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

JUNE 2023 REVISION 3

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CERTIFIED BY:

61

Derek Lo

Environmental Team Leader

DATE:

14 July 2023



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Our Ref

7076811/L29973/AG/KL/TK/rw

14 July 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 (June 2023)

With reference to the Monthly EM&A Report (June 2023) Revision 3 dates and certified by the ET Leader on 14 July 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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1.1 Scope of the Report	TABLE	OF CONTENTS	
1.2 Structure of the Report	1	Introduction	6
Basic project Information and Environmental Status	1.1	Scope of the Report	6
2.1 Basic Project Information	1.2	Structure of the Report	6
2.2 Construction Programme. 2.3 Works undertaken during the month. 2.4 Drawing showing the project area, environmental sensitive receivers and monitoring locations. 3 Implementation Status 3.1 Advice on the implementation status of environmental protection and pollution control/mitigation measures. 3.2 Environmental Mitigation Measures. 3.3 Environmental monitoring requirements and contractual requirements 3.4 Site Inspection and Audit Reports. 4 Monitoring Results. 4.1 Noise Monitoring 4.2 Water Quality Monitoring 4.3 Ecology. 4.4 Waste Management 5 Complaints, Notification of Summons and Prosecution. 6 Future Key Issues. 7 Conclusion 7.1 Noise Monitoring 7.2 Water Quality Monitoring 7.3 Ecological Impact Monitoring 7.4 Review of the Reasons for and the Implications of Non-compliance 7.5 Summary of action taken in the event of and follow-up on non-compliance	2	Basic project Information and Environmental Status	8
2.3 Works undertaken during the month 2.4 Drawing showing the project area, environmental sensitive receivers and monitoring locations 3 Implementation Status 3.1 Advice on the implementation status of environmental protection and pollution control/mitigation measures 3.2 Environmental Mitigation Measures 3.3 Environmental monitoring requirements and contractual requirements 3.4 Site Inspection and Audit Reports 4 Monitoring Results 4.1 Noise Monitoring 4.2 Water Quality Monitoring 4.3 Ecology 4.4 Waste Management 5 Complaints, Notification of Summons and Prosecution 6 Future Key Issues 7 Conclusion 7.1 Noise Monitoring 7.2 Water Quality Monitoring 7.3 Ecological Impact Monitoring 7.4 Review of the Reasons for and the Implications of Non-compliance 7.5 Summary of action taken in the event of and follow-up on non-compliance	2.1	Basic Project Information	8
2.4 Drawing showing the project area, environmental sensitive receivers and monitoring locations	2.2	Construction Programme	8
monitoring locations	2.3		
3.1 Advice on the implementation status of environmental protection and pollution control/mitigation measures 3.2 Environmental Mitigation Measures 3.3 Environmental monitoring requirements and contractual requirements 3.4 Site Inspection and Audit Reports 4 Monitoring Results 4.1 Noise Monitoring 4.2 Water Quality Monitoring 4.3 Ecology 4.4 Waste Management 5 Complaints, Notification of Summons and Prosecution 6 Future Key Issues 7 Conclusion 7.1 Noise Monitoring 7.2 Water Quality Monitoring 7.3 Ecological Impact Monitoring 7.4 Review of the Reasons for and the Implications of Non-compliance 7.5 Summary of action taken in the event of and follow-up on non-compliance	2.4		
pollution control/mitigation measures 3.2 Environmental Mitigation Measures 3.3 Environmental monitoring requirements and contractual requirements 3.4 Site Inspection and Audit Reports 4 Monitoring Results 4.1 Noise Monitoring 4.2 Water Quality Monitoring 4.3 Ecology 4.4 Waste Management 5 Complaints, Notification of Summons and Prosecution 6 Future Key Issues 7 Conclusion 7.1 Noise Monitoring 7.2 Water Quality Monitoring 7.3 Ecological Impact Monitoring 7.4 Review of the Reasons for and the Implications of Non-compliance 7.5 Summary of action taken in the event of and follow-up on non-compliance	3	Implementation Status	9
Site Inspection and Audit Reports	3.1		9
Site Inspection and Audit Reports	3.2	Environmental Mitigation Measures	10
3.4 Site Inspection and Audit Reports	3.3	Environmental monitoring requirements and contractual requirements	10
 4.1 Noise Monitoring	3.4		
4.2 Water Quality Monitoring 4.3 Ecology	4	Monitoring Results	13
4.3 Ecology	4.1	Noise Monitoring	13
4.4 Waste Management 5 Complaints, Notification of Summons and Prosecution	4.2	Water Quality Monitoring	16
Complaints, Notification of Summons and Prosecution	4.3	Ecology	21
Future Key Issues	4.4	Waste Management	22
7 Conclusion	5	Complaints, Notification of Summons and Prosecution	24
 7.1 Noise Monitoring	6	Future Key Issues	26
 7.2 Water Quality Monitoring 7.3 Ecological Impact Monitoring 7.4 Review of the Reasons for and the Implications of Non-compliance 7.5 Summary of action taken in the event of and follow-up on non-compliance 	7	Conclusion	27
 7.3 Ecological Impact Monitoring	7.1	Noise Monitoring	27
 7.4 Review of the Reasons for and the Implications of Non-compliance 7.5 Summary of action taken in the event of and follow-up on non-compliance 	7.2	Water Quality Monitoring	27
7.5 Summary of action taken in the event of and follow-up on non-compliance	7.3	Ecological Impact Monitoring	27
·	7.4	Review of the Reasons for and the Implications of Non-compliance	28
	7.5	Summary of action taken in the event of and follow-up on non-complia	nce
			28

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 June 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 June 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. School examination was taken place at N17 Bui O Public School on 12- 14 June 2023 in the reporting period.
- v. The limit level of noise monitoring station N17-Bui O Public School was adjusted accordingly to 65dB(A) during the period.
- vi. No Action/Limit Level exceedances were recorded in this reporting period.

Water Quality Monitoring

- vii. 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.
- viii. In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, 1 action level at SR4 and 0 limit level exceedances on SS was recorded in the reporting month. It can be concluded that the SS exceedances were possibly due to natural runoff from streams to the sea in the reporting month.



ix. Action Level exceedances at SR4 was recorded on 12 June 2023 on SS (details shown in *Table 4.6*) during ebb tide. No Limit Level exceedances recorded in the reporting month. Corelated the monitoring dates with those days with recorded marine works activities, no marine dredging works were active during the reporting month. Pilot hole drilling on 12 June 2023 within the fully enclosed silt curtain started from 09:20 to 09:36 and 16:00 to 18:40. Water quality monitoring at SR4 was conducted at 07:59 to 08:02 which was before the pilot hole drilling works. No exceedance was recorded on same day during flood tide at 13:12 to 13:15. No exceedance was recorded on same day during flood tide at 13:12 to 13:15 and in the subsequent monitoring on 14 June 2023 both ebb and flood tide. Reviewed the overall work situation and the mitigation measures was implemented by the Contractor, it can be concluded that the SS exceedances at SR4 was possibly due to natural runoff from streams to the sea or sudden changed of water body as a result of frequent rainfall as recorded in the reporting month (Amber rainstorm warning signal recorded on 10 June 2023, heavy showers recorded on 11 June 2023 and rainstorm recorded during water quality monitoring on 12 June 2023).

Ecological Impact Monitoring

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

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.

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

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:

Ke	y Construction Works	Re	commended Mitigation Measures
•	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	•	Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan; Dust control during dust generating works; Silt curtain should be maintained in good condition; Adopt surface drainage and sediment control facilities for sewage installation in village and public roads; Adopt temporary drainage and sediment control facilities on Site; Vehicle wheel-washing and body washing facilities should be provided at the site entrance; Regular water spraying on excavation works for dust control; and
		•	Proper waste handling, recycling and storage.

Introduction

1.1 Scope of the Report

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

1.2 Structure of the Report

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

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	Contractor	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 o 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-RS0039-23	20 Jan 2023	03-02-2023 to 02-08-2023	Valid
Construction Noise Permit under Noise Control Ordinance for POSPS	GW-RS0230-23	7 Mar 2023	27-03-2023 to 26-09-2023	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 06, 13, 19 and 27 June 2023. IEC attended the SSEMC meeting held on 19 May 2023. Holding nursery visit for transplanted trees on 20 June 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
6 June 2023	 San Shek Wan Sewage Treatment Works – The condition of drainage system shall be reviewed and well maintained to prevent muddy water discharged to public during rainstorm. 	15 June 2023
13 June 2023	No particular findings_	NA
19 June 2023	 Pui O Beach – 1. Excavated soil should be covered when idle. 2. Cement and other construction materials should be covered and stored properly. 	21 June 2023
27 June 2023	Pui O Beach — 1. Contractor is requested to clean up the public road more frequently .	28 June 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	0005098
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 School examination was taken place at N17 Bui O Public School on 12- 14 June 2023 in the reporting period.
- 4.1.11 The limit level of noise monitoring station N17-Bui O Public School was adjusted accordingly to 65dB(A) during the period.
- 4.1.12 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	14E100105/17G100383
Turbid meter	Xin Rui WGZ-3B	1807063

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 *Appendix 4.2*.
- 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 Mari	ne Water Monitoring - derived criteria	
DO in mg/L ^B	Surface and Middle: 5.8 mg/L	Surface and Middle: 4 mg/L
DO III IIIg/L	Bottom: 5.9 mg/L	Bottom: 2 mg/L
	14.4 NTU <u>and</u>	23.5 NTU <u>and</u>
Turbidity in NTU	20% exceedance of value at any impact	30% exceedance of value at any impact
(Depth-averaged A) ^C	station compared with corresponding	station compared with corresponding data
	data from control station D	from control station D
	13.1 mg/L <u>and</u>	30.4 mg/L <u>and</u>
SS in mg/L	20% exceedance of value at any impact	30% exceedance of value at any impact
(Depth-averaged A) C	station compared with corresponding	station compared with corresponding data
	data from control station D	from control station D

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

- A. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- B. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- C. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- D. Action Level and Limit Level with 95%-ile / 99%-ile derived from baseline data "and" 20% / 30% exceedance of control station proposed in Baseline Monitoring Report.
- 4.2.19 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	Mid Ebb	Mid	Mid Ebb	Mid	Mid Ebb	Mid	Mid Ebb	Mid Flood	Mid	Mid
	exceeded		Flood		Flood		Flood			Ebb	Flood
SR4	Action	/	/	/	/	/	/	2023/06/12	/	1	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	1	0		1
	Limit	0	0	0	0	0	0	0	0		0

- 4.2.20 In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, 1 action level at SR4 and 0 limit level exceedances on SS was recorded in the reporting month. It can be concluded that the SS exceedances were possibly due to natural runoff from streams to the sea in the reporting month.
- 4.2.21 Checked with contractor and RSS on the marine works activities in the reporting month, the following activities were recorded:
 - 2/6/2023 Operate the auger
 - 5/6/2023 Casing installation for marine HDD2 works
 - 7/6/2023 Casing installation for marine HDD2 works
 - 9/6/2023 Casing installation for marine HDD2 works
 - 12/6/2023 Pilot hole drilling
 - 14/6 2023 Pilot hole drilling
 - 16&19/6 2023 No activity
 - 21/6/2023 Pilot hole drilling
 - 23/6/2023 Pilot hole drilling
 - 26/6/2023 Pilot hole drilling
 - 28/6/2023 Remove the drill pilot
 - 30/6/2023 Remove the drill pilot
- 4.2.22 Action Level exceedances at SR4 was recorded on 12 June 2023 on SS (details shown in *Table 4.6*) during ebb tide. No Limit Level exceedances recorded in the reporting month. Corelated the monitoring dates with those days with recorded marine works activities, no marine



dredging works were active during the reporting month. Pilot hole drilling on 12 June 2023 within the fully enclosed silt curtain started from 09:20 to 09:36 and 16:00 to 18:40. Water quality monitoring at SR4 was conducted at 07:59 to 08:02 which was before the pilot hole drilling works. No exceedance was recorded on same day during flood tide at 13:12 to 13:15 and in the subsequent monitoring on 14 June 2023 both ebb and flood tide. Reviewed the overall work situation and the mitigation measures was implemented by the Contractor, it can be concluded that the SS exceedances at SR4 was possibly due to natural runoff from streams to the sea or sudden changed of water body as a result of frequent rainfall as recorded in the reporting month (Amber rainstorm warning signal recorded on 10 June 2023, heavy showers recorded on 11 June 2023 and rainstorm recorded during water quality monitoring on 12 June 2023).

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 will be conducted once per month (20 June 2023).

MONITORING RESULTS

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

4.4 Waste Management

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

Table 4.7 Summary of Quantities of Waste Material

Waste Type	Quantity this month	Quantity (the end of last month)	Cumulative Quantity-to-Date
Hard Rock and Large Broken Concrete (Inert) (in '000m³)	0	0	0
Reused in this Contract (Inert) (in '000m³)	0	0	0
Reused in other Projects (Inert) (in '000m³)	0	0	0
Disposal as Public Fill (Inert) (in '000m³)	0.32432	0.15179	10.13293
Metals (in '000kg)	0.005	0	7.50650
Paper / Cardboard Packing (in '000kg)	0.0485	0	0.35778
Plastics (in '000kg)	0.0031	0	0.03496
Chemical Wastes (in '000kg)	0	0	0



Waste Type	Quantity this month	Quantity (the end of last month)	Cumulative Quantity-to-Date
General Refuses (in '000kg)	22.94	6.07	497.21

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
June 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 July 2023 to September 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
 Key Construction Works 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 	 Recommended Mitigation Measures Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan; Dust control during dust generating works; Silt curtain should be maintained in good condition; Adopt surface drainage and sediment control facilities for sewage installation in village and public roads; Adopt temporary drainage and sediment control facilities on Site; Vehicle wheel-washing and body washing facilities should be provided at the site entrance; Regular water spraying on excavation works for dust
Removal works of ELS	control; andProper waste handling, recycling and storage.

7 Conclusion

7.1 Noise Monitoring

- 7.1.1 School examination was taken place at N17 Bui O Public School on 12- 14 June 2023 in the reporting period.
- 7.1.2 The limit level of noise monitoring station N17-Bui O Public School was adjusted accordingly to 65dB(A) during the period.
- 7.1.3 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 In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, 1 action level at SR4 and 0 limit level exceedances on SS was recorded in the reporting month. It can be concluded that the SS exceedances were possibly due to natural runoff from streams to the sea in the reporting month.
- 7.2.3 Action Level exceedances at SR4 was recorded on 12 June 2023 on SS (details shown in *Table 4.6*) during ebb tide. No Limit Level exceedances recorded in the reporting month. Pilot hole drilling on 12 June 2023 within the fully enclosed silt curtain started from 09:20 to 09:36 and 16:00 to 18:40. Water quality monitoring at SR4 was conducted at 07:59 to 08:02 which was before the pilot hole drilling works. No exceedance was recorded on same day during flood tide at 13:12 to 13:15 and in the subsequent monitoring on 14 June 2023 both ebb and flood tide. Reviewed the overall work situation and the mitigation measures was implemented by the Contractor, it can be concluded that the SS exceedances at SR4 was possibly due to natural runoff from streams to the sea or sudden changed of water body as a result of frequent rainfall as recorded in the reporting month (Amber rainstorm warning signal recorded on 10 June 2023, heavy showers recorded on 11 June 2023 and rainstorm recorded during water quality monitoring on 12 June 2023).

7.3 Ecological Impact Monitoring

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



be transplanted to Pui O Pumping Station.

- 7.3.3 The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- 7.3.4 The extent of the work site boundaries was checked by the ET during the weekly site audit.
- 7.3.5 Within this reporting period, holding nursery visit for transplanted trees on 20 June 2023.
- 7.3.6 No non-compliance was found during the site inspection while reminders on environmental measures were recommended. Results and findings of these inspections in this reporting period are listed below in *Table 7.1*.

Table 7.1 Summary of Ecological Impact Monitoring

Inspection Date	Reminder and Recommendations	Close-out Date / Status
20 June 2023	 Transplanted trees in holding nursery at Kam Tin The Contractor was reminded to remove other herbaceous plant species from the plant species of conservation importance, <i>Aquilaria sinensis</i> (T392). The Contractor was reminded to have the dead branch pruned for the plant species of conservation importance, <i>Gmelina chinensis</i> (T742). 	27 June 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

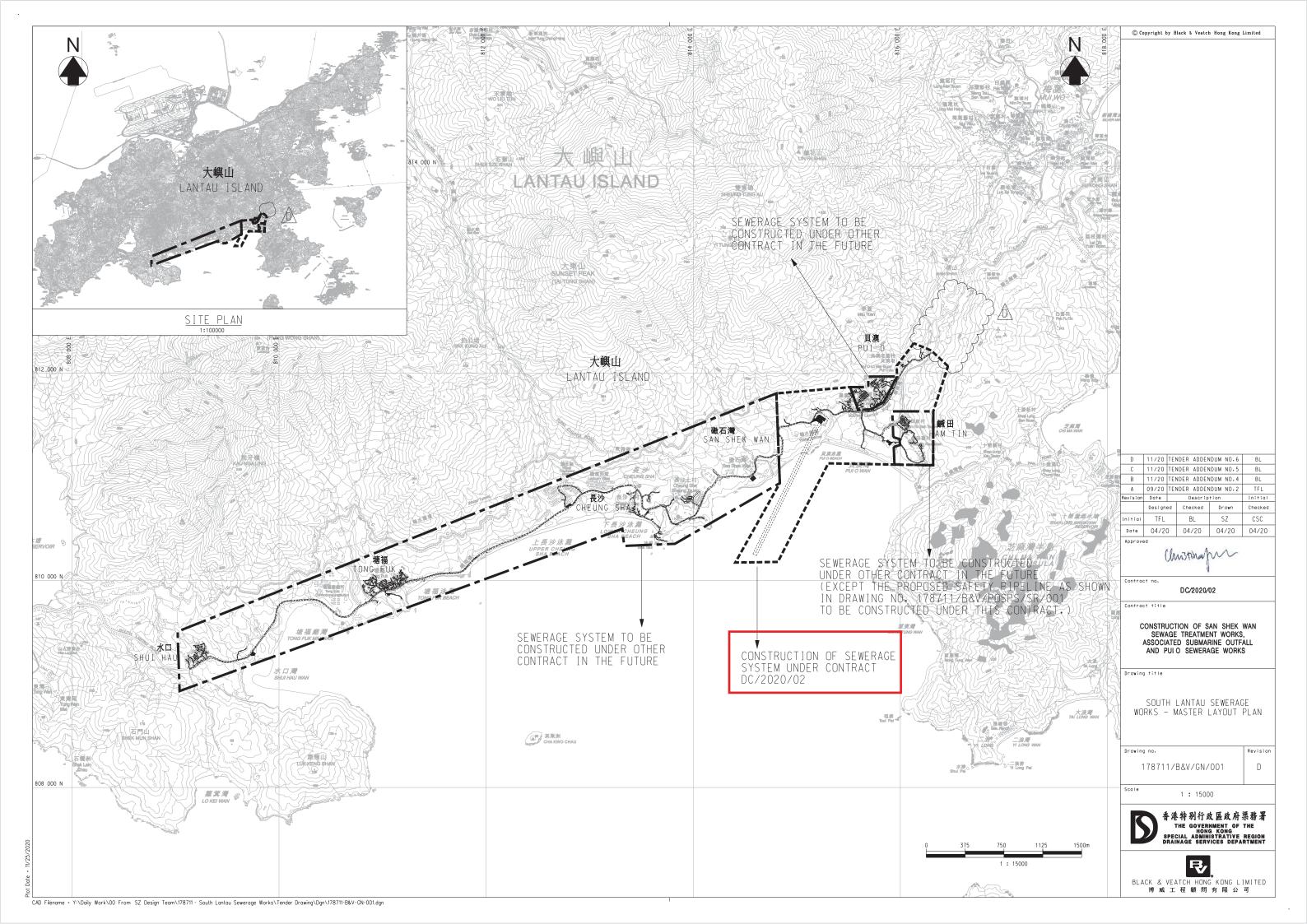


Figure 2.2

Contract Layout Plan

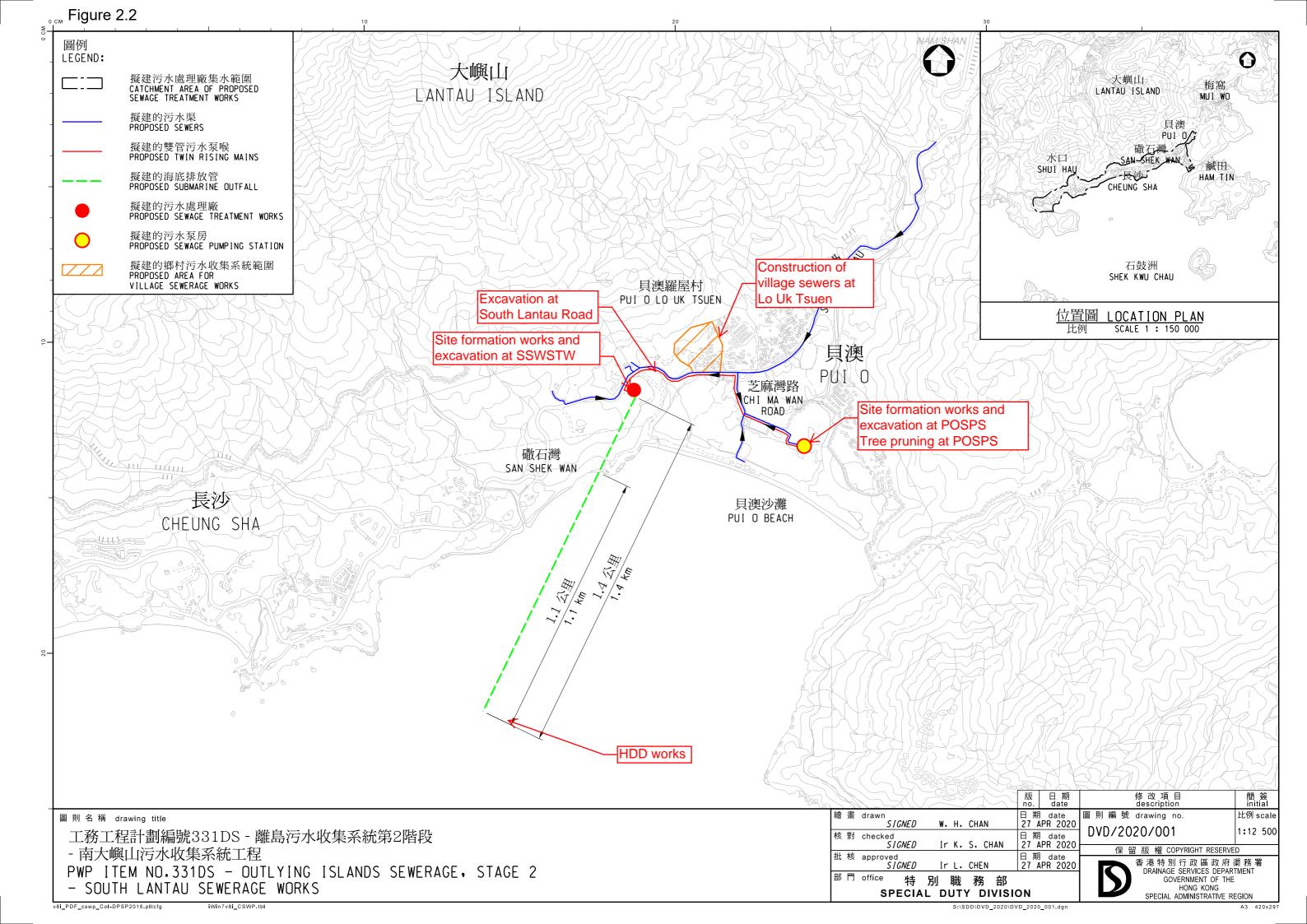


Figure 2.3

Locations of Noise Monitoring Station

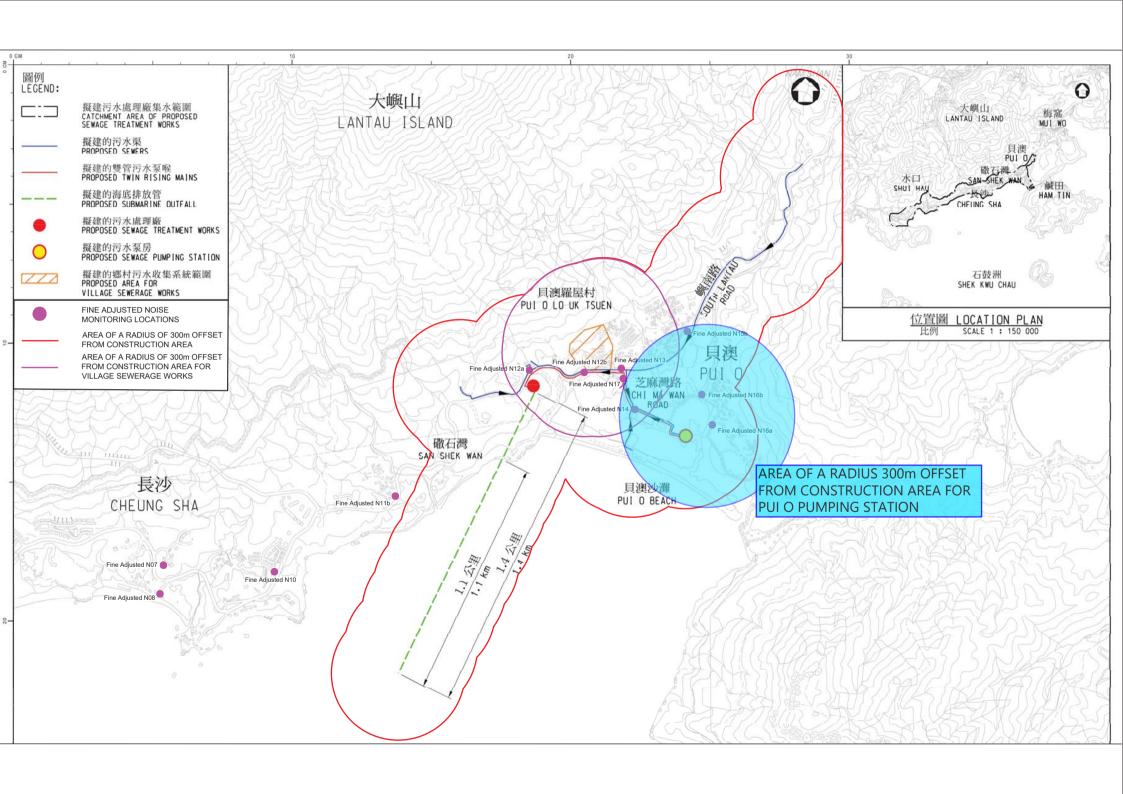


Figure 2.4 Locations of Water Quality Monitoring Stations

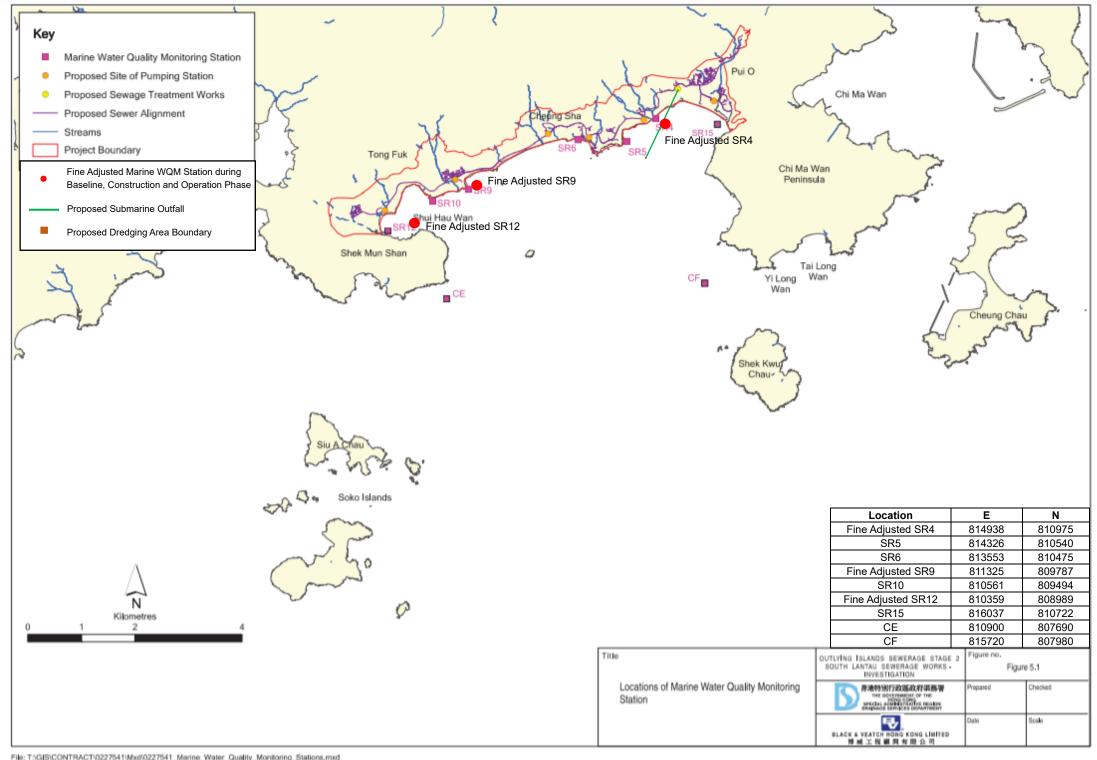


Figure 2.5

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

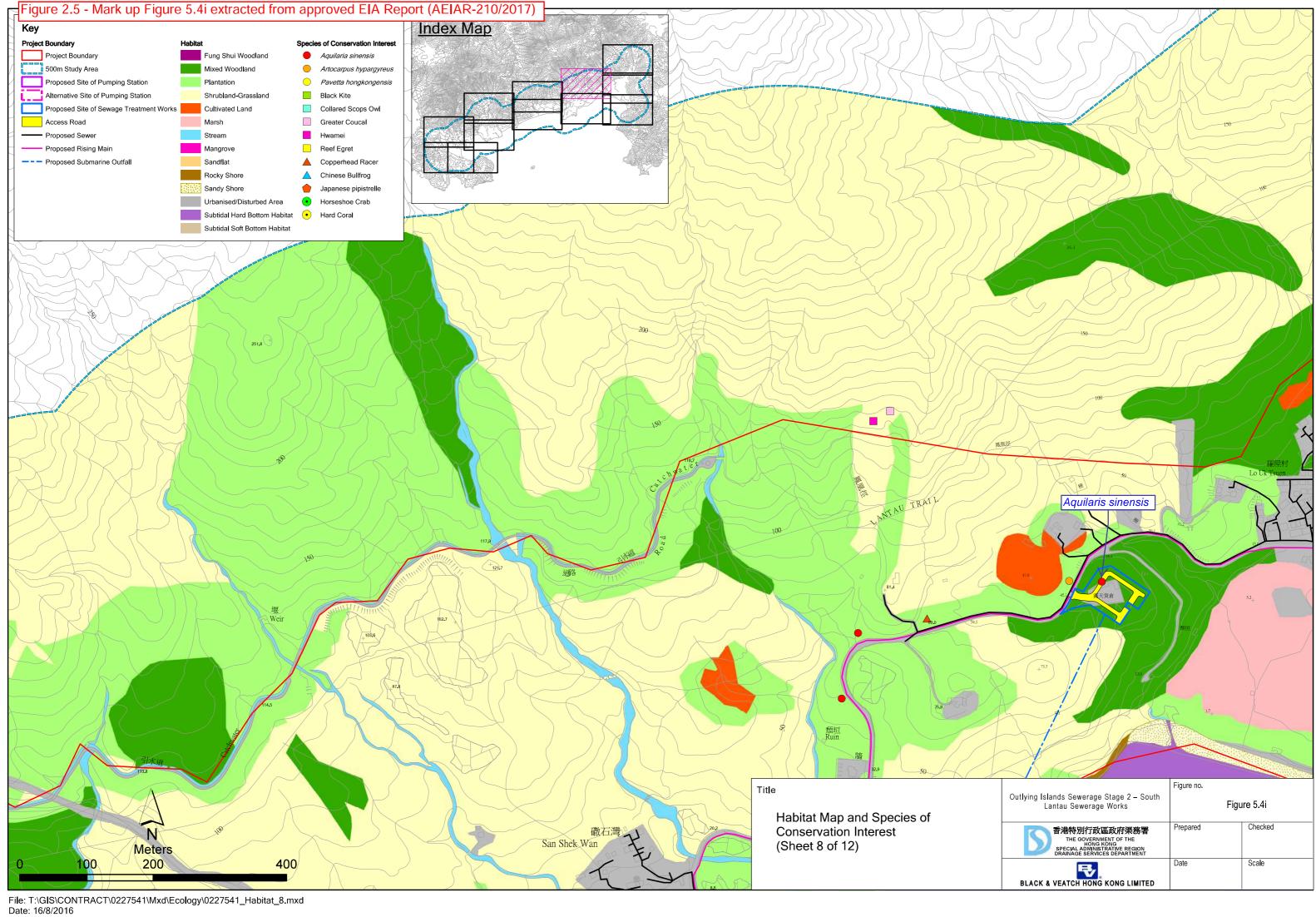
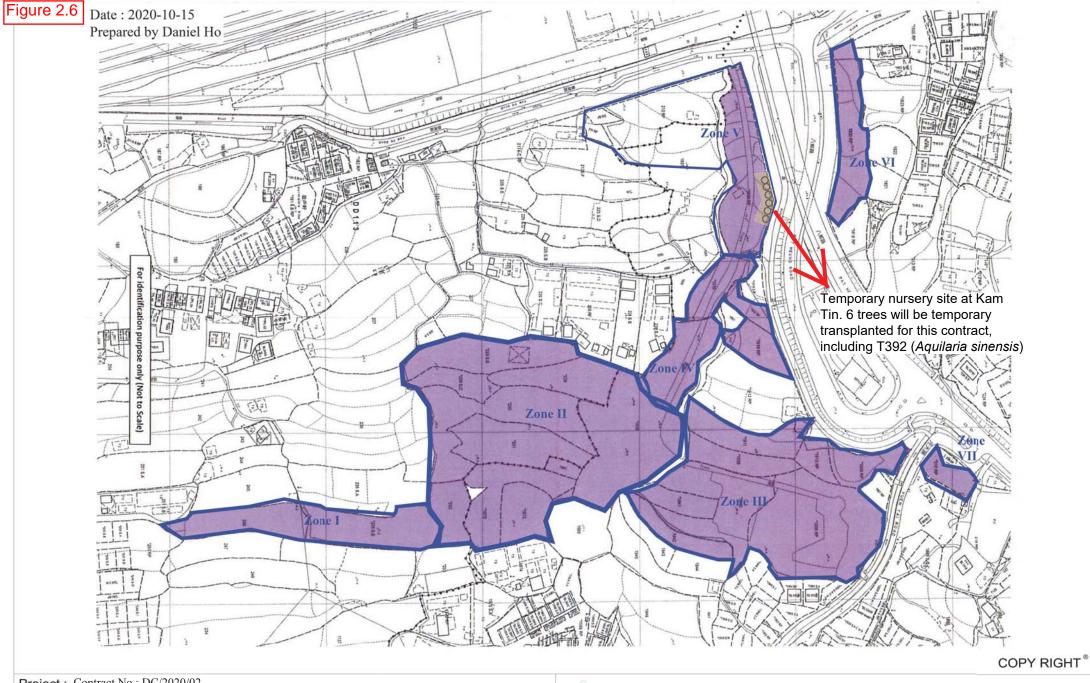


Figure 2.6 Location Plan for Temporary Holding Nursery



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



香港新界蔡涌永基路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.:

22CA0727 01

Page

of

Item tested

Description:

Sound Level Meter (Class 1) Larson Davis

Microphone PCB

Preamp **PCB**

Manufacturer: Type/Model No.:

LxT1 0005098 377B02 173736

PRMLxT1L 042838

Adaptors used:

Item submitted by

Serial/Equipment No.:

Customer Name:

Lam Environmental Services Limited

Address of Customer:

Request No.:

Date of receipt:

27-Jul-2022

Date of test:

01-Aug-2022

Reference equipment used in the calibration

Description:

Model:

Serial No.

Expiry Date:

Traceable to:

Multi function sound calibrator

B&K 4226

2288444

21-Aug-2022

CIGISMEC

Signal generator

DS 360

33873

21-Jan-2023

CEPREI

Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity: Air pressure:

55 ± 10 % 1005 ± 5 hPa

Test specifications

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

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

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

Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

02-Aug-2022

Company Chop:

ENGIN

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

© Soils & Materials Engineering Co., Ltd

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



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





CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

22CA0727 01

Page

of

2

1, Electrical Tests

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

			Expanded	Coverage
Test:	Subtest:	Status:	Uncertanity (dB)	Factor
Self-generated noise	A	Pass	0.3	
oon gonerated heles	C	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	A	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	
3 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	
C. C. Colon III and Colon III	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	
en e	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:

vio Awaran

Checked by:

Chan Yuk Yiu

Date:

Fung Chi Yip 01-Aug-2022

Date:

02-Aug-2022

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

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



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Test Data for Sound Level Meter

Page 1 of 5

Sound level meter type:

LxT1

Serial No.

0005098

Date 01-Aug-2022

Microphone Preamp

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

173736 042838

Report: 22CA0727 01

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

11.1

dB

Noise level in C weighting

12.3

dB

Noise level in Lin

21.2

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	119.0	119.0	0.7	0.0	0.0
120.0	120.0	120.0	0.7	0.0	0.0
89.0	89.0	89.0	0.7	0.0	0.0
84.0	84.0	84.0	0.7	0.0	0.0
79.0	79.0	79.0	0.7	0.0	0.0
74.0	74.0	74.0	0.7	0.0	0.0
69.0	69.0	69.0	0.7	0.0	0.0
64.0	64.0	64.0	0.7	0.0	0.0
59.0	59.0	59.0	0.7	0.0	0.0
54.0	54.0	54.0	0.7	0.0	0.0
49.0	49.0	49.0	0.7	0.0	0.0
44.0	44.0	44.0	0.7	0.0	0.0
39.0	39.0	39.0	0.7	0.0	0.0
34.0	33.9	33.9	0.7	-0.1	-0.1
33.0	32.9	32.9	0.7	-0.1	-0.1

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Test Data for Sound Level Meter

Page 2 of 5

Sound level meter type:		LxT1	xT1 Serial No. 00		0005098	Date	01-Aug-2022
Microphone Preamp	type: type:	377B02 PRMLxT1L		Serial No. Serial No.	173736 042838	Repo	ort: 22CA0727 01
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		29.9	29.9	0.7		-0.1	-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	cy Ref. level Expected le		cted level Actual level		nce(dB)	Deviation	
Hz	dB	dB	dB	+	-	dB	
1000.0	94.0	94.0	94.0	0.0	0.0	0.0	
31.6	94.0	54.6	54.5	1.5	1.5	-0.1	
63.1	94.0	67.8	67.8	1.5	1.5	0.0	
125.9	94.0	77.9	77.9	1.0	1.0	0.0	
251.2	94.0	85.4	85.4	1.0	1.0	0.0	
501.2	94.0	90.8	90.8	1.0	1.0	0.0	
1995.0	94.0	95.2	95.2	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	90.9	1.5	1.5	-0.1
63.1	94.0	93.2	93.2	1.5	1.5	0.0
125.9	94.0	93.8	93.8	1.0	1.0	0.0
251.2	94.0	94.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	94.0	1.0	1.0	0.0

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Test Data for Sound Level Meter

Page 3 of 5

Sound level me	eter type:	LxT1	LxT1 Serial No.		0005098		Date	01-Aug-2022
Microphone Preamp	type: type:	377B PRM	02 LxT1L	Serial No. Serial No.		736 838	Report:	22CA0727 01
1995.0	94.0		93.8	93.8	1.0	1.0	0.0	
3981.0	94.0		93.2	93.3	1.0	1.0	0.1	
7943.0	94.0		91.0	91.0	1.5	3.0	0.0	
12590.0	94.0		87.8	87.8	3.0	6.0	0.0	

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	94.0	1.5	1.5	0.0
125.9	94.0	94.0	94.0	1.0	1.0	0.0
251.2	94.0	94.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	94.0	1.0	1.0	0.0
1995.0	94.0	94.0	94.0	1.0	1.0	0.0
3981.0	94.0	94.0	94.0	1.0	1.0	0.0
7943.0	94.0	94.0	94.1	1.5	3.0	0.1
12590.0	94.0	94.0	94.0	3.0	6.0	0.0

TIME WEIGHTING FAST TEST

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

wildir the digital to commende	(
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	Tolerance(dB)		Deviation
dB	dB	dB	+	-	dB
116.0	111.9	111.9	1.0	1.0	0.0

PEAK RESPONSE TEST

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

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

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

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Test Data for Sound Level Meter

Page 4 of 5

Sound level meter type:

LxT1

Serial No. Serial No. 0005098

Date 01-Aug-2022

Microphone Preamp

type: type: 377B02 PRMLxT1L

Serial No.

173736 042838

Report: 22CA0727 01

Negative polarities:

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

RMS ACCURACY TEST

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

Test frequency:

2000 Hz

Amplitude:

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

Burst repetition frequency: Tone burst signal:

11 cycles of a sine wave of frequency 2000 Hz. (Set to INT)

rono parot orginali					
	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
Time wighting	dB	dB	indication(dB)	+/- dB	dB
Slow	118.0+6.6	118.0	118.0	0.5	0.0

TIME WEIGHTING IMPULSE TEST

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

Test frequency:

Amplitude:

The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

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

PULSE RANGE AND SOUND EXPOSURE LEVEL TEST

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

Test frequency:

4000 Hz

Integration time:

10 sec

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Test Data for Sound Level Meter

Page 5 of 5

Sound level meter type:

٠.

377B02

LxT1

Serial No.

0005098

Date

01-Aug-2022

Microphone Preamp type: type:

PRMLxT1L

Serial No. Serial No. 173736 042838

Report: 22CA0727 01

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	88.0	58.0	58.0	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	88.0	68.0	68.0	1.7	0.0	

OVERLOAD INDICATION TEST

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

Test frequency:

2000 Hz

Amplitude:

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

Burst repetition frequency:

40 Hz

Tone burst signal:

11 cycles of a sine wave of frequency 2000 Hz.

Level	Level reduced by	Further reduced	Difference	Tolerance	Deviation	
at overload (dB)	1 dB	3 dB	dB	dB	dB	
116.2	115.2	112.2	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
122.7	121.7	81.7	81.7	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	quency Expected level Actual level		Tolerance (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	92.3	1.5	3.0	-0.6

-----END-----



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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

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD

ADDRESS:

19/F. REMEX CENTRE,

42 WONG CHUK HANG ROAD,

HONG KONG

WORK ORDER:

HK2312013

SUB-BATCH:

0

LABORATORY:

HONG KONG

DATE RECEIVED:

29-Mar-2023

DATE OF ISSUE:

03-Apr-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]/ [Professional Plus]

Serial No./ Equipment No.:

[14E100105/17G100383]/[N/A]

Date of Calibration:

31-March-2023

GENERAL COMMENTS

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

Mr Chan Siu Ming, Vico Manager - Inorganics

Ma Sign

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER:

HK2312013

ALS

SUB-BATCH:

0

DATE OF ISSUE:

03-Apr-2023

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/ [Professional Plus]

Serial No./

[14E100105/17G100383]/[N/A]

Equipment No.: Date of Calibration:

31-March-2023

Date of Next Calibration:

30-June-2023

PARAMETERS:

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.58	2.41	-0.17
5.26	5.10	-0.16
7.27	7.20	-0.07
	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	3.93	-0.07
7.0	7.03	+0.03
10.0	9.97	-0.03
	Tolerance Limit (pH unit)	±0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	1.0
10	9.86	-1.4
20	19.62	-1.9
30	29.37	-2.1
	Tolerance Limit (%)	±10.0

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

Mr Chan Siu Ming, Vico Manager - Inorganics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER:

HK2312013

SUB-BATCH:

0

DATE OF ISSUE:

03-Apr-2023

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD

Equipment Type:

Multifunctional Meter

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

Serial No./

[14E100105/17G100383]/[N/A]

Equipment No.: Date of Calibration:

31-March-2023

Date of Next Calibration:

30-June-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)
10.0	9.6	-0.4
23.0	22.7	-0.3
43.0	42.7	-0.3
	Tolerance Limit (°C)	±2.0

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

Mr Chan Siu Ming, Vico Manager - Inorganics

Ma Sig



REPORT OF EQUIP	PMENT PERFORMANCE CHECK	CALIBRATION	
Information supplied	by customer:		
CONTACT:	MR. DEREK LO	JOB REFERENCE NO.:	22777053-D21D3401
CLIENT:	LAM ENVIRONMENTAL SERVI	CES LTD.	
DATE RECEIVED:	21/04/2023	141	
DATE OF ISSUE:	28/04/2023		
ADDRESS:	19/F, REMAX CENTRE, 42 WONG	G CHUK HANG ROAD,	
	HONG KONG		
PROJECT:			
METHOD OF PERF	ORMANCE CHECK/ CALIBRATION	ON:	J1010-07
Ref: APHA22nd ed 21) / = :-
~ ~ · · · · · · · · · · · · · · · · · ·			
COMMENTS It is cortified that the i	tem under performance check/calibration	on has been calibrated/checked b	ov corresponding calibrated
		on has been canorated entered t	of corresponding constant
equipment in the labor	and calibration frequency stated in the re	enort unless otherwise stated th	ne internal acceptance criteria of
FT Laboratories Ltd w		eport, unless otherwise stated, if	ie internar acceptance oriteria or
FT Laboratories Ltd w	ill be followed.		
Scope of Test:		Turbidity	
Equipment Type:		Turbidimeter	
Brand Name:		Xin Rui	
Model No.:		WGZ-3B	
Serial No.:		1807063	
Equipment No.:			
Date of Calibration:		27/04/2023	
Remarks:			
This is the Final Reno	rt. Results apply to sample(s) as submit	ted. All pages of this report hav	e been checked and approved
for release.	in results upply to sample (c) as a second	1 8	•
for release.			
	0		
	7 5		
	2/4 42		
	1-21		
Certified By	116	Issue Date:	28/04/2023
Certified By:	WONG Chi Wai Santa		
	WONG Chi Wai Sanjo		
	Senior Chemist		
			4

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Form No.: HG022-002 Rev 0 20190101

Page 1 of 2



REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER:

22777053-D21D3401

DATE OF ISSUE:

28/04/2023

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD.

Equipment Type:	Turbidimeter		
Brand Name:	Xin Rui		
Model No.:	WGZ-3B		
Serial No.:	1807063		
Equipment No.:			
Date of Calibration:	27/04/2023		
Date of next Calibation:	28/07/2023	121 124	
Lab I.D.:	H230021-01		

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	3.99	-0.2%	
10	10.00	0.0%	
40	40.00	0.0%	
100	99.99	0.0%	
400	400	-0.1%	
1000	1000	0.0%	
	Tolerance Limit (±)	10%	

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

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Form No.: HG022-002 Rev 0 20190101

Page 2 of 2

Address: Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, N.T., H.K. Tel: 27584861, Fax: 27588962

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 Jun 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	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28 May	29 May	30 May	31 May	01 Jun	02 Jun	03 Jun
					Noise Monitoring	
					Mid-Ebb 11:00	
04 Jur	05 Jun	06 Jun	07 Jun	08 Jun	Mid-Flood 17:51 09 Jun	10 Jun
0430	03 0411	00 3411	or suit	00 3411	03 duii	10 3411
				Noise Monitoring		
	Mid-Ebb 13:30		Mid-Ebb 14:40		Mid-Ebb 16:33	
	Mid-Flood 18:30*		Mid-Flood 7:00		Mid-Flood 9:15	
11 Jur	12 Jun	13 Jun	14 Jun	15 Jun	16 Jun	17 Jun
	Niele - Meelikeele -					
	Noise Monitoring					
	Mid-Ebb 8:05		Mid-Ebb 9:52		Mid-Ebb 11:13	
18 Jur	Mid-Flood 13:33	20 Jun	Mid-Flood 16:05 21 Jun		Mid-Flood 18:13 23 Jun	24 Jun
					Noise Monitoring	
	Mid-Ebb 13:09		Mid-Ebb 14:23		Mid-Ebb 15:30	
25 Jur	Mid-Flood 18:30* 26 Jun	27 Jun	Mid-Flood 7:30* 28 Jun	29 Jun	Mid-Flood 7:38 30 Jun	01 Jul
25 Jul	20 3011	27 Juli	20 Juli	29 3011	30 Juli	O i Jui
			Noise Monitoring			
	Mid-Ebb 17:31		Mid-Ebb 8:15		Mid-Ebb 9:51	
	Mid-Flood 10:41		Mid-Flood 14:13		Mid-Flood 16:54	



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) Jul 2023

Note:

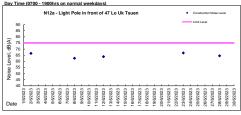
*Mid-tide time during daylight period of the ebb/flood tide is scheduled in consideration of navigation safety and to capture major marine works operation.

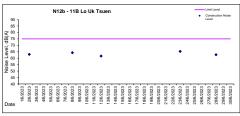
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25 Jun	26 Jun	27 Jun	28 Jun	29 Jun	30 Jun	01 Jul
02 Jul	03 Jul	04 Jul	05 Jul	06 Jul	07 Jul	08 Jul
	Mid-Ebb 11:58		Mid-Ebb 13:43		Mid-Ebb 15:24	
09 Jul	Mid-Flood 18:30* 10 Jul	11 Jul	Mid-Flood 8:00* 12 Jul	13 Jul	Mid-Flood 8:25 14 Jul	15 Jul
	Mid-Ebb 18:04 Mid-Flood 11:46		Mid-Ebb 8:35 Mid-Flood 14:53		Mid-Ebb 10:22 Mid-Flood 17:00*	
16 Jul	17 Jul	18 Jul	19 Jul	20 Jul	21 Jul	22 Jul
	Mid-Ebb 12:18 Mid-Flood 18:30*		Mid-Ebb 13:29 Mid-Flood 7:30*		Mid-Ebb 14:30 Mid-Flood 7:28	
23 Jul	24 Jul	25 Jul	26 Jul	27 Jul		29 Jul
	Mid-Ebb 16:01		Mid-Ebb 18:00		Mid-Ebb 8:29	
30 Jul	Mid-Flood 9:26 31-Jul	1-Aug	Mid-Flood 12:14 2-Aug	3-Aug	Mid-Flood 15:53 4-Aug	5-Aug
	Mid-Ebb 10:59					
	Mid-Ebb 10:59 Mid-Flood 18:30					

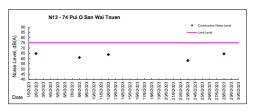
Appendix 4.3

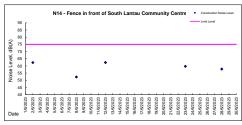
Noise Monitoring Results and Graphical Presentations

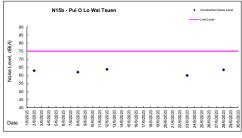
Associated Submarine Outfall and Pui
Graphic Presentation of Noise Monitoring Result
Day Time (0700 - 1900hrs on normal weekdays)

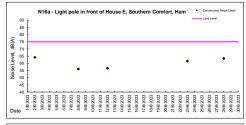


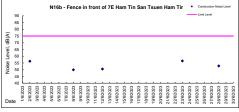


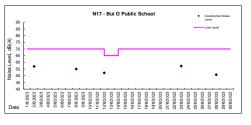














Day Time (0700 - 1900hrs on normal weekdays)

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

			0-111		Measur	ement No	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	M: 0	Other Noise
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Major Construction Noise Source(s)*	
			CHECK		Unit	dB(A), (5	-min)		Unit:	dB(A), (30-min)		Noise Source(s)*	Source(s)
				11:26	67.4	71.3	47.5						
				11:31	65.0	69.0	46.3						
2 Jun 2023	Sunny	0.2	93.9	11:36	65.5	69.8	44.4	66.5	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
2 0011 2020	Outliny	0.2	00.0	11:41	68.6	71.0	45.2	00.5	75.5	CDASCIIIC ECVCI	73	IVA	Hanne
				11:46	66.3	70.5	47.4						
				11:51	64.8	68.7	45.7						
				14:15	57.6	62.8	50.3						
				14:20	67.1	69.7	51.6						
8 Jun 2023	Sunny	0.1	94.1	14:25	62.5	65.9	50.6	62.5	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
0 Juli 2023	Cumy	0.1	01.1	14:30	61.2	64.8	58.8	02.0	70.0	ADDOMING EGYON		IVA	Hanne
				14:35	60.3	61.5	59.6						
				14:40	59.6	60.6	50.3						
				14:15	64.2	68.1	44.2	<u> </u>					
				14:20	63.1	67.2	43.1	<u> </u>					
12 Jun 2023	Sunny	0.0	94.1	14:25	65.8	69.9	45.6	63.9	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				14:30	59.4	63.1	42.8					1071	Tiuric
				14:35	58.1	62.5	42.9						
				14:40	66.6	72.8	46.6						
				14:15	67.4	71.2	56.1	<u> </u>					
				14:20	68.4	72.2	57.1	1					
23 Jun 2023	Sunny	0.0	94.1	14:25	63.9	67.7	52.6	66.9	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				14:30	65.3	69.1	54.0	<u> </u>				1 1/1 1	1141110
				14:35	66.5	70.3	55.2	↓					
				14:40	68.1	71.9	56.8						
				14:15	64.5	68.2	54.1	↓					
				14:20	64.4	68.1	54.0	↓					
28 Jun 2023	Sunny	0.3	94.1	14:25	64.9	68.6	54.5	64.5	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic, Dogs</td></baseline>	75	N/A	Traffic, Dogs
				14:30	62.8	66.6	52.3	↓					-,
				14:35	64.7	68.9	54.6	↓					
	1		1	14:40	65.4	69.2	55.1	1		1			

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



Day Time (0700 - 1900hrs on normal weekdays)

Location: N12b - 11B Lo Uk Tsuen

			0 11 11		Measur	ement No	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Other Noise	
Date	Weather	Wind Speed	Calibration 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)	
				14:15	62.1	65.8	49.9							
				14:20	61.8	64.4	47.6							
2 Jun 2023	Sunny	0.1	93.9	14:25	65.8	67.3	48.4	63.0	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic	
	,			14:30	62.5	66.6	50.1					IVA	Timino	
				14:35	62.7	67.1	48.8							
				14:40	61.5	64.6	47.4							
				13:40	65.3	67.3	48.3							
				13:45	62.9	66.5	48.3							
8 Jun 2023	Sunny	0.0	94.1	13:50	64.8	67.8	48.5	64.3	76.8 <baseline 75<="" level="" td=""><td><baseline 75<="" level="" td=""><td>N/A</td><td>Traffic</td></baseline></td></baseline>	<baseline 75<="" level="" td=""><td>N/A</td><td>Traffic</td></baseline>	N/A	Traffic		
				13:55 14:00	66.5 61.2	69.4 63.5	49.2 46.2							
				14:00	62.9	66.6	46.2							
				13:40	59.9	63.5	46.3							
				13:45	61.2	64.9	44.8							
				13:50	63.8	67.8	45.9							
12 Jun 2023	Sunny	0.0	94.1	13:55	58.7	61.4	47.6	61.7	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic	
				14:00	64.1	67.6	49.3							
				14:05	59.0	62.5	43.9							
				13:40	66.6	69.8	54.3							
				13:45	64.2	67.5	52.0							
				13:50	64.8	68.2	52.5	05.0	70.0		70		m 20	
23 Jun 2023	Sunny	0.0	94.1	13:55	64.4	67.5	52.3	65.3	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic	
				14:00	64.1	67.3	51.9							
				14:05	66.8	69.9	54.5							
				13:40	62.9	66.5	52.6							
				13:45	62.1	66.0	52.7				75			
28 Jun 2023	Sunny	0.0	94.1	13:50	62.2	66.0	51.8	62.7	76.8	<baseline level<="" td=""><td>N/A</td><td>Traffic</td></baseline>		N/A	Traffic	
20 Juli 2020	Curry	0.0	37.1	13:55	64.0	67.8	52.6	02.7	70.0	ADUSCINIC LOVE		IWA	Haille	
				14:00	61.7	65.5	51.8							
				14:05	63.1	66.8	52.7						I	

^{*} 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 17 1		Measur	ement No	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Main Control	Other
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Major Construction	Noise
					Unit	: dB(A), (5	i-min)		Unit:	dB(A), (30-min)		Noise Source(s)*	Source(
				13:44	65.6	68.4	57.2						
				13:49	64.1	68.8	58.4						
2 Jun 2023 Sunny	0.0	93.9	13:54	65.0	67.6	59.4	64.7	73.6	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffi</td></baseline>	75	N/A	Traffi	
	***		13:59	64.9	68.4	57.6	· · · ·				IVA	11411	
				14:04	63.9	67.7	58.4						
				14:09	64.6	68.2	59.5						
8 Jun 2023 Sunny 0.0			11:30	55.7	58.6	52.5							
			11:35	57.3	59.4	47.8	60.9		<baseline level<="" td=""><td></td><td></td><td rowspan="2">Traffic</td></baseline>			Traffic	
	0.0	94.1	11:40	60.5	63.2	48.3		73.6		75	N/A		
				11:45 11:50	63.4 61.3	67.5 65.4	53.9 52.4	_					l
				11:50	62.5	66.1	52.4						
			11:30	63.2	65.9	47.2							
				11:35	61.8	64.3	46.3	63.7					
			94.1	11:40	65.3	67.8	48.9						
12 Jun 2023	Sunny	0.2		11:45	66.2	68.9	49.3		73.6	<baseline level<="" td=""><td>75</td><td>N/A</td><td rowspan="3">Traffic</td></baseline>	75	N/A	Traffic
				11:50	59.1	61.4	44.4						
				11:55	63.4	66.9	45.8						
				11:30	58.5	61.5	52.2						
				11:35	55.4	58.2	49.1						
23 Jun 2023	0	0.0	94.1	11:40	55.3	58.2	49.0	58.0	73.6	<baseline level<="" td=""><td>75</td><td>27//</td><td rowspan="2">Traffic</td></baseline>	75	27//	Traffic
23 Jun 2023	Sunny	0.0	94.1	11:45	59.1	62.0	52.7	58.0	73.6	<baseline level<="" td=""><td>/5</td><td>N/A</td></baseline>	/5	N/A	
				11:50	58.2	61.3	51.7						
				11:55	59.7	62.6	53.4						
				11:30	61.5	64.7	54.8						
				11:35	61.2	64.6	54.5						
28 Jun 2023	Sunny	0.1	94.1	11:40	63.3	66.5	56.3	64.4	73.6	<baseline level<="" td=""><td rowspan="2">75</td><td>N/A</td><td>Traf</td></baseline>	75	N/A	Traf
20 00 2020	Carriy	5.1	0 7.1	11:45	65.8	69.1	59.2		13.0			N/A	Traffic
				11:50 63.2 66.5 56.5			1						
	1		11:55	67.6	70.9	60.7							

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



Day Time (0700 - 1900hrs on normal weekdays)

Location: N14 - South Lantau Community Centre

			Calibration		Measure	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Other
Date	Weather	Wind Speed	Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construct	Noise
			CHECK		Unit: dB(A), (5-min)				Unit:	dB(A), (30-min)		ion Noise	Source(s)
				10:15	60.0	63.5	53.9						
				10:20	61.4	64.1	55.0						
2 Jun 2023	Sunny	0.1	94.1	10:25	62.5	63.3	54.7	62.3	62.2	47	75	N/A	Traffic
2 3411 2023	Suriny	0.1	34.1	10:30	63.8	68.5	55.3	02.3	02.2	47	75	N/A	Hanne
				10:35	62.3	68.2	54.9						
			10:40	63.0	65.7	53.4							
				10:55	50.2	53.0	45.3						
8 Jun 2023 Sunny		0.0		11:00	53.1	55.3	46.3	52.3		<baseline level<="" td=""><td></td><td></td><td></td></baseline>			
	Suppy		94.1	11:05	53.4	55.3	44.6		62.2		75	N/A	Traffic
	Suriny	0.0	34.1	11:10	54.6 56.2 46.5	32.3	02.2	CDasellile Level	1	N/A	Hanne		
				11:15	50.4	53.4	46.5						
				11:20	49.7	50.9	45.8						
				10:55	64.6	66.7	48.9						
				11:00	55.9	57.4	48.6	62.4					
12 Jun 2023	Sunny	0.0	94.1	11:05	54.4	55.7	50.8		62.2	48	75	N/A	Traffic
12 3011 2023	Guilly	0.0	0	11:10	56.3	58.6	50.1		OZ.Z	40	75	IN/A	Hanne
				11:15	65.1	67.2	52.1						
				11:20	65.0	67.0	53.2						
				10:55	56.7	59.8	48.5						
				11:00	57.4	60.5	49.2						
23 Jun 2023	Sunny	0.2	94.1	11:05	60.3	63.4	52.0	59.7	62.2	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
23 Juli 2023	Suriny	0.2	34.1	11:10	59.6	62.4	51.1	39.7	02.2	CDasellile Level	75	IN/A	Hanne
				11:15	59.3	62.4	51.3						
				11:20	62.4	65.5	54.3						
				10:55	57.9	60.8	48.3						
				11:00	56.2	59.0	46.6						
28 Jun 2023	Sunny	0.4	94.1	11:05	56.6 59.5 47.2	57.8	62.2	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic		
20 0011 2020	Suriny	0.4	34.1	11:10	59.9	62.6	50.3	37.0	02.2	<baseline level<="" td=""><td>13</td><td>IN/A</td><td>Traine</td></baseline>	13	IN/A	Traine
				11:15	59.4 62.1 49.8								
	1	1		11:20	54.6	57.6	45.2						

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



Day Time (0700 - 1900hrs on normal weekdays)

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

			Calibration		Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level	Major	
Date	Weather	Wind Speed	Check	Time	Leq	L10	L90	Leq Leq		Leq	Leq	Construction Noise	Other Noise Source(s)
			CHECK		Unit	dB(A), (5	-min)		Unit: dB(A), (30-min)			Source(s)*	
				10:50	63.9	65.9	54.4						
				10:55	60.9	63.2	57.6						
2 Jun 2023	Sunny	0.2	94.1	11:00	59.4	62.8	51.2	62.9	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
2 0411 2020	Cumy	0.2	U-1.1	11:05	64.5	65.5	50.3	02.3	70.7	CDascillic Ecvci	13	IVA	Hanne
				11:10	62.8	66.1	54.6						
				11:15	63.6	66.1	53.4						
				15:00	56.3	60.6	47.5						
8 Jun 2023 Sunny	0.0	94.1	15:05	54.3	62.6	47.3	61.9		<baseline level<="" td=""><td></td><td rowspan="3">N/A</td><td></td></baseline>		N/A		
			15:10	55.3	59.3	47.9		70.7		75		Traffic	
		04.1	15:15	65.4	67.6	54.9	01.0						
				15:20	59.4	62.5	55.7						
			15:25	66.0	68.8	56.2							
				15:00	66.9	70.5	57.9						
				15:05	61.1	66.5	55.5	63.7					
12 Jun 2023	Sunny	0.0	94.1	15:10	62.4	65.7	54.4		70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
	,			15:15	63.2	67.0	53.1					14/1	Tiuric
				15:20	64.8	68.5	56.8						
				15:25	60.1	63.8	55.1						
				15:00	56.6	60.1	53.1						Ì
				15:05	55.5	59.2	51.9						
23 Jun 2023	Sunny	0.0	94.1	15:10	59.2	62.8	55.6	59.9	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
	,			15:15	62.3	65.3	58.7					14/1	Tiuric
				15:20	58.8	62.3	55.2						
				15:25	62.5	66.1	58.4						
				15:00	63.3	66.5	59.2						
				15:05	61.0	64.2	56.7						
28 Jun 2023	Sunny	0.0	94.1	15:10	62.4	65.8	58.2	63.4	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				15:15	61.6	64.9	57.4	1		Chaseine Level	75	IVA	Traine
				15:20	64.8	68.1	60.5						
				15:25	65.5	68.7	61.3						

^{*} 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

					Measur	ement Noi	ise I evel	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	
Date	Date Weather W	Wind Speed	Calibration	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction	Other Noise
			Check		Unit: dB(A), (5-min)		204	Unit:	Leq	Noise Source(s)*	Source(s)		
				8:33	69.0	69.7	67.2					· · ·	
				8:38	64.4	66.5	58.7						
2 Jun 2023	Sunny	0.1	94.0	8:43	60.7	65.4	52.9	64.2	68.1	<baseline level<="" td=""><td>75</td><td></td><td></td></baseline>	75		
2 Juli 2023	Sunny	0.1	94.0	8:48	62.2	66.8	54.2	64.2	68.1	<baseline level<="" td=""><td>75</td><td>Crane</td><td>Traffic</td></baseline>	75	Crane	Traffic
				8:53	61.1	63.8	55.5						
				8:58	59.4	63.6	54.1						
	8 Jun 2023 Sunny			9:45	55.3	57.4	47.9					N/A	
				9:50	57.5	60.5	49.3	56.1		<baseline level<="" td=""><td></td><td></td></baseline>			
8 Jun 2023		0.2	94.1	9:55	58.8	60.2	49.5		68.1		75		Traffic
0 0011 2020	Curry	0.2		10:00	52.7	55.2	47.4		00.1	ADDIOOMING EGYON			
				10:05	55.4	56.7	47.6						
				10:10	54.3	56.8	49.2						
		0.0		9:45	54.7	57.3	48.0	56.7					Traffic
				9:50	57.4	59.9	46.7						
12 Jun 2023	Sunny		94.1	9:55	56.9	59.4	47.2		68.1	<baseline level<="" td=""><td>75</td><td>N/A</td></baseline>	75	N/A	
	-			10:00	58.4	60.9	46.8						
				10:05	55.1	57.6	45.9						
				10:10	56.3	58.9	46.3						
				9:45	62.2	65.3	58.0						
				9:50 9:55	61.8 59.1	64.8 62.3	57.6 54.9						
23 Jun 2023	Sunny	0.1	94.1	10:00	61.4	64.3	56.9	61.6	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				10:05	62.6	65.7	58.6						
				10:10	61.8	64.8	57.3						ii
				9:45	61.2	63.7	51.4						
				9:50	61.5	64.0	51.7						Traffic
	_			9:55	63.8	66.3	54.2						
28 Jun 2023	Sunny	0.1	94.1	10:00	62.2	64.8	52.6	63.4	68.1	<baseline level<="" td=""><td rowspan="2">75</td><td rowspan="2">N/A</td></baseline>	75	N/A	
				10:05	64.4	66.9	54.3						
							Ì						

^{*} 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

			0.17		Measur	ement No	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Od N.
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq			Construct	Other Noise
			Crieck		Unit: dB(A), (5-min)				Unit:	dB(A), (30-min)		ion Noise	Source(s)
				9:03	52.6	55.7	49.2						
				9:08	55.4	57.2	48.7						
2 Jun 2023	Sunny	0.2	93.9	9:13	51.9	54.7	47.2	56.3	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
2 0011 2020	Curiny	0.2	00.0	9:18	58.3	61.7	50.5	50.5		CDASCIIIC ECVCI	75	IN/A	Hanne
				9:23	60.1	66.6	49.9						
				9:28	52.4	57.4	49.2						
				10:20	48.8	50.9	45.0			<baseline level<="" td=""><td></td><td rowspan="3">N/A</td><td></td></baseline>		N/A	
		0.1		10:25	49.3	51.5	44.8	50.0			75		Traffic
8 Jun 2023	Sunny		94.1	10:30	48.7	51.4	44.9		68.5				
0 0011 2020 Curii	Curiny	0.1	0 1	10:35	46.6	48.4	43.5		00.0	CDASCIIIC ECVCI		IN/A	
				10:40	51.2	54.3	42.7						
				10:45	52.6	55.4	43.6						
				10:20									
				10:25	49.4	52.2	44.5						
12 Jun 2023	Sunny	0.0	94.1	10:30	51.3	53.3	44.6	50.5	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
12 0011 2020	ou,			10:35	52.8	56.3	46.3					IVA	Hame
				10:40	48.6	51.0	44.1						
				10:45	49.3	52.8	43.8						
				10:20	54.1	60.4	43.7						
				10:25	53.4	59.8	43.2						
23 Jun 2023	Sunny	0.1	94.1	10:30	53.6	59.7	42.9	56.5	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
20 0411 2020	ou,	***	*	10:35	56.8	63.0	46.5	00.0	00.0	45400mio 2010i		IN/A	1 raffic
				10:40	60.2	66.5	49.7						
				10:45	56.7	63.0	46.3						
				10:20	51.2	54.7	47.6						Traffic
				10:25	56.5	60.0	52.9						
28 Jun 2023	Sunny	0.1	94.1	10:30	54.0	57.6	50.3	52.8	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td></baseline>	75	N/A	
	Jun., y			10:35	49.6	53.2	45.8	J	00.0	 	75	19/74	
				10:40	51.1	54.5	47.6]					
		1	1	10:45	50.1	53.5	46.3					1	l

 $^{^{\}star}$ 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

			0-11111		Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level	Major	
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction Noise	Other Noise Source(s)
					Unit: dB(A), (5-min)		Unit: di		dB(A), (30-min)	•	Source(s)*		
				9:44	53.6	56.3	52.1						
				9:49	55.1	55.5	52.5					N/A	
2 Jun 2023	Sunny	0.2	94.1	9:54	55.1	56.6	53.1	57.0	62.3	<baseline level<="" td=""><td>70</td><td>Traffic</td></baseline>	70		Traffic
2 0011 2020	Outility	0.2	04.1	9:59	55.7	56.6	53.8	37.0	02.0	CDascillic Ecvel	70	IVA	Hanne
				10:04	55.6	56.7	53.9						
				10:09	61.4	63.3	55.0						
	8 Jun 2023 Sunny			13:00	53.6	56.0	42.6	55.0		<baseline level<="" td=""><td></td><td></td><td></td></baseline>			
				13:05	54.1	56.2	42.9					N/A	
8 Jun 2023		0.0	94.1	13:10	55.8	58.3	43.5		62.3		70		Traffic
004112020		04.1	13:15	57.6	58.2	42.9					19/71	Hame	
				13:20	54.2	56.4	42.0						
				13:25	53.1	55.5	42.1						
				13:00	54.5	55.9	48.8						
				13:05	51.0	53.0	49.0	52.1					
12 Jun 2023	Sunny	0.1	94.1	13:10	50.2	51.9	47.1		62.3	<baseline level<="" td=""><td>65</td><td>N/A</td><td>Traffic</td></baseline>	65	N/A	Traffic
	,			13:15	53.5	55.0	46.3				**	1771	Tallo
				13:20	51.4	52.8	49.0						
				13:25	50.3	51.9	48.1						
				13:00	54.0	56.4	46.8						l
				13:05	54.2	56.6	47.2						
23 Jun 2023	Sunny	0.0	94.1	13:10	60.1	62.5	43.6	57.2	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
	,			13:15	56.3	58.7	49.2					1771	Tiuric
				13:20	56.9	59.3	49.9						
				13:25	58.4	60.5	51.2						
				13:00	52.4	56.1	49.6	1					
				13:05	50.2	53.8	47.5	1					
28 Jun 2023	Sunny	0.3	94.1	13:10	51.3	54.9	48.6	50.8	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
				13:15	49.4	53.2	46.6	30.0	02.3	Chascillo Ecvol	70	N/A	Tarric .
				13:20	49.8	53.6	47.0	1					ì
				13:25	50.8	54.4	48.2						

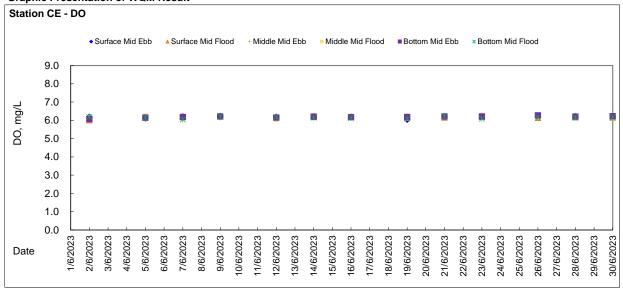
^{*} N/A refers to no major construction noise observed during noise monitoring

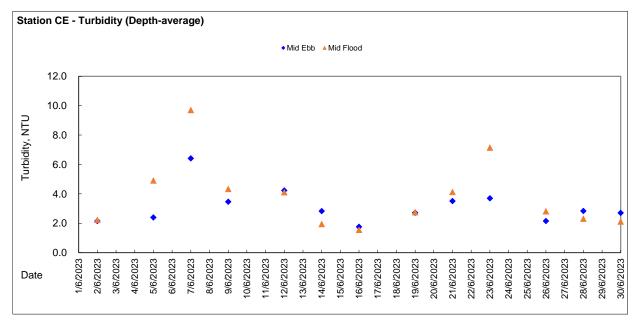
Appendix 4.4

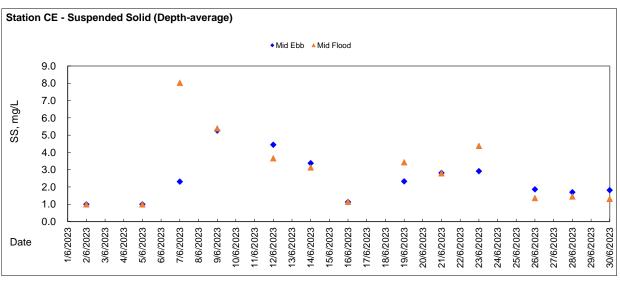
Marine Water Quality Monitoring Results and Graphical Presentations



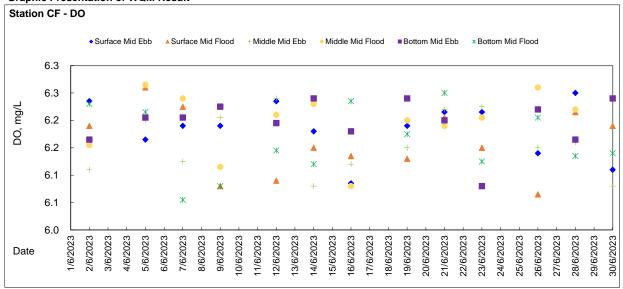
Graphic Presentation of WQM Result

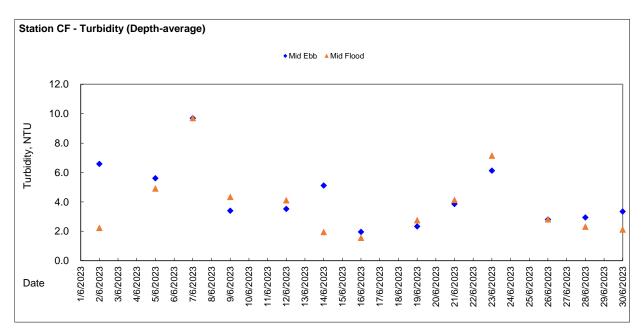


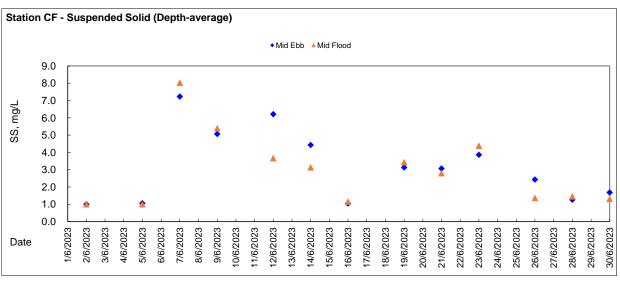




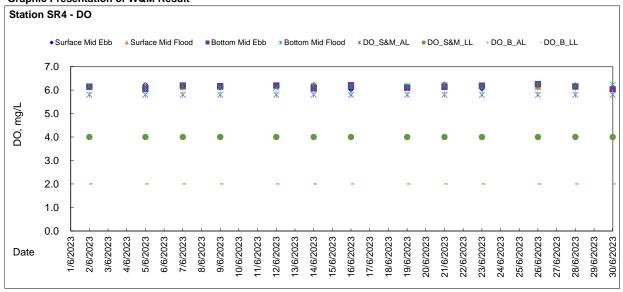


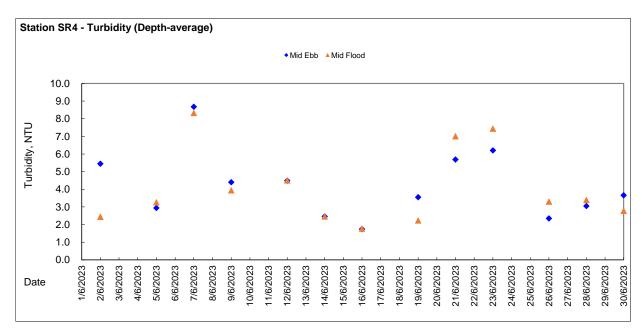


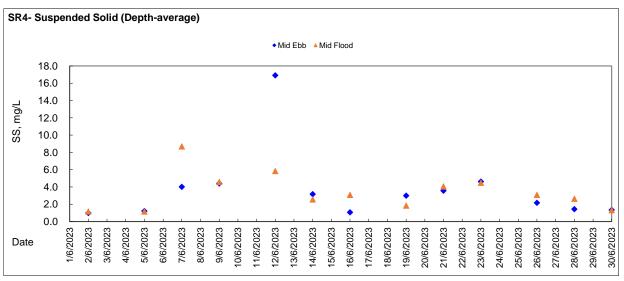




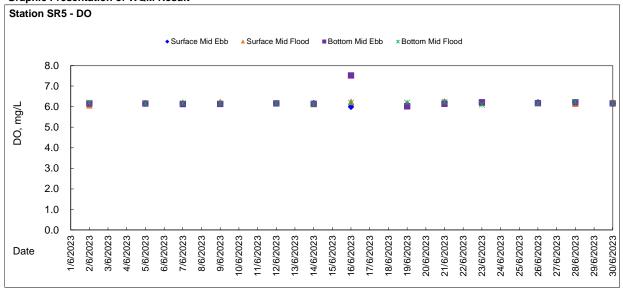


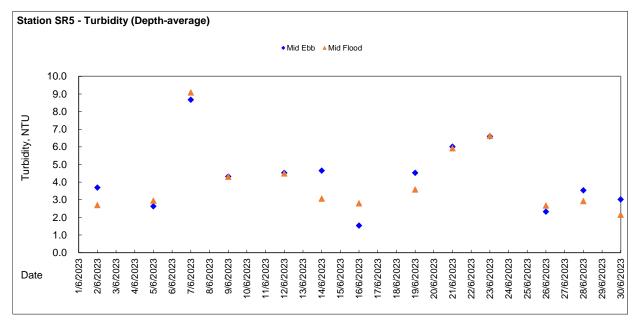


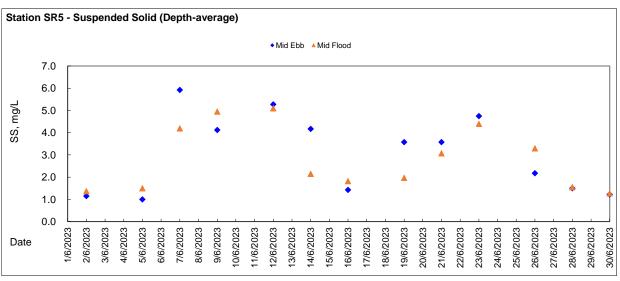




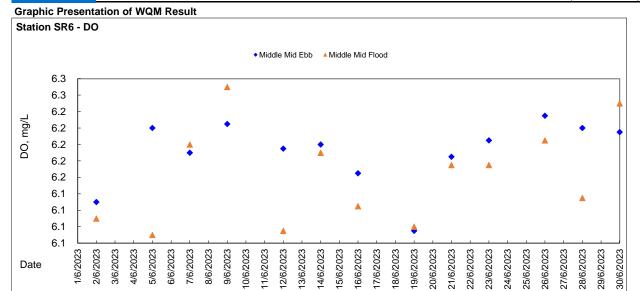


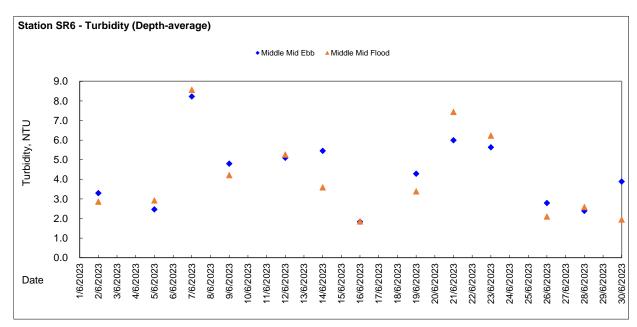


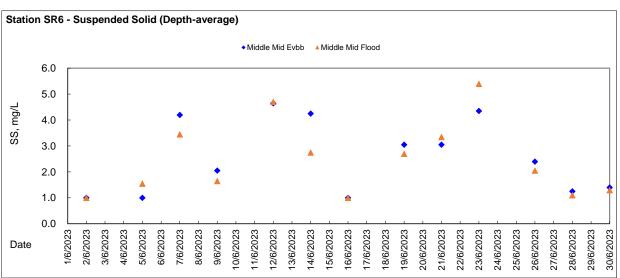




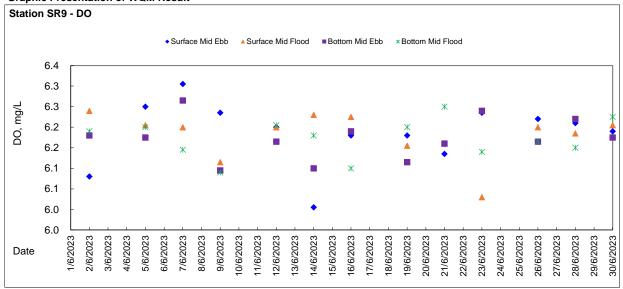


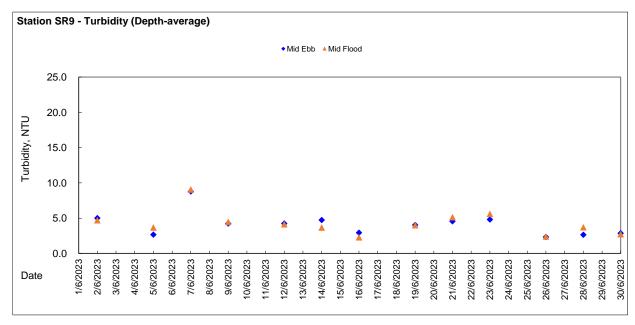


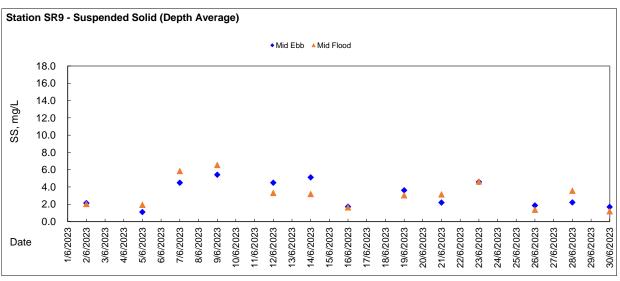




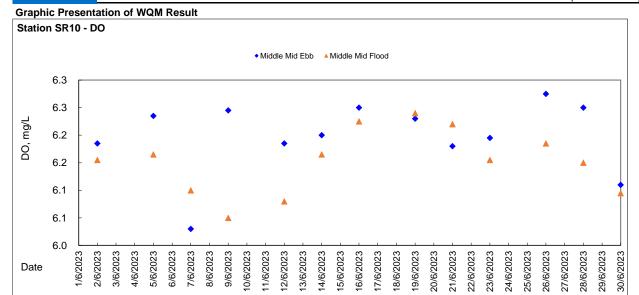


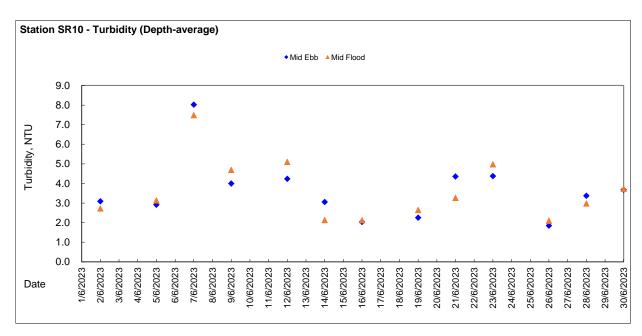


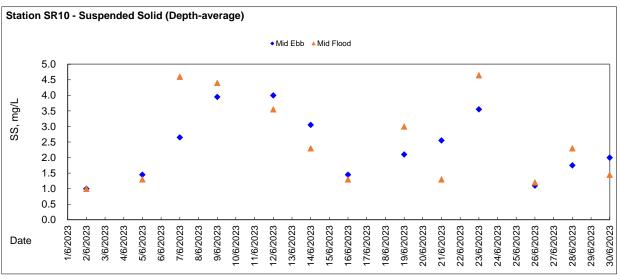




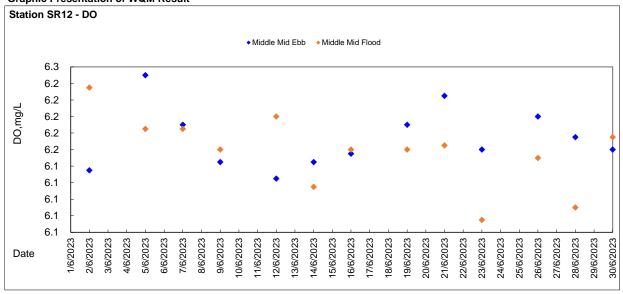


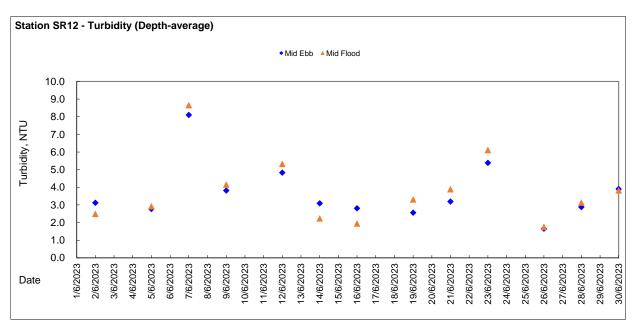


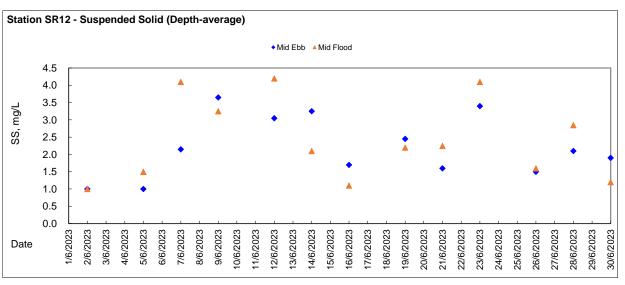




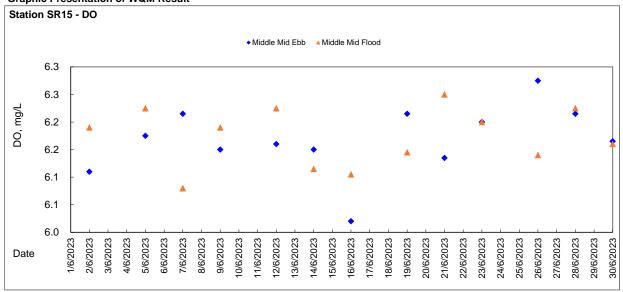


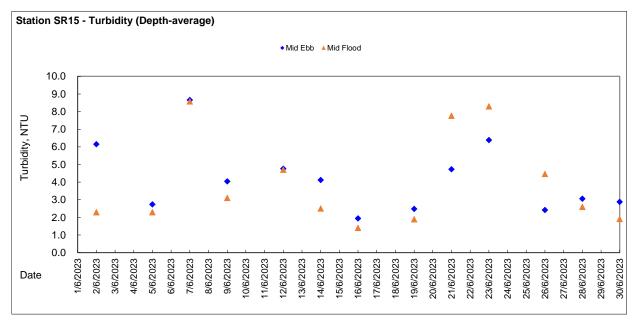


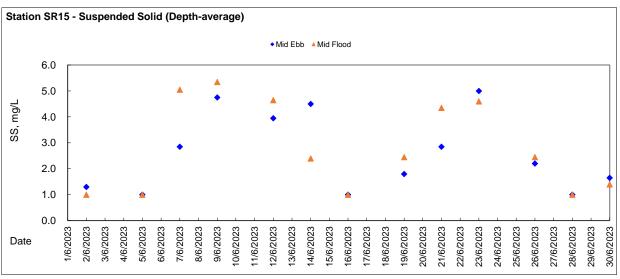












Impact Water Quality Monitoring at Station SR4 (surface) - Ebb Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turt	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	٩	С			p	pt		%	m			TU	m	ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG		AVG	Value	AVG
	2/6/2023	Cloudy	10:01	3.5	1.0	28.50	28.50	8.26	8.26	30.15	30.15	81.20	80.60	6.17	6.13	6.07	6.02	<1.0	1.0
		,	10:02	3.5	1.0	28.50		8.26	0.20	30.14		80.00		6.08	****	5.96	*****	<1.0	
	5/6/2023	Cloudy	12:41	3.2	1.0	28.30	28 25	8.28	8 28	28.54	28 54	84.30	84 60	6.19	6.21	2.69	2.56	1.3	
		,	12:42	3.2	1.0	28.20		8.28		28.54		84.90		6.22		2.42		1.6	
	7/6/2023	Cloudy	14:21	3.5	1.0	27.60	27.55	8.28	8 28	30.14	30.15	84.70	84.80	6.13	614	8.75	8.72	3.0	
		,	14:22	3.5	1.0	27.50		8.28	0.20	30.15		84.90		6.15		8.68	****	2.6	
	9/6/2023	Cloudy	16:16	2.5	1.0	29.60	29 65	8.26	8.26	30.14	30 14	82.50	81.65	6.16	611	4.12	4 11	2.7	3.0
		,	16:17	2.5	1.0	29.70		8.25	0.00	30.14		80.80		6.06		4.09		3.2	
	12/6/2023	Rainv	7:59	3.4	1.0	28.60	28.60	8.42	8.43	29.11	29.11	84.00	83.10	6.25	6.19	4.23	4.31	3.9	
			8:00	3.4	1.0	28.60		8.43		29.10		82.20		6.12		4.39		3.2	
	14/6/2023	Cloudy	9:37	3.4	1.0	28.30	28.30	8.45	8.45	28.04	28.05	84.90	84.95	6.20	6.21	2.37	2.29	3.0	
			9:38	3.4	1.0	28.30		8.44		28.05		85.00		6.21		2.20		2.6	
SR4	16/6/2023	Rainy	10:42	3.5	1.0	27.30	27.25	8.42	8.42	27.08	27.09	80.00	80.05	6.04	6.04	1.75	1.83	<1.0	1.0
		-	10:43	3.5	1.0	27.20		8.41		27.09		80.10		6.04		1.90		<1.0	
	19/6/2023	Cloudy	12:24	3.7	1.0	26.70	26.70	8.07	8.07	27.14	27.15	84.70	84.80	6.12	6.13	2.61	2.53	2.3	
			12:25	3.7	1.0	26.70		8.07		27.15		84.90		6.14		2.44		2.5	
	21/6/2023	Cloudy	14:25	3.4	1.0	28.10	28.15	8.22	8.22	26.91	26.91	84.20	84.05	6.25	6.23	5.35	5.39	4.4	4.5
			14:26	3.4	1.0	28.20		8.21		26.90		83.90		6.20		5.42		4.5	
	23/6/2023	Cloudy	15:05	3.5	1.0	28.00	28.05	8.36	8.36	26.90	26.91	84.70	84.75	6.06	6.07	6.04	6.11	4.9	
			15:06	3.5	1.0	28.10		8.36		26.91		84.80		6.08		6.17		4.7	
	26/6/2023	Cloudy	17:19	3.4	1.0	27.90	27.95	8.45	8.46	26.05	26.06	84.00	84.20	6.20	6.21	2.34	2.39	1.9	2.0
			17:20	3.4	1.0	28.00		8.46		26.07		84.40		6.22		2.43		2.1	-
	28/6/2023	cancel	7:50	3.3	1.0	29.00	29.10	8.61	8.61	25.86	25.87	83.10 82.00	82.55	6.17	6.13	3.26	3.19	<1.0	1.0
		l	7:51	3.3	1.0	29.20		8.60		25.88				6.09		3.11		<1.0	
	30/6/2023	Cloudy	9:09	3.5	1.0	29.00	29.05	8.70	8.70	21.71	21.71	80.00	80.30	6.02	6.04	3.05	2.97	1.7	1.5
	1		9:10	3.5	1.0	29.10	1	8.69	1	21.70	1	80.60		6.05	1	2.89	1	1.3	1

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

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Lam Environmental Services Limited

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	turation	0	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt		%	m	g/L	N'	TU	m	ng/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	17:50	3.1	1.0	28.60	28.55	8.39	8.40	30.43	30.43	80.20	81.15	6.08	6 14	2.36	2.42	1.2	1.4
	DOZOZO	Oloudy	17:51	3.1	1.0	28.50	20.00	8.40	0.40	30.42	00.40	82.10	01.10	6.20	0.14	2.48	2.42	1.5	
	5/6/2023	Cloudy	18:19	3.5	1.0	27.90	27.90	8.30	8.30	28.54	28.54	81.10	82.05	6.12	6.20	2.95	3.04	<1.0	1.0
		,	18:20	3.5	1.0	27.90		8.30	0.00	28.54		83.00		6.27		3.12		<1.0	
	7/6/2023	Fine	7:13	3.2	1.0	27.60	27.65	8.25	8.26	30.16	30.17	84.00	83.95	6.15	614	8.67	8.74	6.4	
			7:14	3.2	1.0	27.70		8.27	0.20	30.17		83.90		6.12		8.81		6.1	
	9/6/2023	Cloudy	8:22	3.2	1.0	28.10	28.10	8.20	8.20	29.85	29.85	82.30	83.00	6.13	6.18	2.96	3.03	4.6	
		,	8:23	3.2	1.0	28.10		8.20	0.20	29.85		83.70		6.22		3.09		2.6	
	12/6/2023	Rainv	13:12	3.1	1.0	28.70	28 70	8.53	8.53	29.04	29.05	81.10	82 05	6.12	6.20	4.17	4 23	4.6	
			13:13	3.1	1.0	28.70		8.53	0.00	29.05		83.00		6.27		4.28		5.0	
	14/6/2023	Cloudy	16:02	3.1	1.0	28.30	28.35	8.54	8.54	27.89	27.88	84.70	84.65	6.24	6.24	2.07	2.13	1.9	
			16:03	3.1	1.0	28.40		8.54		27.86		84.60		6.23		2.19		1.5	
SR4	16/6/2023	Cloudy	16:02	3.1	1.0	27.50	27.55	8.36	8.36	27.54	27.55	85.90	85.45	6.20	6.19	1.45	1.54	1.5	
		,	16:03	3.1	1.0	27.60		8.35		27.55		85.00		6.18		1.63		1.7	
	19/6/2023	Cloudy	18:12	3.3	1.0	27.10	27.15	8.14	8.14	27.06	27.06	81.00	81.80	6.04	6.10	2.29	2.33	1.2	
			18:13	3.3	1.0	27.20		8.13		27.06		82.60		6.16		2.37		1.4	
	21/6/2023	Cloudy	7:36	3.1	1.0	27.80	27.80	8.11	8.11	26.51	26.52	82.90	83.85	6.20	6.24	7.19	7.13	4.6	
			7:37	3.1	1.0	27.80		8.11		26.53		84.80		6.27		7.06		4.2	_
	23/6/2023	Cloudy	7:29	3.1	1.0	28.40	28.45	8.29	8.28	26.90	26.91	83.00	82.45	6.20	6.17	7.74	7.78	5.0	
			7:30	3.1	1.0	28.50		8.27		26.91		81.90		6.13		7.82		4.6	
	26/6/2023	Cloudy	10:06	3.1	1.0	28.00	28.00	8.31	8.31	26.40	26.40	81.80	81.30	6.18	6.15	3.78	3.70	3.0	
			10:07	3.1	1.0	28.00		8.30		26.40		80.80		6.11		3.61		3.4	
	28/6/2023	Fine	13:46	3.1	1.0	29.70	29.65	8.74	8.74	24.99	24.98	84.20	83.65	6.24	6.21	2.82	2.88	2.5	
			13:47	3.1	1.0	29.60		8.74		24.97		83.10		6.18		2.94		1.9	
	30/6/2023	Cloudy	16:41	3.1	1.0	28.50	28.45	8.73	8.73	21.84	21.84	82.60	83.00	6.13	6.16	2.15	2.04	<1.0	1.0
			16:42	3.1	1.0	28.40		8.73		21.83		83.40		6.19		1.92		<1.0	

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	0	00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt	•	%	m		N'	TU	m	ng/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	10:03	3.5	2.5	28.10	28.15	8.34	8.35	30.59	30.59	87.40	87.35	6.15	6.15	4.89	4.88	<1.0	1.0
	DOZOZO	Oloudy	10:04	3.5	2.5	28.20	20.10	8.35	0.00	30.59	00.00	87.30	01.00	6.14	0.10	4.86	4.00	<1.0	
	5/6/2023	Cloudy	12:43	3.2	2.2	28.20	28.20	8.29	8 29	28.61	28.61	81.30	82.10	6.01	6.05	3.35	3.32	<1.0	1.0
		,	12:44	3.2	2.2	28.20		8.29		28.61		82.90		6.09		3.29	0.002	<1.0	
	7/6/2023	Cloudy	14:23	3.5	2.5	27.60	27 60	8.29	8 29	30.24	30.24	84.80	85.00	6.18	619	8.57	8 65	5.4	5.3
		,	14:24	3.5	2.5	27.60		8.28	0.20	30.23		85.20		6.20		8.72		5.1	
	9/6/2023	Cloudy	16:17	3.4	2.4	28.30	28.20	8.28	8 28	29.92	29.91	83.20	82.55	6.21	6.16	4.67	4 70	6.4	5.9
		,	16:18	2.5	1.5	28.10		8.27		29.90		81.90		6.11		4.73		5.4	
	12/6/2023	Rainv	8:01	3.4	2.4	28.60	28 65	8.40	8 40	29.25	29.25	82.60	83.40	6.13	6.19	4.72	4 66	15.2	
			8:02	3.4	2.4	28.70		8.39		29.25		84.20		6.25		4.59		45.4	
	14/6/2023	Cloudy	9:39	3.4	2.4	28.60	28.60	8.45	8.46	28.36	28.36	84.80	84.75	6.08	6.07	2.68	2.63	3.7	3.6
			9:40	3.4	2.4	28.60		8.46		28.35		84.70		6.06		2.57		3.4	
SR4	16/6/2023	Rainy	10:44	3.7	2.5	27.20	27.25	8.40	8.41	27.98	27.97	83.40	83.15	6.22	6.21	1.75	1.65	1.2	→ 1.2
		-	10:45	3.5	2.5	27.30		8.41		27.96		82.90		6.19		1.55		1.1	_
	19/6/2023	Cloudy	12:26	3.7	2.7	26.80	26.85	8.09	8.09	27.20	27.20	80.20	81.70	6.01	6.11	4.54	4.57	3.8	3.6
			12:27	3.7	2.7	26.90		8.09		27.19		83.20		6.20		4.59		3.4	
	21/6/2023	Cloudy	14:27	3.4	2.4	27.90	27.90	8.22	8.22	26.95	26.96	81.60	82.50	6.08	6.14	5.96	5.99	2.6	
			14:28	3.4	2.4	27.90		8.21		26.96		83.40		6.20		6.02		2.8	
	23/6/2023	Cloudy	15:07	3.5	2.5	28.00	28.05	8.34	8.34	26.98	26.98	83.10	83.95	6.16	6.19	6.32	6.31	4.3	
			15:08	3.5	2.5	28.10		8.34		26.97		84.80		6.21		6.29		4.6	
	26/6/2023	Cloudy	17:21	3.4	2.4	27.80	27.75	8.44	8.43	26.48	26.48	84.20	84.50	6.23	6.25	2.40	2.31	2.2	
			17:22	3.4	2.4	27.70		8.42		26.47		84.80		6.27		2.21		2.5	_
	28/6/2023	cancel	7:52	3.3	2.3	28.60	28.65	8.59	8.60	25.92	25.93	83.50	82.85	6.19	6.15	3.01	2.91	1.7	
			7:53	3.3	2.3	28.70		8.60		25.93		82.20		6.11		2.81			_
	30/6/2023	Cloudy	9:11	3.5	2.5	28.40	28.45	8.49	8.49	26.42	26.42	80.80	80.50	6.05	6.04	4.42	4.35	1.2	
	l		9:12	3.5	2.5	28.50		8.48		26.41	1	80.20		6.02		4.28		1.2	1

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

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Lam Environmental Services Limited

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sal	inity	DO Sa	turation	D	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt	•	%	m	g/L	N'	TU	m	ıg/L
	Date		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	17:52	3.1	2.1	28.40	28.45	8.39	8.39	30.39	30.40	84.90	84.00	6.19	6 17	2.39	2 47	<1.0	1.0
	DOZDZO	Oloudy	17:53	3.1	2.1	28.50	20.40	8.39	0.00	30.40	00.40	83.10	04.00	6.14	0.17	2.54	2.47	<1.0	
	5/6/2023	Cloudy	18:21	3.5	2.5	28.10	28.05	8.30	8.30	28.56	28 57	81.80	80.30	6.18	6.08	3.47	3.49	1.4	1.0
		,	18:22	3.5	2.5	28.00		8.30	0.00	28.58		78.80		5.98		3.50		1.3	
	7/6/2023	Fine	7:15	3.2	2.2	27.70	27 70	8.27	8 27	30.24	30.25	86.30	86.80	6.14	6 17	8.87	7 91	11.0	
	7702020	1 1110	7:16	3.2	2.2	27.70	27.70	8.27	0.27	30.25	00.20	87.30	00.00	6.19	0.17	6.95	7.01	11.3	
	9/6/2023	Cloudy	8:24	3.2	2.2	27.70	27 65	8.19	8 19	30.19	30.18	82.50	81.65	6.16	611	4.94	4.85	5.2	
		,	8:25	3.2	2.2	27.60		8.18		30.17		80.80		6.06		4.76		6.0	
	12/6/2023	Rainv	13:14	3.1	2.1	28.40	28 45	8.52	8.52	29.16	29 17	81.80	80.30	6.18	6 10	4.78	4 77	6.6	6.9
			13:15	3.1	2.1	28.50		8.52	0.00	29.17		78.80		6.01		4.76		7.2	
	14/6/2023	Cloudy	16:04	3.1	2.1	28.80	28 75	8.52	8.53	28.44	28 45	84.50	84.35	6.20	6 19	2.72	2 78	3.2	
		,	16:05	3.1	2.1	28.70		8.53	0.00	28.46		84.20		6.18		2.84		3.7	
SR4	16/6/2023	Cloudy	16:04	3.1	2.1	27.20	27.20	8.17	8.17	29.60	29.64	83.60	82.40	6.19	6.13	2.01	2.00	4.4	4.6
			16:05	3.1	2.1	27.20		8.16		29.67		81.20		6.07		1.98		4.8	·
	19/6/2023	Cloudy	18:14	3.3	2.3	27.10	27.20	8.15	8.15	27.06	27.08	83.70	82.50	6.22	6.19	2.01	2.13	2.2	2.4
			18:15	3.3	2.3	27.30		8.14		27.09		81.30		6.15		2.25		2.6	
	21/6/2023	Cloudy	7:38	3.1	2.1	27.50	27.55	8.10	8.09	27.20	27.21	83.00	83.20	6.19	6.22	6.92	6.88	3.7	3.8
			7:39	3.1	2.1	27.60		8.08		27.21		83.40		6.25		6.84		3.8	
	23/6/2023	Cloudy	7:31	3.1	2.1	28.40	28.40	8.32	8.32	26.90	26.91	81.90	82.50	6.14	6.16	7.12	7.10	4.4	4.2
		·	7:32	3.1	2.1	28.40		8.32		26.91		83.10		6.18		7.07		4.0	
	26/6/2023	Cloudy	10:08	3.1	2.1	27.80	27.80	8.31	8.31	26.44	26.45	84.20	84.05	6.25	6.23	2.98	2.91	2.5	
			10:09	3.1	2.1	27.80		8.31		26.45		83.90		6.20		2.83		3.5	
	28/6/2023	Fine	13:48	3.1	2.1	28.70	28.70	8.60	8.59	26.17	26.17	82.50	83.20	6.12	6.18	3.88	3.91	3.2	
			13:49	3.1	2.1	28.70		8.58		26.17		83.90		6.24		3.93		3.0	
	30/6/2023	Cloudy	16:43	3.1	2.1	27.80	27.85	8.48	8.49	26.82	26.82	84.30	83.80	6.28	6.24	3.43	3.52	1.4	1.7
			16:44	3.1	2.1	27.90		8.49		26.82		83.30		6.19		3.61		1.9	L

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	H	Sa	linity	DO Sa	turation		00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٥	С			р	pt		%	m	g/L	N'	TU	m	ng/L
	Date		TIIIIO	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	10:14	4.4	1.0	28.80	28.85	8.35	8.35	30.48	30.48	83.00	83.80	6.04	6.10	3.69	3.76	<1.0	1.0
	DOZOZO	Oloudy	10:15	4.4	1.0	28.90	20.00	8.34	0.00	30.47	00.40	84.60	00.00	6.16	0.10	3.82	0.70	1.0	
	5/6/2023	Cloudy	12:54	3.9	1.0	28.00	28.05	8.31	8.31	28.63	28.63	83.10	82.55	6.18	6.15	2.75	2.68	<1.0	1.0
		,	12:55	3.9	1.0	28.10		8.31		28.62		82.00		6.12		2.60		<1.0	
	7/6/2023	Cloudy	14:12	4.4	1.0	27.80	27.75	8.27	8.27	30.22	30.22	84.90	83.50	6.19	6.15	8.64	8.62	8.4	
	170/2020	Oloudy	14:13	4.4	1.0	27.70	27.70	8.27	0.27	30.21	00.22	82.10	00.00	6.11	0.10	8.59	0.02	8.0	
	9/6/2023	Cloudy	8:12	4.0	1.0	28.30	28.25	8.33	8.33	29.41	29 40	82.30	83.00	6.13	6 18	4.25	4.31	2.8	
		,	16:08	4.3	1.0	28.20		8.33	0.00	29.39		83.70		6.22		4.37		2.2	
	12/6/2023	Rainv	8:12	4.0	1.0	28.60	28.60	8.36	8.37	29.12	29.12	83.00	83.50	6.15	6.18	4.67	4.47	5.9	
			8:13	4.0	1.0	28.60		8.38		29.11		84.00		6.20		4.27		6.2	
	14/6/2023	Cloudy	9:50	4.2	1.0	28.30	28.35	8.48	8.48	27.24	27.25	83.70	84.15	6.15	6.18	4.93	4.98	3.4	
			9:51	4.2	1.0	28.40		8.47		27.26		84.60		6.20		5.02		3.8	
SR5	16/6/2023	Rainy	10:55	4.2	1.0	27.40	27.40	8.42	8.42	27.33	27.33	80.30	80.65	5.94	5.99	1.13	1.18	1.2	
		-	10:56	4.2	1.0	27.40		8.42		27.33		81.00		6.04		1.23		1.3	_
	19/6/2023	Cloudy	12:37	4.2	1.0	26.90	26.90	8.09	8.10	26.94	26.93	84.90	83.50	6.14	6.12	4.63	4.59	4.0	
		·	12:38	4.2	1.0	26.90		8.10		26.92		82.10		6.09		4.54		4.2	
	21/6/2023	Cloudy	14:16	4.3	1.0	27.90	27.85	8.17	8.17	27.13	27.13	85.20	84.50	6.27	6.24	5.92	6.11	3.2	
			14:17	4.3	1.0	27.80		8.16		27.12		83.80		6.20		6.29		3.4	
	23/6/2023	Cloudy	14:56	4.3	1.0	28.00	28.05	8.35	8.35	26.95	26.96	80.50	81.65	6.18	6.21	6.54	6.54	4.6	
			14:57	4.3	1.0	28.10		8.34		26.96		82.80		6.24		6.53		4.4	
	26/6/2023	Cloudy	17:10	4.2	1.0	28.00	28.05	8.49	8.50	25.66	25.66	83.70	83.30	6.24	6.22	1.92	2.06	2.4	
			17:11	4.2	1.0	28.10		8.50		25.65		82.90		6.19		2.20		2.3	
	28/6/2023	cancel	8:03	4.1	1.0	29.70	29.70	8.64	8.64	25.24	25.24	84.00	84.20	6.20	6.21	2.53	2.49	<1.0	1.0
		l	8:04	4.1	1.0	29.70		8.64		25.24		84.40		6.22		2.44		<1.0	1
	30/6/2023	Cloudy	9:22	4.3	1.0	29.40	29.45	8.70	8.70	22.64	22.65	83.40	83.00	6.19	6.16	3.75	3.66	<1.0	1.5
	l		9:23	4.3	1.0	29.50		8.69	1	22.65	1	82.60		6.13		3.56		1.9	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 SR5 (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation		00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С				opt		%	m			TU		ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	17:41	4.0	1.0	28.70	28.65	8.39	8.39	30.21	30.21	79.40	80.10	5.97	6.06	2.43	2.51	1.5	
		,	17:42	4.0	1.0	28.60		8.39		30.20		80.80		6.14		2.59		1.6	
	5/6/2023	Cloudy	18:10	4.3	1.0	28.10	28.05	8.31	8.31	28.63		81.50	81.80	6.17	6 18	3.03	2.94	1.4	1.3
	GGZGZG	Oloddy	18:11	4.3	1.0	28.00	20.00	8.30	0.01	28.62	20.00	82.10	01.00	6.19	0.10	2.85	2.04	1.2	
	7/6/2023	Fine	7:26	4.1	1.0	27.50	27.60	8.26	8.27	30.21	30.21	84.90	84.95	6.20	6.21	8.96	8.88	4.4	4.6
			7:27	4.1	1.0	27.70		8.27		30.20		85.00		6.21		8.79		4.7	
	9/6/2023	Cloudy	8:35	4.0	1.0	28.20	28.25	8.26	8.26	29.48		84.10	83.65	6.26	624	3.67	3.72	3.6	3.5
		,	8:36	4.0	1.0	28.30		8.25	0.20	29.50		83.20		6.21		3.76		3.4	
	12/6/2023	Rainv	13:03	3.7	1.0	28.90	28.90	8.50	8.50	29.10	29.10	81.50	81.80	6.17	6.18	4.28	4.34	5.5	
		. ,	13:04	3.7	1.0	28.90		8.50		29.10		82.10		6.19		4.39		6.0	
	14/6/2023	Cloudy	15:53	3.9	1.0	28.40	28.30	8.54	8.53	28.19		82.50	80.95	6.20	6.13	3.39	3.37	2.7	
		-	15:54	3.9	1.0	28.20		8.52		27.20		79.40		6.05		3.34		2.6	
SR5	16/6/2023	Cloudy	15:51	4.0	1.0	27.50	27.50	8.39	8.40	27.58		90.20	89.85	6.28	6.24	1.95	1.87	1.2	
			15:52	4.0	1.0	27.50		8.40		27.60		89.50		6.20		1.79		1.6	
	19/6/2023	Cloudy	18:03	3.9	1.0	27.20	27.25	8.12	8.13	27.25		84.10	83.85	6.19	6.16	3.80	3.77	1.4	1.6
			18:04	3.9	1.0	27.30		8.13		27.26		83.60		6.12		3.73		1.7	_
	21/6/2023	Cloudy	7:49	3.9	1.0	27.60	27.65	8.10	8.11	27.29		84.80	84.50	6.27	6.25	6.73	6.69	3.1	
			7:50	3.9	1.0	27.70		8.11		27.28		84.20		6.23		6.65		3.5	-
	23/6/2023	Cloudy	7:42	3.9	1.0	28.40	28.45	8.35	8.35	26.85		83.70	82.80	6.24	6.19	6.34	6.50	4.4	4.4
			7:43	3.9	1.0	28.50		8.34		26.86		81.90		6.13		6.66		4.4	
	26/6/2023	Cloudy	10:19	3.9	1.0	27.80	27.80	8.39 8.40	8.40	25.72		81.10 83.00	82.05	6.12	6.20	2.37	2.33	4.2	
			10:20	3.9	1.0	27.80				25.70	1	00.00		6.27		2.28		4.7	_
	28/6/2023	Fine	13:37	3.8	1.0	29.90	29.85	8.71	8.71	25.40	25.40	81.60 83.40	82.50	6.08	6.14	2.44	2.48	1.1	
			13:38	3.8	1.0	29.80		8.70		25.40				6.20		2.51		1.4	
	30/6/2023	Cloudy	16:32 16:33	3.8	1.0	29.10 29.00	29.05	8.77 8.75	8.76	22.38 22.39		83.40 84.40	83.90	6.22	6.25	1.89 2.15	2.02	1.2	

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	turation	D	0	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt	•	%	m	g/L	N'	TU	m	ıg/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	10:17	4.4	3.4	28.50	28 40	8.32	8.32	30.48	30.48	82.90	83.75	6.10	6 16	3.68	3.62	1.4	1.
	DOZOZO	Oloudy	10:18	4.4	3.4	28.30	20.40	8.32	0.02	30.48	00.40	84.60	00.70	6.21	0.10	3.55	0.02	1.2	
	5/6/2023	Cloudy	12:56	3.9	2.9	28.10	28 15	8.29	8.30	28.70	28 70	83.50	83.55	6.15	6 15	2.50	2.59	<1.0	1.0
		,	12:57	3.9	2.9	28.20		8.30	0.00	28.69		83.60		6.15		2.67		<1.0	
	7/6/2023	Cloudy	14:15	4.4	3.4	27.70	27 70	8.27	8 28	29.80	29.80	79.40	80.95	6.05	6.13	8.67	8.73	3.5	3.7
	170/2020	Oloudy	14:16	4.4	3.4	27.70	27.70	8.28	0.20	29.79	20.00	82.50	00.00	6.20	0.10	8.78	0.70	3.8	
	9/6/2023	Cloudy	16:10	4.3	3.3	27.90	27 95	8.26	8.26	29.99	29.99	83.30	82 50	6.19	6.13	4.37	4.32	5.9	
		,	16:11	4.3	3.3	28.00		8.25	0.20	29.98		81.70		6.07		4.26		5.6	
	12/6/2023	Rainv	8:15	4.0	3.0	28.70	28 65	8.41	8 41	29.07	29.07	83.00	82 90	6.18	616	4.63	4.58	4.8	
			8:16	4.0	3.0	28.60		8.40		29.07		82.80		6.14		4.52		4.2	
	14/6/2023	Cloudy	9:53	4.2	3.2	28.40	28 50	8.47	8 47	28.55	28.55	84.00	83.95	6.15	614	4.36	4.32	4.6	
		,	9:54	4.2	3.2	28.60		8.46		28.54		83.90		6.12	•	4.28		4.9	
SR5	16/6/2023	Rainv	10:58	4.2	3.2	27.50	27.55	8.40	8.40	27.98	27.99	80.30	81.05	8.96	7.52	1.96	1.89	1.7	1.6
			10:59	4.2	3.2	27.60		8.40		27.99		81.80		6.08		1.82		1.5	
	19/6/2023	Cloudy	12:40	4.2	3.2	26.70	26.75	8.10	8 10	29.94	29.95	79.40	80.95	5.93	6.02	4.51	4 46	3.2	
		,	12:41	4.2	3.2	26.80		8.10		29.96		82.50		6.11	0.02	4.41		2.9	
	21/6/2023	Cloudy	14:19	4.3	3.3	27.90	27.85	8.17	8.17	27.10	27.11	81.80	82.60	6.08	6.14	5.93	5.91	4.0	3.9
			14:20	4.3	3.3	27.80		8.16		27.11		83.40		6.19		5.88		3.7	
	23/6/2023	Cloudy	14:59	4.3	3.3	28.10	28.05	8.33	8.33	27.03	27.02	85.70	84.65	6.24	6.22	6.55	6.65	4.9	
			15:00	4.3	3.3	28.00		8.33		27.01		83.60		6.19		6.75		5.1	
	26/6/2023	Cloudy	17:13	4.2	3.2	27.40	27.40	8.36	8.37	27.13	27.14	83.20	83.05	6.21	6.18	2.44	2.59	2.0	2.0
			17:14	4.2	3.2	27.40		8.38		27.15		82.90		6.14		2.73		2.0	
	28/6/2023	cancel	8:06	4.1	3.1	28.50	28.50	8.49	8.50	26.56	26.57	82.80	82.90	6.20	6.22	4.53	4.58	1.4	
			8:07	4.1	3.1	28.50		8.50		26.57		83.00	,2	6.23		4.62		2.6	
	30/6/2023	Cloudy	9:25	4.3	3.3	28.10	28.05	8.56	8.56	26.61	26.60	83.40	82.80	6.20	6.16	2.31	2.38	<1.0	1.0
			9:26	4.3	3.3	28.00		8.55		26.58		82.20		6.12		2.45		<1.0	

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

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	H	Sa	linity	DO Sa	turation		00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С		-	р	pt		%	m	g/L	N'	TU	m	ng/L
	Date		TITLE	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	17:44	4.0	3.0	27.90	27.90	8.33	8.33	31.07	31.08	80.20	80.35	6.18	6.19	2.97	2.89	1.2	
	DOZOZO	Oloudy	17:45	4.0	3.0	27.90	27.00	8.32	0.00	31.08	01.00	80.50	00.00	6.20	0.10	2.81	2.00	1.2	
	5/6/2023	Cloudy	18:13	4.3	3.3	28.00	28.05	8.28	8 29	28.66	28.67	82.10	82.40	6.14	6.15	2.90	2.96	1.8	
		,	18:14	4.3	3.3	28.10		8.29	0.20	28.67		82.70		6.16		3.01		1.6	
	7/6/2023	Fine	7:29	4.1	3.1	27.70	27.70	8.28	8.28	29.39	29.40	83.70	84.15	6.15	6 17	9.25	9.29	3.9	
	170/2020	1 1110	7:30	4.1	3.1	27.70	27.70	8.27	0.20	29.40	20.40	84.60	04.10	6.19	0.17	9.32	0.20	3.8	
	9/6/2023	Cloudy	8:38	4.0	3.0	28.20	28.10	8.22	8.22	29.88	29.89	81.80	82.30	6.14	6.16	4.97	4 90	6.5	6.4
	5/6/2020	Oloudy	8:39	4.0	3.0	28.00	20.10	8.22	U.LL	29.89	20.00	82.80	02.00	6.17	0.10	4.82	4.00	6.3	
	12/6/2023	Rainv	13:05	3.7	2.7	28.70	28.70	8.50	8.50	29.11	29.11	82.70	82.40	6.19	6.18	4.59	4.65	4.2	
	12/0/2020	reality	13:06	3.7	2.7	28.70	20.70	8.50	0.00	29.10	20.11	82.10	02.40	6.16	0.10	4.70	4.00	4.7	
	14/6/2023	Cloudy	15:55	3.9	2.9	28.50	28.45	8.50	8.51	28.65	28.65	82.10	83.50	6.09	6.12	2.81	277	1.5	
		,	15:56	3.9	2.9	28.40		8.51		28.65		84.90		6.14		2.72		1.8	
SR5	16/6/2023	Cloudy	15:54	4.0	3.0	27.60	27 50	8.23	8 23	29.43	29 43	81.60	82 70	6.12	6 19	3.01	3.72	2.4	2.3
		,	15:55	4.0	3.0	27.40		8.22	0.20	29.43		83.80		6.26		4.43		2.1	
	19/6/2023	Cloudy	18:05	3.9	2.9	27.10	27.05	8.11	8.12	27.45	27 45	84.60	84.25	6.21	6.20	3.50	3.40	2.6	
		,	18:06	3.9	2.9	27.00		8.12		27.44		83.90	0.1.00	6.19		3.30		2.2	
	21/6/2023	Cloudy	7:51	3.9	2.9	27.70	27 65	8.12	8 12	27.03	27 04	82.90	83.85	6.20	6.24	5.12	5 15	3.0	
		,	7:52	3.9	2.9	27.60		8.12		27.05		84.80		6.27		5.17		2.7	
	23/6/2023	Cloudy	7:44	3.9	2.9	28.50	28.50	8.37	8.34	26.83	26.86	80.10	80.60	6.07	6.10	6.94	6.76	4.4	
		,	7:45	3.9	2.9	28.50		8.31		26.88		81.10		6.12		6.57		4.4	
	26/6/2023	Cloudy	10:21	3.9	2.9	27.80	27.80	8.38	8.38	25.84	25.85	82.00	82.55	6.12	6.15	2.96	3.02	1.8	
		,	10:22	3.9	2.9	27.80		8.37	0.00	25.85		83.10		6.18		3.08		2.5	i
	28/6/2023	Fine	13:39	3.8	2.8	29.50	29.50	8.63	8.63	25.89	25.89	85.20	84.50	6.27	6.24	3.41	3.38	1.6	
			13:40	3.8	2.8	29.50	20.00	8.62	0.00	25.88	20.00	83.80	54.00	6.20	024	3.34	0.00	2.1	
	30/6/2023	Cloudy	16:34	3.8	2.8	28.00	28.05	8.61	8.61	26.38	26.39	83.50	83.15	6.19	6.17	2.20	2.29	<1.0	1.0
Connect Natur			16:35	3.8	2.8	28.10		8.60		26.39		82.80		6.14		2.37		<1.0	

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation		00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			F	pt		%		g/L	N'	TU	m	ıg/L
	Date		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	10:25	2.5	1.3	28.60	28.55	8.34	8.33	30.42	30.41	82.10	82.85	6.07	6.13	3.22	3.30	<1.0	1.0
	DOZDZO	Oloudy	10:26	2.5	1.3	28.50	20.00	8.32	0.00	30.40	00.41	83.60	02.00	6.19	0.10	3.37	0.00	<1.0	
	5/6/2023	Cloudy	13:05	2.4	1.2	27.90	27.80	8.30	8.31	28.66	28.66	83.40	83.20	6.25	6.22	2.44	2 47	<1.0	1.0
		,	13:06	2.4	1.2	27.70		8.32		28.66		83.00		6.19		2.49		<1.0	
	7/6/2023	Cloudy	14:03	2.6	1.3	27.60	27 60	8.28	8 28	29.90	29.90	84.20	84 35	6.18	6 19	8.29	8 22	4.4	4.2
		,	14:04	2.6	1.3	27.60		8.28	0.20	29.89		84.50		6.20		8.15	0.22	4.0	
	9/6/2023	Cloudy	15:58	2.6	1.3	28.10	28.10	8.32	8.32	29.44	29.44	82.80	83.55	6.17	6.23	4.73	4.80	1.8	
		,	15:59	2.6	1.3	28.10		8.31	0.02	29.43		84.30		6.28		4.86		2.3	
	12/6/2023	Rainv	8:22	2.4	1.2	28.50	28.55	8.40	8 41	29.20	29.21	84.80	83.95	6.21	6.20	5.01	5 10	4.4	4.7
			8:23	2.4	1.2	28.60		8.41		29.21		83.10		6.18		5.18		4.9	
	14/6/2023	Cloudy	10:00	2.5	1.3	28.30	28.35	8.46	8.47	27.63	27.65	84.60	84.70	6.19	6.20	5.39	5.45	4.5	4.3
SR6			10:01	2.5	1.4	28.40		8.47		27.67		84.80		6.21		5.50		4.0	
0110	16/6/2023	Rainy	11:06	2.6	1.4	26.20	26.25	8.43	8.43	26.73	26.72	81.00	81.10	6.16	6.17	1.95	1.83	<1.0	1.0
			11:07	2.7	1.4	26.30		8.42		26.71		81.20		6.17		1.71		<1.0	
	19/6/2023	Cloudy	12:48	2.6	1.3	26.80	26.85	8.11	8.11	26.91	26.91	80.20	80.35	6.08	6.10	4.28	4.29	2.9	
			12:49	2.6	1.3	26.90		8.11		26.90		80.50		6.11		4.29		3.2	
	21/6/2023	Cloudy	14:07	2.6	1.3	27.80	27.85	8.16	8.16	27.17	27.17	83.10	83.25	6.18	6.19	5.97	5.99	3.3	
		,	12:07	2.6	1.3	27.90		8.16		27.16		83.40		6.19		6.01		2.8	The state of the s
	23/6/2023	Cloudy	14:47	2.7	1.4	28.10	28.10	8.35	8.35	29.96	29.96	84.90	84.95	6.20	6.21	5.59	5.63	4.4	4.4
			14:48	2.7	1.4	28.10		8.34		29.95		85.00		6.21		5.67		4.3	
	26/6/2023	Cloudy	17:01	2.6	1.3	28.10	28.05	8.47	8.47	25.65	25.65	82.90	83.85	6.20	6.24	2.70	2.79	2.0	
		,	17:02	2.6	1.3	28.00		8.47		25.64		84.80		6.27		2.87		2.8	
	28/6/2023	cancel	8:13	2.5	1.3	29.60	29.55	8.60	8.61	25.16	25.16	83.30	83.15	6.24	6.22	2.30	2.39	1.1	1.3
			8:14	2.5	1.3	29.50		8.61		25.16		83.00	70.10	6.20		2.47		1.4	
	30/6/2023	Cloudy	9:33	2.6	1.3	29.30	29.25	8.70	8.70	22.83	22.83	83.10	83.65	6.18	6.22	3.95	3.89	1.4	1.4
l		,	9:34	2.6	1.3	29.20	10.20	8.69		22.82	1	84.20	,,,,,,,	6.25	1	3.82		1.4	

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

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Lam Environmental Services Limited

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation		00	Tur	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			F	ppt		%	m	g/L	N	TU		g/L
	Date		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	17:32	2.3	1.2	28.80	28 75	8.37	8.37	30.30	30.31	84.60	84 75	6.08	611	2.81	2.86	<1.0	1.0
	DOZDZO	Oloudy	17:33	2.3	1.2	28.70	20.70	8.36	0.07	30.31	00.01	84.90	04.70	6.14	0.11	2.90	2.00	<1.0	
	5/6/2023	Cloudy	18:01	2.6	1.3	27.80	27.85	8.31	8.31	28.68	28 68	80.10	81.65	6.07	6.09	2.97	2.92	1.4	1.6
	0/0/2020	Oloudy	18:02	2.6	1.3	27.90	27.00	8.30	0.01	28.67	20.00	83.20	01.00	6.11	0.00	2.87	2.02	1.7	1.0
	7/6/2023	Fine	7:37	2.4	1.2	27.80	27.80	8.28	8 28	29.90	29.91	84.80	84 70	6.21	6.20	8.67	8.57	3.3	3.5
	77072020	1 1110	7:38	2.4	1.2	27.80	27.00	8.28	0.20	29.91	20.01	84.60	04.70	6.19	0.10	8.47	0.01	3.6	
	9/6/2023	Cloudy	8:44	2.4	1.2	28.20	28 25	8.26	8.26	29.52	29.53	84.30	84.20	6.28	6.27	4.24	4 22	1.7	1.7
	5/6/2025	Oloudy	8:45	2.4	1.2	28.30	20.20	8.26	0.20	29.54	20.00	84.10	04.20	6.26	0.1.	4.19	4.22	1.6	
	12/6/2023	Rainv	12:54	2.1	1.1	29.00	29.00	8.49	8.50	29.20	29.21	80.10	80.60	6.07	6.10	5.40	5.26	4.4	4.7
	12/0/2023	Rainy	12:55	2.1	1.1	29.00	25.00	8.50	0.50	29.21	20.21	81.10	00.00	6.12	0.10	5.12	3.20	5.0	4.7
	14/6/2023	Cloudy	15:44	2.2	1.1	28.20	28.30	8.50	8 49	27.43	27 44	82.50	81.35	6.20	6 19	3.62	3.59	2.5	2.8
SR6	14/0/2020	Oloudy	15:45	2.2	1.1	28.40	20.00	8.48	0.40	27.45	27.44	80.20	01.00	6.18	0.10	3.56	0.00	3.0	
SK0	16/6/2023	Cloudy	15:41	2.4	1.2	27.50	27.50	8.39	8.39	27.53	27.53	81.20	80.65	6.18	6.13	1.68	1.85	<1.0	1.0
	10/0/2020	Oloudy	15:42	2.4	1.2	27.50	27.00	8.39	0.00	27.52	27.00	80.10	00.00	6.07	0.10	2.02	1.00	<1.0	1.0
	19/6/2023	Cloudy	17:54	2.3	1.2	27.30	27.35	8.12	8 13	27.27	27 27	80.30	81 70	6.02	6 10	3.35	3.39	2.8	2.7
	TOTOLEGE	Oloudy	17:55	2.3	1.2	27.40	27.00	8.13	0.10	27.27	27.27	83.10	01.70	6.18	0.10	3.42	0.00	2.6	
	21/6/2023	Cloudy	8:00	2.3	1.2	27.60	27 60	8.11	8.12	27.04	27.05	84.80	84.00	6.21	6.18	7.01	7 44	3.4	3.4
	21/0/2020	Oloudy	8:01	2.3	1.2	27.60	27.00	8.12	0.12	27.05	27.00	83.20	04.00	6.14	0.10	7.86	1.44	3.3	0.4
	23/6/2023	Cloudy	7:52	2.4	1.2	28.50	28.55	8.38	8.38	26.88	26.88	82.10	82 40	6.16	6.18	6.17	6.23	5.3	5.4
	LUGIZUZU	Oloudy	7:53	2.4	1.2	28.60	20.00	8.37	0.00	26.88	20.00	82.70	02.40	6.19	0.10	6.29	0.20	5.5	
	26/6/2023	Cloudy	10:30	2.3	1.2	27.90	27.85	8.40	8 40	25.68	25.68	82.60	83 15	6.16	6.21	2.02	2 10	2.2	2.1
		2.5ddy	10:31	2.3	1.2	27.80	_7.00	8.40	0.40	25.68	20.00	83.70	30.10	6.25	0.1	2.17	2.10	1.9	2
	28/6/2023	Fine	13:28	2.3	1.2	29.80	29.80	8.69	8 70	25.11	25.11	81.80	82.60	6.08	6.14	2.57	2.59	1.2	1.1
	2002023	110	13:29	2.3	1.2	29.80	25.00	8.70	0.70	25.11	23.11	83.40	32.00	6.19	0.14	2.60	2.55	1.0	
	30/6/2023	Cloudy	16:23	2.4	1.2	29.00	29.05	8.77	8 75	22.48	22 48	84.10	84.25	6.22	6.25	2.06	1 94	1.4	1.3
	5552025	Sibudy	16:24	2.4	1.2	29.10	25.03	8.72	0.75	22.48	22.40	84.40	34.23	6.28	0.23	1.82	1.54	1.2	1.0

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	0	00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth		С		-		pt		%	m			TU		ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	10:39	4.5	1.0	28.20	28.25	8.28	8.29	30.80	30.81	82.00	82.85	6.02	6.08	4.55	4.50	2.7	
		,	10:40	4.5	1.0	28.30		8.29	0.20	30.81		83.70		6.14		4.45		2.0	
	5/6/2023	Cloudy	13:20	4.0	1.0	26.60	26.65	8.35	8.35	28.40	28.40	84.20	84.50	6.23	6.25	2.22	2.30	<1.0	1.0
		,	13:21	4.0	1.0	26.70		8.34	0.00	28.40		84.80		6.27		2.37		<1.0	
	7/6/2023	Cloudy	13:49	4.6	1.0	27.60	27.60	8.31	8.32	29.86	29.86	89.40	89.35	6.31	6.31	8.23	8.30	5.8	
			13:50	4.6	1.0	27.60		8.32		29.85		89.30		6.30		8.36		6.2	
	9/6/2023	Cloudy	15:46	4.4	1.0	27.90	27.85	8.24	8.25	29.93	29.94	83.30	83.80	6.19	6.24	3.76	3.83	4.3	
			15:47	4.4	1.0	27.80		8.25		29.94		84.30		6.28		3.89		4.3	
	12/6/2023	Rainv	12:40	3.8	1.0	28.30	28.35	8.47	8.48	28.45	28.45	81.90	82.70	6.14	6.20	4.37	4.42	4.2	
			12:41	3.8	1.0	28.40		8.48		28.45		83.50		6.26		4.47		4.3	
	14/6/2023	Cloudy	10:14	4.3	1.0	28.40	28.45	8.40	8.39	28.65	28.66	82.00	81.15	6.05	6.01	4.50	4.52	4.6	
			10:15	4.3	1.0	28.50		8.38		28.66		80.30		5.96		4.53		4.2	_
SR9	16/6/2023	Rainy	11:20	4.4	1.0	27.40	27.45	8.40	8.39	27.55	27.54	89.20	89.30	6.17	6.18	2.98	2.90	1.2	
			11:21	4.1	1.0	27.50		8.38		27.53		89.40		6.19		2.81		1.1	_
	19/6/2023	Cloudy	13:01	4.4	1.0	26.90	26.95	8.11	8.12	27.21	27.22	89.70	88.10	6.23	6.18	3.57	3.60	3.4	
			13:02	4.4	1.0	27.00		8.13		27.22		86.50		6.13		3.63		3.0	_
	21/6/2023	Cloudy	13:53	4.9	1.0	27.60	27.65	8.14	8.14	27.64	27.65	81.80	83.10	6.08	6.14	4.41	4.47	2.8	
			13:54	4.9	1.0	27.70		8.13		27.65		84.40		6.19		4.52		2.6	-
	23/6/2023	Cloudy	14:33	4.4	1.0	28.00	28.05	8.42	8.42	26.95	26.96	83.30	83.80	6.19	6.24	4.37	4.46	4.4	4.3
			14:34	4.4	1.0	28.10		8.41		26.97		84.30		6.28		4.55		4.2	
	26/6/2023	Cloudy	16:47	4.4	1.0	28.10	28.05	8.35	8.34	26.00	26.01	83.00	83.20	6.19	6.22	2.04	1.99	2.2	
			16:48	4.4	1.0	28.00		8.33		26.01		83.40		6.25		1.93		1.5	_
	28/6/2023	cancel	8:28	4.1	1.0	28.70	28.65	8.64	8.64	23.39	23.40	84.50	84.05	6.27	6.21	2.46	2.53	2.1	
			8:29	4.1	1.0	28.60		8.64		23.40		83.60		6.15		2.59		3.4	
	30/6/2023	Cloudy	9:47	4.1	1.0	29.30	29.30	8.70	8.71	24.01	24.01	81.60	82.60	6.12	6.19	2.95	3.00	2.0	
	ı	ı	9:48	4.1	1.0	29.30		8.71	1	24.00	1	83.60		6.26		3.05	1	2.0	1

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

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

	Sampling		Sampling	Water	Sampling		erature	F	H	Sal	inity	DO Sa	turation	D	0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С		-		pt		%	m			TU		ng/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	17:18	4.3	1.0	27.70	27 65	8.23	8.23	31.41	31.41	90.20	89.85	6.28	6.24	4.99	4.93	1.8	1.9
	DOZOZO	Oloudy	17:19	4.3	1.0	27.60	27.00	8.22	0.20	31.40	01.41	89.50	05.00	6.20	0.14	4.87	4.00	1.9	
	5/6/2023	Cloudy	17:46	4.3	1.0	26.70	26.65	8.32	8.33	28.39	28 40	82.60	83.15	6.16	6.21	3.22	3.34	1.4	
	GGZGZG	Oloudy	17:47	4.3	1.0	26.60	20.00	8.33	0.00	28.40	20.40	83.70	00.10	6.25	0.11	3.45	0.04	1.9	
	7/6/2023	Fine	7:51	4.3	1.0	27.60	27.60	8.31	8.32	29.98	29.97	87.20	88.60	6.17	6.20	8.34	8.37	4.7	
			7:52	4.3	1.0	27.60		8.32		29.96		90.00		6.23		8.39		4.9	
	9/6/2023	Cloudy	8:58	4.1	1.0	27.80	27.85	8.25	8.25	30.01	30.02	81.10	79.90	6.18	6.12	3.86	3.91	4.4	
		,	8:59	4.1	1.0	27.90		8.24	0.20	30.02		78.70		6.05	****	3.95		5.2	
	12/6/2023	Rainv	8:36	4.1	1.0	28.40	28 45	8.45	8 44	28.52	28.52	84.80	84.70	6.21	6.20	4.12	4 21	3.3	
			8:37	4.1	1.0	28.50		8.43		28.51		84.60		6.19		4.29		2.9	
	14/6/2023	Cloudy	15:30	4.0	1.0	28.30	28.20	8.39	8.38	28.77	28.76	88.40	88.80	6.21	6.23	3.99	4.03	3.6	
			15:31	4.0	1.0	28.10		8.37		28.75		89.20		6.25		4.07		3.4	
SR9	16/6/2023	Cloudy	15:29	3.8	1.0	27.60	27.60	8.36	8.35	27.28	27.29	84.20	83.90	6.25	6.23	1.92	2.02	<1.0	1.0
			15:30	3.8	1.0	27.60		8.34		27.29		83.60		6.20		2.11		<1.0	
	19/6/2023	Cloudy	17:39	4.1	1.0	26.80	26.85	8.11	8.12	27.26	27.26	85.90	85.45	6.18	6.16	4.35	4.31	2.4	2.6
		-	17:40	4.1	1.0	26.90		8.12		27.26		85.00		6.13		4.27		2.7	
	21/6/2023	Cloudy	8:14	4.3	1.0	27.60	27.70	8.13	8.13	27.55	27.57	83.40	83.75	6.14	6.16	4.88	4.95	2.8	
			8:15	4.3	1.0	27.80		8.12		27.58		84.10		6.18		5.02		2.6	
	23/6/2023	Cloudy	8:06	4.0	1.0	28.00	28.05	8.40	8.40	26.95	26.96	81.10	80.60	6.07	6.03	5.47	5.57	4.3	
			8:07	4.0	1.0	28.10		8.39		26.97		80.10		5.99		5.67		4.6	
	26/6/2023	Cloudy	10:44	4.0	1.0	28.20	28.15	8.35	8.35	26.17	26.18	81.90	82.70	6.14	6.20	2.31	2.40	1.5	
			10:45	4.0	1.0	28.10		8.35		26.19		83.50		6.26		2.49		1.0	
	28/6/2023	Fine	13:14	3.8	1.0	28.70	28.80	8.64	8.65	23.39	23.40	83.10	83.25	6.18	6.19	3.46	3.52	2.4	
			13:15	3.8	1.0	28.90		8.65		23.41		83.40		6.19		3.57		4.3	
	30/6/2023	Cloudy	16:09	3.8	1.0	29.10	29.05	8.65	8.66	24.00	24.00	82.80	83.35	6.17	6.21	2.26	2.36	1.8	
	l	l	16:10	3.8	1.0	29.00		8.66		23.99		83.90		6.24		2.45		1.0	1

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	turation	D	0	Turl	oidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt		%	m	g/L	N'	TU	m	ıg/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	10:42	4.5	3.5	27.30	27.35	8.22	8.22	32.24	32.23	86.30	86.05	6.19	6 18	5.67	5.53	2.1	2.0
	DOZOZO	Oloudy	10:43	4.5	3.5	27.40	27.00	8.22	U.LL	32.22	02.20	85.80	00.00	6.17	0.10	5.39	0.00	1.8	
	5/6/2023	Cloudy	13:23	4.0	3.0	26.70	26 65	8.35	8.35	28.37	28.38	83.20	84.00	6.14	6 18	3.08	3.02	1.3	1.2
		,	13:24	4.0	3.0	26.60		8.35	0.00	28.38		84.80		6.21		2.95		1.1	
	7/6/2023	Cloudy	13:52	4.6	3.6	27.80	27 70	8.32	8.32	29.78	29.78	89.50	89.80	6.25	6.27	9.37	9 29	2.8	
	170/2020	Oloudy	13:53	4.6	3.6	27.60	27.70	8.32	0.02	29.77	20.70	90.10	05.00	6.28	0.1.	9.21	0.20	3.2	
	9/6/2023	Cloudy	15:49	4.4	3.4	27.60	27 60	8.23	8 23	30.03	30.04	81.70	82 10	6.07	610	4.70	4 66	7.0	6.6
		,	15:50	4.4	3.4	27.60		8.23	0.20	30.04		82.50		6.12		4.62		6.1	
	12/6/2023	Rainv	12:42	3.8	2.8	28.50	28 50	8.49	8 49	28.63	28 64	83.00	82 50	6.20	6 17	4.15	4 07	4.9	
	12/0/2020	reality	12:43	3.8	2.8	28.50	20.00	8.48	0.40	28.65	20.04	82.00	02.00	6.13	0.17	3.98	4.07	4.6	
	14/6/2023	Cloudy	10:17	4.3	3.3	28.30	28 25	5.02	4 97	29.14	29 15	83.60	82 30	6.16	610	5.02	4 97	6.0	5.9
		,	10:18	4.3	3.1	28.20		4.91		29.16		81.00	02.00	6.04		4.91		5.7	
SR9	16/6/2023	Rainv	11:23	4.4	3.1	27.60	27.60	8.31	8.31	29.06	29.07	89.50	89.05	6.25	6.19	3.05	3.00	2.2	2.3
			11:24	4.1	3.1	27.60		8.30		29.07		88.60		6.13		2.94		2.4	· ·
	19/6/2023	Cloudy	13:04	4.4	3.4	26.90	26.90	8.10	8.10	27.50	27.50	88.20	88.40	6.10	6.12	4.54	4.48	3.8	
			13:05	4.4	3.4	26.90		8.09		27.50		88.60		6.13		4.42		4.3	
	21/6/2023	Cloudy	13:56	4.9	3.9	27.60	27.60	8.12	8.13	27.64	27.65	84.80	83.00	6.21	6.16	4.73	4.67	1.8	4 1.7
			13:57	4.9	3.9	27.60		8.13		27.65		81.20		6.11		4.60		1.6	
	23/6/2023	Cloudy	14:36	4.4	3.4	27.90	27.90	8.43	8.43	26.95	26.96	83.60	84.05	6.20	6.24	5.21	5.17	4.8	
			14:37	4.4	3.4	27.90		8.43		26.97		84.50		6.28		5.12		5.0	
	26/6/2023	Cloudy	16:50	4.4	3.4	28.10	28.10	8.30	8.30	26.35	26.35	83.00	82.50	6.20	6.17	2.59	2.68	2.2	1.9
			16:51	4.4	3.4	28.10		8.30		26.34		82.00		6.13		2.76		1.6	
	28/6/2023	cancel	8:31	4.1	3.1	28.70	28.70	8.62	8.63	24.42	24.42	83.00	83.35	6.19	6.22	2.83	2.78	2.1	1.7
			8:32	4.1	3.1	28.70		8.63		24.41		83.70		6.25		2.72		1.3	
	30/6/2023	Cloudy	9:50	4.1	3.1	27.80	27.85	8.55	8.56	26.75	26.75	82.30	83.00	6.13	6.18	2.69	2.71	1.2	1.4
	l		9:51	4.1	3.1	27.90		8.56	1	26.75		83.70		6.22		2.72		1.6	1

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

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٩	С			p	pt		%	m		N'	TU	m	ıg/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	17:21	4.3	3.3	27.20	27.30	8.22	8.22	32.24	32.25	88.80	89.15	6.18	6.19	4.55	4.47	2.7	2.3
	DOZOZO	Oloudy	17:22	4.3	3.3	27.40	27.00	8.22	U.LL	32.25	OZ.ZO	89.50	00.10	6.20	0.10	4.39	4.47	1.8	
	5/6/2023	Cloudy	17:49	4.3	3.3	26.70	26.65	8.34	8.34	28.35	28.36	81.90	82.70	6.14	6.20	4.03	3.99	2.1	2.3
		,	17:50	4.3	3.3	26.60		8.33		28.36		83.50		6.26		3.95		2.4	
	7/6/2023	Fine	7:54	4.3	3.3	27.60	27 70	8.30	8.30	30.07	30.07	87.40	87.35	6.15	6 15	9.69	9.72	7.1	6.9
			7:55	4.3	3.3	27.80		8.29		30.06		87.30	000	6.14		9.75	****	6.7	
	9/6/2023	Cloudy	9:01	4.1	3.1	27.60	27.60	8.24	8.24	30.05	30.06	80.00	80.30	6.07	6.09	4.92	5.00	7.5	8.3
			9:02	4.1	3.1	27.60		8.23		30.06		80.60		6.11		5.07		9.1	
	12/6/2023	Rainv	8:39	4.1	3.1	28.40	28.45	8.45	8.46	28.68	28.68	84.90	84.95	6.20	6.21	4.12	4.06	3.4	3.6
			8:40	4.1	3.1	28.50		8.47		28.67		85.00		6.21		3.99		3.7	
	14/6/2023	Cloudy	15:33	4.0	3.0	28.30	28.20	8.38	8.38	29.13	29.13	86.50	88.10	6.13	6.18	3.27	3.29	3.0	
			15:34	4.0	3.0	28.10		8.37		29.12		89.70		6.23		3.30		2.8	
SR9	16/6/2023	Cloudy	15:31	3.8	2.8	27.50	27.55	8.28	8.28	29.31	29.33	82.50	82.05	6.12	6.10	2.43	2.52	2.2	2.3
			15:32	3.8	2.8	27.60		8.28		29.34		81.60		6.08		2.60		2.4	
	19/6/2023	Cloudy	17:42	4.1	3.1	26.80	26.80	8.11	8.11	27.25	27.24	84.80	84.70	6.21	6.20	3.63	3.67	3.7	3.6
			17:43	4.1	3.1	26.80		8.11		27.23		84.60		6.19		3.70		3.4	
	21/6/2023	Cloudy	8:17	4.3	3.3	27.60	27.60	8.13	8.13	27.66	27.66	83.40	83.90	6.22	6.25	5.27	5.31	3.4	3.6
			8:18	4.3	3.3	27.60		8.12		27.65		84.40		6.28		5.35		3.8	
	23/6/2023	Cloudy	8:09	4.0	3.0	28.00	28.05	8.40 8.41	8.41	26.91 26.93	26.92	82.70 82.10	82.40	6.16	6.14	5.53 5.73	5.63	4.7 5.0	
			8:10 10:47	4.0	3.0			8.41		26.93		82.10		6.12		2.45		2.0	
	26/6/2023	Cloudy	_			28.00	28.05	8.33	8.34	26.22	26.22	82.00	82.50	6.20	6.17	2.45	2.38	1.0	
			10:48	4.0	3.0	28.10										3.92			
	28/6/2023	Fine	13:16	3.8	2.8	28.60	28.60	8.62 8.63	8.63	24.41	24.42	83.60 82.60	83.10	6.18	6.15	3.92	3.88	4.8 2.8	
		1	16:11	3.8	2.8	27.90		8.55		24.42		84.30		6.12		3.83		<1.0	
	30/6/2023	Cloudy	16:11	3.8	2.8	28.00	27.95	8.55	8.55	26.75	26.76	84.30	83.55	6.28	6.23	3.17	3.11	<1.0	1.0
			16:12	3.8	2.8	28.00		8.54		26.75		82.80		6.17		3.05		<1.0	

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	٩	С			p	pt	•	%	m		N'	TU	m	ıg/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	10:48	2.4	1.2	27.70	28.00	8.32	8.31	30.79	30.80	83.70	84.15	6.15	6.19	3.01	3.09	<1.0	1.0
	DOZOZO	Oloudy	10:49	2.4	1.2	28.30	20.00	8.30	0.01	30.80	00.00	84.60	04.10	6.22	0.10	3.17	0.00	<1.0	
	5/6/2023	Cloudy	13:29	2.5	1.3	26.80	26.85	8.31	8.32	28.39	28.39	82.90	83.85	6.20	624	2.97	2.91	1.6	
		,	13:30	2.5	1.3	26.90		8.33		28.38		84.80		6.27		2.85		1.3	
	7/6/2023	Cloudy	13:40	2.7	1.4	27.80	27 75	8.34	8.35	29.76	29.67	88.30	88.05	6.04	6.03	8.01	8.02	2.7	2.7
		,	13:41	2.7	1.4	27.70		8.35	0.00	29.57		87.80		6.02	0.00	8.03	0.02	2.6	
	9/6/2023	Cloudy	15:41	2.1	1.1	28.10	28.05	8.25	8.25	29.82	29.83	83.90	83.95	6.24	6.25	3.98	4.00	3.0	
			15:42	2.5	1.3	28.00		8.25		29.83		84.00		6.25		4.01		4.9	
	12/6/2023	Rainv	12:32	2.1	1.1	28.70	28.65	8.47	8.47	28.58	28.59	83.70	82.80	6.24	6.19	4.27	4.23	3.9	4.0
			12:33	2.1	1.1	28.60		8.47		28.59		81.90		6.13		4.19		4.1	
	14/6/2023	Cloudy	10:23	2.5	1.3	28.10	28.05	8.43	8.44	28.04	28.04	82.90	83.75	6.19	6.20	2.96	3.06	2.9	
			10:24	2.5	1.3	28.00		8.44		28.04		84.60		6.21		3.15		3.2	
SR10	16/6/2023	Rainy	11:29	2.6	1.3	27.60	27.60	8.31	8.31	28.94	28.94	89.70	90.50	6.23	6.25	1.96	2.04	1.6	
			11:30	2.6	1.3	27.60		8.30		28.94		91.30		6.27		2.11		1.3	
	19/6/2023	Cloudy	13:10	2.6	1.3	27.20	27.25	8.13	8.13	27.12	27.13	89.40	90.35	6.19	6.23	2.20	2.26	2.0	
			13:11	2.6	1.3	27.30		8.12		27.14		91.30		6.27		2.31		2.2	
	21/6/2023	Cloudy	13:44	2.6	1.3	27.60	27.60	8.17	8.17	26.67	26.67	81.50	81.80	6.17	6.18	4.29	4.36	2.6	
			13:45	2.6	1.3	27.60		8.16		26.66		82.10		6.19		4.42		2.5	
	23/6/2023	Cloudy	14:24	2.7	1.4	28.10	28.05	8.45	8.44	26.99	26.98	83.40	83.40	6.20	6.20	4.30	4.38	3.6	
			14:25	2.7	1.4	28.00		8.43		26.97		83.40		6.19		4.45		3.5	
	26/6/2023	Cloudy	16:39	2.6	1.3	28.10	28.10	8.39	8.40	25.45	25.45	83.50	83.55	6.27	6.28	1.95	1.85	<1.0	1.1
		l	16:40	2.6	1.3	28.10		8.40		25.45		83.60		6.28		1.74		1.2	
	28/6/2023	cancel	8:37	2.5	1.3	29.00	29.00	8.66 8.66	8.66	23.10	23.06	84.20 84.80	84.50	6.23	6.25	3.45	3.37	1.9	
			8:38	2.5	1.3	29.00				23.02									
	30/6/2023	Cloudy	9:56	2.5	1.3	29.10	29.10	8.66	8.66	24.68	24.68	82.50	81.65	6.16	6.11	3.61	3.68	1.8	
	ı	ı	9:57	2.5	1.3	29.10	1	8.66	1	24.68	1	80.80		6.06	1	3.75	1	2.2	1

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

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Lam Environmental Services Limited

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	turation		0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt		%	m	g/L	N'	TU	m	ng/L
	Date		TIIIIO	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	17:09	2.2	1.1	28.10	28.05	8.30	8.31	30.88	30.88	84.40	84.00	6.19	6.16	2.68	272	<1.0	1.0
	202020	Oloudy	17:10	2.2	1.1	28.00	20.00	8.31	0.01	30.87	00.00	83.60	04.00	6.12	0.10	2.76	272	<1.0	
	5/6/2023	Cloudy	17:37	2.6	1.3	26.80	26.85	8.31	8.31	28.37	28 37	83.00	82.50	6.20	6 17	3.27	3.14	1.4	
		,	17:38	2.6	1.3	26.90		8.30		28.36		82.00		6.13	•	3.01		1.2	
	7/6/2023	Fine	8:00	2.4	1.2	27.60	27 65	8.34	8.34	29.60	29.59	81.00	82 80	6.04	610	7.41	7 49	4.4	
	170/2020	1 1110	8:01	2.4	1.2	27.70	27.00	8.34	0.04	29.57	20.00	84.60	02.00	6.16	0.10	7.56	7.40	4.8	
	9/6/2023	Cloudy	9:07	2.3	1.2	27.90	27.75	8.25	8.25	29.77	29.77	80.80	80.50	6.09	6.05	4.75	4.69	4.6	4.4
	0/0/2020	Oloudy	9:08	2.3	1.2	27.60	27.70	8.24	0.20	29.77	20.77	80.20	00.00	6.01	0.00	4.63	4.00	4.2	
	12/6/2023	Rainv	8:45	2.4	1.2	28.60	28 60	8.47	8.47	28.78	28 78	82.00	82 85	6.02	6.08	5.03	5 10	3.4	3.6
	12/0/2023	Rainy	8:46	2.4	1.2	28.60	20.00	8.46	0.47	28.78	20.70	83.70	02.00	6.14	0.00	5.17	3.10	3.7	0.0
	14/6/2023	Cloudy	15:21	2.3	1.2	28.30	28.35	8.45	8.44	28.69	28.70	86.50	87.35	6.13	6.17	2.07	2.13	2.2	2.3
	1-47012020	Oloudy	15:22	2.3	1.2	28.40	20.00	8.43	0.44	28.70	20.70	88.20	01.00	6.20	0.17	2.19	2.10	2.4	
SR10	16/6/2023	Cloudy	15:18	2.3	1.2	27.60	27.55	8.33	8.33	28.69	28 70	83.60	83.90	6.20	6.23	2.17	2 13	1.4	1.3
01110	10/0/2020	Oloudy	15:19	2.3	1.2	27.50	27.00	8.33	0.00	28.70	20.70	84.20	00.00	6.25	0.10	2.08	2.10	1.2	1.0
	19/6/2023	Cloudy	17:30	2.4	1.2	27.40	27.35	8.13	8.14	27.13	27.13	90.20	89.85	6.28	6.24	2.69	2.65	3.2	3.0
	18/0/2023	Cioudy	17:31	2.4	1.2	27.30	27.33	8.14	0.14	27.12	27.13	89.50	05.00	6.20	0.24	2.60	2.00	2.8	0.0
	21/6/2023	Cloudy	8:24	2.4	1.2	27.70	27 65	8.16	8 16	27.66	27.66	83.90	83.85	6.22	6.22	3.11	3 27	1.2	1.3
	21/0/2023	Cioudy	8:25	2.4	1.2	27.60	27.00	8.16	0.10	27.66	27.00	83.80	03.03	6.22	0.22	3.42	J.21	1.4	1.3
	23/6/2023	Cloudy	8:15	2.4	1.2	28.20	28.20	8.44	8.44	26.99	26.99	82.10	81.80	6.19	6.16	4.93	4.98	4.5	4.7
	23/6/2023	Cidudy	8:16	2.4	1.2	28.20	20.20	8.43	0.44	26.98	20.99	81.50	01.00	6.12	0.10	5.03	4.90	4.8	4.7
	26/6/2023	Cloudy	10:53	2.2	1.1	28.10	28.05	8.39	8.40	25.50	25.51	83.70	82.80	6.24	6.19	2.02	2.10	1.4	1.2
	20/0/2023	Cioudy	10:54	2.2	1.1	28.00	20.00	8.40	0.40	25.51	23.31	81.90	02.00	6.13	0.15	2.17	2.10	<1.0	1.2
	28/6/2023	Fine	13:05	2.3	1.2	28.80	28.85	8.66	8.66	23.02	23.03	82.20	82 65	6.12	6.15	2.96	2.98	2.4	2.3
	20/0/2023	FINE	13:06	2.3	1.2	28.90	20.00	8.66	0.00	23.04	23.03	83.10	02.00	6.18	0.13	2.99	2.90	2.2	2.5
	30/6/2023	Cloudy	16:01	2.3	1.2	28.20	28.15	8.65	8.65	25.57	25.58	80.80	81.65	6.03	6.10	3.79	3.73	1.9	1.5
	30/0/2023	Cidudy	16:02	2.3	1.2	28.10	28.15	8.64	8.65	25.59	25.58	82.50	61.65	6.16	6.10	3.66	3./3	<1.0	1 1.5

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation	D	0	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			p	pt	•	%	m	g/L	N'	TU	m	ıg/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	10:54	2.5	1.3	28.10	28 25	8.31	8.31	30.88	30.89	84.00	83.95	6.15	6 14	3.08	3.12	1.0	1.0
	DOZOZO	Oloudy	10:55	2.5	1.3	28.40	20.20	8.30	0.01	30.89	00.00	83.90	00.00	6.12	0.14	3.16	0.12	<1.0	
	5/6/2023	Cloudy	13:35	2.4	1.2	26.90	26 90	8.31	8.31	28.41	28 41	84.50	84 65	6.23	6.25	2.76	277	<1.0	1.0
		,	13:36	2.4	1.2	26.90		8.30		28.40		84.80		6.27		2.78		<1.0	
	7/6/2023	Cloudy	13:36	2.6	1.3	27.80	27.80	8.34	8.34	29.47	29 49	89.50	89.05	6.25	6 19	8.10	8 10	2.0	2.3
	770/2020	Gloddy	13:37	2.6	1.3	27.80	27.00	8.34	0.04	29.50	20.40	88.60	05.00	6.13	0.10	8.09	0.10	2.3	
	9/6/2023	Cloudy	15:38	2.2	1.1	28.00	28 00	8.25	8 25	29.84	29.84	82.20	82 50	6.12	6 15	3.76	3.82	3.7	3.7
		,	15:39	2.6	1.3	28.00		8.25	0.20	29.83		82.80		6.17		3.87	0.00	3.6	
	12/6/2023	Rainv	12:28	2.2	1.1	28.80	28 75	8.41	8.42	28.60	28 61	81.90	82 50	6.07	6.13	4.76	4.83	2.9	
			12:29	2.2	1.1	28.70		8.43		28.61		83.10		6.18		4.90		3.2	
	14/6/2023	Cloudy	10:29	2.4	1.2	28.30	28.30	8.43	8.44	28.68	28.68	87.30	87.35	6.14	6.15	3.01	3.09	3.1	3.3
			10:30	2.4	1.3	28.30		8.44		28.67		87.40		6.15		3.17		3.4	
SR12	16/6/2023	Rainy	11:35	2.7	1.3	27.50	27.55	8.31	8.30	28.83	28.82	89.40	89.35	6.19	6.16	3.01	2.81	1.8	
		-	11:36	2.5	1.3	27.60		8.28		28.81		89.30		6.12		2.60		1.6	
	19/6/2023	Cloudy	13:16	2.7	1.4	27.20	27.25	8.13	8.14	27.12	27.13	88.60	89.05	6.13	6.19	2.53	2.56	2.6	
			13:17	2.7	1.4	27.30		8.14		27.13		89.50		6.25		2.59		2.3	
	21/6/2023	Cloudy	13:40	2.6	1.3	27.70	27.65	8.17	8.17	27.65	27.66	84.20	84.05	6.25	6.23	3.26	3.19	1.5	1.6
			13:41	2.6	1.3	27.60		8.17		27.66		83.90		6.20		3.11		1.7	
	23/6/2023	Cloudy	14:20	2.7	1.4	28.00	28.05	8.45	8.45	26.98	26.99	83.60	82.90	6.20	6.16	5.48	5.39	3.4	3.4
			14:21	2.7	1.4	28.10		8.45		26.99		82.20		6.12		5.29		3.4	
	26/6/2023	Cloudy	16:35	2.5	1.3	28.10	28.05	8.41	8.40	25.47	25.47	81.90	82.90	6.14	6.20	1.72	1.66	1.6	1.5
			16:36	2.5	1.3	28.00		8.39		25.46		83.90		6.26		1.59		1.4	
	28/6/2023	cancel	8:42	2.4	1.2	28.80	28.85	8.67	8.67	23.14	23.14	83.20	84.00	6.14	6.18	2.85	2.88	2.6	
		l	8:43	2.4	1.2	28.90		8.66		23.13		84.80		6.21		2.91		1.6	
	30/6/2023	Cloudy	10:01	2.6	1.3	28.90	28.95	8.64	8.65	25.45	25.45	83.20	82.55	6.21	6.16	3.91	3.90	1.6	
	l		10:02	2.6	1.3	29.00		8.65	1	25.44	1	81.90		6.11		3.89		2.2	1

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

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Lam Environmental Services Limited

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	aturation	D	0	Tur	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			l p	pt		%	m	g/L	N	TU	m	ng/L
	Date		TITLE	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	17:05	2.3	1.2	28.10	28.05	8.30	8.30	30.89	30.89	89.50	89.80	6.22	6.24	2.56	2.49	<1.0	1.0
	202020	Oloudy	17:06	2.3	1.2	28.00	20.00	8.29	0.00	30.88	00.00	90.10	00.00	6.25	0.14	2.41	2.40	<1.0	
	5/6/2023	Cloudy	17:32	2.6	1.3	26.90	26.90	8.31	8.31	28.40	28 40	83.70	82 80	6.24	6.19	2.85	2.92	1.4	1.5
		,	17:33	2.6	1.3	26.90		8.30		28.39		81.90		6.13		2.98		1.6	
	7/6/2023	Fine	8:05	2.3	1.2	27.80	27.80	8.34	8.35	29.55	29.56	86.70	86.00	6.22	6.19	8.69	8.66	4.2	
	770/2023	1 1110	8:06	2.3	1.2	27.80	27.00	8.35	0.33	29.56	28.30	85.30	00.00	6.15	0.10	8.62	0.00	4.0	4.1
	9/6/2023	Cloudy	9:12	2.4	1.2	28.00	28.05	8.25	8.25	29.81	29.81	83.40	83.00	6.19	6.16	4.05	4.15	3.4	3.3
	0/0/2020	Oloudy	9:13	2.4	1.2	28.10	20.00	8.25	0.20	29.81	20.01	82.60	00.00	6.13	0.10	4.25	4.10	3.1	
	12/6/2023	Rainv	8:50	2.3	1.2	28.70	28.65	8.46	8 47	28.60	28.60	84.60	84.70	6.19	6.20	5.38	5.32	4.4	4.2
	12/0/2023	Rainy	8:51	2.3	1.2	28.60	20.03	8.47	0.47	28.60	20.00	84.80	04.70	6.21	0.20	5.26	5.52	4.0	4.2
	14/6/2023	Cloudy	15:11	2.2	1.1	28.40	28.45	8.43	8.44	28.59	28.60	88.60	88.40	6.13	6.12	2.16	2.23	2.0	2.1
	1-11012020	Oloudy	15:12	2.2	1.1	28.50	20.40	8.45	0.44	28.61	20.00	88.20	00.40	6.10	0.12	2.30	2.20	2.2	
SR12	16/6/2023	Cloudy	15:14	2.4	1.2	27.40	27 40	8.34	8.35	28.50	28.51	83.40	83.00	6.19	6.16	1.84	1 94	1.2	1.1
OTTIE	10/0/2020	Oloudy	15:15	2.4	1.2	27.40	27.40	8.35	0.00	28.51	20.01	82.60	00.00	6.13	0.10	2.04	1.04	1.0	
	19/6/2023	Cloudy	17:26	2.5	1.3	27.40	27.35	8.13	8.14	27.14	27.14	84.70	84.20	6.18	6.16	3.24	3.31	2.0	2.2
	18/0/2023	Cioudy	17:27	2.5	1.3	27.30	21.33	8.14	0.14	27.13	27.14	83.70	04.20	6.14	0.10	3.37	3.31	2.4	
	21/6/2023	Cloudy	8:29	2.3	1.2	27.60	27.60	8.17	8.17	27.66	27.66	83.50	83.15	6.19	6.17	3.83	3.88	2.1	2.3
	21/0/2023	Cioudy	8:30	2.3	1.2	27.60	27.00	8.16	0.17	27.65	27.00	82.80	00.10	6.14	0.17	3.93	3.00	2.4	2.5
	23/6/2023	Cloudy	8:21	2.5	1.3	28.20	28.15	8.43	8.44	27.01	27.01	80.70	81.25	5.97	6.08	6.05	6.11	4.0	4.1
	23/0/2023	Cioudy	8:22	2.5	1.3	28.10	20.15	8.44	0.44	27.00	27.01	81.80	01.23	6.18	0.00	6.17	0.11	4.2	1
	26/6/2023	Cloudy	10:58	2.1	1.1	28.00	28.05	8.38	8.39	25.46	25.46	82.00	82.55	6.12	6.15	1.81	1.75	<1.0	1.6
	20/0/2023	Cioudy	10:59	2.1	1.1	28.10	20.00	8.40	0.35	25.46	23.40	83.10	02.55	6.18	0.13	1.68	1.75	2.2	1.0
	28/6/2023	Fine	13:01	2.2	1.1	28.80	28.80	8.67	8.67	22.96	22.96	81.80	81.90	6.08	6.09	3.18	3.13	1.8	2.9
	20/0/2023	1.116	13:02	2.2	1.1	28.80	20.00	8.67	0.07	22.96	22.90	82.00	81.90	6.10	6.09	3.07	3.13	3.9	2.0
	30/6/2023	Cloudy	15:57	2.4	1.2	28.20	28.10	8.66	8.66	25.40	25.40	83.20	83.45	6.13	6.18	3.75	3.82	1.2	1.2
	30r0r2023	Cidudy	15:58	2.4	1.2	28.00	20.10	8.65	0.00	25.40	25.40	83.70	03.45	6.22	0.10	3.89	3.02	1.2	1.2

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth		С		-		pt		%	m			TU		ıg/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	9:56	2.5	1.3	28.50	28.55	8.35	8.34	30.12	30.13	82.00	81.15	6.20	6.11	6.21	6.15	1.0	1.3
		,	9:57	2.5	1.3	28.60		8.33		30.13		80.30		6.02	•	6.09		1.6	
	5/6/2023	Cloudy	12:36	2.4	1.2	28.10	28.10	8.27	8.27	28.49	28.49	83.30	82.75	6.22	6.18	2.64	2.74	<1.0	1.0
			12:37	2.4	1.2	28.10		8.26		28.48		82.20		6.13		2.83		<1.0	
	7/6/2023	Cloudy	14:27	2.5	1.3	27.50	27.55	8.27	8.28	30.23	30.23	82.10	81.40	6.24	6.22	8.59	8.66	2.7	2.9
		,	14:28	2.5	1.3	27.60		8.28		30.22		80.70		6.19		8.72		3.0	
	9/6/2023	Cloudy	16:22	2.5	1.3	28.20	28.25	8.29	8.29	29.81	29.81	82.80	82.55	6.17	6.15	4.07	4.04	4.4	4.8
		-	16:23	2.5	1.3	28.30		8.28		29.80		82.30		6.13		4.01		5.1	
	12/6/2023	Rainy	7:55	2.4	1.2	28.50	28.50	8.42	8.42	29.09	29.10	83.60	82.90	6.20	6.16	4.70	4.76	4.1	4.0
			7:56	2.4	1.2	28.50		8.42		29.10		82.20		6.12		4.82		3.8	
	14/6/2023	Cloudy	9:32	2.4	1.2	28.20	28.25	8.44	8.44	27.95	28.96	83.60	82.40	6.19	6.15	4.16	4.12	4.3	4.5
			9:33	2.4	1.2	28.30		8.43		29.96		81.20		6.11		4.07		4.7	
SR15	16/6/2023	Rainy	10:36	2.6	1.3	27.10	27.20	8.42	8.42	26.61	26.61	78.80	80.20	5.95	6.02	2.01	1.94	<1.0	1.0
			10:37	2.6	1.3	27.30		8.42		26.60		81.60		6.09		1.87		<1.0	
	19/6/2023	Cloudy		2.5	1.3	26.80	26.85	8.05	8.06	27.20	27.20	82.10	83.50	6.19	6.22	2.44	2.48	1.9	
			12:21	2.5	1.3	26.90 28.20		8.06 8.23		27.19 26.88		84.90 83.00		6.24		2.52 4.66		1.7	
	21/6/2023	Cloudy	14:32	2.7	1.4	28.30	28.25	8.22	8.23	26.87	26.88	80.10	81.55	6.08	6.14	4.79	4.73	3.0	2.9
			15:11	2.6	1.4	28.10		8.36		26.90		84.60		6.19		6.31		5.2	
	23/6/2023	Cloudy	15:12	2.6	1.3	28.00	28.05	8.35	8.36	26.90	26.91	84.80	84.70	6.19	6.20	6.45	6.38	4.8	
			17:25	2.6	1.3	28.00		8.46		26.08		83.50		6.27		2.50		2.4	
	26/6/2023	Cloudy	17:26	2.6	1.3	27.90	27.95	8.46	8.46	26.09	26.09	83.60	83.55	6.28	6.28	2.34	2.42	2.0	2.2
			7:45	2.4	1.2	29.10		8.57		25.79		83.90		6.22		2.95		<1.0	
	28/6/2023	cancel	7:46	2.4	1.2	29.00	29.05	8.57	8.57	25.80	25.80	83.80	83.85	6.21	6.22	3.17	3.06	<1.0	1.0
			9:05	2.5	1.3	29.00		8.67		21.88		81.10		6.18		2.80		1.8	4.7
	30/6/2023	Cloudy	9:06	2.5	1.3	29.10	29.05	8.65	8.66	21.86	21.87	80.70	80.90	6.15	6.17	2.95	2.88	1.5	

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

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

		Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation	D	0	Turt	oidity	5	SS
S	ation Reference	Date	Weather	Time	Depth	Depth	۰	С			р	ppt		%	mg		N'	ги	m	g/L
		2310			m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
		2/6/2023	Cloudy	17:56	2.2	1.1	28.60	28.60	8.42	8.42	30.20	30.21	88.60	89.05	6.13	6.19	2.37	2.29	<1.0	1.0
			,	17:57	2.2	1.1	28.60		8.42		30.21		89.50		6.25		2.21		<1.0	
		5/6/2023	Cloudy	18:25	2.6	1.3	27.90	27 90	8.30	8 29	28.53	28.53	84.20	84.05	6.25	6.23	2.22	2.30	<1.0	1.0
			,	18:26	2.6	1.3	27.90		8.28	0.20	28.52		83.90		6.20		2.37		<1.0	
		7/6/2023	Fine	7:08	2.2	1.1	27.70	27.70	8.25	8.25	29.89	29.90	82.00	82.85	6.02	6.08	8.62	8.58	4.9	5.1
				7:09	2.2	1.1	27.70		8.24		29.90		83.70		6.14		8.53		5.2	
		9/6/2023	Cloudy	8:17	2.2	1.1	28.10	28.15	8.19	8.20	29.86	29.85	81.60	82.60	6.12	6.19	3.05	3.10	5.1	5.4
			,	8:18	2.2	1.1	28.20		8.20		29.84		83.60		6.26		3.15		5.6	
		12/6/2023	Rainy	13:19	2.2	1.1	28.70	28.65	8.53	8.54	28.98	28.98	84.20	84.05	6.25	6.23	4.73	4.70	4.7	4.7
			-	13:20	2.2	1.1	28.60		8.54		28.98		83.90		6.20		4.67		4.6	
		14/6/2023	Cloudy	16:08	2.1	1.1	28.40	28.45	8.53	8.54	28.14	28.14	82.10	81.40	6.19	6.12	2.57	2.51	2.6	2.4
			-	16:09	2.1	1.1	28.50		8.54		28.13		80.70		6.04		2.44		2.2	
	SR15	16/6/2023	Cloudy	16:08	2.4	1.2	27.50	27.45	8.31	8.32	27.50	27.50	84.70	84.20	6.16	6.11	1.45	1.40	<1.0	1.0
				16:09 18:18	2.4	1.2	27.40 27.30		8.32 8.15		27.49 27.08		83.70 84.30		6.05 6.15		1.35		<1.0	
		19/6/2023	Cloudy	18:18	2.2	1.1	27.20	27.25	8.15	8.16	27.08	27.07	84.30	84.20	6.14	6.15	1.75	1.90	2.6	2.5
				7:31	2.2	1.1	27.20		8.16		26.30		84.10		6.14		7.70		4.6	
		21/6/2023	Cloudy	7:32	2.3	1.2	28.00	27.95	8.14	8.14	26.28	26.29	84.50	84.65	6.23	6.25	7.70	7.76	4.0	4.4
				7:24	2.3	1.2	28.50		8.26		26.85		81.90		6.14		8.26		4.1	
		23/6/2023	Cloudy	7:25	2.3	1.2	28.40	28.45	8.25	8.26	26.86	26.86	83.50	82.70	6.26	6.20	8.32	8.29	4.8	4.6
				9:51	2.2	1.1	27.90		8.27		26.44		82.40		6.19		4.41		2.9	
		26/6/2023	Cloudy	9:52	2.2	1.1	28.00	27.95	8.28	8.28	26.43	26.44	81.20	81.80	6.09	6.14	4.52	4.47	2.0	2.5
				13:53	2.2	1.1	29.60		8.72		25.42		84.20		6.25		2.57		<1.0	
		28/6/2023	Fine	13:54	2.2	1.1	29.80	29.70	8.70	8.71	25.44	25.43	83.90	84.05	6.20	6.23	2.62	2.60	<1.0	1.0
		00/00000	OL 1	16:48	2.2	1.1	28.50	00.55	8.69	0.70	21.93	04.04	82.20	00.00	6.12	0.40	1.79		1.1	
		30/6/2023	Cloudy	16:49	2.2	1.1	28.60	28.55	8.70	8.70	21.95	21.94	83.40	82.80	6.20	6.16	2.02	1.91	1.7	1.4

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	0	00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth		С		-		pt		%	m			TU		g/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	11:05	8.5	1.0	28.20	28.25	8.33	8.33	30.05	30.06	84.60	84.70	6.19	6.20	2.04	2.08	<1.0	1.0
	DOZOZO	Oloudy	11:06	8.5	1.0	28.30	20.20	8.33	0.00	30.07	00.00	84.80	04.70	6.21	0.10	2.12	2.00	<1.0	
	5/6/2023	Cloudy	13:46	8.5	1.0	27.80	27.85	8.36	8.36	28.50	28.49	84.00	84.20	6.10	6.11	2.57	2.63	<1.0	1.0
	GGZGZG	Oloudy	13:47	8.5	1.0	27.90	27.00	8.35	0.00	28.48	20.40	84.40	04.20	6.12	0.11	2.69	2.00	<1.0	
	7/6/2023	Cloudy	13:27	8.8	1.0	27.40	27 45	8.36	8.36	29.99	29.99	91.30	90.35	6.27	6.23	6.47	6.42	1.9	1.8
	170/2020	Oloudy	13:28	8.8	1.0	27.50	27.40	8.35	0.00	29.99	20.00	89.40	50.55	6.19	0.10	6.37	0.42	1.6	
	9/6/2023	Cloudy	15:30	8.6	1.0	27.60	27 65	8.29	8 29	29.66	29.66	83.60	84.05	6.20	624	3.26	3.23	6.2	
		,	15:31	8.6	1.0	27.70		8.28	0.20	29.65		84.50		6.28		3.19	0	5.3	
	12/6/2023	Rainv	12:17	8.2	1.0	28.90	28.90	8.48	8.48	28.70	28.71	82.60	83.15	6.16	6.21	4.25	4.31	5.0	5.2
	12/0/2020	reality	12:18	8.2	1.0	28.90	20.00	8.47	0.40	28.71	20.71	83.70	00.10	6.25	0.11	4.37	4.01	5.4	
	14/6/2023	Cloudy	10:40	8.4	1.0	28.20	28 25	8.49	8 49	28.48	28 48	82.10	82 40	6.17	6 18	2.08	2.34	2.8	
		,	10:41	8.4	1.0	28.30		8.48		28.47		82.70		6.19		2.59		2.5	
CE	16/6/2023	Rainv	11:47	8.5	1.0	27.20	27 25	8.31	8.31	27.22	27.21	89.40	89.45	6.19	6.20	2.25	2.31	<1.0	1.0
	TOTOLEGE	reality	11:48	8.5	1.0	27.30	27.20	8.30	0.01	27.20	27.21	89.50	05.40	6.20	0.10	2.36	2.01	<1.0	
	19/6/2023	Cloudy	13:28	8.5	1.0	27.40	27.40	8.13	8.13	27.22	27.23	87.80	88.05	6.02	6.03	2.72	2.74	1.5	
		,	13:29	8.5	1.0	27.40		8.13		27.23		88.30		6.04	0.00	2.76		1.8	
	21/6/2023	Cloudy	13:31	8.7	1.0	27.50	27.55	8.18	8 18	27.05	27.05	83.00	82.55	6.27	6.23	3.89	3.81	3.4	3.3
	Z I/O/ZOZO	Oloudy	13:32	8.7	1.0	27.60	27.00	8.17	0.10	27.04	27.00	82.10	02.00	6.19	0.10	3.72	0.01	3.1	
	23/6/2023	Cloudy	14:11	8.7	1.0	28.20	28 25	8.51	8.52	26.87	26.92	83.10	83.95	6.18	6.20	3.07	3.05	2.5	
		,	14:12	8.7	1.0	28.30		8.53		26.97		84.80		6.21		3.02		2.2	
	26/6/2023	Cloudy	16:25	8.7	1.0		28.10	8.39	8.39	25.31	25.31	82.60	83.15	6.16	6.21	2.15	2.11	2.1	1.8
			16:26	8.7	1.0	28.10	20.10	-	0.00	-	20.01	83.70	30.10	6.25	0.11	2.07	2	1.5	
	28/6/2023	cancel	8:53	8.5	1.0	28.30	28.35	8.59	8 60	24.80	24.80	84.80	83.85	6.27	6.24	3.63	3.70	2.9	
		22.1001	8:54	8.5	1.0	28.40	20.00	8.60	0.00	24.79	24.00	82.90	30.00	6.20	014	3.76	0.70	2.0	
	30/6/2023	Cloudy	10:13	8.6	1.0	29.10	29.10	8.67	8.67	23.96	23.96	81.80	82.80	6.14	6.21	3.23	3.29	1.6	
			10:14	8.6	1.0	29.10	20.10	8.67	0.07	23.96	20.00	83.80	32.00	6.27	0.1.	3.35	0.20	1.5	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 CE (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	H	Sa	linity	DO Sa	turation	D	00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			p	pt		%	m		N'	TU	m	ng/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	16:56	8.3	1.0	28.20	28 25	8.35	8.34	30.35	30.36	88.30	87 65	6.04	6.01	1.42	1.52	<1.0	1.0
	DOZOZO	Oloudy	16:57	8.3	1.0	28.30	LO.LO	8.32	0.04	30.37	00.00	87.00	07.00	5.98	0.01	1.61	1.02	<1.0	
	5/6/2023	Cloudy	17:22	8.7	1.0	27.80	27.70	8.35	8.36	28.48	28.47	82.90	82 10	6.19	614	2.99	2 93	<1.0	1.0
		,	17:23	8.7	1.0	27.60		8.36		28.46		81.30		6.09		2.87		<1.0	
	7/6/2023	Fine	8:17	8.4	1.0	27.60	27.65	8.36	8.36	30.01	30.01	86.30	86.05	6.19	6.18	5.60	5.65	5.8	6.0
	170/2020	1 1110	8:18	8.4	1.0	27.70	27.00	8.35	0.00	30.00	00.01	85.80	00.00	6.17	0.10	5.70	0.00	6.1	
	9/6/2023	Cloudy	9:24	8.3	1.0	27.60	27.55	8.26	8 27	29.70	29.71	83.60	84.05	6.20	624	3.49	3.53	2.8	
		,	9:25	8.3	1.0	27.50		8.27		29.71		84.50		6.28		3.57		2.0	
	12/6/2023	Rainv	9:00	8.4	1.0	28.50	28 45	8.49	8.53	28.68	28.69	84.90	84.95	6.20	6.21	4.37	4 42	5.0	
			9:01	8.4	1.0	28.40		8.56		28.69		85.00		6.21		4.47		4.2	
	14/6/2023	Cloudy	15:06	8.1	1.0	28.00	28.05	8.45	8 44	28.71	28.71	89.40	89.35	6.19	6 18	1.63	1 70	2.6	
		,	15:07	8.1	1.0	28.10		8.42	4	28.70		89.30		6.17		1.76		2.4	
CE	16/6/2023	Cloudy	15:03	8.2	1.0	27.40	27.50	8.43	8.43	26.81	26.82	84.20	83.80	6.25	6.22	1.66	1.70	<1.0	1.0
		,	15:04	8.2	1.0	27.60		8.42		26.82		83.40		6.19		1.74		<1.0	
	19/6/2023	Cloudy	17:17	8.2	1.0	27.20	27.15	8.13	8.13	27.18	27.20	84.00	83.95	6.15	6.14	2.32	2.29	2.4	2.3
		,	17:18	8.2	1.0	27.10		8.13		27.22		83.90		6.12		2.26		2.1	
	21/6/2023	Cloudy	8:40	8.5	1.0	27.70	27.70	8.18	8.18	27.06	27.08	83.50	82.85	6.19	6.15	3.92	3.89	2.1	2.3
		,	8:41	8.5	1.0	27.70		8.17		27.09		82.20		6.11		3.85		2.4	
	23/6/2023	Cloudy	8:32	8.4	1.0	28.40	28.45	8.56	8.53	26.94	26.94	81.20	82.25	6.16	6.20	3.91	3.98	2.4	2.6
			8:33	8.4	1.0	28.50		8.49		26.93		83.30		6.23		4.05		2.7	_
	26/6/2023	Cloudy	11:20	8.4	1.0	27.80	27.75	8.42	8.41	25.61	25.62	82.90	82.10	6.19	6.14	2.33	2.39	1.0	1.0
		-	11:21	8.4	1.0	27.70		8.40		25.63		81.30		6.09		2.45		<1.0	
	28/6/2023	Fine	12:52	8.3	1.0	28.60	28.70	8.52	8.52	26.26	26.27	84.30	83.80	6.20	6.17	3.61	3.70	2.2	
			12:53	8.3	1.0	28.80		8.52		26.27		83.30		6.13		3.79		1.5	_
	30/6/2023	Cloudy	15:47	8.3	1.0	29.10	29.05	8.71	8.71	22.83	22.84	82.30	82.55	6.13	6.15	1.81	1.90	1.5	1.5
	F t. t.e.	,	15:48	8.3	1.0	29.00	OT DETE	8.70		22.84		82.80		6.17		1.99		1.4	

Law Facilities and Camples at Limited

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	٩	С			p	pt		%	m		N'	TU	m	ng/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	11:09	8.5	4.3	28.80	28.85	8.30	8.31	31.07	31.08	84.90	84.95	6.20	6.21	2.22	2.21	<1.0	1.0
	DOZOZO	Oloudy	11:10	8.5	4.3	28.90	20.00	8.31	0.01	31.09	01.00	85.00	04.00	6.21	0.11	2.20	2.21	<1.0	1.00
	5/6/2023	Cloudy	13:50	8.5	4.3	28.00	28.00	8.37	8.37	28.47	28 48	83.70	83.30	6.24	6.22	2.23	2 21	<1.0	1.0
		,	13:51	8.5	4.3	28.00		8.36		28.48		82.90		6.19		2.19		<1.0	
	7/6/2023	Cloudy	13:31	8.8	4.4	27.40	27 40	8.35	8.35	30.09	30 10	88.60	88 40	6.13	6.12	6.18	6.22	2.5	
		,	13:32	8.8	4.4	27.40	2	8.35	0.00	30.11		88.20		6.10		6.26	0.22	2.2	
	9/6/2023	Cloudy	15:34	8.6	4.3	27.80	27.70	8.27	8.27	29.82	29.83	83.40	82.50	6.20	6.14	3.45	3.35	4.0	
			15:35	8.6	4.3	27.60		8.27		29.83		81.60		6.08		3.25		5.0	
	12/6/2023	Rainv	12:21	8.2	4.1	28.70	28.65	8.49	8.49	28.89	28.89	82.90	82.10	6.19	6.14	4.19	4.11	4.7	4.6
			12:22	8.2	4.1	28.60		8.49		28.88		81.30		6.09		4.03		4.4	
	14/6/2023	Cloudy	10:44	8.4	4.2	28.00	27.95	8.44	8.44	29.14	29.13	81.40	81.30	6.18	6.18	2.37	2.22	3.6	
			10:45	8.4	4.2	27.90		8.43		29.11		81.20		6.17		2.07		3.2	
CE	16/6/2023	Rainy	11:51	8.5	4.3	27.40	27.30	8.31	8.32	27.19	27.19	90.10	89.55	6.22	6.20	1.90	1.36		1.0
			11:52	8.5	4.3	27.20		8.33		27.19		89.00		6.18		0.82		<1.0	
	19/6/2023	Cloudy	13:32	8.5	4.3	27.20	27.15	8.10	8.11		27.88	90.10	89.80	6.22	6.21	2.67	2.62	2.4	2.3
			13:33	8.5	4.3	27.10		8.11		27.88		89.50		6.19		2.56		2.1	
	21/6/2023	Cloudy	13:35	8.7	4.4	27.40	27.45	8.16	8.16	27.46	27.47	81.80	82.70	6.13	6.18	3.80	3.82	2.6	
			13:36	8.7	4.4	27.50		8.16		27.47		83.60		6.22		3.83		2.9	
	23/6/2023	Cloudy	14:15	8.7	4.4	28.30	28.30	8.52 8.63	8.58	26.94 26.95	26.95	85.00 82.80	83.90	6.24	6.20	3.92 4.01	3.97	2.7 3.1	
				8.7 8.7	4.4	28.30				26.95		82.80		6.22		1.81		1.7	
	26/6/2023	Cloudy	16:29				27.90	8.38	8.38	25.47	25.47	83.30	82.75	6.13	6.18	1.81	1.87	2.3	
			16:30	8.7	4.4	27.90													
	28/6/2023	cancel	8:57 8:58	8.5 8.5	4.3	28.10	28.05	8.51 8.51	8.51	26.25 26.26	26.26	84.50 84.80	84.65	6.23	6.25	2.40	2.36	1.2	
		1	10:17	8.6	4.3	28.40		8.51		25.96		84.80		6.06		2.31		2.3	
	30/6/2023	Cloudy	10:17	8.6	4.3	28.40	28.45	8.62	8.62	25.95	25.96	80.80	81.65	6.16	6.11	2.40	2.51	1.7	
		1	10:18	8.6	4.3	28.50	1	8.62	1	25.95	1	82.50		6.16	l .	2.40	I	1.7	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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Impact Water Quality Monitoring at Station CE (Middle) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	H	Sa	linity	DO Sa	turation		00	Tur	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			p	pt		%	m		N	TU	m	ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	17:00	8.3	4.2	27.90	27.85	8.32	8.32	31.24	31.25	88.60	88.40	6.13	6.12	1.87	1 77	<1.0	1.0
		,	17:01	8.3	4.2	27.80		8.32		31.25	0.1.20	88.20		6.10		1.66		<1.0	
	5/6/2023	Cloudy	17:24	8.7	4.4	28.10	28.05	8.35	8.35	28.46	28.46	82.70	83.50	6.14	6.22	2.40	2.58	<1.0	1.0
		,	17:25	8.7	4.4	28.00		8.34	0.00	28.45		84.30		6.29	0.22	2.76		<1.0	
	7/6/2023	Fine	8:21	8.4	4.2	27.70	27.60	8.34	8.35	30.11	30.12	84.60	83.75	6.21	6.20	5.73	5.70	7.7	7.9
			8:22	8.4	4.2	27.50		8.35		30.12	- ''	82.90		6.19		5.66		8.1	
	9/6/2023	Cloudy	9:28	8.3	4.2	27.60	27.60	8.25	8.26	29.79	29.80	84.00	83.10	6.25	6.19	3.79	3.73	4.3	
			9:29	8.3	4.2	27.60		8.26		29.80		82.20		6.12		3.67		4.4	
	12/6/2023	Rainy	9:04	8.4	4.2	28.60	28.55	8.46	8.47	29.03	29.03	84.80	84.75	6.08	6.07	4.30	4.23	3.0	
			9:05	8.4	4.2	28.50		8.48		29.02		84.70		6.06		4.15		3.4	_
	14/6/2023	Cloudy	15:10	8.1	4.1	28.00	28.00	8.44	8.45	28.69	28.69	90.10	89.80	6.22	6.24	2.29	2.23	2.8	
			15:11	8.1	4.1	28.00		8.45		28.69		89.50		6.25		2.17		3.0	-
CE	16/6/2023	Cloudy	15:07	8.2 8.2	4.1	27.60 27.60	27.60	8.43 8.46	8.44	27.29 27.28	27.29	83.40 83.90	83.65	6.20	6.22	1.95	1.85	<1.0	1.0
			15:08 17:21	8.2	4.1	27.60		8.46		27.54		86.30		6.19		2.72		<1.0	_
	19/6/2023	Cloudy	17:22	8.2	4.1	27.10	27.10	8.12	8.13	27.54	27.53	87.30	86.80	6.19	6.22	2.72	2.79	2.4	2.6
			8:44	8.5	4.1	27.10		8.16		27.54		84.10		6.24		3.73		2.4	
	21/6/2023	Cloudy	8:45	8.5	4.3	27.40	27.45	8.15	8.16	27.54	27.54	84.40	84.25	6.28	6.25	3.73	3.66	2.4	2.3
		1	8:36	8.4	4.3	28.40		8.50		26.95		82.70		6.23		4.53		2.4	
	23/6/2023	Cloudy	8:37	8.4	4.2	28.40	28.40	8.50	8.50	26.96	26.96	83.30	83.00	6.29	6.26	4.40	4.47	2.4	
			11:24	8.4	4.2	27.60		8.40		25.86		82.70		6.14		2.37		4.4	
	26/6/2023	Cloudy	11:25	8.4	4.2	27.60	27.60	8.40	8.40	25.87	25.87	84.30	83.50	6.29	6.22	2.20	2.29	1.4	1.4
			12:56	8.3	4.2	28.30		8.54		25.93		84.30		6.24		3.43		1.7	
	28/6/2023	Fine	12:57	8.3	4.2	28.40	28.35	8.54	8.54	25.94	25.94	83.40	83.85	6.16	6.20	3.31	3.37	2.1	1.9
	30/6/2023	Cloudy	15:51	8.3	4.2	28.40	28.40	8.62	8.62	25.57	25.58	81.80	82.75	6.14	6.21	2.45	2.37	1.2	1.3
	30/6/2023	Cidudy	15:52	8.3	4.2	28.40	28.40	8.62	8.62	25.59	25.58	83.70	62.75	6.27	6.21	2.28	2.37	1.3	

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sal	inity		turation		0		bidity	_	SS
Station Reference	Date	Weather	Time	Depth	Depth	٥					pt		%	mg			TU		ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	11:12	8.5	7.5	27.60	27.70	8.30	8.31	31.55	31.54	84.80	84.75	6.08	6.07	2.18	2.17	<1.0	1.
	202020	Oloudy	11:13	8.5	7.5	27.80	27.70	8.32	0.01	31.53	01.04	84.70	04.70	6.06	0.07	2.15	2.17	<1.0	
	5/6/2023	Cloudy	13:53	8.5	7.5	28.00	28.05	8.36	8.36	28.49	28 47	82.00	82.55	6.12	6.15	2.46	2.33	<1.0	1
		,	13:54	8.5	7.5	28.10		8.36	0.00	28.44		83.10	02.00	6.18	****	2.20		<1.0	
	7/6/2023	Cloudy	13:34	8.8	7.8	27.40	27.40	8.34	8.34	30.16	30.16	86.50	88.10	6.13	6.18	6.47	6.60	2.7	2
	170/2020	Oloudy	13:35	8.8	7.8	27.40	27.40	8.34	0.04	30.16	00.10	89.70	00.10	6.23	0.10	6.73	0.00	3.0	
	9/6/2023	Cloudy	15:37	8.6	7.6	27.70	27 70	8.28	8 28	29.84	29.84	83.10	83.65	6.18	6.22	3.73	3.80	5.7	
	5/0/2025	Oloudy	15:38	8.6	7.6	27.70	27.70	8.27	0.20	29.83	20.04	84.20	00.00	6.25	0.11	3.87	0.00	5.4	
	12/6/2023	Rainv	12:24	8.2	7.2	28.60	28 60	8.49	8 49	29.04	29.04	82.00	82 55	6.12	6.15	4.38	4 28	3.4	
	12/0/2023	Rainy	12:25	8.2	7.2	28.60	20.00	8.48	0.45	29.03	25.04	83.10	02.55	6.18	0.13	4.17	4.20	3.8	,
	14/6/2023	Cloudy	10:47	8.4	7.4	27.90	27.85	8.38	8.38	29.16	29 17	83.10	82 95	6.21	6.20	4.01	3.93	4.0	
	1-1/0/2020	Oloudy	10:48	8.4	7.4	27.80	27.00	8.37	0.00	29.17	20.17	82.80	02.00	6.18	0.10	3.84	0.00	4.2	
CE	16/6/2023	Rainv	11:54	8.5	7.5	27.30	27.25	8.32	8.33	27.40	27.41	89.20	89.25	6.17	6.18	1.65	1.61	1.6	
OL.	10/0/2020	reality	11:55	8.5	7.5	27.20	27.20	8.34	0.00	27.42	27.41	89.30	00.20	6.18	0.10	1.57	1.01	1.2	
	19/6/2023	Cloudy	13:35	8.5	7.5	27.10	27.05	8.11	8 11	-	28.03	89.30	89.35	6.17	6.18	2.83	2.78	3.3	
	10/0/2020	Oloudy	13:36	8.5	7.5	27.00	27.00	8.10	0.11	28.03	20.00	89.40	00.00	6.19	0.10	2.72	2.70	2.9	
	21/6/2023	Cloudy	13:38	8.7	7.7	27.40	27.35	8.17	8.17	27.52	27.53	84.50	84.25	6.23	6.22	2.85	2.91	2.4	
	Z I/O/ZOZO	Oloudy	13:39	8.7	7.7	27.30	27.00	8.16	0.17	27.53	27.00	84.00	04.20	6.20	0.11	2.97	2.01	2.5	
	23/6/2023	Cloudy	14:18	8.7	7.7	28.40	28.40	8.52	8.53	26.80	26.89	83.00	83.60	6.18	6.22	4.07	4.09	3.3	
	LUIGILOLO	Oloudy	14:19	8.7	7.7	28.40	20.40	8.53	0.00	26.97	20.00	84.20	00.00	6.25	0.11	4.10	4.00	3.7	
	26/6/2023	Cloudy	16:32	8.7	7.7		28.00		8.38		25.48	84.30	84 60	6.26	6.28	2.37	2 48	1.4	
	LUIGILOLO	Oloudy	16:33	8.7	7.7	28.00	20.00	8.38	0.00	25.48	20.40	84.90	04.00	6.29	010	2.58	2.40	2.2	
	28/6/2023	cancel	9:00	8.5	7.5	28.00	28.05	8.50	8.50	26.65	26.66	84.00	84 20	6.20	6.21	2.43	2.46	1.6	
	20,0,2023	our lots	9:01	8.5	7.5	28.10	20.00	8.49	0.50	26.66	20.00	84.40	34.20	6.21	0.21	2.49	2.40	1.3	
	30/6/2023	Cloudy	10:20	8.6	7.6	28.20	28.25	8.61	8.61	26.11	26.11	84.30	83.55	6.28	6.23	2.28	2.32	2.4	
	00/0/2020	Sibudy	10:21	8.6	7.6	28.30	20.20	8.60	0.01	26.10	20.11	82.80	55.55	6.17	0.23	2.35	2.52	1.4	1

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

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

		Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	aturation	D	0	Turt	oidity	5	SS
	Station Reference	Date	Weather	Time	Depth	Depth	۰	'C			р	ppt		%	mg		N'	ги	m	g/L
L		2310			m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
		2/6/2023	Cloudy	17:03	8.3	7.3	27.80	27.85	8.31	8.31	31.46	31.46	86.50	88.10	6.13	6.18	2.70	2.77	<1.0	1.0
			,	17:04	8.3	7.3	27.90		8.30		31.45		89.70		6.23		2.84		<1.0	
		5/6/2023	Cloudy	17:29	8.7	7.7	28.00	28.05	8.36	8.36	28.45	28 44	83.10	82 55	6.18	6 15	2.60	2 50	<1.0	1.0
		0/0/2020	Cioddy	17:30	8.7	7.7	28.10	20.00	8.35	0.00	28.43	20.44	82.00	02.00	6.12	0.10	2.39	2.00	<1.0	
		7/6/2023	Fine	8:24	8.4	7.4	27.50	27 45	8.34	8.34	30.17	30.18	82.30	82 15	6.07	6.05	5.00	5.07	9.5	9.4
		.,		8:25	8.4	7.4	27.40		8.34		30.18		82.00		6.02		5.14		9.2	
		9/6/2023	Cloudy	9:31	8.3	7.3	27.70	27 60	8.25	8 26	29.91	29.91	83.90	83.50	6.24	6.21	4.15	4.05	3.8	4.3
		0.0.2020	,	9:32	8.3	7.3	27.50		8.26	0.20	29.90		83.10		6.18		3.95		4.7	
		12/6/2023	Rainv	9:07	8.4	7.4	28.40	28 40	8.47	8 47	29.15	29.16	87.50	86.90	6.19	6.17	4.18	4.05	2.8	2.7
			,	9:08	8.4	7.4	28.40		8.46		29.17		86.30		6.14	****	3.92		2.6	
		14/6/2023	Cloudy	15:13	8.1	7.1	27.60	27 60	8.37	8.37	29.30	29.30	84.90	87 10	6.19	6 16	3.51	3.50	3.4	3.6
			,	15:14	8.1	7.1	27.60		8.37		29.30		89.30		6.12		3.48		3.8	
	CE	16/6/2023	Cloudy	15:10	8.2	7.2	27.50	27.45	8.32	8.32	29.50	29.51	82.70	82.25	6.16	6.14	2.37	2.39	<1.0	1.0
	-		,	15:11	8.2	7.2	27.40		8.32		29.51		81.80		6.11		2.40		<1.0	
		19/6/2023	Cloudy	17:24	8.2	7.2	27.10	27.05	8.12	8 12	28.01	28.01	84.90	84 95	6.10	6 1 1	2.81	2 77	2.9	2.8
			,	17:25	8.2	7.2	27.00		8.11		28.00		85.00		6.12		2.72		2.6	
		21/6/2023	Cloudy	8:47	8.5	7.5	27.30	27.30	8.13	8.14	27.62	27.63	82.80	82.90	6.20	6.22	3.98	3.94	2.3	2.4
			,	8:48	8.5	7.5	27.30		8.14		27.63		83.00		6.23		3.89		2.4	
		23/6/2023	Cloudy	8:39	8.4	7.4	28.50	28.45	8.51	8.51	26.93	26.96	83.20	81.65	6.11	6.09	4.98	4.90	1.7	1.8
			-	8:40	8.4	7.4	28.40		8.50		26.99		80.10		6.07		4.81		1.9	
		26/6/2023	Cloudy	11:27	8.4	7.4	27.70	27.65	8.39	8.40	25.85	25.86	82.00	82.55	6.12	6.15	2.78	2.87	1.6	1.7
				11:28	8.4	7.4	27.60		8.40		25.86		83.10		6.18		2.96		1.8	
		28/6/2023	Fine	12:59	8.3	7.3	28.30	28.30	8.52	8.52	26.35	26.35	83.60	83.20	6.18	6.16	3.45	3.40	1.4	1.5
				13:00	8.3	7.3	28.30		8.51		26.34		82.80		6.14		3.34		1.6	
		30/6/2023	Cloudy	15:54	8.3	7.3	28.00	28.05	8.62	8.62	25.93	25.93	83.80	82.70	6.26	6.19	2.22	2.34	1.1	1.1
			,	15:55	8.3	7.3	28.10		8.61		25.93		81.60		6.12		2.45		1.1	1

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

Sampling		Sampling	Water	Sampling			F	Н	Sal	inity	DO Sa	turation	D	00	Turk	bidity		SS
	Weather		Depth	Depth														ng/L
			m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
2/6/2023	Cloudy	9:49	8.6	1.0	28.40	28 45	8.19	8 20	30.18	30 19	89.00	89.40	6.21	624	6.82	6.70	<1.0	1
	,	9:50	8.6	1.0	28.50			0.20	30.19						6.57		<1.0	
5/6/2023	Cloudy					27.85		8 13		29 23		82 50		6 17		5.82	1.1	
	,											02.00						
7/6/2023	Cloudy					27.40		8.22		30.50		88.30		6.19		8.59		
	,																	
9/6/2023	Cloudy					27.85		8.25		29.45		82.60		6.19		3.02		
12/6/2023	Rainv					28.25		8.21		28.51		83.80		6.24		3.31		4
	. ,																	
14/6/2023	Cloudy					27.55		8.23		28.32		85.45		6.18		6.14		4
	-																	-
16/6/2023	Rainy					27.15		8.13		26.65		81.15		6.09		2.02		4
																		₩
19/6/2023	Cloudy					26.95		7.91		27.79		84.35		6.19		1.98		
21/6/2023	Cloudy					28.05		8.24		26.67		83.75		6.22		3.52		
23/6/2023	Cloudy					28.05		8.11		26.71		84.50		6.22		5.98		
											000							
26/6/2023	Cloudy					28.05		8.36		26.81		82.10		6.14		2.56		
																	1.0	
28/6/2023	cancel	_				28.35		8.41		25.51		83.90		6.25		3.18		
																	2.6	
30/6/2023	Cloudy					28.95		8.35		22.02		80.45		6.11		3.18		
	9/6/2023 12/6/2023 14/6/2023 16/6/2023 19/6/2023 21/6/2023 23/6/2023	Date Weather 26/2023 Cloudy 56/2023 Cloudy 76/2023 Cloudy 96/2023 Cloudy 12/6/2023 Cloudy 12/6/2023 Cloudy 14/6/2023 Cloudy 14/6/2023 Cloudy 21/6/2023 Cloudy 21/6/2023 Cloudy 21/6/2023 Cloudy 23/6/2023 Cloudy 28/6/2023 Cloudy 28/6/2023 Cloudy	Date Weather Time 2/6/2023 Cloudy 9.49 5/6/2023 Cloudy 12-19 5/6/2023 Cloudy 12-19 7/6/2023 Cloudy 14-46 9/6/2023 Cloudy 16-41 12/6/2023 Rainy 7-39 14/6/2023 Cloudy 9-16 16/6/2023 Rainy 9-16 16/6/2023 Cloudy 9-16 19/6/2023 Cloudy 10-19 19/6/2023 Cloudy 12-03 21/6/2023 Cloudy 14-50 23/6/2023 Cloudy 15-30 26/6/2023 Cloudy 17-44 28/6/2023 Cloudy 17-45 28/6/2023 Cancel 7-29 28/6/2023 cancel 7-29	Sampling Date Depth Dept	Sampling Date Sampling Date Depth Time Time m m m Sampling Date Measurement Sampling Depth Depth Time m m m Sampling Samplin	Sampling Date Depth Dept	Sampling Date Depth Depth To	Sampling Date Depth Depth Per Dept	Sampling Date Depth Dept	Sampling Date Depth Dept	Sampling Date Depth Depth Sampling Date Depth Time m Value AVG Val	Sampling Depth Depth Depth Time m Walse AVG AVG	Sampling Depth D	Sampling Date Depth Dept	Name	Sampling Date Depth Depth Pepth Pept	Sampling Date Dat	Sampling Date Depth Dept

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

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

	Sampling		Sampling	Water	Sampling	Temp	erature	р	Н	Sa	linity	DO Sa	turation	D	0	Turk	idity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth		'C		-		pt		%	mg		N			ng/L
	2310			m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	18:14	8.3	1.0	28.50	28.55	8.41	8.46	30.15	30.16	88.40	88.80	6.17	6 19	2.48	2.53	<1.0	1.0
		,	18:15	8.3	1.0	28.60		8.50	0.10	30.16		89.20		6.21		2.57		<1.0	
	5/6/2023	Cloudy	18:44	8.8	1.0	27.70	27.65	8.19	8.20	29.14	29.15	83.30	83.00	6.23	6.26	4.76	4.89	<1.0	1.0
		,	18:45	8.8	1.0	27.60		8.20		29.15		82.70		6.29		5.01		<1.0	
	7/6/2023	Fine	6:49	8.3	1.0	27.40	27.45	8.17	8.18	30.53	30.52	85.90	85.45	6.25	6.23	9.06	9.02	6.4	6.3
	.,		6:50	8.3	1.0	27.50		8.18		30.51		85.00		6.20		8.98		6.1	
	9/6/2023	Cloudy	8:00	8.3	1.0	27.70	27.65	7.98	7.99	29.62	29.63	80.60	80.65	6.08	6.08	3.80	3.76	2.8	3.1
		,	8:01	8.3	1.0	27.60		8.00		29.63		80.70		6.08		3.71		3.4	
	12/6/2023	Rainv	13:38	8.1	1.0	28.10	28.15	8.54	8.55	28.81	28.81	80.10	81.65	6.07	6.09	4.03	4.10	3.1	2.9
			13:39	8.1	1.0	28.20		8.55		28.80		83.20		6.11		4.17		2.6	
	14/6/2023	Cloudy	16:27	8.1	1.0	28.50	28.55	8.53	8.54	28.41	28.42	88.70	89.00	6.13	6.15	2.19	2.28	3.6	
		-	16:28	8.1	1.0	28.60		8.55		28.43		89.30		6.17		2.36		3.3	
CF	16/6/2023	Cloudy	16:27	8.4	1.0	27.50	27.50	8.43	8.43	26.91	26.91	84.00	83.95	6.15	6.14	1.51	1.59	<1.0	1.0
			16:28	8.4	1.0	27.50		8.42		26.90		83.90		6.12		1.67		<1.0	
	19/6/2023	Cloudy	18:37	8.1	1.0	27.50	27.55	8.14	8.15	26.82	26.81	83.70	84.15	6.10	6.13	2.78	2.81	4.4	4.6
			18:38	8.1	1.0	27.60		8.15		26.80		84.60		6.16		2.83		4.7	-
	21/6/2023	Cloudy	7:13	8.4	1.0	27.40	27.35	7.78	7.84	26.87	26.87	84.00	84.20	6.20	6.21	3.50	3.55	2.3	2.4
			7:14	8.4	1.0	27.30		7.89		26.86		84.40		6.21		3.59		2.4	
	23/6/2023	Cloudy	7:07	8.3	1.0	27.90	27.95	8.09	8.10	26.68	26.69	83.10	82.55	6.18	6.15	6.43	6.34	4.0	3.8
			7:08	8.3	1.0	28.00		8.10		26.70		82.00		6.12		6.25		3.6	
	26/6/2023	Cloudy	9:33	8.3	1.0	27.30	27.30	7.92	7.92	26.95	26.96	82.10	81.10	6.11	6.07	3.83	3.88	1.0	1.0
			9:34	8.3	1.0	27.30		7.91		26.96		80.10		6.02		3.92		<1.0	1
	28/6/2023	Fine	14:11	8.1	1.0	29.60	29.65	8.76 8.75	8.76	25.02	25.03	83.10	83.75	6.19	6.22	2.19	2.28	1.4	1.3
			14:12	8.1	1.0			8.75		25.04		84.40		6.24				1.2	
	30/6/2023	Cloudy	17:07	8.1	1.0	28.70	28.75	8.73	8.72	21.88	21.89	84.00 82.20	83.10	6.26	6.19	1.83	1.94	1.4	1.6
	Francisco tario				1.0									6.12		2.05		1.8	

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			p	pt		%	m		N'	TU	m	g/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	9:53	8.6	4.3	28.20	28.25	8.22	8.22	30.19	30.19	88.70	88.75	6.10	6.11	6.47	6.40	<1.0	1.0
	DOZOZO	Oloudy	9:54	8.6	4.3	28.30	20.20	8.22	0.22	30.19	00.10	88.80	00.70	6.12	0.11	6.33	0.40	<1.0	
	5/6/2023	Cloudy	12:23	8.5	4.3	27.80	27.85	8.17	8 17	29.17	29.18	81.90	82.70	6.14	6.20	5.96	5.92	<1.0	1.0
		,	12:24	8.5	4.3	27.90		8.16		29.18		83.50		6.26		5.87		<1.0	
	7/6/2023	Cloudy	14:50	8.7	4.4	27.50	27 45	8.22	8 22	30.54	30.55	88.70	88 50	6.13	6.13	9.99	10 12	11.0	11.3
		,	14:51	8.7	4.4	27.40		8.22	0.22	30.55		88.30		6.12		10.25		11.5	
	9/6/2023	Cloudy	16:45	8.7	4.4	27.30	27.30	8.19	8 19	30.40	30.41	83.70	82.75	6.27	6.21	3.25	3.13	5.8	5.4
		,	16:46	8.7	4.4	27.30		8.19		30.42		81.80		6.14		3.01		5.0	
	12/6/2023	Rainv	7:42	8.5	4.3	28.10	28.05	8.30	8 29	29.33	29.32	83.60	84.05	6.20	624	3.60	3.54	6.0	6.2
			7:43	8.5	4.3	28.00		8.28	0.20	29.31		84.50		6.28		3.47		6.4	
	14/6/2023	Cloudy	9:19	8.4	4.2	27.80	27.75	8.17	8.17	29.20	29.20	82.00	82.85	6.02	6.08	5.02	4.98	4.8	4.6
			9:20	8.4	4.2	27.70		8.16		29.19		83.70		6.14		4.94		4.4	
CF	16/6/2023	Rainy	10:22	8.7	4.4	27.10	27.15	8.24	8.23	27.04	27.03	81.20	80.15	6.18	6.12	1.75	1.85	<1.0	1.0
		-	10:23	8.7	4.4	27.20		8.22		27.02		79.10		6.06		1.95		<1.0	
	19/6/2023	Cloudy	12:07	8.5	4.3	28.80	28.70	7.96	7.95	27.90	27.90	83.40	84.15	6.12	6.15	2.94	2.89	3.4	3.2
		·	12:08	8.5	4.3	28.60		7.94		27.89		84.90		6.18		2.84		3.0	
	21/6/2023	Cloudy	14:54	8.8	4.4	27.90	27.90	8.24	8.24	26.69	26.70	84.20	83.80	6.25	6.22	4.17	4.11	3.1	3.2
			14:55	8.8	4.4	27.90		8.23		26.70		83.40		6.19		4.05		3.3	
	23/6/2023	Cloudy	15:34	8.7	4.4	27.80	27.75	8.08	8.08	27.20	27.20	84.90	84.95	6.20	6.23	6.14	6.12	4.3	
			15:35	8.7	4.4	27.70		8.08		27.19		85.00		6.25		6.09		3.9	
	26/6/2023	Cloudy	17:48	8.7	4.4	27.40	27.35	8.32	8.32	26.65	27.16	83.10	82.55	6.18	6.15	2.74	2.66	2.8	2.7
			17:49	8.7	4.4	27.30		8.32		27.66		82.00		6.12		2.57		2.6	
	28/6/2023	cancel	7:32	8.4	4.2	28.30	28.05	8.35	8.36	26.66	26.67	83.40	83.75	6.14	6.16	2.84	2.78	1.3	1.3
			7:33	8.4	4.2	27.80		8.36		26.68		84.10		6.18		2.72		1.2	
	30/6/2023	Cloudy	8:52	8.5	4.3	28.40	28.40	8.41	8.42	24.35	24.35	80.00	80.30	6.06	6.08	3.75	3.68	1.4	1.3
		l,	8:53	8.5	4.3	28.40		8.42		24.35		80.60		6.10		3.60		1.2	

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

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

		1		Water	Sampling	Temp	erature	r	Н	Sal	linity	DO Sa	turation	D	0	Tur	bidity		SS
Station Reference	Sampling Date	Weather	Sampling Time	Depth	Depth		С				pt		%	m	a/L		TU	m	a/L
	Date		Time	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	18:18	8.3	4.2	28.00	28.00	8.38	8.38	30.38	30.38	88.70	89.00	6.13	6.16	2.19	2.05	<1.0	1.0
	2/6/2023	Cidudy	18:19	8.3	4.2	28.00	20.00	8.37	0.30	30.38	30.30	89.30	69.00	6.18	0.10	1.91	2.05	<1.0	1.0
	5/6/2023	Cloudy	18:48	8.8	4.4	27.70	27.70	8.21	8.21	29.19	29.19	83.30	83.15	6.27	6.27	5.07	5.01	<1.0	1.0
	5/6/2023	Cidudy	18:49	8.8	4.4	27.70	21.10	8.21	0.21	29.18	29.19	83.00	03.15	6.26	0.27	4.95	5.01	<1.0	1.0
	7/6/2023	Fine	6:53	8.3	4.2	27.40	27.45	8.20	8 20	30.53	30.54	90.20	89.85	6.28	6.24	10.25	10.50	8.4	8.3
	770/2023	1 1110	6:54	8.3	4.2	27.50	27.40	8.19	0.20	30.55	30.34	89.50	05.00	6.20	0.24	10.75	10.50	8.1	0.5
	9/6/2023	Cloudy	8:04	8.3	4.2	27.60	27.60	8.04	8.04	30.11	30.12	84.90	83.50	6.14	612	3.42	3.39	4.1	5.5
	3/0/2023	Cloudy	8:05	8.3	4.2	27.60	27.00	8.04	0.04	30.13	30.12	82.10	03.30	6.09	0.12	3.35	3.35	6.9	0.0
	12/6/2023	Rainv	13:42	8.1	4.1	28.10	28.10	8.54	8.55	28.84	28.84	83.30	83.00	6.23	6.21	4.16	4.08	3.4	3.6
	12/0/2020	rtuiry	13:43	8.1	4.1	28.10	20.10	8.55	0.00	28.84	20.04	82.70	00.00	6.19	0.1.	3.99	4.00	3.8	0.0
	14/6/2023	Cloudy	16:31	8.1	4.1	28.40	28.45	8.42	8 44	28.44	28.45	91.30	90.35	6.27	6.23	2.27	2.14	3.3	3.2
	14/0/2020	Oloudy	16:32	8.1	4.1	28.50	20.40	8.45	0.44	28.45	20.40	89.40	50.55	6.19	0.10	2.00	2.14	3.0	
CF	16/6/2023	Cloudy	16:31	8.4	4.2	27.60	27.55	8.31	8.31	29.32	29.33	82.00	82.85	6.02	6.08	1.48	1 44	<1.0	1.0
0.	10/0/2020	Oloudy	16:32	8.4	4.2	27.50	27.00	8.31	0.01	29.34	20.00	83.70	02.00	6.14	0.00	1.39	1.44	<1.0	
	19/6/2023	Cloudy	18:41	8.1	4.1	27.40	27.35	8.14	8 14	26.83	26.84	84.80	84.70	6.21	6.20	2.95	2.89	3.6	3.4
	10/0/2020	Oloudy	18:42	8.1	4.1	27.30	27.00	8.14	0.14	26.84	20.04	84.60	04.70	6.19	0.10	2.83	2.00	3.2	
	21/6/2023	Cloudy	7:17	8.4	4.2	27.30	27.30	7.94	7 94	27.51	27.51	82.80	82.90	6.18	6.19	4.27	4.21	3.0	2.9
		,	7:18	8.4	4.2	27.30		7.93		27.51		83.00		6.20		4.15		2.7	
	23/6/2023	Cloudy	7:11	8.3	4.2	27.50	27.55	8.06	8.06	26.23	26.74	82.60	83.15	6.16	6.21	8.09	8.12	4.5	4.4
			7:12	8.3	4.2	27.60		8.06		27.24		83.70		6.25		8.15		4.2	
	26/6/2023	Cloudy	9:37	8.3	4.2	27.00	27.05	7.95	7.95	27.39	27.39	83.30	83.00	6.29	6.26	2.17	2.11	1.4	1.4
		,	9:38	8.3	4.2	27.10		7.95		27.39		82.70	,	6.23		2.05		1.4	
	28/6/2023	Fine	14:15	8.1	4.1	28.80	28.80	8.78	8.78	24.70	24.71	84.20	83.80	6.25	6.22	2.32	2.28	2.1	1.7
			14:16	8.1	4.1	28.80		8.77		24.71		83.40		6.19		2.24		1.2	
	30/6/2023	Cloudy	17:11	8.1	4.1	28.20	28.25	8.62	8.62	25.40	25.41	83.60	84.05	6.20	6.24	2.25	2.16	1.2	1.3
		-	17:12	8.1	4.1	28.30		8.62		25.41		84.50		6.28		2.07		1.3	

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation		00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			p	ppt	•	%		g/L	N'	TU	m	g/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	9:56	8.6	7.6	28.20	28.10	8.22	8.23	30.32	30.34	88.30	87.85	6.19	6 17	6.59	6.64	<1.0	1.0
	DOZOZO	Oloudy	9:57	8.6	7.6	28.00	20.10	8.23	0.20	30.35	00.04	87.40	07.00	6.14	0.17	6.69	0.04	<1.0	
	5/6/2023	Cloudy	12:26	8.5	7.5	28.00	28.05	8.18	8 18	29.21	29.21	82.60	83.15	6.16	6.21	5.03	5.09	<1.0	1.0
		,	12:27	8.5	7.5	28.10		8.17		29.20		83.70		6.25		5.15		<1.0	
	7/6/2023	Cloudy	14:53	8.7	7.7	27.40	27 40	8.24	8 24	30.56	30.57	89.40	89 75	6.19	6.21	10.44	10.37	3.5	3.4
		,	14:54	8.7	7.7	27.40		8.23		30.57		90.10		6.22		10.30		3.3	
	9/6/2023	Cloudy	16:48	8.7	7.7	27.30	27.25	8.18	8.18	30.45	30.46	82.80	83.55	6.17	6.23	4.12	4.04	6.3	6.8
		,	16:49	8.7	7.7	27.20		8.18		30.46		84.30		6.28		3.95		7.2	
	12/6/2023	Rainv	7:45	8.5	7.5	28.00	28.00	8.29	8.29	28.85	28.85	83.40	83.40	6.20	6.20	3.73	3.71	4.9	5.1
			7:46	8.5	7.5	28.00		8.29		28.85		83.40		6.19		3.69		5.3	
	14/6/2023	Cloudy	9:22	8.4	7.4	27.70	27.65	8.19	8.20	29.53	29.53	90.20	89.85	6.28	6.24	4.26	4.21	3.4	3.2
			9:23	8.4	7.4	27.60		8.20		29.53		89.50		6.20		4.15		3.0	
CF	16/6/2023	Rainy	10:25	8.7	7.7	27.20	27.20	8.18	8.17	28.90	28.91	84.60	83.75	6.21	6.18	2.04	1.99	1.2	1.2
			10:26	8.7	7.7	27.20		8.16		28.91		82.90		6.15		1.93		1.1	
	19/6/2023	Cloudy	12:10	8.5	7.5	26.80	26.80	7.96	7.96	27.91	27.92	88.40	88.80	6.21	6.24	2.17	2.12	2.6	2.5
			12:11	8.5	7.5	26.80		7.96		27.93		89.20		6.27		2.07		2.3	
	21/6/2023	Cloudy	14:57	8.8	7.8	27.50	27.55	8.20 8.19	8.20	27.31	27.32	84.20	83.65	6.22	6.20	4.02	3.95	2.3	2.3
			14:58	8.8	7.8	27.60				27.32		83.10		0		3.88		2.3	
	23/6/2023	Cloudy	15:37 15:38	8.7 8.7	7.7	27.40 27.40	27.40	8.11 8.09	8.10	27.26 27.25	27.26	82.00 83.70	82.85	6.02	6.08	6.37	6.27	4.6 4.3	4.5
			15:38	8.7	7.7	27.40		8.09		27.83		83.40		6.14		3.14		4.3 2.3	
	26/6/2023	Cloudy	17:51	8.7	7.7	27.70	27.35	8.29	8.30	27.83	27.82	83.40	83.20	6.19	6.22	3.14	3.19	2.3	2.6
			7:35	8.4	7.7	27.70		8.30		27.81		83.50		6.19		2.82		1.3	-
	28/6/2023	cancel	7:35	8.4	7.4	27.70	27.70	8.33	8.33	27.01	27.01	83.50	83.15	6.19	6.17	2.82	2.86	1.3	1.4
			8:55	8.5	7.4	28.00		8.40		24.70	 	83.60		6.20		3.00		1.4	-
	30/6/2023	Cloudy	8:56	8.5	7.5	27.90	27.95	8.39	8.40	26.69	25.70	84.50	84.05	6.28	6.24	3.00	3.16	1.2	1.3
		1	0.56	0.5	1.5	27.90	l .	8.39	1	26.69	1	64.50	1	6.28	1	3.31	l .	1.2	1

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

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	turation	D	0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt	•	%	m	g/L	N'	TU	m	ıg/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/6/2023	Cloudy	18:21	8.3	7.3	27.70	27 70	8.35	8.36	31.19	31 19	91.30	90.35	6.27	6.23	2.04	2 11	<1.0	1.0
	DOZOZO	Oloudy	18:22	8.3	7.3	27.70	27.70	8.36	0.00	31.19	01.10	89.40	50.55	6.19	0.10	2.18	2	<1.0	
	5/6/2023	Cloudy	18:51	8.8	7.8	27.90	27.85	8.19	8 19	29.22	29.22	80.40	80.80	6.19	6.22	4.85	4.81	<1.0	1.0
		,	18:52	8.8	7.8	27.80		8.19		29.21		81.20		6.24		4.76		<1.0	
	7/6/2023	Fine	6:56	8.3	7.3	27.60	27.55	8.19	8 20	30.56	30.57	84.70	84 75	6.05	6.06	10.11	9.57	9.4	9.6
	170/2020	1 1110	6:57	8.3	7.3	27.50	27.00	8.20	0.20	30.58	00.07	84.80	04.70	6.06	0.00	9.03	0.01	9.8	
	9/6/2023	Cloudy	8:07	8.3	7.3	27.50	27.50	8.05	8.06	30.32	30.33	80.20	81 15	6.05	6.08	5.79	5.86	8.2	
		,	8:08	8.3	7.3	27.50		8.06		30.34		82.10	•	6.11		5.92		7.0	
	12/6/2023	Rainv	13:45	8.1	7.1	28.10	28.05	8.53	8.53	29.11	29 11	83.30	82 25	6.23	6 15	4.25	4 15	4.3	
			13:46	8.1	7.1	28.00		8.53	0.00	29.10		81.20		6.06		4.05		4.8	
	14/6/2023	Cloudy	16:34	8.1	7.1	28.40	28 35	8.51	8.52	28.70	28 70	88.60	88.55	6.13	6.12	1.56	1 43	2.6	
		,	16:35	8.1	7.1	28.30		8.52	0.00	28.69		88.50		6.11		1.29		3.0	
CF	16/6/2023	Cloudy	16:34	8.4	7.4	27.50	27.40	8.24	8.24	29.84	29.85	86.20	85.40	6.28	6.24	1.75	1.63	1.4	1.5
		,	16:35	8.4	7.4	27.30		8.24		29.85		84.60		6.19		1.50		1.5	
	19/6/2023	Cloudy	18:44	8.1	7.1	27.40	27.35	8.14	8.14	26.82	26.83	81.20	81.30	6.17	6.18	2.63	2.54	2.2	2.4
			18:45	8.1	7.1	27.30		8.13		26.83		81.40		6.18		2.45		2.5	
	21/6/2023	Cloudy	7:20	8.4	7.4	27.20	27.25	7.96	7.96	27.68	27.69	83.50	83.55	6.25	6.25	4.53	4.62	3.1	3.2
			7:21	8.4	7.4	27.30		7.96		27.69		83.60		6.25		4.71		3.3	
	23/6/2023	Cloudy	7:14	8.3	7.3	27.30	27.30	8.06	8.06	27.40	27.40	82.60	82.30	6.16	6.13	6.93	6.97	5.1	5.0
		·	7:15	8.3	7.3	27.30		8.05		27.39		82.00		6.09		7.01		4.9	
	26/6/2023	Cloudy	9:40	8.3	7.3	26.70	26.65	7.92	7.92	28.84	28.84	82.10	82.40	6.19	6.21	2.49	2.47	1.6	1.7
			9:41	8.3	7.3	26.60		7.92		28.83		82.70		6.22		2.44		1.8	
	28/6/2023	Fine	14:18	8.1	7.1	28.70	28.60	8.74	8.74	25.32	25.33	83.00	81.55	6.19	6.14	2.45	2.37	1.2	
			14:19	8.1	7.1	28.50		8.74		25.34		80.10		6.08		2.29		1.6	
	30/6/2023	Cloudy	17:14	8.1	7.1	28.10	28.05	8.59	8.58	26.37	26.36	83.40	82.50	6.20	6.14	2.12	2.24	1.1	1.1
			17:15	8.1	7.1	28.00		8.57		26.35		81.60		6.08		2.35		1.1	

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	f C&D Wastes	Generated Mo	onthly
Month	Total Quantity Generated (a)	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											
Aug											
Sept											
Oct	_		_	_	_	_	_	_	_	_	_
Nov											
Dec											
Total	1.07	0.00	0.00	0.00	1.07	0.00	0.01	0.12	0.01	0.00	80.93

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 (July, August and September 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