flood	18:02	40.0	Mid-Flood	18:34	21.0	Mid-Flood	18:30*	
17 Sep		18 Sep	19 Sep		20 Sep	21 Sep		22 Sep	23 Sep
			Noise Monitoring						
	Mid-Ebb	14:13		Mid-Ebb	15:23		Mid-Ebb	7:04*	
24 Sep	Mid-Flood	8:05 25 Sep	26 Sep	Mid-Flood	9:38 27 Sep	28 Sep	Mid-Flood	16:30* 29 Sep	30 Sep
		·			·				·
						Noise Monitoring			
	Mid-Ebb	8:41		Mid-Ebb	10:32		Mid-Ebb	12:06	
	Mid-Ebb Mid-Flood	16:54		Mid-Ebb Mid-Flood	17:46		Mid-Ebb Mid-Flood	18:35	



CONTRACT NO: SD 15/2022

Outlying Islands Sewerage Stage 2 - South Lantau Sewerage Works Environmental Team Services (2023-2024) Tentative Impact Marine Water Quality Monitoring Schedule (Rev. 3) Oct 2023

Note:

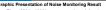
*Mid-tide time during daylight period of the ebb/flood tide is scheduled in consideration of navigation safety and to capture major marine works operation.

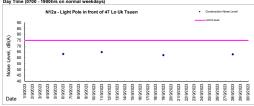
Sunday	Monda	ay	Tuesd	lay	Wedne	esday	Thurs	day	Frida	ay	Satur	day
01 Oct		02 Oct		03 Oct		04 Oct		05 Oct		06 Oct		07 Oct
08 Oct		09 Oct	Mid-Ebb Mid-Flood	14:48 9:05 10 Oct			Mid-Ebb Mid-Flood	15:30* 11:00* 12 Oct		13 Oct	Mid-Ebb Mid-Flood	7:05* 16:30* 14 Oct
00 000		09 001		10 001		11 001		12 001		13 000		14 001
	Mid-Ebb Mid-Flood	8:54 17:00*			Mid-Ebb Mid-Flood	10:33 17:25			Mid-Ebb Mid-Flood	11:41 17:53	1	
15 Oct		16 Oct		17 Oct		18 Oct		19 Oct		20 Oct		21 Oct
	Mid-Ebb Mid-Flood	13:18 7:21			Mid-Ebb Mid-Flood	14:24 8:49			Mid-Ebb Mid-Flood	16:00* 11:00*		
22 Oct		23 Oct		24 Oct		25 Oct		26 Oct		27 Oct		28 Oct
29 Oct	Mid-Ebb Mid-Flood	7:43* 17:30* 30 Oct			Mid-Ebb Mid-Flood	9:17 16:31 01 Nov			Mid-Ebb Mid-Flood	11:00 18:30 03 Nov)	04 Nov
29 Oct		30 Oct		31 Oct		UI NOV		UZ INOV		U3 NOV		U4 INOV
	Mid-Ebb Mid-Flood	13:10 18:30										

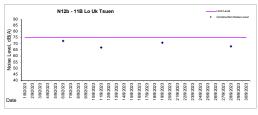
Appendix 4.3

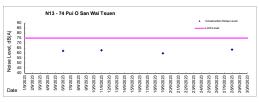
Noise Monitoring Results and Graphical Presentations

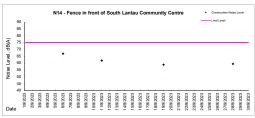


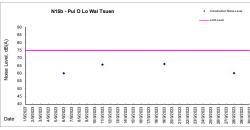


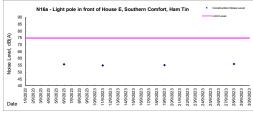


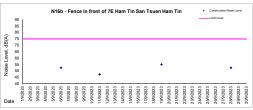


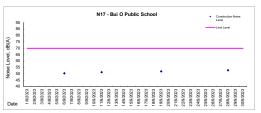














Day Time (0700 - 1900hrs on normal weekdays)

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

			Calibration		Measu	rement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	W : 0	0.1 N.:
Date	Weather	Wind Speed	Calibration	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Major Construction	Other Noise
			Cneck		Unit	t: dB(A), (5	-min)		Unit:	dB(A), (30-min)	'	Noise Source(s)*	Source(s)
				14:15	61.7	65.3	52.2						
				14:20	63.6	67.3	55.2	1					
6 Sep 2023	0	0.0	94.1	14:25	60.2	63.5	52.1	00.0	70.0	-Daniel Land	75	21/4	Traffic
6 Sep 2023	Sunny	0.0	94.1	14:30	65.3	69.2	56.6	63.3	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td></baseline>	75	N/A	
				14:35	63.4	66.9	55.4	1					
				14:40	63.6	67.3	55.9	1					
				14:15	63.3	67.2	54.0						
				14:20	65.4	69.5	56.2						
	Sep 2023 Sunny 0.1		14:25 61.7 65.6	52.8		73.3 <	-Daniel Land	75	217.	m			
11 Sep 2023		94.1	14:30	67.2	71.2	58.4	65.0	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic	
				14:35	65.2	69.0	56.4						
				14:40	65.4	69.4	56.9						
				14:15	60.8	64.5	51.7						
				14:20	62.8	66.6	54.2	1					
	0			14:25	59.2	62.3	50.6	62.4	70.0	December 1 and	75		m
19 Sep 2023	Sunny	0.0	94.1	14:30	64.5	68.5	54.6	62.4	73.3	<baseline level<="" td=""><td>/5</td><td>N/A</td><td>Traffic</td></baseline>	/5	N/A	Traffic
				14:35	62.6	66.2	54.2	1					
				14:40	62.8	66.6	54.7						
				14:15	65.3	69.3	56.7						
				14:20	63.3	66.9	55.2	1					
	0			14:25	63.5	67.3	55.6	00.0	73.3	December 1 and	75	21/4	m cc:
28 Sep 2023 Sunny 0.0	0.0	94.1	14:30	61.1	64.9	52.1	63.0	13.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic	
				14:35	63.2	67.0	54.5						
				14:40	59.6	63.5	50.8	1					

^{*} 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

			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	Construction	
			Officer		Unit	: dB(A), (5	-min)		Unit:	dB(A), (30-min)		Noise	Source(s)
				13:40	74.3	77.6	56.0						
				13:45	71.5	74.2	51.2						
6 Sep 2023	Sunny	0.0	94.1	13:50	74.1	78.7	51.7	72.2	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td rowspan="2">Traffic</td></baseline>	75	N/A	Traffic
0 00p 2020	ou,	0.0	01.1	13:55	69.6	72.7	51.0		70.0	- Bussimo Esvei		IVA	
				14:00	68.8	76.0	53.8]					
				14:05	71.9	76.2	54.8						
				13:40	68.6	72.1	49.3						
				13:45	65.6	68.4	44.2						
11 Sep 2023	Sunny	0.0	.0 94.1	13:50	68.5	73.2	44.7	66.9	76.8	<baseline level<="" td=""><td rowspan="2">75</td><td>N/A</td><td rowspan="3">Traffic</td></baseline>	75	N/A	Traffic
	,			13:55	63.4	66.8	43.9					11771	
				14:00	67.6	70.5	46.7						
				14:05	65.8	70.6	47.9						
				13:40	73.4	77.1	52.8						
				13:45	70.2	73.2	47.3						
19 Sep 2023	Sunny	0.0	94.1	13:50	73.0	78.3	47.9	70.8	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				13:55	67.8	71.6	47.2	- 1					
				14:00	62.3	75.2	50.6	- 1					
				14:05 13:40	70.8 65.3	75.5 68.4	51.4 46.8						
				13:40	66.9	71.8	49.6	-					
				13:45	67.5	71.0	50.6	-					Traffic
28 Sep 2023	Sunny	0.0	94.1	13:55	69.6	71.9	50.6	67.8	76.8	<baseline level<="" td=""><td rowspan="2">75</td><td>N/A</td></baseline>	75	N/A	
a , a l		., 5.0	-	14:00	66.6	69.4	46.2						
				14:00	69.4	74.2	45.7	-					
	1	1	1	14:05	09.4	14.2	40.7			I .			1

 $^{^{\}star}\,\text{N/A}$ 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

			0 " "		Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Other
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction	Noise
			CHECK		Unit	Unit: dB(A), (5-min)		Unit: dB(A), (30-min)				Noise Source(s)*	Source(s
				11:30	11:30 61.6 65.4 56.5								
				11:35	59.9	62.4	56.2						
6 Sep 2023	Sunny	0.0	94.1	11:40	64.0	67.5	58.3	62.1	73.6	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
6 Sep 2023	Suriny	0.0	94.1	11:45	62.6	66.6	57.4	02.1	73.0	Chasellile Level	75	N/A	Iraiiic
				11:50	61.0	64.9	56.1	İ					
				11:55	62.3	65.8	56.5	1					
				11:30	62.2	66.1	57.1						
			11:35	60.5	63.0	56.8							
11 Sep 2023	Sunny	0.0	94.1	11:40	64.6	68.1	58.9	62.7	73.6	<baseline level<="" td=""><td>75</td><td>N/A</td><td>m cc:</td></baseline>	75	N/A	m cc:
11 Sep 2023	Suriny	0.0	94.1	11:45	63.2	67.2	58.0			Chasellile Level	75	N/A	Traffic
				11:50	61.7	65.5	56.7	1				[
				11:55	63.0	66.4	57.1						
				11:30	59.1	62.8	54.2						
				11:35	57.5	59.8	54.0						
19 Sep 2023	Sunny	0.0	94.1	11:40	61.5	64.7	56.0	59.6	73.6	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
19 3ep 2023	Sullily	0.0	34.1	11:45	60.2	63.8	55.1	39.0	75.0	Spaselille Level	75	N/A	Trailic
				11:50	58.5	62.4	53.9						
				11:55	59.7	63.1	54.3						
				11:30	64.4	68.5	59.1						
				11:35	62.8	66.7	57.8						
28 San 2023	Sunny	0.0	94.1	11:40	64.1	67.6	58.2	63.3	73.6	<baseline level<="" td=""><td rowspan="2">75</td><td>N/A</td><td>T CC: -</td></baseline>	75	N/A	T CC: -
20 Oop 2023	28 Sep 2023 Sunny	0.0	34.1	11:45	62.1	66.0	57.0	63.3	13.0	<baseline level<="" td=""><td>IN/ A</td><td>Traffic</td></baseline>		IN/ A	Traffic
		11:50	60.4	62.9	56.7								
			11:55	64.5	68.0	58.2	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

			0 17 11		Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Other
Date \	Weather	Wind Speed	Calibration Check	Time	Leq L10 L90		L90	Leq	Leq	Leq	Leq	Construc	Noise
			Oncor		Unit: dB(A), (5-min)			Unit: dB(A), (30-min)					Source(s
				10:55	66.1	69.2	54.2						
				11:00	67.7	68.3	52.2						
6 Sep 2023	Sunny	0.0	94.1	11:05	65.5	67.7	51.3	66.9	62.2	65	75	N/A	Traffic
6 Sep 2023	Sunny	0.0	94.1	11:10	69.2	71.8	51.5	00.9	02.2	05	/5	N/A	Iraiiic
				11:15	67.5	70.8	52.6						
				11:20	63.4	65.8	51.3						
		0.0		10:55	56.8	59.6	48.2						
				11:00	58.2	61.0	46.3	61.9	62.2	<baseline level<="" td=""><td></td><td>I</td></baseline>			I
11 Sep 2023	C		94.1	11:05	60.3	63.2	45.3				75	N/A	Traffic
11 Sep 2023	Sunny	0.0	94.1	11:10	64.2	67.1	44.6		02.2	<baseline level<="" td=""><td>/5</td><td>N/A</td><td rowspan="2">Hairic</td></baseline>	/5	N/A	Hairic
				11:15	65.1	67.9	47.2						
				11:20	61.0	63.8	46.2						
		0.0		10:55	60.9	63.8	47.2		62.2		75		
				11:00	62.5	60.7	45.3			<baseline level<="" td=""><td></td><td rowspan="4">Traffic</td></baseline>			Traffic
19 Sep 2023	Sunny		94.1	11:05	55.2	57.5	44.7	58.8				NIZA	
19 36p 2023	Suring	0.0	94.1	11:10	58.8	61.2	45.8	30.0				N/A	
				11:15	55.2	58.6	45.1						
				11:20	51.5	53.3	43.7						
				10:55	62.5	65.0	45.4						
				11:00	62.1	64.9	47.1						Traffic
28 Sep 2023	Sunny	0.0	94.1	11:05	58.4	60.7	46.0	59.4	62.2	<baseline level<="" td=""><td>75</td><td>NIZA</td></baseline>	75	NIZA	
26 Sep 2023	ounny	0.0	94.1	11:10	55.3	57.9	45.1		02.2	<baseline level<="" td=""><td>/5</td><td>N/A</td></baseline>	/5	N/A	
				11:15	56.7	57.1	43.3						
				11:20	54.3	56.7	42.6		1				

^{*} 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

		Wind Speed	Calibration		Measu	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level	Major	Other Noise
Date	Weather		Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction	
			CHECK		Unit	dB(A), (5	-min)	Unit:		dB(A), (30-min)		Noise Source(s)*	Source(s)
				15:00	61.5	62.2	55.6		70.7				
				15:05	61.0	61.9	56.6						
6 Sep 2023	Sunny	0.0	94.1	15:10	57.5	57.1	53.2	60.1		<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
0 Sep 2023	Suriny	0.0	94.1	15:15	56.8	60.1	53.8	00.1	70.7	Chaseline Level	75	N/A	ITAILIC
				15:20	58.3	60.4	54.5						
				15:25	62.4	58.2	55.4						İ
		0.0		15:00	54.2	56.6	52.2					N/A	
				15:05	64.7	70.2	54.3		70.7	70.7 <baseline level<="" td=""><td rowspan="4">75</td><td></td></baseline>	75		
11 Sep 2023	Sunny		94.1	15:10	61.8	65.4	53.8	65.7					cc: D D
11 Sep 2023	Suriny		94.1	15:15	69.6	65.1	56.7					N/A	affic, Beverage Facto
				15:20	63.4	68.9	53.5						
				15:25	67.8	64.3	59.0						
		0.0		15:00	60.5	63.4	58.5		70.7 <baseline leve<="" td=""><td></td><td></td><td rowspan="6">N/A</td><td rowspan="3">m .cc</td></baseline>			N/A	m .cc
				15:05	62.5	68.6	60.8			<baseline level<="" td=""><td rowspan="3">75</td></baseline>	75		
	0			15:10	69.2	63.2	60.2	66.1					
19 Sep 2023	Sunny	0.0	94.1	15:15	69.0	62.9	63.5	00.1					Traffic
				15:20	61.0	67.2	59.4						
				15:25	65.9	62.6	65.1						
				15:00	53.0	55.4	51.2				75		
				15:05	58.6	63.8	53.2						
00.0 0000	0			15:10	60.3	59.2	52.7	00.0	70.7	December 1 and		N//	m cc:
28 Sep 2023	Sunny	0.0	94.1	15:15	63.7	58.9	55.5	60.2	70.7	70.7 <baseline level<="" td=""><td>N/A</td><td>Traffic</td></baseline>		N/A	Traffic
				15:20	57.3	62.6	52.2						
				15:25	61.5	58.5	57.2	1					

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



Day Time (0700 - 1900hrs on normal weekdays)

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

			0-111		Measur	ement Noi:	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Out N. :
Date Weather	Wind Speed	Chack	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction	Other Noise	
			CHECK		Unit:	dB(A), (5-	-min)		Unit:	dB(A), (30-min)		Noise	Source(s)
				9:45	51.8	58.8	45.2						
				9:50	49.2	51.6	44.9						
6 Sep 2023	Sunny	0.0	94.1	9:55	55.8	58.1	47.0	55.8	68.1	<baseline level<="" td=""><td>75</td><td>Crane</td><td>Traffic</td></baseline>	75	Crane	Traffic
0 Sep 2023	Sullily	0.0	34.1	10:00	56.8	58.6	46.3	30.0	00.1	Spaselille Level	73	Crane	Trailic
				10:05	58.3	61.3	45.8						
				10:10	57.1	59.3	45.8						
				9:45	54.0	55.9	44.7			<baseline level<="" td=""><td></td><td></td><td></td></baseline>			
			94.1	9:50	56.1	58.2	46.2	55.0	68.1		75		
11 Sep 2023	Sunny	0.2		9:55	58.2	60.1	45.3					N/A	Traffic
11 3ep 2023	Sullily	0.2	34.1	10:00 48.2	60.2	45.6	00.0	00.1	Spaselille Level	73	N/A	Trailic	
				10:05	47.1	49.0	44.9						
				10:10	56.5	58.4	48.5						
			94.1	9:45	56.2	58.1	44.3		68.1				Traffic
				9:50	57.6	61.2	43.2			<baseline level<="" td=""><td rowspan="3">75</td><td rowspan="4">N/A</td></baseline>	75	N/A	
19 Sep 2023	Sunny	0.0		9:55	55.3	57.8	43.6	55.2					
10 00p 2020	Cuiniy		01.1	10:00	54.4	56.2	43.8	00.2	00.1				
				10:05	50.4	53.2	44.0						
				10:10	54.0	56.6	44.5						
				9:45	56.3	57.9	47.3			<baseline level<="" td=""><td></td><td></td><td></td></baseline>			
				9:50	57.8	60.2	47.4						Traffic
28 Sep 2023	Sunny	0.0	94.1	9:55	57.7	59.6	47.2	56.0	68.1		75	N/A	
20 oct 2020 Curiny		2.0	54.1	10:00	53.1	58.9	47.4		00.1		73	11/11	
				10:05	50.9	52.9	47.2						
		1		10:10	56.4	58.3	49.0			1		ı	

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



Day Time (0700 - 1900hrs on normal weekdays)

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

					Measur	ement Nois	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	0.4
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Lea	Leq	Construc	Other Noise
		· ·	Cneck		Unit: dB(A), (5-min)			Unit: dB(A), (30-min)					Source(s)
				10:20	50.2	51.6	46.1						
				10:25	49.8	51.7	44.9						
6 Sep 2023	0	0.0	94.1	10:30	50.2	52.4	45.6	52.5	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>T CC: .</td></baseline>	75	N/A	T CC: .
6 Sep 2023	Sunny	0.0	94.1	10:35	54.2	55.9	45.2	52.5	08.5	<baseline level<="" td=""><td>/5</td><td>N/A</td><td>Traffic</td></baseline>	/5	N/A	Traffic
				10:40	53.6	56.4	44.2						
				10:45	54.3	56.6	44.9						
		0.0		10:20	48.6	49.8	45.8						
				10:25	47.3	48.5	45.5						
11 Sep 2023	Sunny		94.1	10:30	44.6	45.8	43.8 47.5	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic	
11 Sep 2023	Suriny		34.1	10:35	46.5	47.7	45.8	47.5	00.5	Coaseille Level	75	IN/ A	Hallic
				10:40	45.9	47.1	44.1						
				10:45	49.8	51.2	46.2						
		0.0		10:20	56.2	58.1	44.3		68.5	<baseline level<="" td=""><td rowspan="4">75</td><td rowspan="5">N/A</td><td rowspan="6">Traffic</td></baseline>	75	N/A	Traffic
				10:25	57.6	61.2	43.2						
19 Sep 2023	Sunny		94.1	10:30	55.3	57.8	43.6	55.2					
10 Oop 2020	Suring	0.0	34.1	10:35	54.4	56.2	43.8	35.2	00.3				
				10:40	50.4	53.2	44.0						
				10:45	54.0	56.6	44.5						
				10:20	53.8	55.4	46.3				75		Traffic
				10:25	53.8	56.3	45.6						
28 Sep 2023	Sunny	0.0	94.1	10:30	51.3	53.5	44.9	52.5	68.5	<baseline level<="" td=""><td>N/A</td></baseline>		N/A	
20 00p 2023	Guilly	0.0	34.1	10:35	51.8	53.6	46.0		68.5			IN/A	
				10:40	49.4	51.5	45.2						
				10:45	53.3	53.3 55.3 46.2							

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



Day Time (0700 - 1900hrs on normal weekdays)

Location: N17 - Bui O Public School

			Calibration		Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level	Major	Other Noise
Date Weather	Weather	Wind Speed	Check	Time	Leq L10 L90		Leq	Leq	Leq	Leq	Construction		
			CHECK		Unit	Unit: dB(A), (5-min)		Unit:		dB(A), (30-min)		Noise Source(s)*	Source(s)
				13:00	47.6	49.2	45.6						
				13:05	48.4	49.8	47.5						
6 Sep 2023	Sunny	0.0	94.1	13:10	51.2	50.8	47.8	50.3	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
0 Sep 2023	Suriny	0.0	94.1	13:15	49.6	50.6	47.1	50.5	62.3	Chaseline Level	70	N/A	ITAIIIC
				13:20	51.1	52.5	49.1						
				13:25	52.1	53.5	49.2						
				13:00	49.9	50.6	47.5					N/A	
		0.4		13:05	52.1	53.3	50.3		62.3	62.3 <baseline level<="" td=""><td rowspan="4">70</td><td></td></baseline>	70		
44.0 0000	Cummu		04.4	13:10	53.4	54.6	50.8	51.2					m cc:
11 Sep 2023	Sunny		94.1	13:15	48.7	50.0	47.1					N/A	Traffic
				13:20	49.8	51.2	50.5						
				13:25	51.3	52.3	50.0						
		0.0		13:00	51.1	52.4	48.3		62.3 <bas< td=""><td></td><td></td><td></td><td></td></bas<>				
				13:05	52.0	53.7	49.6			<baseline level<="" td=""><td rowspan="3">70</td><td rowspan="3">N/A</td><td></td></baseline>	70	N/A	
	0			13:10	52.4	54.4	49.3	51.9					m
19 Sep 2023	Sunny		94.1	13:15	49.5	51.5	46.9	51.9					Traffic
				13:20	50.0	51.6	47.4						
				13:25	54.4	52.6	48.6						
				13:00	51.4	52.1	48.9				70		
				13:05	53.6	54.8	51.8						
00.0 0000	0			13:10	55.4	56.3	52.3	50.0	00.0	December 1 and		21/1	m cc:
28 Sep 2023	Sunny	0.0	94.1	13:15	50.2	51.6	48.5	52.8	62.3	62.3 <baseline level<="" td=""><td rowspan="3">N/A</td><td>Traffic</td></baseline>		N/A	Traffic
				13:20	51.5	52.7	52.0						
				13:25	52.8	53.9	51.4	1					

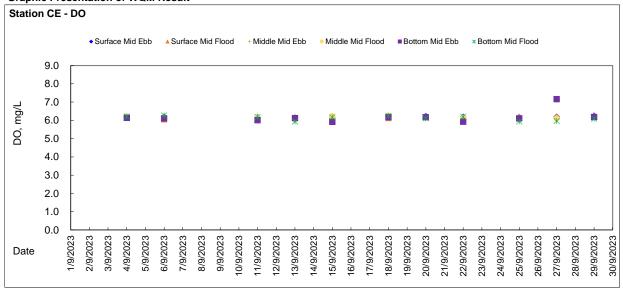
^{*} N/A refers to no major construction noise observed during noise monitoring

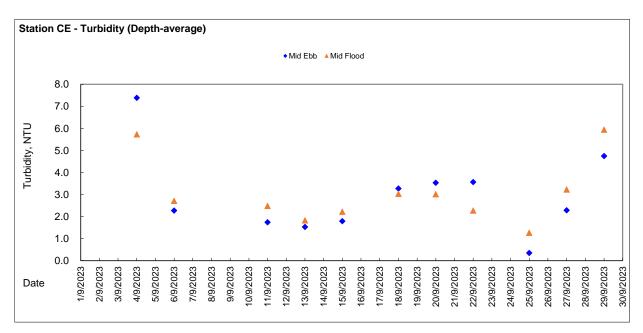
Appendix 4.4

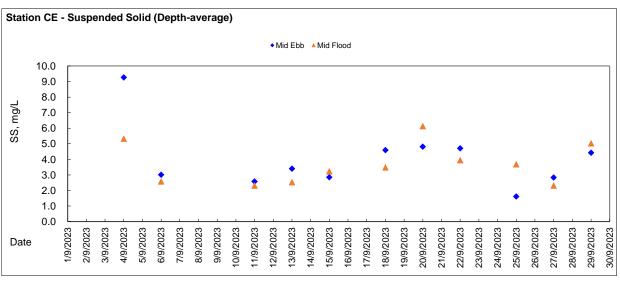
Marine Water Quality Monitoring Results and Graphical Presentations



Graphic Presentation of WQM Result

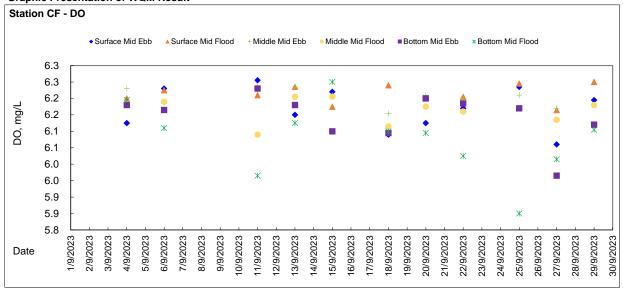


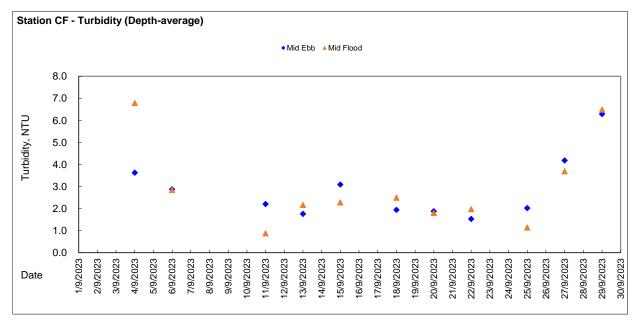


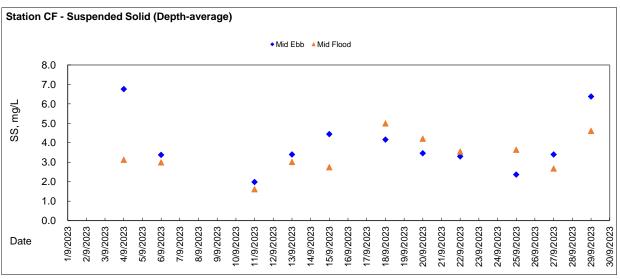




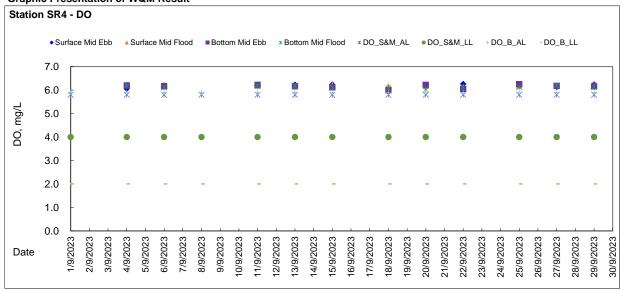
Graphic Presentation of WQM Result

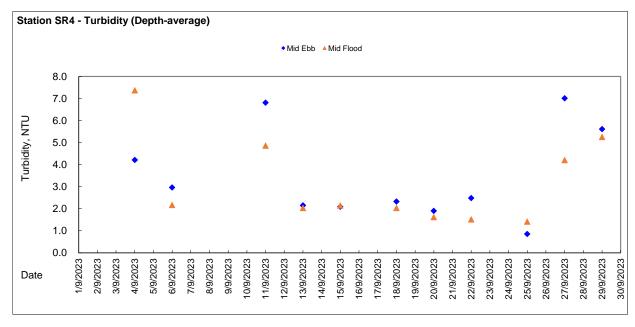


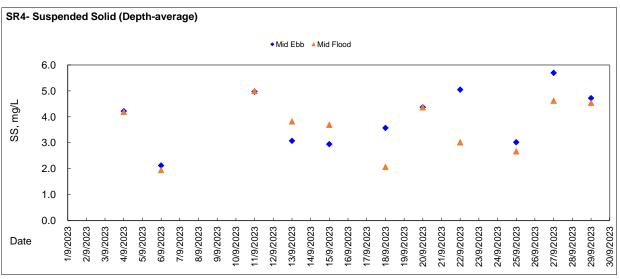




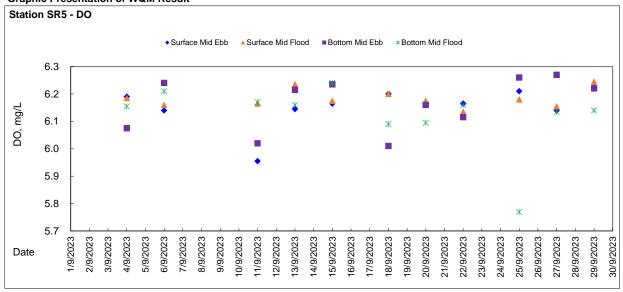


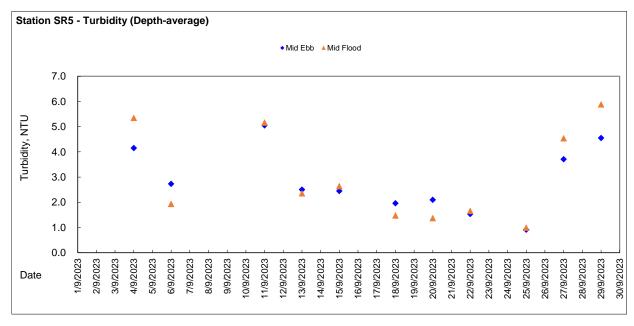


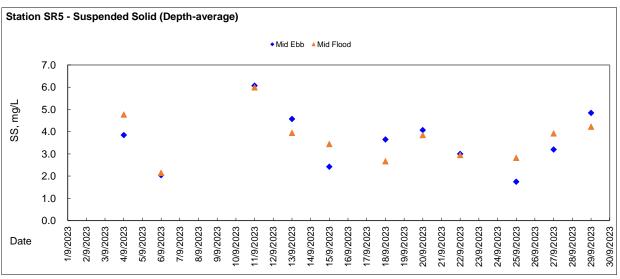




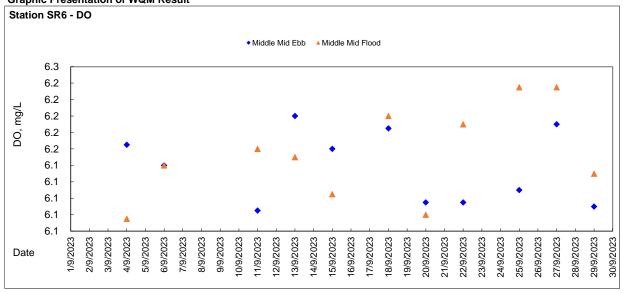


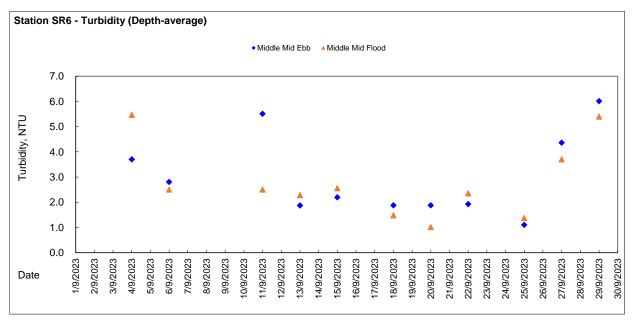


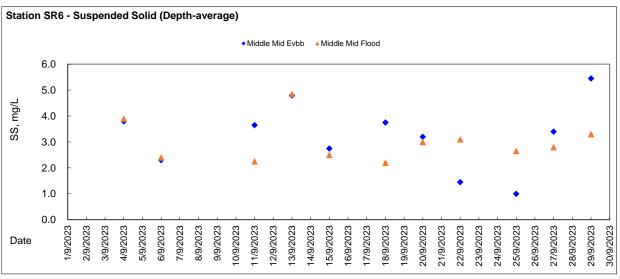




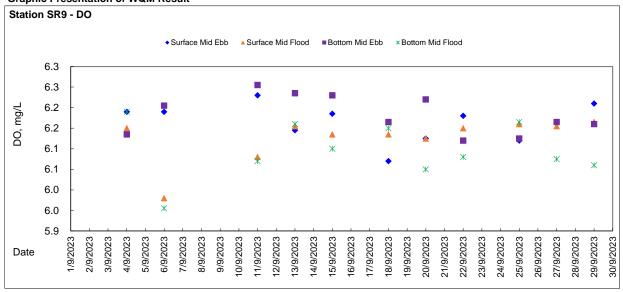


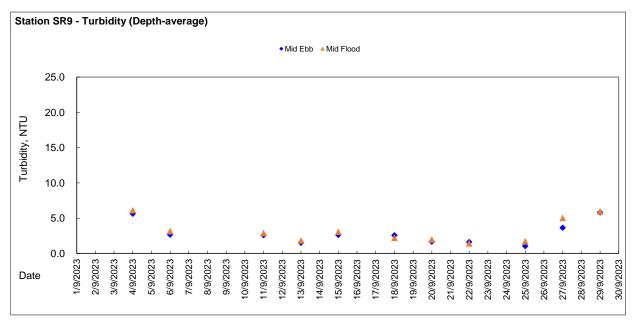


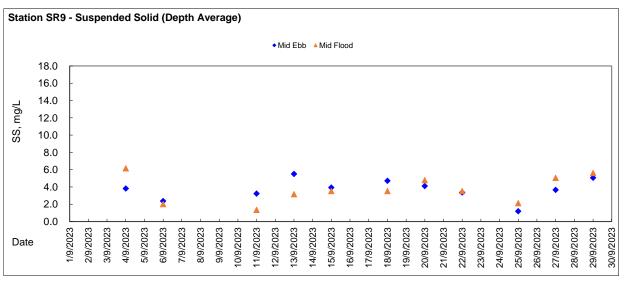




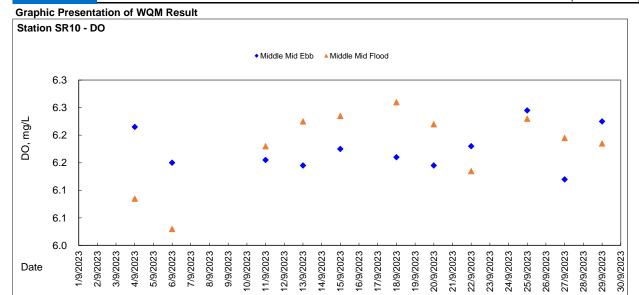


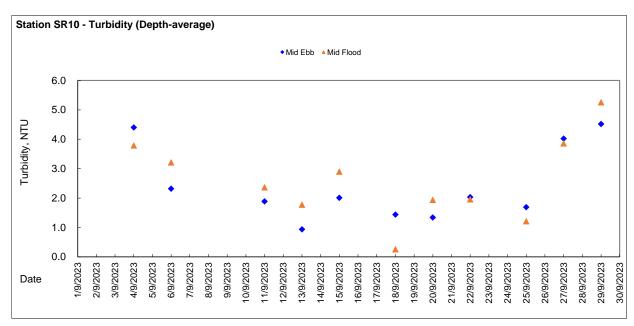


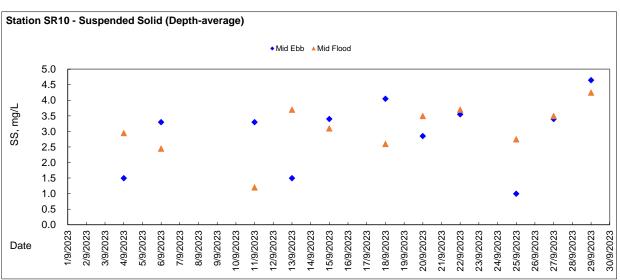




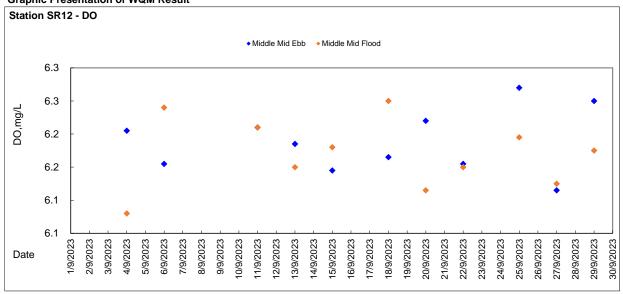


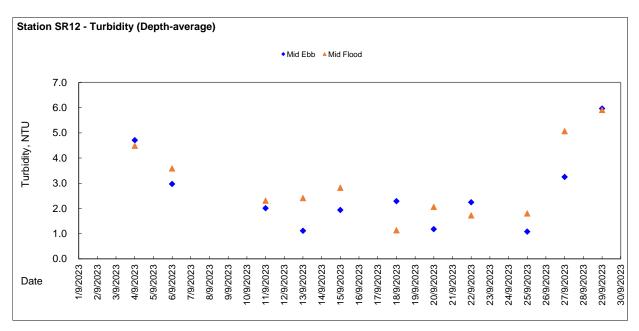


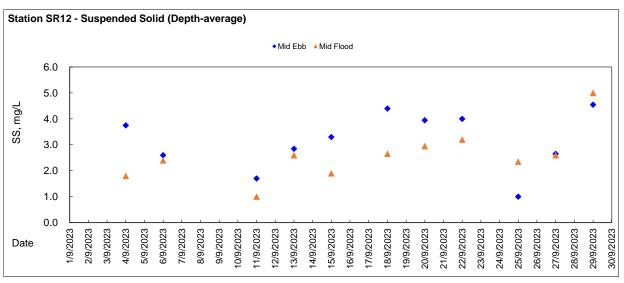




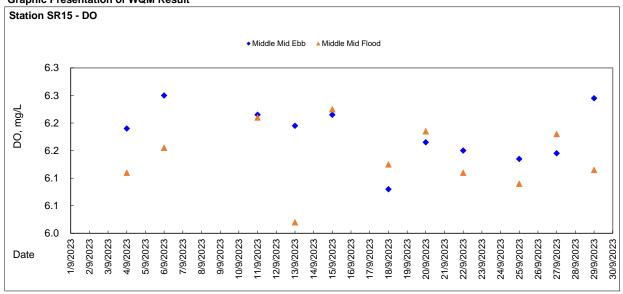


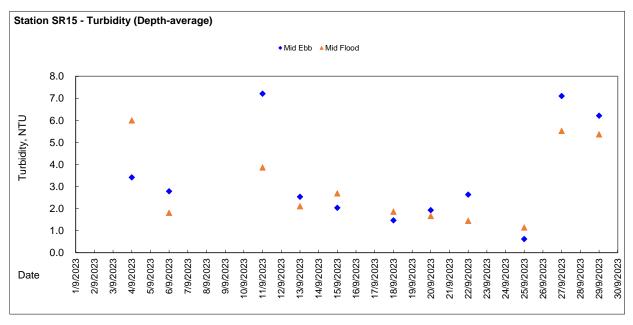


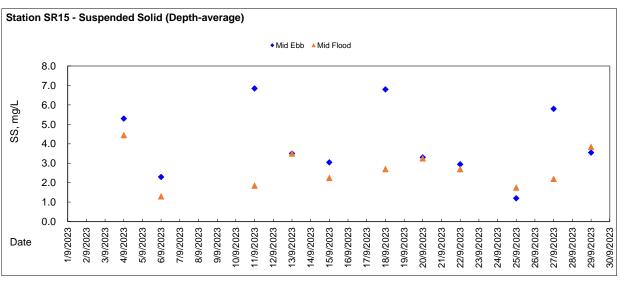












Impact Water Quality Monitoring at Station SR4 (surface) - Ebb Tide

0.1.04	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature	F	Н	Salii			turation	DO	_	Turb			SS
Station Reference	Date	weather	Time			٥				pr			%	mg		NT			ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancelle	d due to ad	verse weath	er						
	4/9/2023	Cloudy	15:06	3.7	1.0	24.60	24 65	8.02	8.03	33.96	33.97	88.30	88.05	6.09	6.06	3.39	3.34	4.9	
	4/3/2023	Cioddy	15:07	3.7	1.0	24.70	24.03	8.04	0.03	33.97	33.81	87.80	00.00	6.02	0.00	3.28	3.34	4.6	
	6/9/2023	Cloudy	16:51	3.6	1.0	24.8.	24.70	8.01	8.02	33.65	33.65	83.30	82.95	6.19	6.16	2.47	2.54	2.4	
	0/0/2020	Oloudy	16:52	3.6	1.0	24.70	24.70	8.02	0.02	33.65	00.00	82.60	02.00	6.13	0.10	2.60	2.04	2.6	
	8/9/2023	Black Rain							WQM	was cancelle	d due to ad	verse weath	er						
	11/9/2023	Cloudy	9:55	5.4	1.0	25.90	25.45	7.92	7.92	31.44	31.45	80.20	80.35	6.18	6 19	7.05	7.00	5.3	
	11/9/2023	Cidudy	9:56	5.4	1.0	25.00	25.45	7.91	7.92	31.46	31.45	80.50	00.33	6.20	0.19	6.95	7.00	5.0	1
	13/9/2023	Fine	11:21	3.8	1.0	25.50	25.60	7.98	7 98	30.20	30.23	83.74	83.37	6.25	6.23	2.22	2.36	3.3	
	13/9/2023	rille	11:22	3.8	1.0	25.70	25.00	7.98	7.90	30.25	30.23	83.00	03.37	6.20	0.23	2.50	2.30	3.7	
SR4	15/9/2023	Fine	12:12	3.5	1.0	25.60	25.65	8.09	8.09	31.31	31.31	83.50	83.60	6.22	624	2.19	2.15	2.8	
OI(4	13/3/2023	1 1110	12:13	3.5	1.0	25.70	25.05	8.09	0.03	31.30	31.31	83.70	03.00	6.25	0.24	2.10	2.15	2.7	
	18/9/2023	Fine	13:59	3.8	1.0	26.60	26.70	8.28	8 29	31.19	30.70	80.20	80.70	6.05	6.08	1.78	1.83	3.4	
	10/8/2023	1 1110	14:00	3.8	1.0	26.80	20.70	8.30	0.25	30.21	30.70	81.20	00.70	6.11	0.00	1.87	1.00	3.2	
	20/9/2023	Fine	15:04	3.8	1.0	27.20	27.25	8.36	8.35	27.94	27.96	82.60	81.95	6.16	6.13	1.63	1.68	5.0	
	LOIGIZOZO	1 1110	15:05	3.8	1.0	27.30	27.20	8.34	0.00	27.98	27.00	81.30	01.00	6.09	0.10	1.73	1.00	4.7	
	22/9/2023	Fine	7:15	3.1	1.0	27.40	27.35	8.24	8 23	29.21	29.20	84.50	84.55	6.25	6.26	2.75	2 70	4.7	
			7:16	3.1	1.0	27.30		8.22		29.19		84.60		6.26		2.65		4.4	
	25/9/2023	Fine	8:31	3.5	1.0	27.60	27.60	8.42	8 43	28.60	28.60	82.90	83.85	6.20	6.24	0.28	0.34	4.0	
			8:32	3.5	1.0	27.60		8.44		28.59		84.80		6.27		0.39		3.6	
	27/9/2023	Fine	10:10	3.8	1.0	27.20	27.30	8.09	8.10	31.00	31.01	83.10	82.55	6.16	6.13	6.15	6.25	4.6	
			10:11	3.8	1.0	27.40		8.10		31.02		82.00		6.10		6.34		5.1	
	29/9/2023	Fine	11:22	3.8	1.0	26.80	26.90	8.19	8.19	32.00	32.01	83.30	83.50	6.23	6.24	6.25	6.31	4.2	
			11:23	3.8	1.0	27.00	_0.00	8.18	0.15	32.02	-2.01	83.70	30.00	6.25	0.24	6.37	0.01	4.5	1

General Note

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

am

Lam Environmental Services Limited

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

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature C	F	Н		inity		aturation	D	_		bidity	_	SS
Station Reference	Date	vv eatrier	Time		- "	Value	AVG	Value	AVG		AVG		% AVG	Value mg	AVG	Value	TU AVG	Value	mg/L AVG
				m	m	value	AVG	value	AVG	value	AVG	value	AVG	value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancell	ed due to ad	verse weath	ner						
	4/9/2023	Cloudy	8:49	3.2	1.0	24.20	24 20	8.02	8.01	33.92	33.93	82.90	83.10	6.19	6.20	6.87	6.75	5.0	5.3
	4/0/2020	Oloudy	8:50	3.2	1.0	24.20	24.20	8.00	0.01	33.94	00.00	83.30	00.10	6.21	0.10	6.62	0.70	5.5	5
	6/9/2023	Cloudy	10:48	3.3	1.0	24.80	24.80	7.96	7 97	33.54	33.55	83.80	82 45	6.27	6.21	2.39	2.47	, 2.6	
	0/3/2023	Cioudy	10:49	3.3	1.0	24.80	24.00	7.97	1.01	33.55	33.33	81.10	02.40	6.14	0.21	2.54	2.41	2.4	4
	8/9/2023	Black Rain							WQM	was cancell	ed due to ad	verse weath	ner						
	11/9/2023	Cloudy	15:49	3.1	1.0	24.90	24 90	8.02	8.02	29.94	29.95	81.70	81.00	6.22	6.19	2.57	2.60	2.2	2 2.2
	11/9/2023	Ciouay	15:50	3.1	1.0	24.90	24.90	8.02	8.02	29.95	29.95	80.30	81.00	6.15	6.19	2.62	2.60	2.1	1 2.2
	13/9/2023	Fine	18:24	3.2	1.0	25.70	25.75	8.05	8.05	30.53	30.53	83.30	83.85	6.13	6 16	2.14	2.12	4.4	4 4.3
	13/9/2023	FINE	18:25	3.2	1.0	25.80	25.75	8.04	0.05	30.52	30.53	84.40	03.00	6.19	0.10	2.09	2.12	4.1	1 4.3
SR4	15/9/2023	Fine	18:09	3.2	1.0	25.80	25.80	8.17	8 18	31.20	31.20	83.70	83.40	6.24	6.21	2.01	2.13	3.0	0 3.2
3104	15/9/2023	FINE	18:10	3.2	1.0	25.80	25.00	8.18	0.10	31.20	31.20	83.10	03.40	6.18	0.21	2.25	2.15	3.4	4 3.2
	18/9/2023	Fine	8:01	3.3	1.0	26.10	26.10	8.15	8 15	31.19	30.70	89.20	88.80	6.17	6.15	1.97	2.01	3.1	1 1.6
	10/3/2023	1 1110	8:02	3.3	1.0	26.10	20.10	8.15	0.13	30.21	30.70	88.40	00.00	6.12	0.13	2.05	2.0		
	20/9/2023	Fine	9:10	3.5	1.0	27.00	27.10	1.95	1.86	28.37	28.37	83.90	83.60	6.20	6.18	1.95	1.86	4.6	6 4.8
	20/9/2023	FINE	9:11	3.5	1.0	27.20	27.10	1.77	1.00	28.37	20.31	83.30	03.00	6.15	0.10	1.77	1.00	5.0) 4.0
	22/9/2023	Fine	16:39	3.6	1.0	27.60	27 65	8.43	8 44	27.05	27.04	85.10	84.95	6.13	6.12	1.10	1.19	2.9	9 2.8
	22/8/2023	1 1110	16:40	3.6	1.0	27.70	27.00	8.44	0.44	27.02	27.04	84.80	04.55	6.11	0.12	1.28	1.10	2.6	3
	25/9/2023	Fine	16:59	3.2	1.0	27.80	27.80	8.37	8.37	28.84	28.84	89.50	89.05	6.25	6.19	1.63	1.51	1.4	1.3
	LOIGILOLO	1 1110	17:00	3.2	1.0	27.80	27.00	8.37	0.07	28.83	20.04	88.60	00.00	6.13	0.10	1.39	1.0	1.2	2
	27/9/2023	Fine	17:43	3.3	1.0	27.30	27.40	8.18	8 17	30.86	30.86	84.30	84.00	6.20	6.18	4.98	5.01	3.8	3.7
	277072023	110	17:44	3.3	1.0	27.50	27.40	8.16	0.17	30.85	30.00	83.70	34.00	6.16	0.10	5.03	3.0	3.5	5
	29/9/2023	Fine	18:37	3.2	1.0	27.90	27.85	8.20	8.20	31.56	31.57	84.10	83.95	6.22	6.21	5.81	5.74	5.3	
			18:38	3.2	1.0	27.80	27.00	8.20	0.20	31.57		83.80	50.50	6.19	0.1.1	5.67	0.7-	4.9	3

General Note:

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

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature C	F	Н		inity		aturation %		00		bidity TU		SS ng/L
Station Nereitarice	Date	vv cau ici	Time	m	m	Value	AVG	Value	AVG	Value	pt AVG	Value	% AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8				value	AVO	value			ed due to ad			value	AVO	vaide	AVO	value	AVO
	4/9/2023	Cloudy	15:08	3.7	2.7	24.40	24.50	8.02	8.04	34.07	34.06	89.50	89.80	6.17	6.20	4.96	5 10	3.6	3.7
	4/3/2023	Cioudy	15:09	3.7	2.7	24.60	24.50	8.05	0.04	34.05	34.00	90.10	05.00	6.22	0.20	5.23	3.10	3.8	3.7
	6/9/2023	Cloudy	16:53	3.6	2.6	24.60	24 60	8.00	8.00	33.77	33.76	83.40	82 80	6.20	6.16	3.55	3.39	1.8	
	0/0/2020	Cioudy	16:54	3.6	2.6	24.60	24.00	8.00	0.00	33.75	00.70	82.20	02.00	6.12	0.10	3.23	0.00	1.7	
	8/9/2023	Black Rain							WQM	was cancell	ed due to ad	verse weath	ner						
	11/9/2023	Cloudy	9:59	5.4	4.4	25.10	25.05	7.93	7 94	31.54	31.55	84.90	83.50	6.28	6.22	6.58	6.62	4.8	4.8
	11/9/2023	Cloudy	10:00	5.4	4.4	25.00	25.05	7.95	7.94	31.55	31.33	82.10	03.30	6.16	0.22	6.65	0.02	4.8	4.0
	13/9/2023	Fine	11:23	3.8	2.8	25.70	25.55	7.97	7.98	30.57	30.56	83.00	82 60	6.20	6.17	1.88	1 94	2.5	2.7
	13/8/2023	Tille	11:24	3.8	2.8	25.40	25.55	7.98	7.50	30.55	30.30	82.20	02.00	6.13	0.17	2.00	1.54	2.8	
SR4	15/9/2023	Fine	12:14	3.8	2.5	25.60	25 60	8.07	8.09	31.25	31.25	82.00	81.95	6.12	6.12	1.99	2 04	3.3	
****			12:15	3.5	2.5	25.60		8.10		31.24	0.1120	81.90		6.11	****	2.08		3.0	
	18/9/2023	Fine	14:01	3.8	2.8	26.70	26.70	8.27	8 27	30.18	30.18	79.20	79.35	5.98	5.99	2.75	2.83	4.0	
			14:02	3.8	2.8	26.70		8.27		30.18		79.50		6.00		2.90		3.7	
	20/9/2023	Fine	15:06	3.8	2.8	27.00	27.15	8.34	8.33	27.79	27.80	82.10	82.90	6.19	6.22	2.23	2.13	4.1	
			15:07	3.8	2.8	27.30		8.31		27.81		83.70		6.25		2.02		3.7	
	22/9/2023	Fine	7:17	3.1	2.1	27.30	27.35	8.26	8.26	28.96	28.95	81.00	81.10	6.04	6.05	2.14	2.27	5.7	
			7:18	3.1	2.1	27.40		8.26		28.94		81.20		6.05		2.39		5.4	_
	25/9/2023	Fine	8:33	3.5	2.5	27.70	27.65	8.43	8.43	28.78	28.79	84.80	84.65	6.27	6.25	1.45	1.37	2.1	
			8:34	3.5	2.5	27.60		8.43		28.80		84.50		6.23		1.29		2.4	
	27/9/2023	Fine	10:12	3.8	2.8	27.30 27.40	27.35	8.10 8.10	8.10	31.00	31.01	84.30 83.00	83.65	6.21	6.18	7.90 7.65	7.78	6.3	
			10:13	3.8	2.8							83.00 83.10							
	29/9/2023	Fine	11:24	3.8	2.8	27.10	27.05	8.20 8.20	8.20	31.68 31.65	31.67	83.10 82.00	82.55	6.18	6.16	4.96 4.87	4.92	5.3 4.9	
		1	11:25	3.8	2.8	27.00	1	8.20	1	31.65		82.00	1	6.13	1	4.87	ſ	4.9	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 SR4 (Bottom) - Flood Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature C	F	Н		inity		turation %		0		bidity TU		SS ng/L
Station Nereitario	Date	vv eatrier	Time	m	m		AVG	Value	AVG	Value	AVG		AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8				Value	AVO	value			ed due to ad			value	AVO	vaide	AVO	value	AVO
	4/9/2023	Cloudy	8:51	3.2	2.2	24.50	24 45	8.00	8.01	34.26	34.27	81.20	81.35	6.17	6 18	7.93	8.01	3.6	3.2
	4/3/2023	Cioudy	8:52	3.2	2.2	24.40	24.45	8.02	0.01	34.27	34.27	81.50	01.33	6.19	0.10	8.08	0.01	2.7	J.2
	6/9/2023	Cloudy	10:50	3.3	2.3	24.90	24.85	7.98	7 98	33.57	33.57	82.50	81.65	6.16	611	1.77	1.88	1.6	
	0/0/2020	Oloudy	10:51	3.3	2.3	24.80	24.00	7.98	7.50	33.57	00.07	80.80	01.00	6.06	0.11	1.98	1.00	1.2	
	8/9/2023	Black Rain							WQM	was cancell	ed due to ad	verse weath	er						
	11/9/2023	Cloudy	15:51	3.1	2.1	25.10	25.05	8.00	8.01	30.75	30.74	81.30	81.25	6.19	6 18	6.98	7 13	7.7	7.9
	11/9/2023	Cidudy	15:52	3.1	2.1	25.00	25.05	8.02	0.01	30.73	30.74	81.20	01.25	6.17	0.10	7.28	7.13	8.0	7.5
	13/9/2023	Fine	18:26	3.2	2.2	25.70	25.65	8.04	8.05	30.70	30.71	83.00	82 85	6.17	6 17	2.07	1.96	3.6	3.4
	13/8/2023	1 1110	18:27	3.2	2.2	25.60	25.05	8.05	0.00	30.71	30.71	82.70	02.00	6.16	0.17	1.84	1.50	3.2	
SR4	15/9/2023	Fine	18:11	3.2	2.2	25.70	25 65	8.16	8 15	31.36	31.37	82.00	81.80	6.12	6.11	2.21	2 16	4.0	4.2
****			18:12	3.2	2.2	25.60		8.14		31.38		81.60		6.09		2.10		4.4	
	18/9/2023	Fine	8:03	3.3	2.3	26.20	26 15	8.15	8 16	30.18	30.18	88.70	88.25	6.13	6.08	2.12	2.06	2.5	
			8:04	3.3	2.3	26.10		8.16		30.18		87.80		6.02		2.00		2.7	
	20/9/2023	Fine	9:12	3.5	2.5	27.10	27.20	1.34	1.39	28.39	28.40	81.20	80.75	6.06	6.02	1.34	1.39	4.1	
			9:13	3.5	2.5	27.30		1.43		28.41		80.30		5.97		1.43		3.8	
	22/9/2023	Fine	16:41	3.6	2.6	27.60	27.70	8.42	8.42	26.82	26.81	85.10	85.20	6.12	6.13	1.97	1.85	3.1	
			16:42	3.6	2.6	27.80		8.41		26.80		85.30		6.13		1.72		3.5	
	25/9/2023	Fine	17:01	3.2	2.2	27.80	27.85	8.40	8.39	28.78	28.79	88.60	88.40	6.13	6.12	1.28	1.33	4.3	
			17:02	3.2	2.2	27.90		8.38		28.80		88.20		6.10		1.37		3.8	
	27/9/2023	Fine	17:45	3.3	2.3	27.30	27.30	8.18 8.20	8.19	30.92	30.91	82.30 83.90	83.10	6.18	6.21	3.45	3.41	5.4	
			17:46	3.3	2.3	27.30				30.90									
	29/9/2023	Fine	18:39	3.2	2.2	27.60	27.60	8.20 8.19	8.20	31.55 31.55	31.55	83.10 82.20	82.65	6.17	6.14	4.83	4.78	3.8 4.2	
			18:40	3.2	2.2	27.60		8.19		31.55		82.20		6.10		4.72		4.2	

General Note:

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sali	,		turation		00		oidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С			pr			%	m			TU		ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancelle	d due to ad	verse weath	er						
	4/9/2023	Cloudy	14:57	4.2	1.0	24.50	24.60	8.05	8.05	33.95	33.96	80.20	80.35	6.18	6.19	3.36	3.30	3.4	i .
	4/3/2023	Cioudy	14:58	4.2	1.0	24.70	24.00	8.05	0.00	33.97	33.80	80.50	00.33	6.20	0.15	3.23	3.30	5.2	
	6/9/2023	Cloudy	16:42	4.1	1.0	24.70	24.70	8.03	8.02	33.73	33.72	81.60	82.50	6.08	6 14	2.76	2.67	1.7	
	6/9/2023	Cioudy	16:43	4.1	1.0	24.70	24.70	8.01	0.02	33.70	33.12	83.40	02.50	6.20	0.14	2.58	2.07	1.4	
	8/9/2023	Black Rain							WQM	was cancelle	d due to ad	verse weath	er						
	11/9/2023	Cloudy	10:08	4.0	1.0	25.10	25.05	7.94	7 94	31.72	31 71	79.40	79.95	5.89	5.96	5.29	5.30	5.2	!
	11/9/2023	Cioudy	10:09	4.0	1.0	25.00	25.05	7.94	7.94	31.69	31./1	80.50	79.95	6.02	5.96	5.31	5.30	5.7	1
	13/9/2023	Fine	11:33	5.0	1.0	26.60	26 10	8.00	8.01	30.41	30.41	81.90	81.95	6.14	6.15	2.19	2 28	4.0	1
	13/9/2023	Fine	11:34	5.0	1.0	25.60	26.10	8.01	8.01	30.41	30.41	82.00	81.95	6.15	6.15	2.36	2.28	3.7	-
SR5	15/9/2023	Fine	12:24	4.2	1.0	25.80	25.80	8.09	8 45	30.56	30.55	83.00	82 50	6.20	6.17	2.31	2 29	2.8	
SKS	15/9/2023	FILLE	12:25	3.9	1.0	25.80	25.00	8.80	0.40	30.54	30.55	82.00	02.50	6.13	0.17	2.27	2.29	2.5	
	18/9/2023	Fine	13:51	4.2	1.0	26.40	26.55	8.27	8.26	30.16	30 18	86.10	85.85	6.22	6.20	1.87	1.84	3.2	!
	18/9/2023	Fine	13:52	4.2	1.0	26.70	26.55	8.24	8.26	30.20	30.18	85.60	85.85	6.18	6.20	1.81	1.84	3.5	
	20/9/2023	Fine	14:56	4.1	1.0	27.00	27.15	8.35	8.33	28.07	28.08	81.10	81.90	6.12	6.17	2.07	2.09	4.8	
	20/9/2023	FILLE	14:57	4.1	1.0	27.30	27.15	8.30	0.33	28.09	20.00	82.70	01.90	6.21	0.17	2.10	2.09	4.4	
	22/9/2023	Fine	7:27	3.6	1.0	28.00	28 15	8.33	8.34	27.32	27.33	87.40	87.60	6.15	6.17	1.82	1.73	2.6	
	22/9/2023	FILLE	7:28	3.6	1.0	28.30	20.15	8.35	0.34	27.34	21.33	87.80	07.00	6.18	0.17	1.64	1.73	2.4	
	25/9/2023	Fine	8:44	4.2	1.0	27.50	27 55	8.40	8.39	28.80	28 79	84.40	84.20	6.22	6.21	1.07	0.98	1.2	!
	23/3/2023	1 1110	8:45	4.2	1.0	27.60	21.55	8.37	0.35	28.77	20.75	84.00	04.20	6.20	0.21	0.88	0.50	1.4	
	27/9/2023	Fine	10:23	4.2	1.0	27.40	27 40	8.10	8.09	30.71	30.71	81.90	82.05	6.12	6 14	3.61	3.73	2.6	
	21/9/2023	FILLE	10:24	4.2	1.0	27.40	27.40	8.08	0.09	30.70	30.71	82.20	02.05	6.16	0.14	3.85	3.73	2.9	1
	29/9/2023	Fine	11:35	4.2	1.0	27.20	27.20	8.18	8.19	31.66	31.65	83.30	83.50	6.21	6.23	4.55	4.47	5.4	
	20/0/2023	1.116	11:36	4.2	1.0	27.20	21.20	8.19	0.19	31.64	31.03	83.70	03.50	6.24	0.23	4.39	4.47	5.0	

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

Station Reference	Sampling	Weather	Sampling	Water	Sampling Depth		erature		Н		inity		aturation		0		bidity	_	SS
Station Reference	Date	vveatner	Time				C			Value p	AVG		% AVG	Meli in	g/L AVG		TU AVG		ng/L AVG
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancelle	ed due to ad	verse weath	ner						
	4/9/2023	Cloudy	9:01	3.8	1.0	24.30	24 40	8.04	8.03	33.74	33.73	80.30	80.60	6.15	6.19	5.37	5.31	4.3	4.7
	4/3/2023	Cioudy	9:02	3.8	1.0	24.50	24.40	8.01	0.03	33.72	35.73	80.90	00.00	6.22	0.15	5.24	5.51	5.1	4.7
	6/9/2023	Cloudy	11:01	3.8	1.0	24.70	24.80	7.99	7.99	33.56	33.58	83.20	82.55	6.21	6.16	2.05	1.98	1.6	1.8
	0/0/2020	Cioday	11:02	3.8	1.0	24.90	24.00	7.99	7.00	33.59	00.00	81.90	02.00	6.11	0.10	1.90	1.00	1.9	
	8/9/2023	Black Rain							WQM	was cancelle	ed due to ad	verse weath	ner						
	11/9/2023	Cloudy	15:41	3.7	1.0	25.00	25.00	7.98	7.99	30.05	30.04	88.00	87.70	6.18	6.17	2.96	3.02	3.2	3.1
	11/8/2023	Cioudy	15:42	3.7	1.0	25.00	25.00	8.00	1.55	30.02	30.04	87.40	07.70	6.15	0.17	3.07	3.02	2.9] "
	13/9/2023	Fine	18:17	4.6	1.0	25.70	25.75	8.05	8.05	30.46	30.45	84.20	84.05	6.25	6.24	2.01	1.95	2.7	2.9
	10/0/2020	1 1110	18:18	4.6	1.0	25.80	20.70	8.05	0.00	30.44	00.40	83.90	04.00	6.22	0.14	1.89	1.00	3.0	20
SR5	15/9/2023	Fine	18:01	3.5	1.0	25.90	25.85	8.20	8.20	30.40	30.41	83.10	83.00	6.18	6.18	2.30	2 15	3.0	2.8
Orto	TOTOTECEO	1 1110	18:02	3.5	1.0	25.80	20.00	8.19	0.20	30.41	00.41	82.90	00.00	6.17	0.10	1.99	2.10	2.6	
	18/9/2023	Fine	8:13	3.8	1.0	26.80	26.75	8.20	8 20	30.16	30.18	88.80	89.25	6.17	6.20	1.32	1.21	2.2	2.4
	TOTOTECES	1 1110	8:14	3.8	1.0	26.70	20.70	8.19	0.20	30.20	00.10	89.70	00.20	6.23	0.10	1.10	1.21	2.5	2
	20/9/2023	Fine	9:22	3.7	1.0	27.40	27.35	1.42	1.57	28.26	28.26	82.10	82 40	6.16	6.18	1.42	1.58	3.3	
	LUIDILOLO	1 1110	9:23	3.7	1.0	27.30	27.00	1.71	1.07	28.25	20.20	82.70	02.40	6.19	0.10	1.74	1.00	3.7	
	22/9/2023	Fine	16:31	3.8	1.0	28.30	28.20	8.41	8 42	27.21	27.20	89.10	88.05	6.18	614	1.61	1 73	3.8	
			16:32	3.8	1.0	28.10		8.43		27.19		87.00		6.09		1.84		3.4	
	25/9/2023	Fine	16:51	3.8	1.0	27.70	27 70	8.40	8 40	28.72	28.72	86.50	87.20	6.13	6 18	0.97	0.87	4.2	
			16:52	3.8	1.0	27.70	27.70	8.39	0.40	28.72		87.90	37.20	6.23	0.10	0.76	0.01	3.8	
	27/9/2023	Fine	17:34	3.7	1.0	27.50	27.45	8.17	8.17	30.76	30.76	81.90	82.10	6.14	6.16	4.81	4.87	4.5	
			17:35	3.7	1.0	27.40		8.17		30.75	,	82.30	,	6.17		4.93		4.2	
	29/9/2023	Fine	18:29	3.6	1.0	27.70	27.70	8.21 8.20	8.21	31.56 31.57	31.57	85.10 83.80	84.45	6.27	6.24	5.53 5.67	5.60	3.6	
			18:30	3.6	1.0	27.70		8.20		31.57		83.80		6.22		5.67		4.0	

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

Station Reference	Sampling	Weather	Sampling	Water	Sampling Depth		erature	F	Н		linity		turation		00		bidity		SS
Station Reference	Date	vveatner	Time	m	- '	Value	AVG	Value	AVG	Value	pt AVG	Value	% AVG	Value	g/L AVG	Value N	TU AVG	Value n	ng/L AVG
		Typhoon		m	m	value	AVG	value	AVG	value	AVG	value	AVG	value	AVG	value	AVG	value	AVG
	1/9/2023	Signal no. 8							WQM	was cancell	ed due to ac	verse weath	er						
	4/9/2023	Cloudy	15:00	4.2	3.2	24.50	24.55	8.04	8.03	34.02	34.01	79.40	79.80	6.05	6.08	5.05	5.01	2.8	
	40/2020	Oloudy	15:01	4.2	3.2	24.60	24.00	8.02	0.00	34.00	04.01	80.20	75.00	6.10	0.00	4.97	0.01	4.0	1
	6/9/2023	Cloudy	16:45	4.1	3.1	24.50	24.55	8.02	8.02	33.81	33.80	83.60	84.05	6.20	6.24	2.72	2.79	2.4	
	0/8/2023	Cioudy	16:46	4.1	3.1	24.60	24.55	8.01	0.02	33.79	33.00	84.50	04.03	6.28	0.24	2.86	2.10	2.7	. 2.0
	8/9/2023	Black Rain							WQM	was cancell	ed due to ac	verse weath	ier						
	11/9/2023	Cloudy	10:11	4.0	3.0	25.00	24.95	7.95	7.95	32.68	32.69	80.20	80.35	6.01	6.02	4.80	4.80	6.8	6.7
	11/9/2023	Cioudy	10:12	4.0	3.0	24.90	24.95	7.95	7.95	32.70	32.69	80.50	80.35	6.03	6.02	472	4.80	6.6	5 0.7
	13/9/2023	Fine	11:37	5.0	4.0	25.40	25.45	8.00	8.01	30.52	30.53	83.10	82.10	6.25	6.22	2.77	2 72	5.1	5.3
	13/9/2023	FILLE	11:38	5.0	2.9	25.50	25.45	8.01	0.01	30.54	30.53	81.10	02.10	6.18	0.22	2.67	2.12	5.5	
SR5	15/9/2023	Fine	12:26	4.2	2.9	25.80	25.75	8.09	8.09	30.82	30.83	83.10	83.70	6.18	6.24	2.53	2 60	2.1	
cnc	15/9/2023	FILLE	12:27	3.9	2.9	25.70	25.75	8.08	0.09	30.84	30.03	84.30	03.70	6.29	0.24	2.67	2.00	2.3	7
	18/9/2023	Fine	13:54	4.2	3.2	26.70	26.75	8.27	8.28	30.16	30.17	81.00	80.50	6.04	6.01	1.95	2.08	3.8	
	10/9/2023	FILLE	13:55	4.2	3.2	26.80	20.75	8.28	0.20	30.18	30.17	80.00	00.50	5.98	6.01	2.21	2.00	4.1	1 4.0
	20/9/2023	Fine	14:59	4.1	3.1	27.20	27.30	8.33	8.35	28.56	28.55	82.40	82.75	6.14	6.16	2.05	2.11	3.7	3.6
	20/9/2023	FILLE	15:00	4.1	3.1	27.40	21.30	8.37	0.33	28.54	20.55	83.10	02.75	6.18	0.10	2.17	2.11	3.4	3.0
	22/9/2023	Fine	7:29	3.6	2.6	28.30	28.30	8.35	8.36	27.94	27.94	85.00	85.10	6.11	6.12	1.23	1.34	3.3	3.5
	22/9/2023	FILLE	7:30	3.6	2.6	28.30	20.30	8.37	0.30	27.94	27.94	85.20	65.10	6.12	0.12	1.45	1.34	3.7	7 3.3
	25/9/2023	Fine	8:47	4.2	3.2	27.80	27 70	8.37	8.37	28.70	28.71	83.40	83.45	6.25	6.26	0.72	0.85	2.3	2.2
	25/9/2023	FILLE	8:48	4.2	3.2	27.60	21.10	8.37	0.31	28.71	20.71	83.50	03.40	6.27	0.20	0.97	0.65	2.1	
	27/9/2023	Fine	10:26	4.2	3.2	27.40	27 45	8.12	8 12	30.84	30.84	84.10	84.30	6.26	6.27	3.73	3.69	3.5	3.7
	27/9/2023	FILLE	10:27	4.2	3.2	27.50	27.45	8.12	0.12	3086	30.04	84.50	04.30	6.28	0.27	3.65	3.09	3.8	3.7
	29/9/2023	Fine	11:38	4.2	3.2	27.40	27.35	8.20	8.20	31.69	31.70	82.00	83.05	6.16	6.22	4.68	4.63	4.2	4.5
	201012U23	1 110	11:39	4.2	3.2	27.30	21.33	8.20	0.20	31.70	31.70	84.10	33.05	6.28	0.22	4.57	4.63	4.8	7.3
General Note:	For calculation of	of average concer	ntration of SS,	the minimum	value for "NO	T DETECTE	D" is treate	as 1.0mg/	L according	to reporting	limit.								

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Lam Environmental Services Limited

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

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature C	F	Н		inity pt		turation %	m	00		bidity TU		SS ng/L
Station Reference	Date	vv eatrier	Time	m	m		AVG	Value	AVG	Value	AVG		AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8				Value	,,,,,	vaido			ed due to ad			Value	,,,,,	Value	,,,,,	value	,,,,,
	4/9/2023	Cloudy	9:03	3.8	2.8	24.30	24 25	8.04	8.05	33.59	33.60	84.60	84.50	6.16	6.16	5.28	5.39	5.0	4.9
	4/3/2023	Cioudy	9:04	3.8	2.8	24.20	24.23	8.05	0.00	33.60	33.00	84.40	04.30	6.15	0.10	5.49	3.35	4.7	4.5
	6/9/2023	Cloudy	11:03	3.8	2.8	24.80	24.80	8.00	8.00	33.56	33.57	83.10	83.65	6.17	6.21	1.80	1.89	2.7	2.6
	0/3/2023	Cioddy	11:04	3.8	2.8	24.80	24.00	7.99	0.00	33.57	33.37	84.20	03.03	6.25	0.21	1.98	1.05	2.4	2.0
	8/9/2023	Black Rain							WQM	was cancell	ed due to ad	verse weath	er						
	11/9/2023	Cloudy	15:43	3.7	2.7	25.10	25.05	8.01	8.00	30.78	30.74	85.00	84.80	6.18	6.17	7.01	7.31	8.8	9.0
	11/9/2023	Cloudy	15:44	3.7	2.7	25.00	25.05	7.98	8.00	30.70	30.74	84.60	04.00	6.16	0.17	7.60	7.31	9.1	5.0
	13/9/2023	Fine	18:20	4.6	3.6	25.60	25.65	8.04	8.04	30.80	30.81	83.20	82 15	6.20	616	2.78	2 75	4.9	5.1
	10/0/2020	1 1110	18:21	4.6	3.6	25.70	20.00	8.04	0.04	30.82	00.01	81.10	02.10	6.12	0.10	2.72	20	5.2	
SR5	15/9/2023	Fine	18:03	3.5	2.5	25.60	25 65	8.13	8 13	30.79	31.30	84.30	84.60	6.21	6.24	3.01	3 13	3.9	
			18:04	3.5	2.5	25.70		8.13		31.81	0	84.90		6.27		3.25		4.3	
	18/9/2023	Fine	8:15	3.8	2.8	26.70	26 60	8.20	8 20	30.16	30 17	87.30	87.80	6.07	6.09	1.61	1 73	3.2	
			8:16	3.8	2.8	26.50		8.20	0.20	30.18		88.30	000	6.11	0.00	1.85		2.8	
	20/9/2023	Fine	9:24	3.7	2.7	27.30	27.25	1.06	1.16	29.05	29.04	81.10	80.60	6.12	6.10	1.06	1.16		4.2
			9:25	3.7	2.7	27.20		1.25		29.03		80.10		6.07		1.25		4.4	
	22/9/2023	Fine	16:33	3.8	2.8	28.20	28.20	8.44	8.44	27.94	27.96	88.60	89.00	6.13	6.16	1.42	1.59	2.4	
			16:34	3.8	2.8	28.20		8.44		27.97		89.40		6.19		1.75		2.2	
	25/9/2023	Fine	16:53	3.8	2.8	27.90	27.95	8.38	8.38	28.74	28.75	80.80	80.50	5.79	5.77	1.05	1.11	1.6	
			16:54	3.8	2.8	28.00		8.37		28.75		80.20		5.75		1.17		1.7	
	27/9/2023	Fine	17:36	3.7	2.7	27.60	27.50	8.14	8.14	30.84	30.82	82.10	81.95	6.15	6.14	4.19	4.21	3.7	
			17:37	3.7	2.7	27.40		8.14		30.80		81.80		6.12		4.23		3.3	
	29/9/2023	Fine	18:31	3.6	2.6	27.80	27.90	8.21	8.21	31.59	31.59	83.40	83.45	6.14	6.14	6.25	6.17	4.5	
	l	l	18:32	3.6	2.6	28.00		8.20	1	31.59		83.50		6.14		6.08		4.8	1

General Note:

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

0.1.04	Sampling		Sampling	Water	Sampling		erature	F	Н		inity		aturation		00		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С				pt		%		g/L		TU		ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancell	ed due to ac	lverse weath	ner						
	4/9/2023	Cloudy	14:49	2.7	1.4	24.70	24 75	8.05	8.04	33.96	33.95	82.10	81.85	6.19	6 17	3.40	3.70	3.4	3.8
	4/3/2023	Cioudy	14:50	2.7	1.4	24.80	24.73	8.02	0.04	33.94	33.53	81.60	01.00	6.14	0.17	4.00	3.70	4.2	3.0
	6/9/2023	Cloudy	16:33	2.7	1.4	24.70	24.75	8.02	8.02	33.71	33.72	83.40	82.50	6.20	6.14	2.86	2.81	2.4	2.3
	6/9/2023	Cidudy	16:34	2.7	1.4	24.80	24.75	8.01	0.02	33.73	33.12	81.60	02.30	6.08	0.14	2.75	2.01	2.2	2.5
	8/9/2023	Black Rain							WQM	was cancell	ed due to ac	lverse weath	ner						
	11/9/2023	Cloudy	10:19	2.6	1.3	25.00	25.05	7.94	7.93	31.69	31 70	80.60	81 10	6.05	6.09	5.49	5.51	3.8	3.7
	11/9/2023	Cidudy	10:20	2.6	1.3	25.10	25.05	7.92	7.93	31.71	31.70	81.60	01.10	6.12	6.09	5.53	5.51	3.5	3.7
	13/9/2023	Fine	11:44	2.7	1.4	25.60	25 65	8.04	8.03	30.42	30.41	84.90	83.75	6.24	6.20	1.98	1.87	5.0	4.8
SR6	13/8/2023	1 1110	11:45	2.7	1.4	25.70	25.05	8.02	0.03	30.40	30.41	82.60	03.73	6.16	0.20	1.76	1.07	4.6	4.0
one.	15/9/2023	Fine	12:35	2.7	1.4	25.80	25.80	8.09	8 10	30.58	30.59	82.90	82 40	6.19	6.16	2.29	2 20	2.9	2.8
	10/0/2020	1 1110	12:36	2.7	1.4	25.80	20.00	8.10	0.10	30.60	00.00	81.90	OL.40	6.13	0.10	2.10	2.20	2.6	2.0
	18/9/2023	Fine	13:42	2.7	1.4	26.50	26.55	8.25	8 25	30.16	30.19	81.20	81.35	6.17	6 19	1.72	1.88	3.9	
	10/0/2020	1 1110	13:43	2.7	1.4	26.60	20.00	8.25	0.20	30.21	00.10	81.50	01.00	6.20	0.10	2.03	1.00	3.6	
	20/9/2023	Fine	14:47	2.8	1.4	27.10	27 25	8.34	8.33	28.09	28 11	82.00	81.05	6.12	6.10	1.73	1.88	3.0	
			14:48	2.8	1.4	27.40		8.31	0.00	28.12		80.10		6.07		2.02		3.4	
	22/9/2023	Fine	7:38	2.4	1.2	28.60	28.50	8.36	8.37	27.44	27 44	82.50	81.85	6.12	6.10	1.98	1.93	1.4	
	ELI GILOLO	1 1110	7:39	2.4	1.2	28.40	20.00	8.37	0.07	27.43	27.44	81.20	01.00	6.07	0.10	1.87	1.00	1.5	
	25/9/2023	Fine	8:55	2.5	1.3	27.60	27 60	8.37	8.38	28.70	28 71	83.60	82 80	6.15	611	1.25	1 10	<1.0	1.0
	23.3.2020	. mo	8:56	2.5	1.3	27.60	_7.00	8.39	0.00	28.72	20.71	82.00	32.00	6.07	0.11	0.95	1.10	<1.0	1.0
	27/9/2023	Fine	10:35	2.7	1.4	27.40	27.45	8.11	8 11	30.82	30.81	83.10	83.25	6.17	6.19	4.41	4.37	3.6	
	ZZ0Z0		10:36	2.7	1.4	27.50		8.11	0.11	30.80	50.01	83.40	30.20	6.21	0.10	4.32	4.07	3.2	
	29/9/2023	Fine	11:45	2.7	1.4	27.40	27.30	8.17	8.19	31.66	31.66	81.90	83.90	6.13	6.16	6.06	6.02	5.6	
			11:46	2.7	1.4	27.20		8.20	0.10	31.65	7.1.00	85.90	70.00	6.18		5.97	0.02	5.3	

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

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature C	F	Н	Sal	inity		turation %	m	00		bidity TU		SS ng/L
Station Reference	Date	vv eatrier	Time	m	m		AVG	Value	AVG	Value	AVG		AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8				vaido	,,,,	Valdo			ed due to ad			74400	,,,,	Value	,,,,	value	,,,,,
	4/9/2023	Cloudy	9:11	2.3	1.2	24.30	24.30	8.03	8.03	33.62	33.62	81.00	81.50	6.04	6.08	5.53	5.48	4.3	3.9
	4/9/2023	Cidudy	9:12	2.3	1.2	24.30	24.30	8.03	0.03	33.62	33.02	82.00	61.50	6.11	0.00	5.42	3.46	3.5	3.9
	6/9/2023	Cloudy	11:12	2.5	1.3	24.90	24.90	8.01	8.01	33.58	33.57	83.60	82.35	6.20	6 14	2.64	2.51	2.2	2.4
	6/9/2023	Cloudy	11:13	2.5	1.3	24.90	24.90	8.00	6.01	33.56	33.57	81.10	02.33	6.08	0.14	2.37	2.51	2.6	2.4
	8/9/2023	Black Rain							WQM	was cancell	ed due to ad	verse weath	er						
	11/9/2023	Cloudy	15:32	2.3	1.2	24.80	24.85	8.04	8.03	30.05	30.04	81.20	81.35	6.15	6.16	2.49	2.51	2.1	2.3
	11/9/2023	Cidudy	15:33	2.3	1.2	24.90	24.00	8.02	0.03	30.02	30.04	81.50	01.33	6.17	0.10	2.52	2.51	2.4	2.5
	13/9/2023	Fine	18:07	2.4	1.2	25.80	25.85	8.05	8.05	30.22	30.22	81.80	81.00	6.18	6.15	2.18	2 29	5.0	4.9
SR6	13/8/2023	1 1110	18:08	2.4	1.2	25.90	25.05	8.05	0.00	30.21	30.22	80.20	01.00	6.12	0.13	2.39	2.25	4.7	4.5
SRb	15/9/2023	Fine	17:52	2.3	1.2	25.90	25.95	8.19	8.20	30.50	30.48	82.00	81.65	6.12	6.11	2.48	2.56	2.6	2.5
	10/0/2020	1 1110	17:53	2.3	1.2	26.00	20.00	8.20	0.20	30.46	00.40	81.30	01.00	6.09	0.11	2.64	2.00	2.4	2.0
	18/9/2023	Fine	8:24	2.4	1.2	26.80	26.75	8.21	8.21	30.16	30 19	90.10	89.80	6.22	6.20	1.40	1 49	2.3	2.2
			8:25	2.4	1.2	26.70		8.20	0.2.	30.21		89.50		6.18		1.57		2.1	
	20/9/2023	Fine	9:32	2.5	1.3	27.50	27.50	0.81	1.02	28.52	28.51	83.20	82.15	6.11	6.08	0.81	1.02	3.1	
			9:33	2.5	1.3	27.50		1.23		28.50		81.10		6.05		1.23		2.9	
	22/9/2023	Fine	16:22	2.7	1.4	28.00	27.90	8.41	8.40	27.27	27.29	84.20	84.35	6.18	6.19	2.42	2.36	3.0	
			16:23	2.7	1.4	27.80		8.38		27.30		84.50		6.20		2.30		3.2	
	25/9/2023	Fine	16:42	2.3	1.2	27.60	27.70	8.40	8.41	28.75	28.75	88.40	88.80	6.21	6.24	1.34	1.38	2.5	
			16:43	2.3	1.2	27.80		8.41		28.74		89.20		6.26		1.42		2.8	
	27/9/2023	Fine	17:26	2.4	1.2	27.50	27.60	8.18	8.19	30.81	30.82	84.20	83.80	6.27	6.24	3.61	3.71	3.0	
			17:27	2.4	1.2	27.70		8.20		30.83		83.40		6.20		3.80		2.6	
	29/9/2023	Fine	18:23	2.3	1.2	27.90	27.95	8.20	8.21	31.57	31.56	82.20	82.50	6.11	6.13	5.47	5.40	3.1	
			18:24	2.3	1.2	28.00		8.21	1	31.55		82.80		6.15		5.33		3.5	1

General Note:

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

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature	F	Н	Sal			aturation		00		bidity		SS
Station Reference	Date	vveatner	Time			Value	AVG	Value	AVG	Value	AVG		% AVG	M Value	g/L AVG		TU AVG	Value	AVG
		Typhoon		m	m	value	AVG	value	AVG	value	AVG	value	AVG	value	AVG	value	AVG	value	AVG
	1/9/2023	Signal no. 8							WQM	was cancelle	ed due to ad	verse weath	ner						
	4/9/2023	Cloudy	14:35	4.2	1.0	24.60	24.50	8.04	8.03	34.08	34.07	80.50	80.35	6.20	6.19	6.17	6.20	3.7	3
	4/3/2023	Cioudy	14:36	4.2	1.0	24.40	24.30	8.02	0.03	34.06	34.07	80.20	00.55	6.18	0.15	6.23	0.20	3.9	
	6/9/2023	Cloudy	16:19	4.1	1.0	24.70	24.60	8.02	8.03	33.95	33.94	81.60	82.70	6.12	6.19	2.32	2.37	1.6	1
	0/0/2020	Cioudy	16:20	4.1	1.0	24.50	24.00	8.04	0.00	33.93	00.04	83.80	02.70	6.26	0.10	2.42	2.07	1.4	
	8/9/2023	Black Rain							WQM	was cancelle	ed due to ad	verse weath	ner						
	11/9/2023	Cloudy	10:33	4.1	1.0	24.90	24.80	8.07	8.09	29.48	29.48	89.20	88.80	6.25	6.23	2.74	2.41	2.9	2
	11/9/2023	Cloudy	10:34	4.1	1.0	24.70	24.00	8.10	0.09	29.47	29.40	88.40	00.00	6.21	0.23	2.07	2.41	2.6	1 1
	13/9/2023	Fine	11:58	5.0	1.0	26.50	26.45	8.04	8.03	30.21	30.22	81.50	82 45	6.07	6.15	1.24	1.31	5.1	
	13/8/2023	Tille	11:59	5.0	1.0	26.40	20.43	8.02	0.03	30.22	30.22	83.40	02.40	6.22	0.13	1.37	1.51	4.8	,
SR9	15/9/2023	Fine	12:50	4.1	1.0	25.90	25.85	8.16	8 16	30.27	30.29	83.70	83.20	6.21	6 19	2.39	2 45	4.5	
	TOTOTECEO	1 1110	12:51	4.0	1.0	25.80	20.00	8.16	0.10	30.30	00.20	82.70	00.20	6.16	0.10	2.51	2.40	4.2	
	18/9/2023	Fine	13:29	4.1	1.0	27.00	27.10	8.24	8.24	30.08	30.10	82.00	82.95	6.02	6.07	2.09	2.15	3.2	
			13:30	4.1	1.0	27.20		8.24		30.11		83.90		6.12		2.21		3.6	
	20/9/2023	Fine	14:34	4.2	1.0	27.30	27.15	8.30	8.31	28.22	28.21	81.80	80.95	6.18	6.13	2.01	1.91	3.4	
			14:35	4.2	1.0	27.00	-	8.32		28.19		80.10		6.07		1.81		3.7	
	22/9/2023	Fine	7:52	3.8	1.0	28.10	28.05	8.40	8.39	27.41	27.43	84.00	84.50	6.15	6.18	1.42	1.51	3.1	
			7:53	3.8	1.0	28.00		8.37		27.44		85.00		6.21		1.60		2.8	
	25/9/2023	Fine	9:10	4.0	1.0	27.90	28.00	8.42	8.42	28.54	28.55	83.00	82.25	6.20	6.12	1.34	1.31	1.5	
			9:11	4.0	1.0	28.10		8.42		28.56		81.50		6.04		1.28		1.3	
	27/9/2023	Fine	10:50	4.1	1.0	27.30	27.35	8.17	8.19	30.83	30.82	81.80	81.70	6.17	6.17	3.36	3.27	2.6	
		l	10:51	4.1	1.0	27.40		8.20		30.80		81.60		6.16		3.17 4.72		2.4 5.6	
	29/9/2023	Fine	11:59		1.0	27.60	27.70	8.22	8.21	31.65	31.67	83.30	83.15		6.21		4.65		
	l	1	12:00	4.2	1.0	27.80	1	8.20	1	31.68	l	83.00	1	6.19	1	4.57	1	5.9	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 SR9 (surface) - Flood Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature C	F	Н		inity		turation	DC			bidity		SS
Station Reference	Date	vveatner	Time				AVG	Value	-	D Value	AVG		% AVG	Mg. Value			TU AVG		g/L AVG
				m	m	Value	AVG	value	AVG	Value	AVG	value	AVG	value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancelle	ed due to ad	verse weath	er						
	4/9/2023	Cloudy	9:25	3.9	1.0	24.40	24.20	8.02	8.03	34.09	34.10	85.90	85.45	6.18	615	6.97	6.78	5.8	5.8
	4/3/2023	Cioudy	9:26	3.9	1.0	24.00	24.20	8.03	0.00	34.10	34.10	85.00	00.40	6.12	0.13	6.59	0.70	5.7	0.0
	6/9/2023	Cloudy	11:26	3.9	1.0	24.60	24.55	8.03	8.02	33.97	33.98	81.10	80.45	6.05	5 98	3.09	3.04	1.9	1.8
	0/3/2023	Cioudy	11:27	3.9	1.0	24.50	24.55	8.01	0.02	33.99	33.80	79.80	00.40	5.91	3.50	2.98	3.04	1.6] "
	8/9/2023	Black Rain							WQM	was cancelle	ed due to ad	verse weath	er						
	11/9/2023	Cloudy	15:19	3.8	1.0	24.60	24 70	8.08	8.08	29.50	29.52	82.00	82.85	6.02	6.08	2.81	2.75	<1.0	1.0
	11/8/2023	Cioudy	15:20	3.8	1.0	24.80	24.70	8.07	0.00	29.53	20.02	83.70	02.00	6.14	0.00	2.69	2.73	<1.0	1.0
	13/9/2023	Fine	17:53	4.6	1.0	26.60	26.55	8.04	8.05	30.19	30.20	82.00	82 05	6.12	616	2.23	2 24	3.6	3.8
	13/3/2023	1 1110	17:54	4.6	1.0	26.50	20.55	8.06	0.00	30.21	30.20	82.10	02.00	6.19	0.10	2.25	2.24	4.0	3.0
SR9	15/9/2023	Fine	17:39	3.7	1.0	25.60	25.65	8.15	8 16	30.49	30.50	84.40	83.95	6.17	614	3.02	2 99	3.9	3.8
Orto	13/8/2023	1 1110	17:40	3.7	1.0	25.70	25.05	8.17	0.10	30.51	30.30	83.50	00.50	6.10	0.14	2.95	2.55	3.7	0.0
	18/9/2023	Fine	8:37	3.9	1.0	27.30	27.15	8.24	8.23	30.08	30.10	82.50	82.20	6.16	6 14	1.59	1 78	2.9	3.1
	10/0/2020	1 1110	8:38	3.9	1.0	27.00	27.10	8.22	0.20	30.11	00.10	81.90	OL.LO	6.11	0.14	1.98	1.70	3.2	0.1
	20/9/2023	Fine	9:47	3.8	1.0	27.00	27 10	8.30	8.30	28.20	28.21	81.90	81.95	6.12	6.13	2.27	2.22	5.6	5.4
	LOIDILOLO	1 1110	9:48	3.8	1.0	27.20	27.10	8.29	0.00	28.22	20.21	82.00	01.00	6.13	0.10	2.17		5.2	-
	22/9/2023	Fine	16:09	4.1	1.0	28.20	28 10	8.37	8.39	27.52	27.51	84.60	84 45	6.16	6.15	1.39	1.34	2.6	2.8
	LEIGIEGEG	1 1110	16:10	4.1	1.0	28.00	20.10	8.40	0.00	27.50	27.01	84.30	04.40	6.14	0.10	1.28	1.04	3.0	2.0
	25/9/2023	Fine	16:29	3.7	1.0	28.00	27.85	8.43	8 44	28.48	28.49	88.70	89.00	6.13	6.16	1.58	1.65	1.7	1.8
			16:30	3.7	1.0	27.70	_7.00	8.45	0.44	28.50	_0.40	89.30	35.00	6.19	5.10	1.72	1.00	1.9	
	27/9/2023	Fine	17:13	3.7	1.0	27.50	27 40	8.16	8 17	30.79	30.80	83.40	83.25	6.16	6.16	4.32	4 24	4.6	4.5
	LOEO		17:14	3.7	1.0	27.30	27.40	8.18	0.17	30.81	30.00	83.10	30.20	6.15	5.10	4.15	4.24	4.3	1
	29/9/2023	Fine	18:10	3.8	1.0	27.70	27.60	8.21	8.22	31.58	31.59	83.40	83.10	6.19	6.17	5.72	5.77	5.4	5.3
			18:11	3.8	1.0	27.50		8.23	1	31.60	, , , ,	82.80	,	6.14		5.82		5.2	1

General Note:

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

	Sampling		Sampling	Water	Sampling		erature	F	Н		inity		turation		00		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С		-		pt		%		g/L		TU		ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancell	ed due to ac	lverse weath	er						
	4/9/2023	Cloudy	14:38	4.2	3.2	24.70	24.80	8.05	8.05	34.00	33.98	84.70	84.80	6.13	6 14	5.02	5.07	4.0	3.9
	4/3/2023	Cioddy	14:39	4.2	3.2	24.90	24.00	8.04	0.00	33.96	33.50	84.90	04.00	6.14	0.14	5.11	3.07	3.7	3.5
	6/9/2023	Cloudy	16:22	4.1	3.1	24.60	24.65	8.04	8.04	34.02	34.02	83.70	82 75	6.27	6.21	2.95	2.94	3.0	3.3
	6/9/2023	Cidudy	16:23	4.1	3.1	24.70	24.00	8.03	0.04	34.01	34.02	81.80	02.75	6.14	0.21	2.93	2.94	3.5	3.3
	8/9/2023	Black Rain							WQM	was cancell	ed due to ac	lverse weath	er						
	11/9/2023	Cloudy	10:36	4.1	3.1	24.80	24.80	8.08	8.07	29.81	29.82	89.40	89.35	6.26	6.26	2.69	2 77	3.5	3.8
	11/9/2023	Cidudy	10:37	4.1	3.1	24.80	24.00	8.06	0.07	29.83	29.02	89.30	09.33	6.25	0.20	2.84	2.11	4.0	3.0
	13/9/2023	Fine	12:02	5.0	4.0	25.40	25.45	8.04	8.04	30.20	30.24	82.10	83.25	6.19	6.24	1.85	1.73	6.3	6.1
	13/8/2023	1 1110	12:03	5.0	3.0	25.50	25.45	8.03	0.04	30.28	30.24	84.40	03.23	6.28	0.24	1.61	1.73	5.9	0.1
SR9	15/9/2023	Fine	12:53	4.1	3.0	25.60	25.65	8.13	8 14	30.46	30.46	82.10	82 55	6.19	6.23	2.77	2.82	3.4	3.6
Ono	10/0/2020	1 1110	12:54	4.0	3.0	25.70	20.00	8.15	0.14	30.45	00.40	83.00	02.00	6.27	0.10	2.86	2.02	3.7	0.0
	18/9/2023	Fine	13:32	4.1	3.1	27.20	27 20	8.23	8.24	30.31	30.32	86.30	86.80	6.19	6 17	2.98	3.00	5.8	
	10/8/2023	1 1110	13:33	4.1	3.1	27.20	27.20	8.24	0.24	30.33	30.32	87.30	00.00	6.14	0.17	3.02	3.00	6.3	0.1
	20/9/2023	Fine	14:37	4.2	3.2	27.30	27 25	8.31	8.31	28.60	28 61	83.30	83.25	6.23	6.22	1.34	1 44	5.0	4.7
	201012020	1 1110	14:38	4.2	3.2	27.20	27.20	8.31	0.01	28.62	20.01	83.20	00.20	6.21	U.LL	1.54	1.44	4.4	4.7
	22/9/2023	Fine	7:54	3.8	2.8	28.00	28.00	8.36	8.36	28.09	28.08	83.10	83.40	6.10	6.12	1.85	1.73	3.6	
	ELI GILOLO	1 1110	7:55	3.8	2.8	28.00	20.00	8.36	0.00	28.07	20.00	83.70	00.40	6.14	0.12	1.60	1.70	4.0	
	25/9/2023	Fine	9:13	4.0	3.0	27.70	27 70	8.42	8 43	28.60	28 61	82.00	81.95	6.13	6.13	0.92	0.79	<1.0	1.0
	23.3.2020	. mo	9:14	4.0	3.0	27.70	_7.70	8.43	0.40	28.61	20.01	81.90	31.00	6.12	0.10	0.66	0.70	<1.0	1.0
	27/9/2023	Fine	10:53	4.1	3.1	27.40	27.30	8.16	8.16	30.93	30.94	82.70	82.10	6.20	6.17	3.95	4.00	5.0	
	ZZ0Z0		10:54	4.1	3.1	27.20	_7.00	8.16	0.10	30.95	30.04	81.50	32.10	6.13	0.11	4.05	4.00	4.7	
	29/9/2023	Fine	12:02	4.2	3.2	27.40	27 40	8.21	8.21	31.62	31.63	83.00	82 40	6.20	6.16	6.92	7.00	4.5	4.4
			12:03	4.2	3.2	27.40	27.40	8.21	0.21	31.64	31.00	81.80	32.40	6.12	0.10	7.08	7.00	4.3	

General Note:

lote: 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 SR9 (Bottom) - Flood Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature C	F	Н		inity		aturation %	m	00		bidity TU		SS ng/L
Station Reference	Date	vv cau ici	Time	m	m	Value	AVG	Value	AVG	Value	AVG		% AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8				Value	,,,,,	vaido			ed due to ad			Value	,,,,,	Value	,,,,,	value	,,,,,
	4/9/2023	Cloudy	9:27	3.9	2.9	24.30	24 25	8.02	8.03	34.16	34.16	89.20	89.35	6.18	6 19	5.37	5.45	5.8	6.6
	4/9/2023	Cloudy	9:28	3.9	2.9	24.20	24.23	8.03	0.03	34.16	34.10	89.50	09.33	6.20	0.19	5.53	5.45	7.4	0.0
	6/9/2023	Cloudy	11:28	3.9	2.9	24.60	24.65	8.03	8.04	34.00	34 01	80.50	79.60	6.03	5.96	3.19	3.27	2.2	2.3
	0/3/2023	Cioudy	11:29	3.9	2.9	24.70	24.03	8.04	0.04	34.02	34.01	78.70	75.00	5.88	3.50	3.35	3.21	2.4	2.0
	8/9/2023	Black Rain							WQM	was cancell	ed due to ad	verse weath	ner						
	11/9/2023	Cloudy	15:21	3.8	2.8	24.80	24.85	8.06	8.07	29.97	29.98	84.70	84.75	6.06	6.07	3.05	3.02	1.7	1.7
	11/9/2023	Cloudy	15:22	3.8	2.8	24.90	24.00	8.08	0.07	29.99	29.90	84.80	04.75	6.08	6.07	2.99	3.02	1.8	1.7
	13/9/2023	Fine	17:56	4.6	3.6	25.40	25.45	8.02	8.03	30.29	30.29	81.90	82 25	6.13	6.16	1.47	1 41	2.4	2.6
	10/0/2020	1 1110	17:57	4.6	3.6	25.50	20.40	8.03	0.00	30.28	00.20	82.60	OL.LO	6.19	0.10	1.35	15-41	2.7	
SR9	15/9/2023	Fine	17:41	3.7	2.7	25.80	25.70	8.13	8 13	30.68	30.68	82.20	82 05	6.12	6.10	3.09	3 13	3.2	
			17:42	3.7	2.7	25.60		8.13		30.67		81.90		6.08		3.17		3.4	
	18/9/2023	Fine	8:39	3.9	2.9	27.10	27.05	8.23	8 23	30.31	30.32	82.60	82.20	6.16	6.15	2.59	2 61	3.9	
			8:40	3.9	2.9	27.00		8.23	0.20	30.33		81.80		6.14		2.62		4.2	
	20/9/2023	Fine	9:49	3.8	2.8	27.30	27.25	8.30	8.31	28.54	28.55	80.90	80.70	6.07	6.05	1.85	1.69	4.1	
			9:50	3.8	2.8	27.20		8.32		28.55		80.50		6.03		1.53		4.3	_
	22/9/2023	Fine	16:12	4.1	3.1	28.00	27.95	8.35	8.35	28.12	28.14	85.00	84.75	6.12	6.08	1.51	1.49	4.1	
			16:13	4.1	3.1	27.90		8.35		28.15		84.50		6.04		1.47		4.5	_
	25/9/2023	Fine	16:31	3.7	2.7	27.80	27.85	8.44	8.44	28.62	28.61	89.40	88.75	6.19	6.17	1.96	1.78	2.4	
			16:32	3.7	2.7	27.90		8.43		28.60		88.10		6.14		1.59		2.6	
	27/9/2023	Fine	17:15	3.7	2.7	27.40	27.40	8.16	8.16	30.92	30.92	82.60	82.40	6.09	6.08	5.79	5.82	5.9	
			17:16	3.7	2.7	27.40		8.16		30.92		82.20		6.06		5.84		5.5	
	29/9/2023	Fine	18:12	3.8	2.8	27.40	27.40	8.22	8.21	31.61	31.60	81.80	81.65	6.08	6.06	6.05	6.11	6.1	6.0
	l	I	18:13	3.8	2.8	27.40		8.20	1	31.59	l	81.50	1	6.04		6.17		5.8	1

General Note:

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

	Sampling		Sampling	Water	Sampling		erature	F	Н		inity		aturation		00		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С		-		pt		%		g/L		TU		ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancell	ed due to ac	lverse weath	ner						
	4/9/2023	Cloudy	14:26	2.7	1.4	24.30	24.35	8.03	8.03	34.02	34.03	82.10	81 40	6.24	6.22	4.41	4 40	1.3	1.5
	4/3/2023	Cioudy	14:27	2.7	1.4	24.40	24.55	8.02	0.03	34.03	34.03	80.70	01.40	6.19	0.22	4.39	4.40	1.7	1.5
	6/9/2023	Cloudy	16:10	2.8	1.4	24.80	24.75	8.02	8.03	33.85	33.85	82.80	82.55	6.17	6.15	2.30	2.32	3.1	3.3
	0/8/2023	Cioudy	16:11	2.8	1.4	24.70	24.73	8.03	0.03	33.85	33.03	82.30	02.55	6.13	0.13	2.33	2.32	3.5	0.0
	8/9/2023	Black Rain							WQM	was cancell	ed due to ac	lverse weath	ner						
	11/9/2023	Cloudy	10:41	2.6	1.3	24.70	24 75	8.06	8.07	29.43	29 44	88.70	89.00	6.13	6 16	1.99	1.89	3.2	3.3
	11/9/2023	Cidudy	10:42	2.6	1.3	24.80	24.75	8.07	0.07	29.45	29.44	89.30	69.00	6.18	0.10	1.78	1.09	3.4	3.3
	13/9/2023	Fine	12:06	2.7	1.4	25.70	25.70	8.02	8.03	29.86	29.85	82.10	82 75	6.15	6.15	0.85	0.94	1.4	
	10/0/2020	1 1110	12:07	2.7	1.4	25.70	20.70	8.04	0.00	29.84	20.00	83.40	02.70	6.14	0.10	1.02	0.54	1.6	
SR10	15/9/2023	Fine	12:59	2.8	1.4	26.00	25.95	8.16	8.17	30.22	30.21	81.80	81.65	6.18	6.18	2.03	2 01	3.2	
01110	10/0/2020	1 1110	13:00	2.7	1.4	25.90	20.00	8.18	0.17	30.19	00.21	81.50	01.00	6.17	0.10	1.98	2.01	3.6	0.4
	18/9/2023	Fine	13:20	2.8	1.4	26.70	26.80	8.25	8 25	30.07	30.08	81.20	81 10	6.17	6 16	1.56	1 44	4.2	
	10/0/2020	1 1110	13:21	2.8	1.4	26.90	20.00	8.25	0.20	30.09	00.00	81.00	01.10	6.15	0.10	1.31	1.44	3.9	
	20/9/2023	Fine	14:26	2.6	1.3	27.60	27.50	8.34	8.33	28.19	28 18	81.20	82.25	6.06	6.15	1.25	1.34	3.0	
			14:27	2.6	1.3	27.40		8.32	0.00	28.16		83.30		6.23		1.42		2.7	
	22/9/2023	Fine	8:00	2.3	1.2	27.70	27 70	8.34	8.37	27.15	27 17	82.30	82 20	6.19	6.18	2.09	2.03	3.7	
			8:01	2.3	1.2	27.70		8.39		27.19		82.10		6.17		1.97		3.4	
	25/9/2023	Fine	9:18	2.5	1.3	27.80	27.85	8.40	8 41	28.70	28 70	83.70	83.60	6.25	6.25	1.71	1 69	<1.0	1.0
			9:19	2.5	1.3	27.90		8.41		28.69		83.50	10.00	6.24		1.67		<1.0	
	27/9/2023	Fine	10:59	2.8	1.4	27.60	27.65	8.20	8.20	30.85	30.83	81.00	81.55	6.08	6.12	4.05	4.02	3.6	
	22/2020		11:00	2.8	1.4	27.70	27.00	8.19	0.20	30.80	50.00	82.10	31.00	6.16	0.12	3.99	4.02	3.2	
	29/9/2023	Fine	12:08	2.9	1.5	27.70	27.70	8.25	8.24	31.56	31.56	84.30	83.75	6.29	6.23	4.66	4.52	4.8	
			12:09	2.9	1.5	27.70		8.22		31.56	7.1.00	83.20		6.16	0.20	4.37		4.5	

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	F	Н	Sal			aturation		00		bidity	_	SS
Station Reference	Date	Weather	Time	Depth	Depth		С			р			%		g/L		TU		ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancelle	ed due to ad	verse weath	ner						
	4/9/2023	Cloudy	9:34	2.3	1.2	24.50	24 60	8.03	8.03	34.00	34 02	84.70	84 75	6.08	6.09	3.86	3.79	3.1	3.0
	4/3/2023	Cioudy	9:35	2.3	1.2	24.70	24.00	8.02	0.00	34.03	34.02	84.80	04.73	6.09	0.03	3.71	3.75	2.8	3.0
	6/9/2023	Cloudy	11:35	2.5	1.3	24.70	24.70	8.03	8.04	33.80	33.81	80.00	80.30	6.00	6.03	3.19	3.21	2.6	2.5
	6/9/2023	Cioudy	11:36	2.5	1.3	24.70	24.70	8.04	0.04	33.82	33.01	80.60	00.30	6.06	6.03	3.23	3.21	2.3	2.,
	8/9/2023	Black Rain							WQM	was cancelle	ed due to ad	verse weath	ner						
	11/9/2023	Cloudy	15:10	2.3	1.2	24.80	24.80	8.08	8.08	29.46	29.48	81.20	81.25	6.17	6.18	2.49	2.37	1.4	1.3
	11/9/2023	Cioudy	15:11	2.3	1.2	24.80	24.00	8.08	0.00	29.49	29.40	81.30	01.23	6.19	0.10	2.24	2.31	1.0	1
	13/9/2023	Fine	17:49	2.5	1.3	25.60	25.65	8.04	8.05	29.53	29.54	83.70	83.50	6.24	6.23	1.68	1 78	3.5	3.7
	13/8/2023	1 1110	17:50	2.5	1.3	25.70	25.05	8.05	0.00	29.55	25.54	83.30	03.30	6.21	0.23	1.87	1.70	3.9	0.
SR10	15/9/2023	Fine	17:30	2.4	1.2	25.70	25.70	8.20	8.21	30.07	30.08	84.80	83.90	6.27	6.24	2.95	2.90	3.0	3.
01110	10/0/2020	1 1110	17:31	2.4	1.2	25.70	20.70	8.21	0.21	30.09	00.00	83.00	00.50	6.20	0.14	2.84	2.00	3.2	Ü.
	18/9/2023	Fine	8:45	2.5	1.3	26.60	26.70	8.22	8.23	30.07	30.08	83.80	83.50	6.27	6.26	0.14	0.26	2.7	2.6
	10/3/2023	1 1110	8:46	2.5	1.3	26.80	20.70	8.24	0.23	30.09	30.00	83.20	03.30	6.25	0.20	0.37	0.20	2.5	
	20/9/2023	Fine	9:56	2.4	1.2	27.50	27.55	8.33	8.34	28.21	28.23	83.70	83.35	6.24	6.22	1.97	1 94	3.3	3.5
	LOIGILOLO	1 1110	9:57	2.4	1.2	27.60	27.00	8.34	0.04	28.24	10.10	83.00	00.00	6.20	U.LL	1.90	1.04	3.7	0.0
	22/9/2023	Fine	16:00	2.6	1.3	27.70	27 65	8.37	8.38	27.25	27 24	84.00	84.30	6.11	6 14	2.02	1.96	3.6	
	LEIGILOLO	1 1110	16:01	2.6	1.3	27.60	27.00	8.38	0.00	27.23	27.24	84.60	04.00	6.16	0.14	1.89	1.00	3.8	
	25/9/2023	Fine	16:20	2.3	1.2	27.90	27 90	8.45	8 46	28.47	28 47	84.40	84.55	6.22	6.23	1.13	1 21	2.9	
			16:21	2.3	1.2	27.90		8.46		28.46		84.70		6.24		1.29		2.6	
	27/9/2023	Fine	17:04	2.4	1.2	27.36	27.48	8.20	8.20	30.73	30.75	84.20	83.80	6.22	6.20	3.95	3.86	3.7	3.5
	L0L0		17:05	2.4	1.2	27.60	_11.40	8.19	0.20	30.76	30.70	83.40	50.00	6.17	0.10	3.76	0.00	3.3	
	29/9/2023	Fine	18:01	2.4	1.2	27.90	27.95	8.26	8.25	31.53	31.52	82.10	82.75	6.16	6.19	5.37	5.26	4.4	4.3
			18:02	2.4	1.2	28.00		8.24		31.50		83.40		6.21		5.14		4.1	

General Note:

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sal	nity		aturation		00		oidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С			p			%		g/L	N'			ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancelle	ed due to ad	verse weath	ner						
	4/9/2023	Cloudy	14:21	2.5	1.3	24.50	24.50	8.02	8.03	33.98	33 99	90.10	89.75	6.22	6.21	4.82	4 71	3.7	3.8
	4/9/2023	Cidudy	14:22	2.5	1.3	24.50	24.50	8.04	0.03	33.99	33.89	89.40	09.75	6.19	0.21	4.59	4.71	3.8	3.0
	6/9/2023	Cloudy	16:03	2.7	1.4	24.60	24 60	8.04	8.03	33.88	33.89	83.70	83.45	6.18	6.16	2.95	2.97	2.4	2.6
	0/9/2023	Cioddy	16:04	2.7	1.4	24.60	24.00	8.02	0.03	33.89	33.09	83.20	03.43	6.13	0.10	2.99	2.01	2.8	
	8/9/2023	Black Rain							WQM	was cancelle	ed due to ad	verse weath	ner						
	11/9/2023	Cloudy	10:47	2.5	1.3	24.80	24.85	8.08	8.09	29.43	29 44	89.50	89.80	6.20	6.21	2.07	2.01	1.6	1.3
	11/9/2023	Cidudy	10:48	2.5	1.3	24.90	24.00	8.10	0.09	29.44	29.44	90.10	09.00	6.22	0.21	1.95	2.01	1.8	1
	13/9/2023	Fine	12:12	2.8	1.4	25.60	25 60	8.02	8.03	29.57	29.58	82.70	83.05	6.16	6 19	1.17	1 11	3.0	2.5
	TOTOLEGEO	1 1110	12:13	2.8	1.3	25.60	20.00	8.04	0.00	29.58	20.00	83.40	00.00	6.21	0.10	1.05		2.7	
SR12	15/9/2023	Fine	13:04	2.7	1.3	25.80	25.85	8.19	8.20	30.08	30.07	83.90	83.00	6.20	6.15	1.86	1.94	3.4	3.3
OKIZ	TOTOLEGEO	1 1110	13:05	2.6	1.3	25.90	20.00	8.20	0.20	30.06	00.07	82.10	00.00	6.09	0.10	2.01	1.04	3.2	0.0
	18/9/2023	Fine	13:15	2.7	1.4	26.60	26.50	8.26	8.26	30.05	30.05	81.80	81 75	6.18	6 17	2.36	2 29	4.2	4.4
	TOTOTEDED	1 1110	13:16	2.7	1.4	26.40	20.00	8.25	0.20	30.05	00.00	81.70	01.70	6.15	0.17	2.21	2.20	4.6	
	20/9/2023	Fine	14:21	2.7	1.4	27.60	27.55	8.36	8.36	28.08	28.07	84.20	83.45	6.25	6.22	1.10	1 18	3.7	
			14:22	2.7	1.4	27.50		8.36		28.05		82.70		6.19		1.25		4.2	
	22/9/2023	Fine	8:06	2.4	1.2	27.60	27 70	8.39	8.39	27.20	27 20	83.90	84.25	6.12	6 16	2.32	2 25	4.2	
	LEIGILOLO	1 1110	8:07	2.4	1.2	27.80	27.70	8.38	0.00	27.19	27.20	84.60	04.20	6.19	0.10	2.17	2.20	3.8	
	25/9/2023	Fine	9:24	2.6	1.3	27.80	27.85	8.43	8 43	28.50	28.51	84.90	84 60	6.28	6.27	0.91	1.08	<1.0	1.0
			9:25	2.6	1.3	27.90		8.42		28.52		84.30	7	6.26		1.25		<1.0	
	27/9/2023	Fine	11:05	2.7	1.4	27.60	27.55	8.20	8.19	30.77	30.77	82.60	82.30	6.14	6.12	3.13	3.25	2.8	
	22/2020		11:06	2.7	1.4	27.50	27.00	8.18	0.10	30.77	50.77	82.00	32.00	6.09	0.12	3.37	0.20	2.5	
	29/9/2023	Fine	12:13	2.8	1.4	27.90	27.85	8.24	8.25	31.60	31.59	84.40	84.80	6.23	6.25	5.92	5.97	4.4	
	1	I	12:14	2.8	1.4	27.80		8.26	1	31.58		85.20	1	6.27	1	6.01		4.7	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 SR12 (Middle) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sali	,		aturation		00		bidity	_	SS
Station Reference	Date	Weather	Time	Depth	Depth		С			p			%	m			TU		ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancelle	ed due to ad	verse weath	ner						
	4/9/2023	Cloudy	9:40	2.4	1.2	24.60	24 60	8.00	8.01	33.98	33.97	82.00	82 85	6.02	6.08	4.41	4 49	1.4	1.8
	4/3/2023	Cioudy	9:41	2.4	1.2	24.60	24.00	8.02	0.01	33.95	33.81	83.70	02.00	6.14	0.00	4.57	4.45	2.2	1.0
	6/9/2023	Cloudy	11:41	2.4	1.2	24.80	24.85	8.03	8.02	33.84	33.84	83.60	84.05	6.20	6.24	3.62	3.59	2.6	2.4
	6/9/2023	Cloudy	11:42	2.4	1.2	24.90	24.00	8.01	0.02	33.83	33.04	84.50	04.05	6.28	0.24	3.56	3.59	2.2	2.0
	8/9/2023	Black Rain							WQM	was cancelle	ed due to ad	verse weath	ner						
	11/9/2023	Cloudy	15:05	2.3	1.2	25.00	24.95	8.08	8.08	29.49	29.50	85.00	84.95	6.22	6.21	2.25	2.31	<1.0	1.0
	11/9/2023	Cioudy	15:06	2.3	1.2	24.90	24.95	8.07	0.00	29.50	29.50	84.90	04.93	6.20	0.21	2.37	2.31	<1.0	1.0
	13/9/2023	Fine	17:39	2.5	1.3	25.70	25.60	8.04	8.04	29.59	29 59	83.10	82 85	6.18	6.15	2.98	2 41	2.4	2.6
	13/8/2023	1 1110	17:40	2.5	1.3	25.50	25.00	8.04	0.04	29.58	25.35	82.60	02.00	6.12	0.13	1.84	2.41	2.8	
SR12	15/9/2023	Fine	17:25	2.3	1.2	25.90	25.80	8.25	8.23	30.10	30 10	82.00	83.25	6.13	6.18	2.78	2.83	1.9	1.9
OILIZ	10/0/2020	1 1110	17:26	2.3	1.2	25.70	20.00	8.21	0.20	30.09	00.10	84.50	00.20	6.23	0.10	2.87	2.00	1.9	1.5
	18/9/2023	Fine	8:51	2.4	1.2	26.70	26.80	8.25	8.26	30.05	30.05	83.90	84 00	6.24	6.25	1.06	1 14	2.5	2.7
	TOTOTECES	1 1110	8:52	2.4	1.2	26.90	20.00	8.27	0.20	30.05	00.00	84.10	04.00	6.26	0.10	1.21	1.11-0	2.8	
	20/9/2023	Fine	10:02	2.5	1.3	27.50	27.45	8.30	8.31	28.19	28 18	81.90	81.60	6.14	6.12	2.00	2 07	3.1	3.0
	LOIGILOLO	1 1110	10:03	2.5	1.3	27.40	27.40	8.32	0.01	28.16	20.10	81.30	01.00	6.09	0.12	2.13	2.07	2.8	0.0
	22/9/2023	Fine	15:55	2.6	1.3	27.70	27 70	8.41	8.40	27.20	27 19	84.70	84.30	6.18	6.15	1.60	1 73	3.4	
	LEIGILOLO	1 1110	15:56	2.6	1.3	27.70	27.70	8.38	0.40	27.18	27.10	83.90	04.00	6.12	0.10	1.85	1.70	3.0	
	25/9/2023	Fine	16:15	2.3	1.2	28.00	28 00	8.44	8 44	28.48	28 48	82.10	82 30	6.19	6.20	1.84	1.80	2.2	
			16:16	2.3	1.2	28.00	_0.00	8.44	0.44	28.48	20.40	82.50	32.00	6.20	0.10	1.76	1.00	2.5	
	27/9/2023	Fine	17:00	2.4	1.2	27.50	27.45	8.20	8 19	30.77	30.75	83.10	82.35	6.17	6.13	5.13	5.07	2.8	
	L0L0		17:01	2.4	1.2	27.40	27.40	8.18	0.10	30.73	50.10	81.60	32.00	6.08	0.10	5.01	0.01	2.4	
	29/9/2023	Fine	17:56	2.5	1.3	27.60	27.70	8.26	8.26	31.55	31.55	83.10	82.95	6.20	6.18	5.88	5.91	5.2	
			17:57	2.5	1.3	27.80		8.25		31.54		82.80		6.15		5.94		4.8	

General Note:

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sal	inity		aturation		00		oidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С			p			%	m			TU		ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancelle	ed due to ad	verse weath	ner						
	4/9/2023	Cloudy	15:13	2.7	1.4	24.70	24 70	8.05	8.05	33.96	33.81	89.50	89.05	6.25	6.19	3.33	3.42	4.9	5.3
	4/9/2023	Cidudy	15:14	2.7	1.4	24.70	24.70	8.04	0.05	33.65	33.01	88.60	69.05	6.13	0.19	3.50	3.42	5.7	5
	6/9/2023	Cloudy	16:58	2.7	1.4	24.80	24.75	8.01	8.01	33.66	33.67	84.40	83.90	6.28	6.25	2.84	2 79	2.2	2.3
	6/9/2023	Cloudy	16:59	2.7	1.4	24.70	24.75	8.00	6.01	33.68	33.07	83.40	63.90	6.22	6.25	2.73	2.19	2.4	2.,
	8/9/2023	Black Rain							WQM	was cancelle	ed due to ad	verse weath	ner						
	11/9/2023	Cloudy	9:49	2.7	1.4	25.10	25.20	7.91	7.91	31.32	31 31	82.10	83.35	6.18	6.22	7.33	7.21	7.0	6.
	11/9/2023	Cloudy	9:50	2.7	1.4	25.30	25.20	7.91	7.91	31.30	31.31	84.60	03.33	6.25	0.22	7.09	7.21	6.7	0.
	13/9/2023	Fine	11:16	2.8	1.4	25.70	25.65	7.99	7 99	30.07	30.06	83.00	82 95	6.20	6.20	2.57	2.53	3.4	3.5
	10/0/2020	1 1110	11:17	2.8	1.4	25.60	20.00	7.98	7.00	30.05	00.00	82.90	02.50	6.19	0.10	2.49	2.00	3.6	
SR15	15/9/2023	Fine	12:07	2.6	1.3	25.70	25 65	8.06	8.07	31.34	31.35	83.50	83.70	6.20	6.22	2.00	2 04	3.2	
			12:08	2.6	1.3	25.60		8.08		31.36		83.90		6.23		2.07		2.9	-
	18/9/2023	Fine	14:05	2.7	1.4	26.80	26.75	8.29	8.30	30.21	30.21	80.30	81 60	6.02	6.08	1.39	1.47	6.6	
			14:06	2.7	1.4	26.70		8.31	0.00	30.20		82.90		6.14	0.00	1.54		7.0	
	20/9/2023	Fine	15:10	2.8	1.4	27.00	27.15	8.36	8.35	27.78	27.78	83.00	82.45	6.20	6.17	2.00	1.93		3.3
			15:11	2.8	1.4	27.30		8.34		27.78		81.90		6.13		1.85		3.1	
	22/9/2023	Fine	7:08	2.3	1.2	27.40	27.50	8.23	8 22	29.12	29 13	80.30	81.60	6.11	6 15	2.58	2 63	2.8	
			7:09	2.3	1.2	27.60		8.20	0.22	29.14		82.90		6.19		2.68		3.1	
	25/9/2023	Fine	8:26	2.6	1.3	27.70	27.80	8.40	8.39	28.29	28.34	83.20	83.10	6.14	6.14	0.66	0.62	1.2	
			8:27	2.6	1.3	27.90		8.38		28.39		83.00		6.13		0.57		1.2	
	27/9/2023	Fine	10:05	2.7	1.4	27.30	27.20	8.11	8.11	30.99	30.97	83.70	83.50	6.16	6.15	7.19	7.11	5.6	
			10:06	2.7	1.4	27.10		8.10		30.95	,	83.30	70.00	6.13		7.02		6.0	
	29/9/2023	Fine	11:18	2.8	1.4	27.10 27.00	27.05	8.19 8.20	8.20	31.63 31.63	31.63	83.70 83.50	83.60	6.25	6.26	6.23	6.21	3.6	
		1	11.19	2.8	1.4	27.00	1	8.20	1	31.63	l	63.50	1	6.26	1	6.19	l	3.5	1

General Note:

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

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

		Sampling		Sampling	Water	Sampling		erature	F	H	Sa	linity	DO S	aturation		0	Turb	idity	5	SS
	Station Reference	Date	Weather	Time	Depth	Depth		C		-		pt		%	m		NT			g/L
L					m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
		1/9/2023	Typhoon Signal no. 8							WQM	was cancell	led due to ad	verse weat	ner						
		4/9/2023	Cloudy	8:44	2.2	1.1	24.30	24 40	8.02	8.04	33.97	33.96	82.00	81 15	6.20	6.11	6.08	6.00	4.6	4.5
		4/3/2023	Cloudy	8:45	2.2	1.1	24.50	24.40	8.05	0.04	33.95	33.80	80.30	01.13	6.02	0.11	5.92	0.00	4.3	4.0
		6/9/2023	Cloudy	10:42	2.4	1.2	24.80	24.90	7.96	7.97	33.57	33.58	82.30	83.00	6.13	6.16	1.62	1.81	1.4	1.3
		0/0/2020	Cicacy	10:43	2.4	1.2	25.00	24.00	7.98	7.07	33.59	00.00	83.70	00.00	6.18	0.10	2.00	1.01	1.2	1.0
		8/9/2023	Black Rain							WQM	was cancell	led due to ad	verse weat	ner						
		11/9/2023	Cloudy	15:55	2.4	1.2	24.90	24.85	8.01	8.02	29.97	29.98	82.90	83.75	6.19	6.21	3.74	3.87	1.9	1.9
		11/9/2023	Cloudy	15:56	2.4	1.2	24.80	24.00	8.02	0.02	29.98	29.90	84.60	63.75	6.23	0.21	3.99	3.07	1.8	1.9
		13/9/2023	Fine	18:31	2.3	1.2	25.90	25.80	8.08	8.07	30.70	30.70	79.80	80.80	5.95	6.02	2.21	2 11	3.3	3.5
		13/8/2023	1 1110	18:32	2.3	1.2	25.70	25.00	8.06	0.07	30.69	30.70	81.80	00.00	6.09	0.02	2.00	2.11	3.7	0.0
	SR15	15/9/2023	Fine	18:14	2.2	1.1	25.90	25.85	8.17	8 17	31.16	31 17	84.30	83.60	6.26	6.23	2.79	2.69	2.4	2.3
	01110	10/0/2020	1 810	18:15	2.2	1.1	25.80	20.00	8.17	0.17	31.17	01.17	82.90	00.00	6.19	0.10	2.59	2.00	2.1	
		18/9/2023	Fine	7:56	2.3	1.2	26.30	26.20	8.16	8 15	30.21	30.21	89.50		6.13	6.13	2.00	1.86	2.8	2.7
		TOTOTECEC	1 110	7:57	2.3	1.2	26.10	20.20	8.14	0.10	30.20	00.21	89.30		6.12	0.10	1.72	1.00	2.6	
		20/9/2023	Fine	9:05	2.4	1.2	27.00	27.05	1.41	1 67	28.30	28.29	82.70	83.45	6.12	6 19	1.41	1.67	3.4	3.3
				9:06	2.4	1.2	27.10		1.92		28.28		84.20		6.25		1.92		3.1	
		22/9/2023	Fine	16:46	2.6	1.3	27.60	27.60	8.42	8.43	26.53	26.54	82.00	81.15	6.20	6.11	1.49	1.45	2.8	2.7
				16:47	2.6	1.3	27.60		8.43		26.54		80.30		6.02		1.40		2.6	
		25/9/2023	Fine	17:05	2.3	1.2	27.80	27.85	8.38	8.37	28.80	28.82	88.30	88.05	6.12	6.09	1.27	1.14	1.7	1.8
				17:06	2.3	1.2	27.90		8.36		28.83		87.80		6.06		1.01		1.8	
		27/9/2023	Fine	17:49	2.4	1.2	27.30	27.40	8.19	8.20	30.92	30.93	82.80	82.65	6.19	6.18	5.59	5.53	2.2	2.2
				17:50	2.4	1.2	27.50		8.21		30.94		82.50		6.17		5.46		2.2	
		29/9/2023	Fine	18:43	2.3	1.2	27.60	27.70	8.18	8.20	31.55	31.55	82.80		6.14	6.12	4.80	5.37	3.8	3.9
				18:44	2.3	1.2	27.80		8.21		31.55		82.00		6.09		5.94		3.9	

General Note:

Lam Environmental Carviaca Limit

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

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature	F	Н	Sali			turation	D	-		bidity		SS
Station Reference	Date	vveatner	Time				C	17.1		Value	AVG		%	mo			TU		a/L AVG
				m	m	Value	AVG	Value	AVG	value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancelle	d due to ad	verse weath	ier						
	4/9/2023	Cloudy	14:10	8.6	1.0	24.20	24.30	8.04	8.05	34.25	34.29	88.40	88.80	6.15	6.17	7.42	7.36	4.6	
	4/9/2023	Cidudy	14:11	8.6	1.0	24.40	24.30	8.05	6.05	34.32	34.29	89.20	00.00	6.19	0.17	7.29	7.30	5.0	
	6/9/2023	Cloudy	15:52	8.7	1.0	25.50	25.45	8.09	8 10	33.87	33.85	82.80	83.35	6.17	6.21	2.36	2.36	3.6	
	0/0/2020	Oloudy	15:53	8.7	1.0	25.40	20.40	8.10	0.10	33.82	00.00	83.90	00.00	6.24	0.1.	2.35	2.00	4.0	
	8/9/2023	Black Rain							WQM	was cancelle	d due to ad	verse weath	er						
	11/9/2023	Cloudy	10:58	8.5	1.0	24.80	24.80	8.09	8.09	30.19	30.18	89.10	89.25	6.17	6.18	0.75	0.85	3.1	
	11/9/2023	Cidudy	10:59	8.5	1.0	24.80	24.00	8.09	0.09	30.17	30.10	89.40	09.23	6.19	0.10	0.95	0.65	3.4	1
	13/9/2023	Fine	12:24	8.7	1.0	25.50	25.45	8.04	8.03	30.21	30.21	84.40	83.75	6.18	6.15	1.26	1 22	3.1	
	13/3/2023	1 1110	12:25	8.7	1.0	25.40	25.45	8.02	0.03	30.20	30.21	83.10	03.73	6.11	0.13	1.18	1.22	2.8	
CE	15/9/2023	Fine	13:16	8.5	1.0	25.70	25.75	8.19	8.70	30.53	30.52	83.10	83.75	6.07	6.13	2.20	2.16	3.2	
OL.	13/8/2023	1 1110	13:17	8.5	1.0	25.80	25.75	9.20	0.70	30.50	30.32	84.40	03.73	6.19	0.13	2.11	2.10	3.5	
	18/9/2023	Fine	13:05	8.7	1.0	26.40	26.50	8.18	8 19	29.94	29.95	84.60	84.70	6.16	6.18	2.72	2.84	3.8	
			13:06	8.7	1.0	26.60		8.20		29.96		84.80		6.19		2.95		3.4	
	20/9/2023	Fine	14:10	8.6	1.0	26.60	26.55	8.27	8.29	29.79	29.80	83.90	83,45	6.27	6.24	3.89	3.78	3.6	
			14:11	8.6	1.0	26.50		8.30	0.20	29.80		83.00		6.20		3.67		3.2	
	22/9/2023	Fine	8:14	8.5	1.0	27.50	27.40	8.30	8.31	28.80	28.83	84.80	84.85	6.19	6.20	3.08	3.05	3.5	
			8:15	8.5	1.0	27.30		8.31		28.85		84.90		6.20		3.02		3.2	
	25/9/2023	Fine	9:35	8.5	1.0	27.70	27.60	8.50	8.49	28.70	28.69	83.10	82.85	6.20	6.18	0.47	0.41	<1.0	
			9:36	8.5	1.0	27.50		8.48		28.67		82.60		6.16		0.35		<1.0	
	27/9/2023	Fine	11:16	8.7	1.0	27.20	27.30	8.20	8.19	31.00	31.01	83.10	82.85	6.21	6.20	3.09	3.04	3.4	
			11:17	8.7	1.0	27.40		8.18		31.01		82.60		6.18		2.98		3.8	
	29/9/2023	Fine	12:25	8.8	1.0	27.90	27.95	8.29	8.28	31.62	31.61	83.90	84.00	6.24	6.26	3.72	3.66	3.6	
	1	I	12:26	8.8	1.0	28.00		8.27	1	31.60		84.10		6.27		3.59		3.3	1

General Note:

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

am

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

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature C		Н		inity		aturation %		00		bidity TU	_	SS ng/L
Station Reference	Date	vv eatrier	Time	m	m	Value	AVG	Value	AVG	Value	AVG	Value	% AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8				value	AVO	value			ed due to ad			value	AVO	value	AVO	value	AVO
	4/9/2023	Cloudy	9:52	8.3	1.0	24.60	24.55	8.04	8.04	34.08	34.07	84.00	83.95	6.15	6 14	4.47	4 42	4.2	4.9
	4/9/2023	Cioudy	9:53	8.3	1.0	24.50	24.55	8.03	0.04	34.06	34.07	83.90	03.93	6.12	0.14	4.36	4.42	5.6	4.9
	6/9/2023	Cloudy	11:53	8.5	1.0	24.90	24.95	8.06	8.05	33.87	33.86	80.00	80.30	6.04	6.07	2.80	2.79	2.9	3.0
	6/9/2023	Cioudy	11:54	8.5	1.0	25.00	24.95	8.03	0.05	33.85	33.00	80.60	00.30	6.09	6.07	2.78	2.19	3.1	3.0
	8/9/2023	Black Rain							WQM	was cancell	ed due to ad	verse weath	ner						
	11/9/2023	Cloudy	14:55	8.3	1.0	25.00	25.05	8.07	8.08	30.11	30.12	84.80	84.70	6.21	6.20	0.50	0.60	1.2	
	11/8/2023	Cloudy	14:56	8.3	1.0	25.10	25.05	8.08	0.00	30.12	30.12	84.60	04.70	6.19	0.20	0.69	0.00	1.6	i
	13/9/2023	Fine	17:28	8.4	1.0	25.60	25 65	8.04	8.05	30.38	30.39	81.80	81.95	6.08	614	1.14	1 23	1.9	
			17:29	8.4	1.0	25.70		8.06		30.40		82.10		6.19		1.32		1.6	
CE	15/9/2023	Fine	17:15	8.3	1.0	25.80	25.80	8.20	8.22	30.70	30.71	84.80	83.90	6.27	6.23	2.12	2.15	2.4	
			17:16	8.3	1.0	25.80		8.24		30.72		83.00		6.19		2.18		2.1	
	18/9/2023	Fine	9:03	8.5	1.0	26.40	26.50	8.20	8.21	29.94	29.95	81.80	81.70	6.14	6.13	2.61	2.57	3.2	
			9:04	8.5	1.0	26.60		8.21		29.96		81.60		6.12		2.52		3.1	
	20/9/2023	Fine	10:14	8.4	1.0	26.80	26.90	8.25	8.21	29.73	29.72	83.10	83.40	6.18	6.22	3.41	3.33	5.7	
			10:15	8.4	1.0	27.00		8.17		29.70		83.70		6.25		3.25		5.4	
	22/9/2023	Fine	15:44	8.7	1.0	26.70	26.75	8.20	8.22	30.18	30.19	83.70	84.15	6.15	6.17	2.56	2.43	4.2	
			15:45	8.7	1.0	26.80		8.23		30.20		84.60		6.19		2.30		4.4	+
	25/9/2023	Fine	16:05	8.2	1.0	27.50	27.25	8.46	8.45	28.54	28.54	80.70	81.40	6.16	6.21	1.37	1.29	<1.0	1.0
			16:06	8.2	1.0	27.00		8.43		28.53		82.10		6.25		1.20		<1.0	+
	27/9/2023	Fine	16:50 16:51	8.7 8.7	1.0	26.90 27.00	26.95	8.24 8.25	8.25	31.00	30.94	84.50 83.60	84.05	6.25	6.22	1.61	1.73	1.6	
		1	17:45	8.5	1.0	27.60		0.20		30.07		84.00		6.25		4.95		6.0	
	29/9/2023	Fine	17:46	8.5	1.0	27.80	27.70	8.28	8.28	31.65	31.65	83.40	83.70	6.19	6.22	5.17	5.06	5.6	

General Note:

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Salir	,		aturation	Di		Turb			SS
Station Reference	Date	Weather	Time	Depth	Depth		С		-	pp			%	mg		NT			ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancelle	d due to ad	verse weath	ner						
	4/9/2023	Cloudy	14:14	8.6	4.3	24.10	24.05	8.05	8.05	34.33	34.33	88.70	89.00	6.13	6.15	7.02	7.07	8.4	8.
	4/3/2023	Cioudy	14:15	8.6	4.3	24.00	24.00	8.04	0.00	34.32	34.33	89.30	05.00	6.16	0.15	7.11	7.07	8.5	0.
	6/9/2023	Cloudy	15:56	8.7	4.4	25.00	25.10	8.09	8.09	33.95	33.96	84.30	83.55	6.28	6.23	2.27	2.32	3.2	- 3
	6/9/2023	Cioudy	15:57	8.7	4.4	25.20	25.10	8.09	0.09	33.96	33.90	82.80	03.33	6.17	0.23	2.36	2.32	2.8	٦
	8/9/2023	Black Rain							WQM	was cancelle	d due to ad	verse weath	ner						
	11/9/2023	Cloudy	11:02	8.5	4.3	24.90	24.90	8.08	8.07	30.87	30.89	82.10	81.40	6.09	6.04	1.17	1.09	2.5	2
	11/9/2023	Cioudy	11:03	8.5	4.3	24.90	24.90	8.06	0.07	30.90	30.09	80.70	01.40	5.98	0.04	1.01	1.09	2.8	1 -
	13/9/2023	Fine	12:28	8.7	4.4	25.40	25.45	8.05	8.05	30.45	30.43	83.50	83.80	6.19	6.21	1.27	1.26	3.3	3
	10/0/2020	1 1110	12:29	8.7	4.4	25.50	20.40	8.04	0.00	30.41	00.40	84.10	00.00	6.22	0.1.	1.24	1.20	3.5	_
CE	15/9/2023	Fine	13:20	8.5	4.3	25.60	25.55	8.16	8 16	31.09	31 10	81.10	82 15	6.02	6.07	1.52	1.50	3.0	2
OL.	10/0/2020	1 1110	13:21	8.5	4.3	25.50	20.00	8.16	0.10	31.11	01.10	83.20	02.10	6.11	0.01	1.47	1.00	2.7	_
	18/9/2023	Fine	13:09	8.7	4.4	26.10	26.05	8.16	8 16	31.01	31.01	83.00	83.50	6.18	6.20	3.72	3 64	5.6	5
	TOTOTECEO	1 1110	13:10	8.7	4.4	26.00	20.00	8.16	0.10	31.01	01.01	84.00	00.00	6.21	0.10	3.56	0.04	5.8	
	20/9/2023	Fine	14:14	8.6	4.3	26.40	26 45	8.25	8 24	30.02	30.03	82.10	82 30	6.19	6.20	3.47	3.59	4.9	
			14:15	8.6	4.3	26.50		8.23		30.04		82.50		6.21		3.71		4.5	
	22/9/2023	Fine	8:18	8.5	4.3	26.90	26.95	8.26	8 26	30.04	30.06	83.80	83.75	6.08	6.07	4.16	4 19	4.6	
			8:19	8.5	4.3	27.00		8.25	0.20	30.07		83.70		6.06		4.21		4.3	
	25/9/2023	Fine	9:39	8.5	4.3	27.40	27.30	8.47	8.47	28.79	28.80	83.30	83.10	6.22	6.21	0.10	0.19	1.5	
			9:40	8.5	4.3	27.20		8.46		28.81		82.90	700	6.19		0.28		1.6	
	27/9/2023	Fine	11:20	8.7	4.4	27.00	27.05	8.21	8.21	30.98	30.94	82.00	82.30	6.14	6.16	2.14	2.22	2.5	
			11:21	8.7	4.4	27.10		8.21		30.90		82.60		6.17		2.30		2.9	
	29/9/2023	Fine	12:29	8.8	4.4	27.70	27.75	8.27	8.28	31.63	31.62	83.40	83.80	6.19	6.22	5.04	5.12	4.2	
			12:30	8.8	4.4	27.80		8.29		31.61		84.20		6.25		5.19		4.3	

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

am

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

0.1.07	Sampling		Sampling	Water Depth	Sampling	Tempe		р	H	Salir	_	DO Sat		DC		Turk			SS
Station Reference	Date	Weather	Time		Depth	٥				pp		9		mg		N7			ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancelle	d due to ad	verse weath	9r						
	4/9/2023	Cloudy	9:56	8.3	4.2	24.20	24.25	8.05	8.05	34.20	34.21	86.30	86.80	6.19	6.21	5.68	5.77	5.9	6.
	4/3/2023	Cioudy	9:57	8.3	4.2	24.30	24.20	8.04	0.05	34.21	34.21	87.30	00.00	6.23	0.21	5.86	3.11	6.4] "
	6/9/2023	Cloudy	11:57	8.5	4.3	24.90	24.90	8.05	8.05	33.86	33.87	83.40	82.80	6.20	6.16	2.89	2.87	2.4	2
	0/3/2023	Cioudy	11:58	8.5	4.3	24.90	24.50	8.05	0.05	33.87	33.07	82.20	02.00	6.12	0.10	2.85	2.07	2.6	
	8/9/2023	Black Rain							WQM	was cancelle	d due to ad	verse weath	er						
	11/9/2023	Cloudy	14:59	8.3	4.2	24.90	24.95	8.06	8.07	30.98	30.99	83.90	83.95	6.12	614	1.78	1.80	2.0	2
	11/9/2023	Cioudy	15:00	8.3	4.2	25.00	24.95	8.08	6.07	30.99	30.99	84.00	03.93	6.15	0.14	1.82	1.00	2.4	1 -
	13/9/2023	Fine	17:32	8.4	4.2	25.60	25.50	8.06	8.06	30.56	30.55	81.50	81 40	6.07	6.06	2.06	1 94	2.2	2
	13/9/2023	FILLE	17:33	8.4	4.2	25.40	25.50	8.05	0.00	30.55	30.55	81.30	01.40	6.05	6.06	1.82	1.94	2.5	
CE	15/9/2023	Fine	17:19	8.3	4.2	25.70	25.70	8.19	8 19	31.19	31 18	82.90	83 15	6.20	6.23	2.20	2 19	3.0	3.
02	10/0/2020	1 1110	17:20	8.3	4.2	25.70	20.70	8.18	0.10	31.17	01.10	83.40	00.10	6.25	0.20	2.17	20	3.4	_
	18/9/2023	Fine	9:07	8.5	4.3	26.20	26.20	8.18	8 19	31.01	31.01	84.20	84 25	6.25	6.27	3.12	3 23	3.5	
	TOTOTECEO	1 1110	9:08	8.5	4.3	26.20	20.20	8.19	0.10	31.01	01.01	84.30	04.20	6.28	0.1.	3.33	0.20	3.3	
	20/9/2023	Fine	10:18	8.4	4.2	26.60	26.70	8.25	8 24	30.23	30.24	83.10	82 85	6.18	6.15	2.40	2 49	6.2	
			10:19	8.4	4.2	26.80		8.22		30.25		82.60		6.12		2.58		5.9	
	22/9/2023	Fine	15:48	8.7	4.4	26.80	26.80	8.24	8.23	30.06	30.06	84.80	84.85	6.08	6.14	2.19	2.22	4.1	
			15:49	8.7	4.4	26.80		8.22		30.05		84.90		6.20		2.24		3.9	
	25/9/2023	Fine	16:09	8.2	4.1	27.00	27.05	8.46	8.47	28.73	28.74	80.50	80.35	6.12	6.11	1.19	1.23	4.9	
			16:10	8.2	4.1	27.10		8.48		28.74		80.20		6.10		1.27		4.6	
	27/9/2023	Fine	16:54	8.7	4.4	27.00	26.95	8.25	8.25	30.88	30.89	82.20	82.00	6.14	6.11	3.52	3.46	2.2	
			16:55	8.7	4.4	26.90		8.25		30.90		81.80		6.08		3.39		2.5	
	29/9/2023	Fine	17:49	8.5	4.3	28.00	27.95		8.26	-	31.62	83.90	83.25	6.23	6.20	5.84	5.80	5.2	
	F t t. e.		17:50	8.5	4.3	27.90		8.26		31.62		82.60		6.16		5.75		4.8	

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sal	inity		aturation		00		oidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С			p			%		g/L		TU		ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancelle	ed due to ad	verse weath	ner						
	4/9/2023	Cloudy	14:17	8.6	7.6	23.80	23.85	8.02	8.03	34.34	34 35	89.00	89.00	6.14	6 14	7.80	7 74	14.7	14.6
	4/3/2023	Cioudy	14:18	8.6	7.6	23.90	23.03	8.03	0.00	34.36	34.33	89.00	05.00	6.14	0.14	7.68	7.74	14.4	14.0
	6/9/2023	Cloudy	15:59	8.7	7.7	25.10	25.10	8.08	8.09	34.01	34 01	80.80	81.65	6.06	611	2.18	2 14	2.4	2.3
	0/9/2023	Cioddy	16:00	8.7	7.7	25.10	23.10	8.09	0.03	34.00	34.01	82.50	01.03	6.16	0.11	2.09	2.14	2.1	2.5
	8/9/2023	Black Rain							WQM	was cancelle	ed due to ad	verse weath	ner						
	11/9/2023	Cloudy	11:05	8.5	7.5	25.10	25.05	8.06	8.06	31.00	31.01	81.60	81.20	6.06	6.01	3.32	3 29	1.8	1.5
	11/9/2023	Cidudy	11:06	8.5	7.5	25.00	25.05	8.06	0.00	31.01	31.01	80.80	01.20	5.96	6.01	3.25	3.29	1.9	1.0
	13/9/2023	Fine	12:31	8.7	7.7	25.40	25 40	8.03	8.03	30.84	30.83	82.80	82 75	6.14	6.13	2.13	2 11	4.0	3.5
	13/8/2023	1 1110	12:32	8.7	7.7	25.40	23.40	8.02	0.03	30.82	30.03	82.70	02.73	6.11	0.13	2.09	2.11	3.7	0
CE	15/9/2023	Fine	13:23	8.5	7.5	25.58	25 59	8.14	8 13	31.31	31.30	80.80	80.50	5.94	5.92	1.85	1 73	2.5	2.4
			13:24	8.5	7.5	25.60		8.12		31.29		80.20		5.90		1.60		2.2	
	18/9/2023	Fine	13:12	8.7	7.7	26.90	26.95	8.15	8 16	31.19	31 18	82.90	82 55	6.20	6.18	2.78	3.34	4.7	4.5
	TOTOTEDED	1 1110	13:13	8.7	7.7	27.00	20.00	8.16	0.10	31.17	01.10	82.20	02.00	6.15	0.10	3.90	0.04	4.3	
	20/9/2023	Fine	14:17	8.6	7.6	26.40	26.50	8.20	8 22	30.27	30.26	82.10	81.95	6.19	6.18	3.26	3.23	6.6	6.4
			14:18	8.6	7.6	26.60		8.24		30.24		81.80		6.16		3.20		6.1	
	22/9/2023	Fine	8:21	8.5	7.5	26.80	26.80	8.24	8 23	30.14	30 13	82.90	82 70	5.94	5.93	3.50	3.45	6.1	6.4
			8:22	8.5	7.5	26.80		8.22	0.20	30.12		82.50		5.91		3.39		6.6	
	25/9/2023	Fine	9:42	8.5	7.5	27.30	27.40	8.48	8.48	28.81	28.81	81.30	81.75	6.09	6.11	0.52	0.45	2.4	2.3
			9:43	8.5	7.5	27.50		8.48		28.81		82.20		6.13		0.37	0.10	2.2	
	27/9/2023	Fine	11:23	8.7	7.7	27.20	27.20	8.22	8.22	30.89	30.87	82.00	82.85	6.11	7.16	1.52	1.60	2.3	2.2
			11:24	8.7	7.7	27.20		8.21		30.85	,	83.70		8.21		1.67		2.1	
	29/9/2023	Fine	12:32	8.8	7.8	27.70	27.60	8.24	8.25	31.62	31.63	83.10	82.95	6.20	6.19	5.25	5.46		5.6
			12:33	8.8	7.8	27.50		8.25		31.64		82.80		6.17		5.66		5.4	

General Note:

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

am

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Salii	nity		turation	D	0	Turb			SS
Station Reference	Date	Weather	Time	Depth	Depth		С			pp			%	mg		N7			ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancelle	d due to ad	verse weath	er						
	4/9/2023	Cloudy	9:59	8.3	7.3	24.10	24.05	8.03	8.02	34.22	34 24	84.90	84 95	6.20	6.21	7.02	7.00	4.6	5.0
	4/3/2023	Cioudy	10:00	8.3	7.3	24.00	24.00	8.00	0.02	34.25	34.24	85.00	04.50	6.22	0.21	6.98	7.00	5.3	0.0
	6/9/2023	Cloudy	12:00	8.5	7.5	25.00	25.05	8.06	8.05	33.89	33.90	83.10	83.65	6.24	6.27	2.58	2.48	2.2	2.3
	0/3/2023	Cioudy	12:01	8.5	7.5	25.10	25.05	8.03	0.00	33.90	33.50	84.20	03.03	6.29	0.27	2.37	2.40	2.3	2.5
	8/9/2023	Black Rain							WQM	was cancelle	d due to ad	verse weath	er						
	11/9/2023	Cloudy	15:02	8.3	7.3	24.80	24.70	8.03	8.05	32.59	32 63	84.60	84.15	6.21	6.18	5.11	5.05	3.2	3.4
	11/8/2023	Cioudy	15:03	8.3	7.3	24.60	24.70	8.07	0.00	32.66	32.03	83.70	04.13	6.15	0.10	4.99	5.05	3.5	3.4
	13/9/2023	Fine	17:35	8.4	7.4	25.30	25.35	8.05	8.05	31.64	31.63	80.90	80.55	5.96	5 94	2.27	2.31	3.7	3.5
	13/8/2023	1 1110	17:36	8.4	7.4	25.40	25.55	8.05	0.00	31.62	31.03	80.20	00.33	5.91	5.54	2.34	2.31	3.3	0.0
CE	15/9/2023	Fine	17:22	8.3	7.3	25.80	25.85	8.13	8 13	31.46	31 47	82.60	82 80	6.15	6.17	2.27	2.33	4.5	4.3
02	10/0/2020	1 1110	17:23	8.3	7.3	25.90	20.00	8.13	0.10	31.48	01.47	83.00	02.00	6.19	0.17	2.39	2.00	4.0	
	18/9/2023	Fine	9:10	8.5	7.5	26.00	26.05	8.16	8 16	31.19	31 18	83.20	83.55	6.21	6.24	3.32	3.31	4.0	
			9:11	8.5	7.5	26.10		8.16	00	31.17	•	83.90		6.27		3.29		3.8	
	20/9/2023	Fine	10:21	8.4	7.4	26.40	26.55	8.17	8.18	30.42	30.44	82.00	82.20	6.10	6.12	3.26	3.22	7.0	
			10:22	8.4	7.4	26.70		8.19		30.46		82.40		6.14		3.17		6.6	
	22/9/2023	Fine	15:51	8.7	7.7	26.70	26.65	8.21	8.20	30.36	30.38	85.00	85.05	6.18	6.19	2.28	2.17	3.7	
			15:52	8.7	7.7	26.60		8.19		30.40		85.10		6.20		2.05		3.4	
	25/9/2023	Fine	16:12	8.2	7.2	27.10	27.20	8.50	8.50	28.75	28.76	79.40	78.75	5.99	5.94	1.33	1.28	5.2	
			16:13	8.2	7.2	27.30		8.49		28.77		78.10		5.89		1.23		5.4	
	27/9/2023	Fine	16:57	8.7	7.7	26.80	26.85	8.23	8.24	30.91	30.99	80.90	80.70	5.98	5.97	4.66	4.49	3.0	
			16:58	8.7	7.7	26.90		8.24		31.07		80.50		5.95		4.32		2.7	
	29/9/2023	Fine	17:52 17:53	8.5 8.5	7.5 7.5	27.80	27.80	8.24	8.24	31.63	31.63	81.60 81.70	81.65	6.08	6.09	6.91 7.02	6.97	4.5	
		L	17:53	8.5	1.5	-		-						6.10		7.02		4.1	<u></u>

General Note:

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

	Sampling		Sampling	Water	Sampling		erature	р	Н		inity		turation		00		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		°C				pt		%		g/L		TU		ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancell	ed due to ad	verse weath	ier						
	4/9/2023	Cloudy	15:31	8.7	1.0	24.60	24 55	8.00	8.01	33.84	33.83	89.40	89.35	6.13	6.13	3.35	3.32	8.1	8.5
	4/9/2023	Cioudy	15:32	8.7	1.0	24.50	24.55	8.02	0.01	33.82	33.03	89.30	09.33	6.12	0.13	3.28	3.32	8.8	0.5
	6/9/2023	Cloudy	17:17	8.5	1.0	24.90	24.95	8.04	8.04	33.47	33.49	84.40	84.25	6.24	6.23	2.98	2.88	4.2	4.1
	0/8/2023	Cioudy	17:18	8.5	1.0	25.00	24.55	8.03	0.04	33.50	33.49	84.10	04.23	6.22	0.23	2.78	2.00	4.0	
	8/9/2023	Black Rain							WQM	was cancell	ed due to ad	verse weath	er						·
	11/9/2023	Cloudy	9:30	8.6	1.0	24.90	24.95	7.81	7.83	30.52	30.51	84.70	84.80	6.24	6.26	2.21	2.20	2.4	2.6
	11/8/2023	Cioudy	9:31	8.6	1.0	25.00	24.55	7.85	7.00	30.50	30.31	84.90	04.00	6.27	0.20	2.19	2.20	2.8	2.0
	13/9/2023	Fine	10:57	8.7	1.0	25.60	24.65	7.83	7.84	31.03	31.04	83.10	82.55	6.18	6.15	1.78	1.69	3.1	3.0
	10/0/2020	1 1110	10:58	8.7	1.0	23.70	24.00	7.85	7.04	31.05	01.04	82.00	02.00	6.12	0.10	1.59	1.00	2.8	0.0
CF	15/9/2023	Fine	11:49	8.5	1.0	25.70	25.75	8.02	8.02	31.42	31.41	83.30	83 15	6.23	6.22	2.95	2.85	5.5	5.3
	TOTOTECEO	1 1110	11:50	8.5	1.0	25.80	20.70	8.02	0.02	31.39	01.41	83.00	00.10	6.21	0.11	2.74	2.00	5.1	
	18/9/2023	Fine	14:23	8.8	1.0	26.90	27.00	8.25	8.26	30.05	30.04	82.00	83.30	6.02	6.09	1.81	1.78	5.1	5.0
			14:24	8.8	1.0	27.10	21100	8.27	0.20	30.03		84.60		6.16	0.00	1.75		4.8	
	20/9/2023	Fine	15:28	8.7	1.0	27.60	27.55	8.37	8.36	27.90	27 91	81.90	81.95	6.12	6.13	1.76	1.81	4.2	4.0
			15:29	8.7	1.0	27.50		8.35	0.00	27.92		82.00		6.13		1.85		3.8	i i
	22/9/2023	Fine	6:05	8.2	1.0	27.70	27.75	8.10	8 12	26.49	26.50	82.00	81 15	6.23	6 17	1.41	1 49	4.4	4.3
			6:06	8.2	1.0	27.80		8.13		26.51		80.30		6.11		1.57		4.2	
	25/9/2023	Fine	8:08	8.5	1.0	27.60	27.50	8.25	8 25	29.73	29.72	84.80	84 25	6.27	6.24	2.52	2 45	3.0	2.9
			8:09	8.5	1.0	27.40	27.00	8.25	0.20	29.70	20.72	83.70	54.20	6.20	014	2.38	2.40	2.8	
	27/9/2023	Fine	9:47	8.8	1.0	27.10	27.05	8.00	8.10	31.37	31.36	80.90	81 45	6.00	6.06	2.95	2 97	2.7	3.1
	22.2020		9:48	8.8	1.0	27.00	27.00	8.19	0.10	31.35	31.00	82.00	31.40	6.12	0.00	2.99	2.07	3.5	
	29/9/2023	Fine	11:01	8.8	1.0	27.40	27.45	8.14	8.13	32.01	32.03	80.40	81.50	6.14	6.15	6.40	6.39	7.0	6.9
			11:02	8.8	1.0	27.50	27.40	8.12	0.10	32.04	32.00	82.60	31.00	6.16	0.10	6.37	0.00	6.8	0.5

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

0.1.01	Sampling		Sampling	Water Depth	Sampling		erature	F	Н	Salin	,	DO Sat		DO		Turb			SS
Station Reference	Date	Weather	Time		Depth	٩				pp		9		mg		NT			ng/L
				m	m	Value	AVG	Value	AVG	Value A	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancelled	d due to ad	verse weath	er						
	4/9/2023	Cloudy	8:15	8.2	1.0	24.00	24 10	7.59	7 77	34.17	34 19	84.60	84 70	6.19	6.20	5.62	5.61	2.7	1 2
	4/0/2020	Oloudy	8:16	8.2	1.0	24.20	24.10	7.94		34.20	04.10	84.80	04.70	6.21	0.20	5.60	0.01	2.7	
	6/9/2023	Cloudy	10:24	8.3	1.0	24.90	24.95	7.76	7.78	33.52	33.51	82.80	83.55	6.17	6.23	3.23	3.30	3.4	
	0/0/2020	Oloudy	10:25	8.3	1.0	25.00	24.00	7.79	7.70	33.50	00.01	84.30	00.00	6.28	0.10	3.36	0.00	3.9	
	8/9/2023	Black Rain							WQM	was cancelled	d due to ad	verse weath	er e						
	11/9/2023	Cloudy	16:13	8.2	1.0	25.00	25.05	8.08	8.08	30.18	30.19	85.90	85.45	6.24	6.21	0.58	0.64	<1.0	
	11/9/2023	Cloudy	16:14	8.2	1.0	25.10	25.05	8.07	8.08	30.20	30.19	85.00	85.45	6.18	6.21	0.69	0.64	<1.0	1
	13/9/2023	Fine	18:49	8.2	1.0	25.90	25.95	8.07	8.09	30.51	30.52	83.50	83.95	6.19	6.24	1.71	1.82	1.5	
	13/3/2023	1 1110	18:50	8.2	1.0	26.00	25.55	8.10	0.03	30.52	30.32	84.40	00.50	6.28	0.24	1.92	1.02	1.9	
CF	15/9/2023	Fine	18:32	8.1	1.0	26.00	25.90	8.20	8.19	30.78	30.77	84.80	84.00	6.21	6.18	2.25	2.13	3.2	
01	10/0/2020	1 1110		8.1	1.0	25.80	20.00	8.18	0.10	30.76	00.77	83.20	04.00	6.14	0.10	2.00	2.10	3.4	
	18/9/2023	Fine	7:38	8.2	1.0	26.30	26.25	7.94	7 95	30.05	30.04	89.50	89 45	6.25	6.24	2.01	1 99	3.8	
			7:39	8.2	1.0	26.20		7.95		30.03		89.40		6.23		1.97		3.4	
	20/9/2023	Fine	8:47	8.4	1.0	27.00	27.10	8.03	8.04	27.08	27.08	82.10	82.45	6.19	6.20	2.58	2.53	6.4	
			8:48	8.4	1.0	27.20		8.05		27.08		82.80		6.21		2.47		6.8	
	22/9/2023	Fine	17:04	8.7	1.0	27.80	27.75	8.43	8.43	26.62	26.64	86.70	86.50	6.22	6.21	2.01	2.05	4.2	
			17:05	8.7	1.0	27.70		8.42		26.66		86.30		6.19		2.09		4.6	
	25/9/2023	Fine	17:23	8.1	1.0	27.50	27.40	8.40	8.38	29.56	29.57	89.40	90.35	6.22	6.25	1.24	1.21	2.6	
			17:24	8.1	1.0	27.30		8.36		29.58		91.30		6.27		1.17		3.0	
	27/9/2023	Fine	18:07	8.3	1.0	27.20	27.30	8.20	8.22	31.33	31.34	84.30	83.00	6.23	6.17	4.53	4.63	1.9	
			18:08	8.3	1.0	27.40		8.23		31.34		81.70		6.10		4.73		1.7	_
	29/9/2023	Fine	19:01	8.4	1.0	27.60	27.70	8.25	8.25	31.60	31.61	84.40	84.25	6.28	6.25	5.23	5.19	4.5	
			19:02	8.4	1.0	27.80		8.24		31.62		84.10		6.22		5.14		4.1	

General Note:

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

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature 'C	F	Н		inity		turation		00		bidity		SS
Station Reference	Date	vveaurei	Time		m	Value	AVG	Value	AVG	Value	pt AVG		% AVG	Value	g/L AVG	Value	TU AVG	Value	g/L AVG
		Typhoon		m	m	value	AVG	value	AVG	value	AVG	value	AVG	value	AVG	value	AVG	value	AVG
	1/9/2023	Signal no. 8							WQM	was cancell	ed due to ad	verse weath	er						
	4/9/2023	Cloudy	15:35	8.7	4.4	24.60	24.50	8.08	8.09	33.93	33.94	91.30	90.35	6.27	6.23	3.58	3.65	7.3	7.4
	4/0/2020	Cioudy	15:36	8.7	4.4	24.40	24.00	8.10	0.00	33.95	00.04	89.40	50.50	6.19	0.10	3.71	0.00	7.4	14
	6/9/2023	Cloudy	17:21	8.5	4.3	24.20	24 45	8.05	8.05	33.77	33.76	84.00	83 10	6.25	6.19	2.49	2.55	3.7	3.6
	0/3/2023	Cioudy	17:22	8.5	4.3	24.70	24.45	8.04	0.00	33.75	33.70	82.20	03.10	6.12	0.15	2.61	2.55	3.4	0.0
	8/9/2023	Black Rain							WQM	was cancell	ed due to ad	verse weath	er						
	11/9/2023	Cloudy	9:34	8.6	4.3	24.80	24.85	7.84	7.85	30.43	30 44	82.10	83.35	6.19	6.24	2.00	1.89	1.9	1.9
	11/9/2023	Cioudy	9:35	8.6	4.3	24.90	24.00	7.86	7.00	30.45	30.44	84.60	03.33	6.28	0.24	1.77	1.09	1.8	1.5
	13/9/2023	Fine	11:01	8.7	4.4	25.40	25 40	7.86	7.86	31.34	31 34	83.30	83.50	6.22	6.24	1.87	1.83	3.3	3.4
	13/8/2023	1 1110	11:02	8.7	4.4	25.40	23.40	7.86	7.00	31.33	31.34	83.70	03.30	6.25	0.24	1.79	1.00	3.5	0.4
CF	15/9/2023	Fine	11:53	8.5	4.3	25.80	25.70	8.03	8.03	31.64	31 65	82.70	83 10	6.19	6.21	3.56	3.59	4.5	4.7
0.	10/0/2020	1 1110	11:54	8.5	4.3	25.60	20.70	8.03	0.00	31.65	01.00	83.50	00.10	6.23	0.11	3.61	0.00	4.8	4.7
	18/9/2023	Fine	14:27	8.8	4.4	26.80	26.75	8.24	8.24	30.04	30.04	84.70	84.65	6.16	6.15	1.48	1.60	4.1	4.4
	TOTOTECEO	1 1110	14:28	8.8	4.4	26.70	20.70	8.24	0.24	30.04	00.04	84.60	04.00	6.15	0.10	1.72	1.00	4.6	
	20/9/2023	Fine	15:32	8.7	4.4	27.50	27 45	8.38	8.38	28.21	28.21	83.70	83.40	6.24	6.21	2.01	1.96	3.2	
			15:33	8.7	4.4	27.40		8.38		28.20		83.10		6.18		1.90		3.6	
	22/9/2023	Fine	6:09	8.2	4.1	27.80	27.80	8.19	8 19	28.06	28.07	82.60	81 90	6.23	6.20	1.37	1.31	3.4	
			6:10	8.2	4.1	27.80		8.19		28.08		81.20		6.17		1.24		3.0	
	25/9/2023	Fine	8:12	8.5	4.3	27.30	27.30	8.24	8.24	29.91	29.90	82.90	83.55	6.19	6.21	1.97	1.99	2.3	
			8:13	8.5	4.3	27.30		8.24		29.89		84.20	,,,,,,	6.23		2.00		2.5	
	27/9/2023	Fine	9:51	8.8	4.4	27.00	27.00	8.00	8.01	31.43	31.44	83.10	83.00	6.18	6.17	4.98	5.03	3.3	
			9:52	8.8	4.4	27.00		8.01		31.44	•	82.90		6.16		5.07		3.0	
	29/9/2023	Fine	11:05	8.8	4.4	27.40	27.35	8.12	8.14	32.00	32.01	80.50	81.20	6.17	6.16	6.32	6.34	6.2	
			11:06	8.8	4.4	27.30	1	8.15	1	32.01	,	81.90	,,,,,,,,	6.14		6.35	1	6.5	1

General Note:

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

am

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

		Sampling		Sampling	Water	Sampling		erature	F	H	Sal	inity	DO Sa	aturation		0	Turb	idity	5	SS
	Station Reference	Date	Weather	Time	Depth	Depth		C		-		pt		%		g/L	NT			g/L
L					m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
		1/9/2023	Typhoon Signal no. 8							WQM	was cancell	ed due to ad	verse weath	ner						
		4/9/2023	Cloudy	8:19	8.2	4.1	23.90	23.85	7.68	7.83	34.27	34 27	83.70	84 15	6.15	6.19	7.19	7 27	2.8	3.2
		4/3/2023	Cloudy	8:20	8.2	4.1	23.80	25.05	7.97	7.00	34.27	34.27	84.60	04.13	6.22	0.15	7.34	1.21	3.6	0.2
		6/9/2023	Cloudy	10:28	8.3	4.2	24.70	24.70	7.80	7.80	33.62	33.62	81.60	82.60	6.12	6.19	2.60	2.62	3.1	3.0
		0/8/2023	Cioddy	10:29	8.3	4.2	24.70	24.70	7.80	7.00	33.61	33.02	83.60	02.00	6.26	0.15	2.64	2.02	2.8	3.0
		8/9/2023	Black Rain							WQM	was cancell	ed due to ad	verse weath	ner						
		11/9/2023	Cloudy	16:17	8.2	4.1	25.00	24.95	8.08	8.08	30.19	30.18	80.20	80.35	6.08	6.09	0.75	0.69	1.4	1.6
		11/8/2023	Cioddy	16:18	8.2	4.1	24.90	24.55	8.08	0.00	30.17	30.10	80.50	00.55	6.10	0.03	0.62	0.05	1.8	1.0
		13/9/2023	Fine	18:53	8.2	4.1	25.90	25.80	8.07	8.06	30.97	30.98	84.10	83.80	6.22	6.21	2.25	2.20	3.1	3.0
		13/3/2023	1 1110	18:54	8.2	4.1	25.70	25.00	8.05	0.00	30.99	30.80	83.50	03.00	6.19	0.21	2.14	2.20	2.8	0.0
	CF	15/9/2023	Fine	18:36	8.1	4.1	25.70	25.70	8.17	8.21	31.20	31.21	82.60	83 15	6.16	6.21	1.89	2.03	2.6	2.8
	01	10/0/2020	1 810	18:37	8.1	4.1	25.70	20.70	8.25	0.21	31.22	01.21	83.70	00.10	6.25	0.11	2.17	2.00	2.9	
		18/9/2023	Fine	7:42	8.2	4.1	26.00	26.05	7.97	7.97	30.04	30.04	88.20	88 40	6.10	6.12	2.75	2.81	4.9	5.1
		TOTOTECEC	1 110	7:43	8.2	4.1	26.10	20.00	7.97	7.07	30.04	00.04	88.60	00.40	6.13	0.12	2.86	2.01	5.2	
		20/9/2023	Fine	8:51	8.4	4.2	27.40	27.30	8.11	8 10	27.76	27 77	81.80		6.18	6 18	1.57	1.59	3.2	3.3
				8:52	8.4	4.2	27.20	2.1.00	8.09		27.77		81.50	000	6.17	****	1.61		3.4	
		22/9/2023	Fine	17:08	8.7	4.4	27.60	27.60	8.43	8.43	26.63	26.62	85.20	85.15	6.17	6.16	2.27	2.33	3.5	3.4
				17:09	8.7	4.4	27.60		8.42		26.61		85.10		6.15		2.38		3.3	
		25/9/2023	Fine	17:27	8.1	4.1	27.10	27.05	8.36	8.36	29.50	29 49	88.40		6.13	6 17	1.09	1.03	3.6	3.4
				17:28	8.1	4.1	27.00		8.35	0.00	29.48		89.30		6.21		0.96		3.2	
		27/9/2023	Fine	18:11	8.3	4.2	27.00	27.00	8.21	8.21	31.21	31.20	83.30	83.05	6.16	6.14	3.95	3.83	2.4	2.6
				18:12	8.3	4.2	27.00		8.21		31.18		82.80		6.11		3.71		2.8	
		29/9/2023	Fine	19:05	8.4	4.2	27.20	27.30	8.23	8.23	31.70	31.70	83.90	83.50	6.21	6.18	7.17	7.27	4.5	4.4
ı				19:06	8.4	4.2	27.40		8.23		31.69		83.10		6.15		7.36		4.2	

General Note:

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sali	,		turation		00		oidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С			pp			%	m		N'			ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancelle	d due to ad	verse weath	er						
	4/9/2023	Cloudy	15:38	8.7	7.7	24.40	24.55	8.00	8.02	34.01	34.01	86.50	87.20	6.13	6.18	3.98	3.92	4.2	4
	4/9/2023	Cidudy	15:39	8.7	7.7	24.70	24.55	8.03	0.02	34.00	34.01	87.90	07.20	6.23	0.10	3.86	3.92	4.8	1 "
	6/9/2023	Cloudy	17:24	8.5	7.5	24.50	24.55	8.05	8.05	33.99	33.98	82.80	83.15	6.14	6.17	3.22	3.17	2.7	- 2
	0/9/2023	Cioudy	17:25	8.5	7.5	24.60	24.55	8.04	0.00	33.97	33.30	83.50	03.13	6.19	0.17	3.12	5.17	2.3	
	8/9/2023	Black Rain							WQM	was cancelle	d due to ad	verse weath	er						
	11/9/2023	Cloudy	9:37	8.6	7.6	24.90	24.95	7.86	7.87	31.30	31.32	84.90	84.75	6.24	6.23	2.58	2.53	1.6	
	11/9/2023	Cidudy	9:38	8.6	7.6	25.00	24.95	7.88	7.07	31.33	31.32	84.60	04.75	6.22	0.23	2.47	2.53	1.4	1
	13/9/2023	Fine	11:04	8.7	7.7	25.50	25.45	7.88	7.88	31.44	31 43	83.10	83.15	6.18	6.18	1.70	1 77	4.0	
	13/8/2023	1 1110	11:05	8.7	7.7	25.40	23.43	7.87	7.00	31.41	31.43	83.20	03.13	6.18	0.10	1.83	1.77	3.7	
CF	15/9/2023	Fine	11:56	8.5	7.5	25.70	25 65	8.05	8.04	31.84	31.85	82.60	82.25	6.16	6 10	2.95	2 84	3.3	
-			11:57	8.5	7.5	25.60		8.03		31.85		81.90		6.04		2.72		3.5	
	18/9/2023	Fine	14:30	8.8	7.8	26.50	26.50	8.22	8 24	30.83	30.82	83.60	83.65	6.09	6 10	2.37	2 43	3.4	
			14:31	8.8	7.8	26.50		8.25		30.81		83.70		6.10		2.49		3.0	
	20/9/2023	Fine	15:35	8.7	7.7	27.10	27.20	8.35	8.36	28.58	28.57	83.50	82.70	6.26	6.20	1.80	1.88	3.0	
			15:36	8.7	7.7	27.30		8.37		28.56		81.90		6.14		1.95		3.0	
	22/9/2023	Fine	6:12	8.2	7.2	27.80	27.85	8.22	8.21	28.27	28.27	81.70	81.50	6.22	6.19	1.64	1.80	2.2	
			6:13	8.2	7.2	27.90		8.20		28.27		81.30		6.15		1.95		2.6	
	25/9/2023	Fine	8:15	8.5	7.5	27.10	27.20	8.26	8.27	29.89	29.89	82.80	82.95	6.16	6.17	1.56	1.62	1.7	
			8:16	8.5	7.5	27.30		8.27		29.89		83.10		6.18		1.68		1.9	
	27/9/2023	Fine	9:54	8.8	7.8	27.00	27.10	8.04	8.02	31.26	31.25	80.10	80.35	5.95	5.97	4.66	4.54	4.1	
			9:55	8.8	7.8	27.20		8.00		31.24		80.60		5.98		4.42		3.8	
	29/9/2023	Fine	11:08	8.8	7.8	27.20	27.20	8.16	8.16	32.01	32.01	83.70	83.15	6.32	6.32	6.23	6.14	5.8	
			11:09	8.8	7.8	27.20		8.16	1	32.01		82.60	,,,,,,	6.31	1	6.05		6.0	1

General Note:

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

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Lam Environmental Services Limited

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

Station Reference	Sampling	Weather	Sampling	Water	Sampling Depth		erature	F	Н		inity		aturation		00		bidity		SS
Station Reference	Date	weather	Time				C		-		pt		%		g/L		TU		ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/9/2023	Typhoon Signal no. 8							WQM	was cancell	ed due to ac	lverse weath	ner						
	4/9/2023	Cloudy	8:22	8.2	7.2	23.80	23.80	7.98	7 89	34.30	34 29	84.40	84 50	6.18	6.20	7.60	7 49	3.0	3.5
	4/3/2023	Cioudy	8:23	8.2	7.2	23.80	23.00	7.79	7.05	34.28	34.25	84.60	04.50	6.21	0.20	7.38	7.40	4.0	3.5
	6/9/2023	Cloudy	10:31	8.3	7.3	24.70	24.60	7.83	7.83	33.64	33.63	82.50	81.65	6.16	6.11	2.65	2.62	2.3	
	6/9/2023	Cidddy	10:32	8.3	7.3	24.50	24.00	7.82	7.03	33.62	33.03	80.80	61.05	6.06	0.11	2.58	2.02	2.5	2.4
	8/9/2023	Black Rain							WQM	was cancell	ed due to ac	lverse weath	ner						
	11/9/2023	Cloudy	16:20	8.2	7.2	24.80	24 90	8.06	8.07	30.70	30.71	79.60	79.95	5.94	5.97	1.33	1.31	2.1	2.3
	11/9/2023	Cidddy	16:21	8.2	7.2	25.00	24.90	8.07	0.07	30.71	30.71	80.30	79.95	5.99	5.97	1.29	1.31	2.4	2.5
	13/9/2023	Fine	18:56	8.2	7.2	25.60	25 65	8.04	8.05	31.12	31 11	83.30	83.00	6.16	6.13	2.57	2 48	4.2	4.4
	13/8/2023	1 1110	18:57	8.2	7.2	25.70	23.03	8.05	0.00	31.10	31.11	82.70	03.00	6.09	0.13	2.39	2.40	4.6	
CF	15/9/2023	Fine	18:39	8.1	7.1	25.70	25.65	8.17	8 17	31.30	31.30	84.80	84.50	6.27	6.25	2.64	2 69	2.4	2.2
0.	10/0/2020	1 1110	18:40	8.1	7.1	25.60	20.00	8.16	0.17	31.29	01.00	84.20	04.00	6.23	0.10	2.73	2.00	2.0	
	18/9/2023	Fine	7:45	8.2	7.2	25.80	25.80	7.98	7 99	30.83	30.82	88.60	88.20	6.13	6 10	2.63	2 69	6.1	6.4
	10/0/2020	1 1110	7:46	8.2	7.2	25.80	20.00	7.99	7.00	30.81	00.02	87.80	00.20	6.07	0.10	2.75	2.00	6.6	
	20/9/2023	Fine	8:54	8.4	7.4	27.30	27 40	8.14	8 15	28.04	28.04	80.30	80.70	6.07	6.10	1.34	1.32	2.6	
	201012020	1 1110	8:55	8.4	7.4	27.50	27.40	8.15	0.10	28.03	20.04	81.10	00.70	6.12	0.10	1.29	1.02	2.9	2.0
	22/9/2023	Fine	17:11	8.7	7.7	27.80	27 70	8.44	8 44	27.30	27 30	84.60	83.75	6.09	6.03	1.61	1.55	2.6	
	ELI GILOLO	1 1110	17:12	8.7	7.7	27.60	27.70	8.43	0.44	27.30	27.00	82.90	00.70	5.96	0.00	1.49	1.00	3.1	
	25/9/2023	Fine	17:30	8.1	7.1	26.90	26.85	8.36	8.36	29.52	29.51	81.70	81.05	5.89	5.85	1.12	1 19	4.5	
			17:31	8.1	7.1	26.80		8.36		29.50		80.40		5.81		1.25		5.0	
	27/9/2023	Fine	18:14	8.3	7.3	26.90	26.85	8.21	8.22	31.23	31.22	81.60	81.35	6.04	6.02	2.58	2.63	3.8	
	22/2020		18:15	8.3	7.3	26.80	20.00	8.23	U.LL	31.20	31.22	81.10	51.00	5.99	0.02	2.67	2.00	3.5	
	29/9/2023	Fine	19:08	8.4	7.4	27.50	27.60	8.22 8.22	8.22	31.79	31.79	82.40 81.30	81.85	6.14	6.11	7.04	7.03	5.4 5.0	
			19:09	8.4	7.4	27.70		8.22		31.79		81.30		6.07		7.02		5.0	1

General Note:

Appendix 4.5

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table for 2023

	Ac	ctual Quantities	of Inert C&D	Material Gen	erated Monthl	y	Actu	al Quantities o	of 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	0.13	0.00	0.00	0.00	0.13	0.00	0.01	0.05	0.00	0.00	13.75
Feb	0.21	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	5.37
Mar	0.20	0.00	0.00	0.00	0.20	0.00	0.00	0.02	0.00	0.00	14.94
Apr	0.06	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	17.86
May	0.15	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	6.07
Jun	0.32	0.00	0.00	0.00	0.32	0.00	0.01	0.05	0.00	0.00	22.94
Sub-total	1.07	0.00	0.00	0.00	1.07	0.00	0.01	0.12	0.01	0.00	80.93
July	1.67	0.00	0.00	0.00	1.67	0.00	0.00	0.04	0.00	0.00	9.35
Aug	1.31	0.00	0.00	0.00	1.31	0.00	0.00	0.02	0.01	0.00	5.85
Sept	0.11	0.00	0.00	0.00	0.11	0.00	0.00	0.04	0.01	0.00	11.98
Oct											
Nov											
Dec			_	_		_	_	_		_	_
Total	4.16	0.00	0.00	0.00	4.16	0.00	0.02	0.22	0.03	0.00	108.11

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	HDD works at marine and SSWSTW
4	Removal works of ELS
5	ELS works
6	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 (October, November and December 2023) 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	HDD works at marine and SSWSTW
3	Site formation works
4	Drilling works
5	Excavation works
6	ELS works
7	Superstructure RC Works
8	Removal works of ELS