CONTRACT NO: SD 6/2020

CONSTRUCTION OF SAN SHEK WAN SEWAGE TREATMENT WORKS ASSOCIATED SUBMARINE OUTFALL AND PUI O SEWERAGE WORKS

UNDER ENVIRONMENTAL PERMIT NO. EP-538/2017

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

JULY 2022 REVISION 2

CLIENTS:

Drainage Services Department

PREPARED BY:

Lam Environmental Services Limited

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

Telephone: (852) 2882-3939 Facsimile: (852) 2882-3331 E-mail: info@lamenviro.com Website: http://www.lamenviro.com

CERTIFIED BY:

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Derek Lo

Environmental Team Leader

DATE:

11 August 2022



local people global experience

Our ref:

7076811/L28941/AW/KL/TK/rw

12 August 2022

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)

Attention: 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 (July 2022)

With reference to the Monthly EM&A Report (July.2022) Revision 2 dated and certified by the ET Leader on 12 August 2022, 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

Binnies

Mr. Clarence CHAK

by email

Lam

Mr. Derek LO / Mr Raymond DAI

by email

KLCW-JV

Mr. Charles TSE

by email

SMEC ASIA LIMITED

27/F Ford Glory Plaza, 37-39 Wing Hong Street Cheung Sha Wan, Kowloon, Hong Kong

T +852 3995 8100

F +852 3995 8101

E hongkong@smec.com

W www.smec.com







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EXECUTIVE SUMMARY

- i. This is the Monthly Environmental Monitoring and Audit (EM&A) Report July 2022 for the Outlying Islands Sewerage Stage 2 South Lantau Sewerage Works under Environmental Permit No. EP-538/2017 (Hereafter as "the Project"). The construction works of the Project was commenced on 3 November 2021 and the tentative completion date is Q1 2026. This Monthly EM&A Report presents the environmental monitoring findings and information recorded during the period of 1 to 31 July 2022. 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
 - Excavation and site formation at SSWSTW and POSPS
 - Excavation at South Lantau Road
 - SSWSTW and HDD works
 - Site formation works at POSPS
 - ELS works at POSPS

Exceedances of Action/Limit Levels

Noise Monitoring

- iii. Noise monitoring was conducted at seven (7) noise monitoring stations (*N12a*, *N12b*, *N13*, *N14*, *N16a*, *N16b* and *N17*) once per week in the reporting period.
- iv. Examination was taken place at N17 Bui O Public School from 14 to 19 July 2022, the limit level shall be adjusted to 65dB(A) during this period.
- v. No Action/Limit Level exceedances were recorded in this reporting period.

Water Quality Monitoring

- vi. 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.
- vii. Water quality monitoring on 2 and 4 July 2022 was cancelled due to adverse weather.
- viii. In accordance with the EM&A Manual, 0 action level and 0 limit level exceedances on DO, 16 action level and 26 limit level exceedances on turbidity, 11 action level and 25 limit level exceedances on SS were recorded in the reporting month.
- ix. Overall exceedances on turbidity and SS (i.e. SR4, SR15 downstream to the construction site during mid-ebb, SR5, SR6, SR9, SR10 and SR12 exceedances downstream to the construction site during mid-flood,) in the reporting month were referred to the 20% / 30% of control station criteria only whereas there were no exceedance as referred to 95%-ile / 99%-ile criteria, indicating that the exceedance is due to the localized water quality better than





baseline range were captured at the control station whereas the impact station are still within the baseline ranges.

- x. Co-related the monitoring dates with those days with recorded marine works activities, no marine dredging works were active during the reporting month. Majority of recorded marine works activities were maintenance on working barge not in contact with water, except casing installation for marine HDD works from 20 July 2022 within the replaced fully enclosed silt curtain. Reviewed the overall work situation with limited marine works, it can be concluded that all the turbidity and SS exceedances were possibly due to natural runoff from streams to the sea as a result of frequent rainfall as recorded in the reporting month (Heavy showers, rainstorm and squally thunderstorms during 5-7 July 2022 and 16, 29 July 2022, Amber rainstorm warning signal recorded on 1 and 30 July 2022; tropical cyclone warning signals and strong monsoon signal recorded on 1-3 July 2022).
- xi. Reviewing the "and" approach, no exceedance in turbidity and SS would be recorded on adopting the 'and' criteria in the Action and Limit Level as proposed in submitted Baseline Monitoring Report.

Ecological Impact Monitoring

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

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.

4

Reporting Changes

xvi. There are no particular reporting changes.

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
 - Construction of trunk sewers and rising mains
 - SSWSTW and HDD works
 - Site formation works for POSPS
 - Drilling works
 - Excavation works
 - ELS works
 - Piling Works
 - Superstructure RC Words

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

| Key Construction Works | Recommended Mitigation Measures | | |
|---|--|--|--|
| Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen Construction of trunk sewers and rising mains SSWSTW and HDD works Site formation works for POSPS Drilling works Excavation works ELS works Piling Works Superstructure RC Words | Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan; Dust control during dust generating works; Adopt surface drainage and sediment control facilities for sewage installation in village and public roads; Adopt temporary drainage and sediment control facilities on Site; Vehicle wheel-washing and body washing facilities should be provided at the site entrance; Regular water spraying on drilling and excavation works for dust control; and Proper waste handling, recycling and storage. | | |

1 Introduction

1.1 Scope of the Report

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

1.2 Structure of the Report

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

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Record of all complaints received (written or verbal) for each media, including locations and nature of complaints investigation, liaison and consultation undertaken, actions and follow-up procedures taken, results and summary; Record of notifications of summons and successful prosecutions for breaches of the current environmental protection/pollution control legislations, including locations and nature of the breaches, investigation, follow-up actions taken,

results and summary;

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

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

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

Section 7 Conclusion

2 Basic project Information and Environmental Status

2.1 Basic Project Information

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

Table 2.1 Contact Details of Key Personnel

| Party | Role | Post | Name | Contact No. | Contact Fax |
|------------------------------------|---|---|----------------------|-------------|----------------|
| Drainage Services Department (DSD) | The Engineer for the Contract | Engineer | Mr. Silas Chan | 2594 7272 | 3104 6426 |
| Binnies Hong Kong Limited | Engineer's Representative | Resident Engineer | Mr. Clarence Chak | 6428 5532 | - |
| Kwan Lee – Chun | Contractor | Site Agent | Mr. Charles Tse | 9270 3384 | 2744 6937 |
| Wo Joint Venture | | Environmental Officer | Ms. Shirley Kong | 5162 5933 | 27 7 7 8 8 8 7 |
| 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 sewage treatment works at San Shek Wan (SSWSTW) and associated submarine outfall; (ii) construction of sewage pumping station at Pui O (POSPS); (iii) village sewage works at Pui O; and (iv) trunk sewers and rising mains on carriageways.



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
 - Excavation and site formation at SSWSTW and POSPS
 - · Excavation at South Lantau Road
 - SSWSTW and HDD works
 - Site formation works at POSPS
 - ELS works at POSPS

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

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

3.2 Environmental Mitigation Measures

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

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

| EP Condition | Submission | Date of Latest Submission to EPD^ / EPD Approval# |
|----------------|---|---|
| Condition 2.10 | Waste Management Plan (Rev. 5) (electronic copy) | 4 April 2022# |
| Condition 2.11 | Submission of Preservation and/or Transplantation Plan for Plant Species of Conservation Importance (Rev. 19) | 29 July 2022^ |
| Condition 2.12 | Submission of Compensatory Woodland Planting Plan (Rev. 5) | 2 July 2021^ |
| 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. 19) | 21 July 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 |
| Discharge License | POPS: WT00039820- 2021 | 31 Dec 2021 | 31-12-2021 to 31-12-2026 | Valid |
| Discharge Licence | SSWSTW: WT00039636-2021 | 30 Dec 2021 | 30-12-2021 to 31-12-2026 | |
| 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 | GW-RS0428-22 | 26 May 2022 | 29-05-2022 to 28-11-2022 | Valid |

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



3.4 Site Inspection and Audit Reports

- 3.4.1. Within this reporting month, weekly environmental site inspections were conducted on 05, 12, 18 and 26 July 2022. IEC attended the SSEMC meeting held on 18 July 2022. Holding nursery visit for transplanted trees on 18 July 2022.
- 3.4.2. No non-compliance was found during the site inspection while reminders on environmental measures were recommended. Results and findings of these inspections in this reporting month are listed below in *Table 3.3*.

Table 3.3 Summary of Environmental Inspections

| Inspection Date | Reminder and Recommendations | Close-out Date / Status |
|--------------------|---|----------------------------|
| 5 July 2022 | Pui O Sewage Pumping Station Noise mitigation measures shall be implemented for sheet piling works in order avoid noise nuisance to the nearest noise sensitive receivers. The enclosure for the engine of construction plant for sheet piling works shall be closed at all times during operation. Village sewers works at Lo Uk Tsuen Preventive measures for water quality impacts between works area and the near-by stream shall be implemented. Tree protection zones shall be established in order to prevent the trees from being damaged during construction. San Shek Wan Sewage Treatment Works Oil leaking from generator and the contaminated material shall be rectified and treated as chemical waste | 12 July 2022 |
| 12 July 2022 | properly, respectively. San Shek Wan Sewage Treatment Works Oil leaking from generator and the contaminated material shall be rectified and treated as chemical waste properly, respectively. Village sewers works at Lo Uk Tsuen Contractor is requested to establish tree protection zones in order to prevent the trees from being damaged during construction activities. | 15 July 2022 |
| 18 July 2022 | Village sewers works at Lo Uk Tsuen Debris in the drainage should be cleared regularly Construction waste should be removed regularly Broken sandbags shall be replaced and the sandbag should be placed properly Transplant trees in holding nursery The Contractor was reminded to remove other herbaceous plant species from the plant species of conservation importance, <i>Aquilaria sinensis</i> (T392). It was recommended that frequency of watering to plant species being maintained in the holding nursery should be increased to at least two times a day under hot weather condition. | 26 July 2022 |
| 26 July 2022 | Daily housekeeping should be improved | Target on next inspection |

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 | 0006346 |
| Acoustic Calibrator | Honglim HLES-02 | 2016611465 |

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 Seven (7) noise monitoring stations N12a, N12b, N13, N14, 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 Examination was taken place at N17 Bui O Public School from 14 to 19 July 2022, the limit level shall be adjusted to 65dB(A) during this period.
- 4.1.11 No action or limit level exceedance was recorded in construction noise level in this reporting period.

4.2 Water Quality Monitoring

MONITORING METHODOLOGY

4.2.1 Monitoring Procedure

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

NAME OF LABORATORY AND EQUIPMENT USED AND CALIBRATION DETAILS

LABORATORY MEASUREMENT / ANALYSIS

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

EQUIPMENT USED

Dissolved Oxygen, pH And Temperature Measuring Equipment

- 4.2.3 Multifunctional Meter and Turbid Meter are used at each designated monitoring station. They are capable of measuring:
 - (a) a dissolved oxygen level in the range of 0-20mg/L and 0-200% saturation (Detection



Limit: 0.1mg/L)

- (b) a temperature of 0-45 degree Celsius (Detection Limit: 0.1 degree Celsius)
- (c) turbidity level between 0-1000NTU (Detection Limit: 0.1NTU)
- (d) salinity in the range of 0-40ppt (Detection Limit: 0.1ppt)
- (e) pH value in range of 0.0 14.0 (Detection Limit: 0.1units)

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

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

Sampler Container and Storage

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

Water Depth Detector

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

CALIBRATION DETAILS

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

Table 4.3 Water Quality Monitoring Equipment

| Equipment | Brand and model | Series Number | |
|-----------------------|-----------------------------|---------------------|--|
| Multifunctional Meter | Sonde YSI Professional Plus | 19H100656/14E101065 | |
| Turbid meter | Xin Rui WGZ-3B | 1807069 | |

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 Water quality monitoring on 2 and 4 July 2022 was cancelled due to adverse weather. No substitution would be arranged for such cancellation since it is impossible to maintain the monitoring frequency as three times a week for the event of marine water quality monitoring cancellation in between time with respect to the fact that not less than 36 hours interval shall be followed for two monitoring days as required by the EM&A Manual Clause 5.1.6 (b) for the project.
- 4.2.12 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. Note that derived Action and Limit Level was proposed in Baseline Monitoring Report for approval. Action and Limit Levels of marine water quality monitoring have been set with reference to the EM&A Manual criteria and derived criteria as shown in *Table 4.5* below.

Table 4.5 Action and Limit Levels of Water Quality

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

Contract No. SD 6/2020 – Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works Monthly EM&A Report (July 2022)

| Parameters | Action Level | Limit Level |
|----------------------|---------------------------------------|--|
| | 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 (EM&A manual)

| | Parameter | DO (| S&M) | DO | (Bottom) | Turk | oidity | S | S | | edance ount |
|---------|----------------|---------|-----------|------------|-----------|--|--|--|--|------------|----------------|
| Station | Level exceeded | Mid Ebb | Mid Flood | Mid Ebb | Mid Flood | Mid Ebb | Mid Flood | Mid Ebb | Mid Flood | Mid Ebb | Mid Flood |
| SR4 | Action | / | / | 1 | / | 2022/07/09 | / | 2022/07/22 2022/07/29 | / | 3 | 0 |
| | Limit | / | / | / | / | 2022/07/18 2022/07/22 2022/07/25 | 2022/07/18 | 2022/07/18 2022/07/25 | / | 5 | 1 |
| SR5 | Action | / | / | / | / | 2022/07/15 | 2022/07/13 2022/07/18 2022/07/25 | 2022/07/20 | / | 2 | 3 |
| | Limit | / | / | / | / | 2022/07/09 2022/07/18 2022/07/22 2022/07/25 | / | 2022/07/18 2022/07/25 | / | 6 | 0 |
| SR6 | Action | / | / | / | / | / | 2022/07/09 | 2022/07/09 | / | 1 | 1 |
| | Limit | / | / | / | / | 2022/07/09 2022/07/18 2022/07/22 2022/07/25 | 2022/07/18 | 2022/07/18 2022/07/22 2022/07/25 | 2022/07/18 2022/07/22 2022/07/25 | 7 | 4 |
| SR9 | Action | / | / | / | / | / | 2022/07/13 2022/07/15 2022/07/20 | / | / | 0 | 3 |
| | Limit | / | / | / | / | 2022/07/09 2022/07/22 2022/07/25 | / | 2022/07/18 2022/07/22 2022/07/25 | / | 6 | 0 |
| SR10 | Action | 1 | / | / | / | / | 2022/07/20 | 2022/07/29 | / | 1 | 1 |
| | Limit | / | / | / | / | 2022/07/22 2022/07/25 | 2022/07/13 | 2022/07/22 2022/07/25 | 2022/07/22 2022/07/25 | 4 | 3 |
| SR12 | Action | / | / | / | / | / | 2022/07/13 2022/07/18 2022/07/22 | 2022/07/06 2022/07/18 | / | 2 | 3 |
| | Limit | / | / | / | / | 2022/07/09 2022/07/22 2022/07/25 | / | 2022/07/11 2022/07/22 2022/07/25 | 2022/07/22 2022/07/25 | 6 | 2 |
| SR15 | Action | / | / | / | / | 2022/07/09 2022/07/27 | 2022/07/18 | 2022/07/09 2022/07/22 | 2022/07/20 2022/07/29 | 4 | 3 |
| | Limit | / | / | / | / | 2022/07/18 2022/07/22 2022/07/25 | 2022/07/20 | 2022/07/18 2022/07/25 | 2022/07/22 | 5 | 2 |
| Total | Action | 0 | 0 | 0 | 0 | 4 | 12 | 9 | 2 | | 27 |
| | Limit | 0 | 0 | 0 | 0 | 22 | 4 | 17 | 8 | | 51 |

- 4.2.20 In accordance with the EM&A Manual, 0 action level and 0 limit level exceedances on DO, 16 action level and 26 limit level exceedances on turbidity, 11 action level and 25 limit level exceedances on SS were recorded in the reporting month.
- 4.2.21 SR4 and SR15 located at upstream of construction site during mid-flood such that the Action and Limit Level exceedances on turbidity and SS along these stations in general were contributed by upstream sources before entering the submarine outfall construction location.





Similarly, SR5, SR6, SR9, SR10 and SR12 located at upstream of construction site during midebb, such that the Action and Limit Level exceedances on turbidity and SS along these stations in general were contributed by upstream sources before entering the submarine outfall construction location.

- 4.2.22 Checked with contractor and RSS on the marine works activities in the reporting month, the following activities were recorded:
 - 6 20/7/2022 No activity
 - 22 29/7/2022 Appliance maintenance on working barge and casing installation for marine HDD works
- 4.2.23 Overall exceedances on turbidity and SS (i.e. SR4, SR15 downstream to the construction site during mid-ebb, SR5, SR6, SR9, SR10 and SR12 exceedances downstream to the construction site during mid-flood,) in the reporting month were referred to the 20% / 30% of control station criteria only whereas there were no exceedance as referred to 95%-ile / 99%-ile criteria, indicating that the exceedance is due to the localized water quality better than baseline range were captured at the control station whereas the impact station are still within the baseline ranges.
- 4.2.24 Co-related the monitoring dates with those days with recorded marine works activities, no marine dredging works were active during the reporting month. Majority of recorded marine works activities were maintenance on working barge not in contact with water, except casing installation for marine HDD works from 20 July 2022 within the replaced fully enclosed silt Reviewed the overall work situation with limited marine works, it can be concluded curtain. that all the turbidity and SS exceedances were possibly due to natural runoff from streams to the sea as a result of frequent rainfall as recorded in the reporting month (Heavy showers, rainstorm and squally thunderstorms during 5-7 July 2022 and 16, 29 July 2022, Amber rainstorm warning signal recorded on 1 and 30 July 2022; tropical cyclone warning signals recorded on 1-3 July 2022 and strong monsoon signal recorded on 3-5 July 2022).
- 4.2.25 Reviewing the "and" approach, no exceedance in turbidity and SS would be recorded on adopting the 'and' criteria in the Action and Limit Level as proposed in submitted Baseline Monitoring Report as presented in *Table 4.7*. Majority of the exceedance were considered to be false alarm with review of the "and" approach for counteracting the over-sensitivity of control station criteria as proposed in the baseline report.

Table 4.7 Review of Exceedances in Turbidity and SS (proposed "and" approach)

| | Parameter | Turk | oidity | SS | | Exceedance count | |
|---------|----------------|---------|-----------|---------|-----------|------------------|-----------|
| Station | Level exceeded | Mid Ebb | Mid Flood | Mid Ebb | Mid Flood | Mid Ebb | Mid Flood |
| SR4 | Action | - | - | - | - | 0 | 0 |
| | Limit | - | - | - | - | 0 | 0 |
| SR5 | Action | - | - | - | - | 0 | 0 |
| | Limit | ı | - | 1 | - | 0 | 0 |
| SR6 | Action | ı | - | ı | - | 0 | 0 |
| | Limit | ı | - | ı | - | 0 | 0 |
| SR9 | Action | - | - | - | - | 0 | 0 |
| | Limit | - | - | - | - | 0 | 0 |



| | Parameter | Turk | oidity | SS | | Exceedance count | |
|---------|----------------|---------|-----------|---------|-----------|------------------|-----------|
| Station | Level exceeded | Mid Ebb | Mid Flood | Mid Ebb | Mid Flood | Mid Ebb | Mid Flood |
| 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 |
| | Limit | 0 | 0 | 0 | 0 | | 0 |

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 (18 July 2022).

MONITORING RESULTS

4.3.8 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 4.8*. The Monthly Summary Waste Flow Table is shown in *Appendix 4.5*.

Table 4.8 Summary of Quantities of Waste Material

| Waste Type | Quantity this month | Quantity (the end of last month) | Cumulative Quantity-to-Date |
|--|---------------------|-------------------------------------|--------------------------------|
| Hard Rock and Large Broken Concrete (Inert) (in '000m ³) | 0 | 0 | 0 |
| Reused in this Contract (Inert) (in '000m³) | 0 | 0 | 0 |
| Reused in other Projects (Inert) (in '000m³) | 0 | 0 | 0 |
| Disposal as Public Fill (Inert) (in '000m³) | 0.01537 | 0.01235 | 6.61143 |
| Metals (in '000kg) | 0 | 0.00330 | 1.56500 |
| Paper / Cardboard Packing (in '000kg) | 0 | 0.06700 | 0.13748 |
| Plastics (in '000kg) | 0 | 0.00360 | 0.01406 |
| Chemical Wastes (in '000kg) | 0 | 0 | 0 |
| General Refuses (in '000kg) | 17.34 | 33.94 | 344.77 |

^{*:} Further breakdown into sub-group if considered applicable;

^{#: 5,000}kg of timber recycled.

5 Complaints, Notification of Summons and Prosecution

- 5.1.1 One environmental complaint was recorded on 22 May 2022, the environmental complaint regarding to construction works was unlikely to be valid after investigation. EPD replied no further comments on the final investigation report on 13 July 2022.
- 5.1.2 No notification of summons and successful prosecution regarding construction works were recorded in the reporting period.

Table 5.1 Summary of Complaints in the Reporting Month

| Date of Notification from EPD | Date of Complaint | Description of Complaint | Validity of Complaint | Close-Out Date / Status |
|-------------------------------------|-------------------|---|--|---|
| 26 May 2022 | 22 May 2022 | A complaint is regarding to a resident listened the construction noise within restricted hours (around 3 p.m. on 22/5/2022) at marine site from San Shek Wan, Lantau Island received. | The site diary of 22 May 2022 from ER was reviewed and the only site activity was diver inspection for checking the silt curtain underwater condition. Valid CNP was in place (CNP GW-RS0921-21) and there was no breaches of the CNP. No construction activities and no powered mechanical equipment were in operation on sea side. Having contacted the EPD officer to find out the details on the complaint on 22 May 2022, the complainant only mentioned noise source from the sea but did not mention the type of the noise. | The interim report to be submitted to EPD in Early June 2022. EPD replied no further comments on the final investigation report on 13 July 2022. |



| | Based on the above | |
|--|------------------------|--|
| | information, noise | |
| | nuisance from the | |
| | Project is unlikely to | |
| | be valid. | |
| | | |

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

Table 5.2 Cumulative Statistics on Complaints

| Reporting Period | No. of Complaints |
|---|-------------------|
| July 2022 | 0 |
| Project commencement to the end of last reporting month | 1 |
| Total | 1 |

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

- 6.1.2 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
 - Construction of trunk sewers and rising mains
 - SSWSTW and HDD works
 - Site formation works for POSPS
 - Drilling works
 - Excavation works
 - ELS works
 - Piling Works
 - Superstructure RC Works
- 6.1.3 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 August 2022 to October 2022 in *Appendix 6.1*.

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

| Key Construction Works | Recommended Mitigation Measures |
|---|--|
| Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen Construction of trunk sewers and rising mains SSWSTW and HDD works Site formation works for POSPS Drilling works Excavation works ELS works Piling Works Superstructure RC Words | Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan; Dust control during dust generating works; Adopt surface drainage and sediment control facilities for sewage installation in village and public roads; Adopt temporary drainage and sediment control facilities on Site; Vehicle wheel-washing and body washing facilities should be provided at the site entrance; Regular water spraying on drilling and excavation works for dust control; and Proper waste handling, recycling and storage. |
| | |

7 Conclusion

7.1 Noise Monitoring

- 7.1.1 Examination was taken place at N17 Bui O Public School from 14 to 19 July 2022, the limit level shall be adjusted to 65dB(A) during this period.
- 7.1.2 No action or limit level exceedance was recorded in construction noise level in this reporting period.

7.2 Water Quality Monitoring

- 7.2.1 Marine-based construction works commenced on 19 April 2022, HDD casing works commenced on 30 May 2022.
- 7.2.2 Water quality monitoring on 2 and 4 July 2022 was cancelled due to adverse weather.
- 7.2.3 In accordance with the EM&A Manual, 0 action level and 0 limit level exceedances on DO, 16 action level and 26 limit level exceedances on turbidity, 11 action level and 25 limit level exceedances on SS were recorded in the reporting month. No exceedance in turbidity and SS would be recorded on adopting the "and" criteria in the Action and Limit Level as proposed in the Baseline Monitoring Report.

7.3 Ecological Impact Monitoring

- 7.3.1 Maintenance works for transplanted *Aquilaris sinensis* have commenced, preservation and protection of retain tree *Aquilaris sinensis* at SSWSTW.
- 7.3.2 Within this reporting period, holding nursery visit for transplanted trees on 18 July 2022.
- 7.3.3 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 |
|--------------------|---|----------------------------|
| 18 July 2022 | The Contractor was reminded to remove other herbaceous plant species from the plant species of conservation importance, <i>Aquilaria sinensis</i> (T392) It was recommended that frequency of watering to plant species being maintained in the holding nursery should be increased to at least two times a day under hot weather condition. | Status 26 July 2022 |



- 7.4 Review of the Reasons for and the Implications of Non-compliance
- 7.4.1 No environmental non-compliance was recorded in the reporting month.
- 7.5 Summary of action taken in the event of and follow-up on non-compliance
- 7.5.1 There was no particular action taken since no non-compliance was recorded in the reporting period.

Figure 2.1

Master Layout Plan

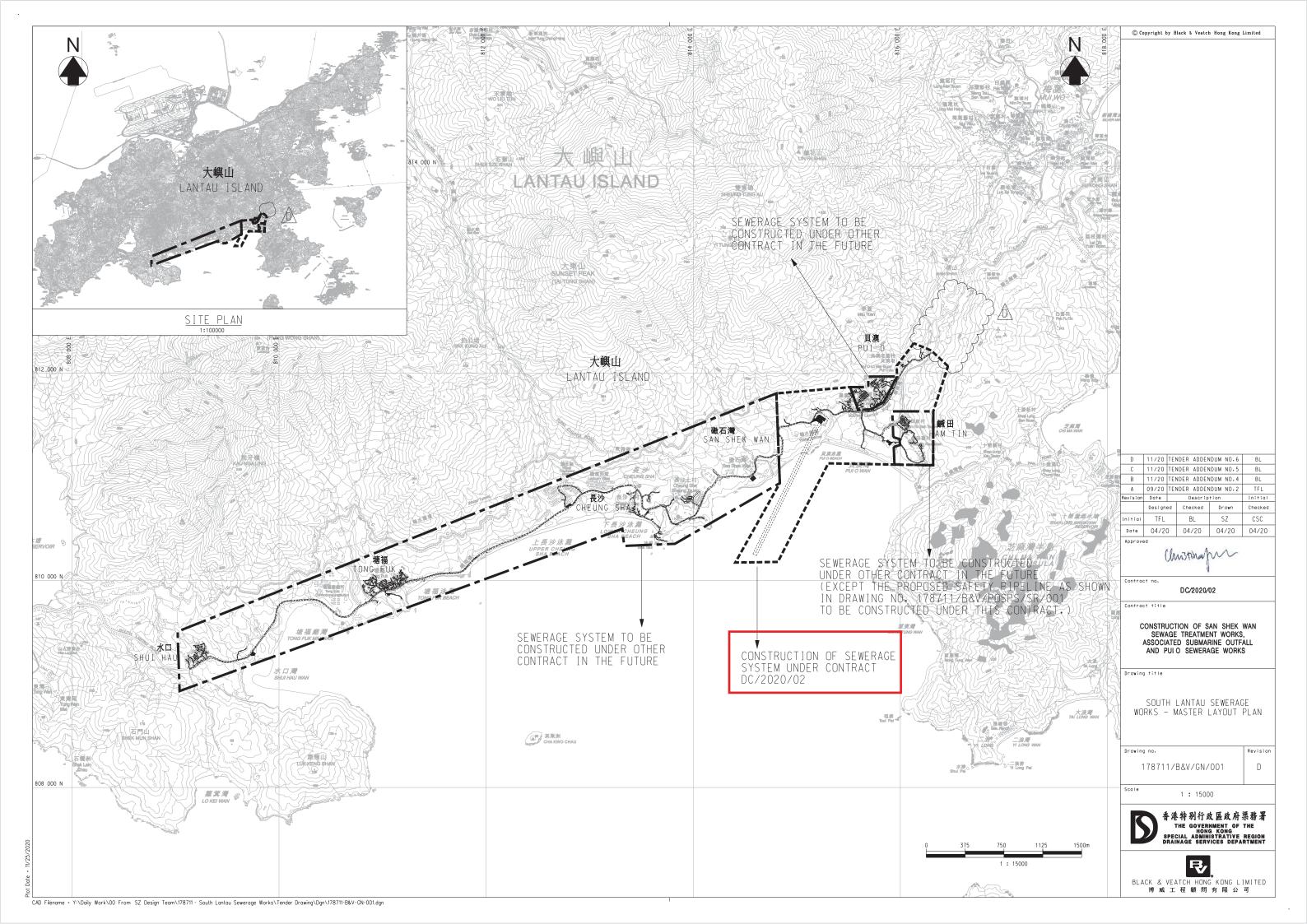


Figure 2.2

Contract Layout Plan

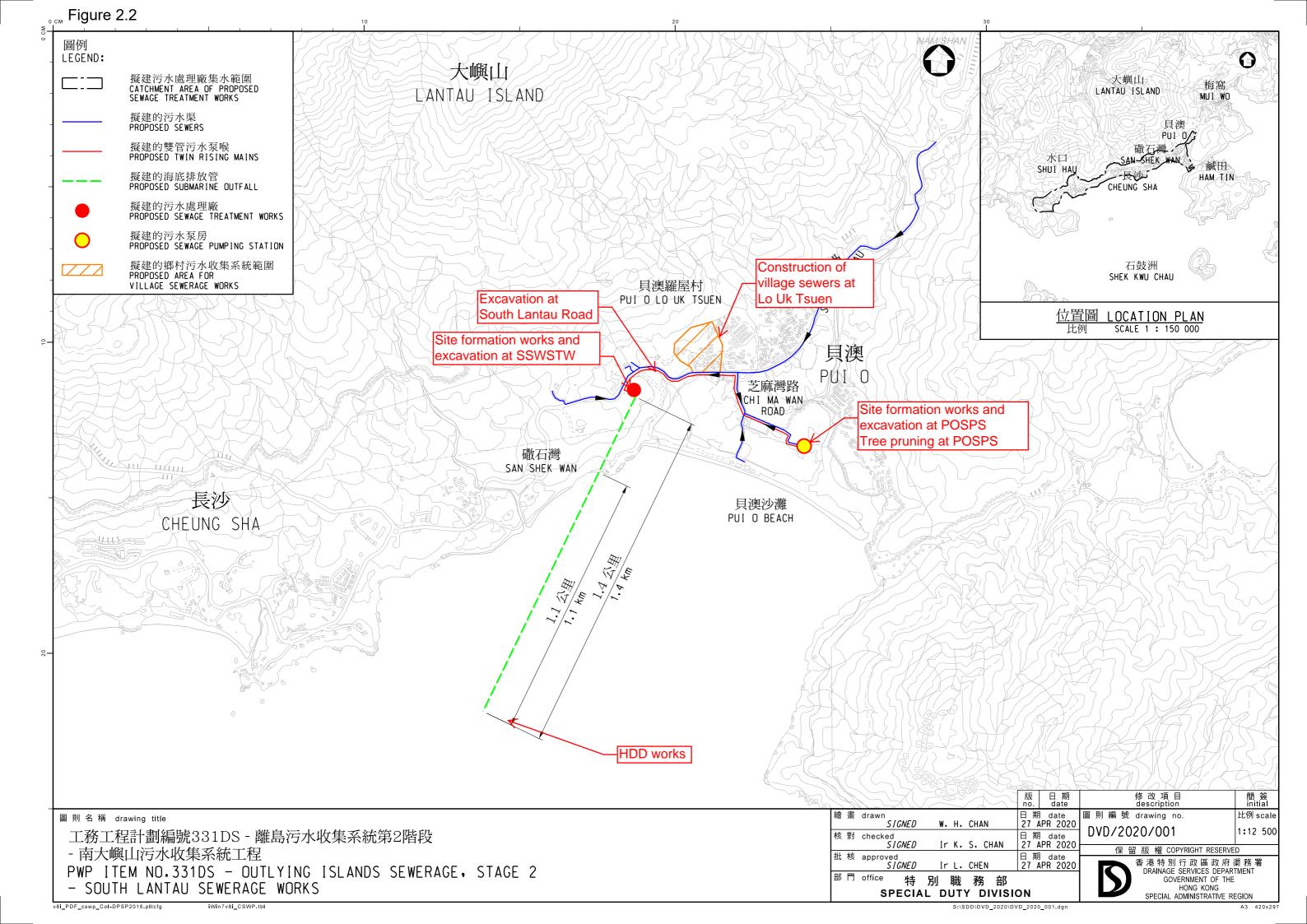


Figure 2.3

Locations of Noise Monitoring Station

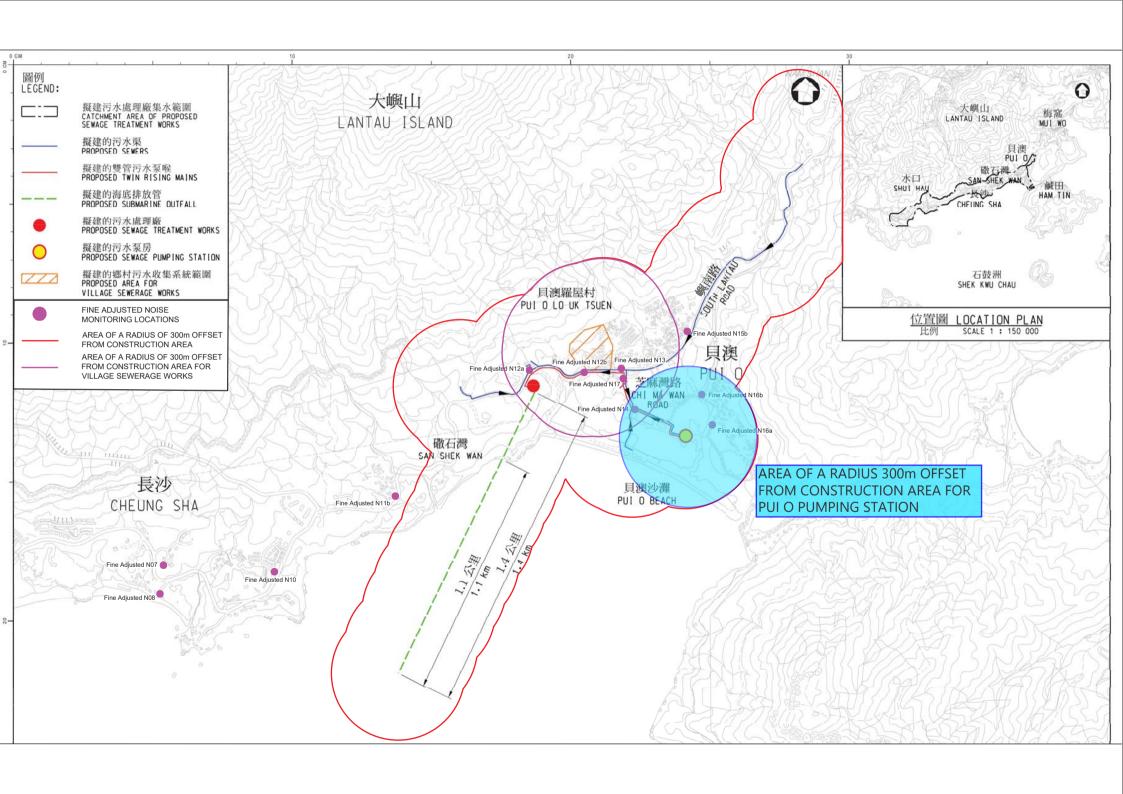


Figure 2.4 Locations of Water Quality Monitoring Stations

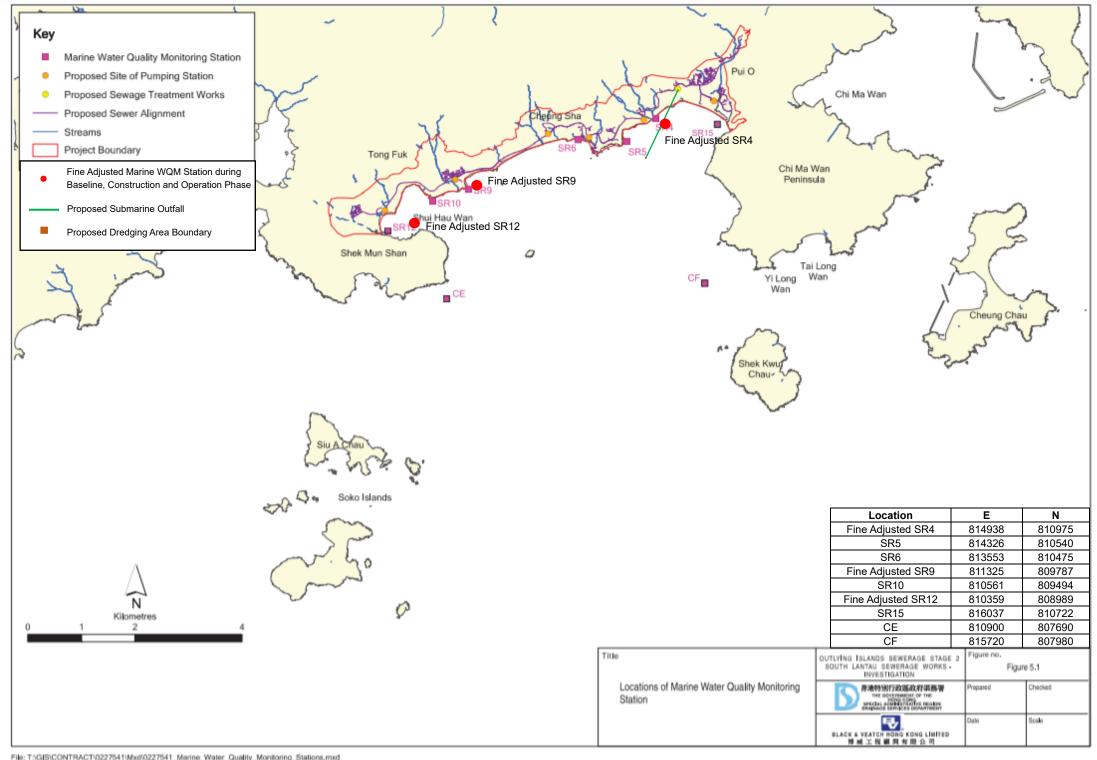


Figure 2.5

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

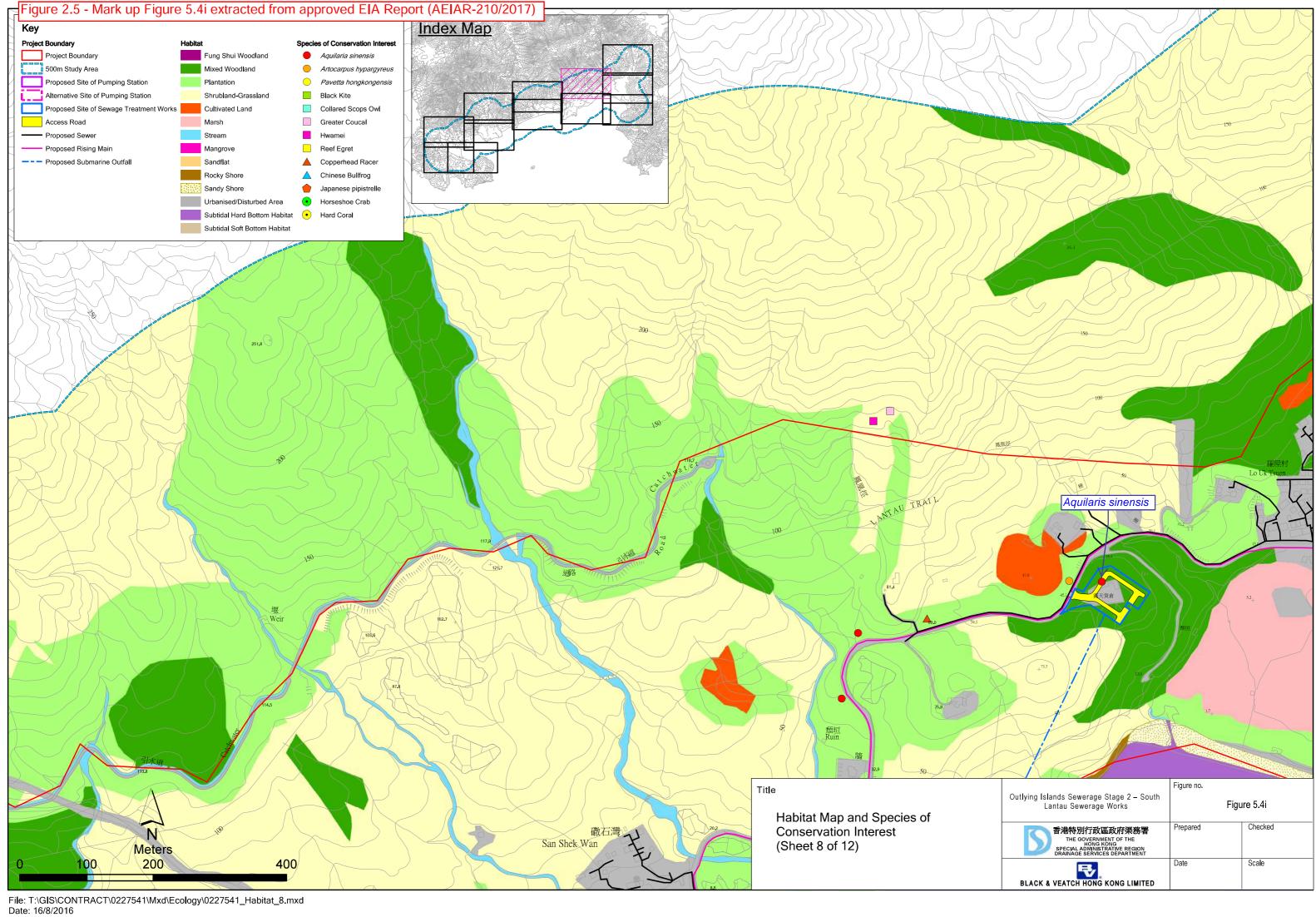
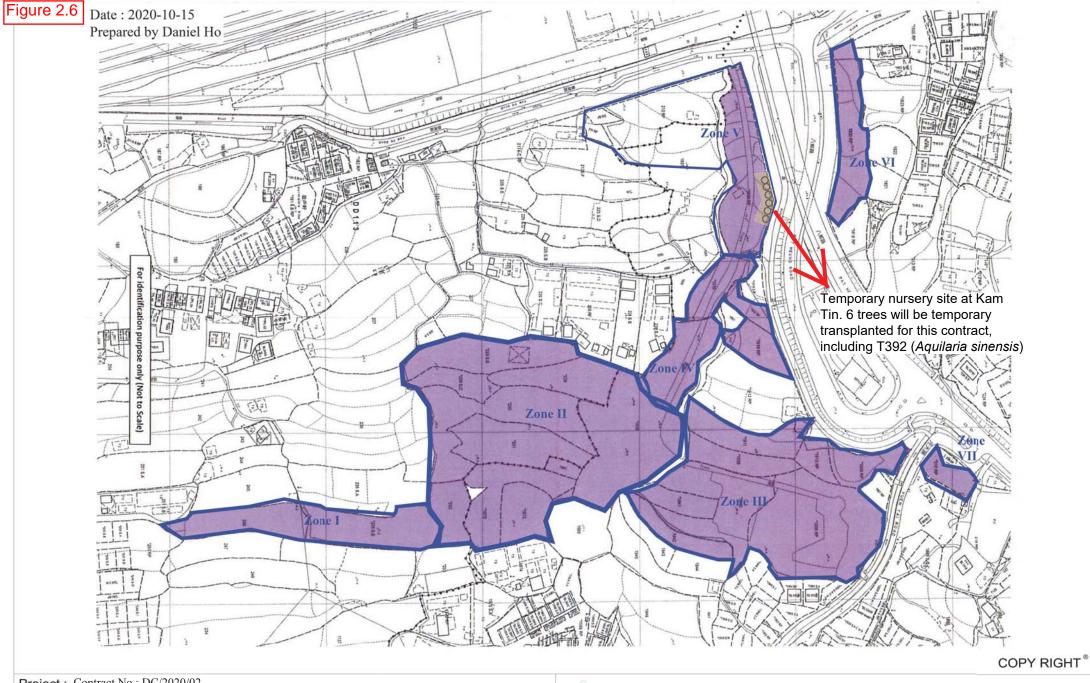


Figure 2.6 Location Plan for Temporary Holding Nursery



Project: Contract No.: DC/2020/02

Construction of San Shek Wan Sewage Treatment Works,

Associated Submarine Outfall and Pui O Sewerage Works

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



Toyo Greenland Co., Ltd.

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

Appendix 4.1

Copies of Calibration Certificates



香港新界葵涌水基路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

Certificate No.:

22CA0412 03

Page

of

2

Item tested

Description:

Sound Level Meter (Class 1)

Microphone PCB

Preamp PCB

Manufacturer: Type/Model No.: Larson Davis LxT1

377B02 326425

PRMLxT1L 069995

Serial/Equipment No.: Adaptors used:

0006346

Item submitted by

Customer Name:

Lam Environmental Services Limited

Address of Customer:

Request No.:

Date of receipt:

12-Apr-2022

Date of test:

17-Apr-2022

Reference equipment used in the calibration

Description:

Model:

Serial No.

Expiry Date:

Traceable to:

Multi function sound calibrator Signal generator

B&K 4226 DS 360

2288444 33873

23-Aug-2022 27-May-2022 CIGISMEC CEPREI

Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity:

55 ± 10 %

Air pressure:

1005 ± 5 hPa

Test specifications

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

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

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

Test results

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

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

Actual Measurement data are documented on worksheets.

1/

Fend Junqi

Approved Signatory:

Date:

19-Apr-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.

© Soils & Materials Engineering Co., Ltd.

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



香港新界奏涌永基路22-24號好爸爸創科大厦 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)

| Cer | tific | cate | No | .: |
|-----|-------|------|----|----|
| | | | | |

22CA0412 03

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 |
| | | | 0.0 | |
| Self-generated noise | A | Pass | 0.3 | 0.4 |
| | С | Pass | 0.8 | 2.1 |
| | Lin | Pass | 1.6 | 2.2 |
| Linearity range for Leq | At reference range, Step 5 dB at 4 kHz | Pass | 0.3 | |
| | Reference SPL on all other ranges | Pass | 0.3 | |
| | 2 dB below upper limit of each range | Pass | 0.3 | |
| | 2 dB above lower limit of each range | Pass | 0.3 | |
| Linearity range for SPL | At reference range, Step 5 dB at 4 kHz | Pass | 0.3 | |
| Frequency weightings | Α | Pass | 0.3 | |
| | С | Pass | 0.3 | |
| | Lin | Pass | 0.3 | |
| Time weightings | Single Burst Fast | Pass | 0.3 | |
| 0 0 | 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 | |
| 3 3 | Repeated at frequency of 100 Hz | Pass | 0.3 | |
| Time averaging | 1 ms burst duty factor 1/103 at 4kHz | Pass | 0.3 | |
| = = | 1 ms burst duty factor 1/10 ⁴ 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 | |
| STORIGE MELOCITOR | 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 | |
| Section Control of the Both Control of Asia Control of | 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:

Date:

Fung Chi Yip

End

Checked by:

Chan Yuk Yiu
Date: 19-Apr-2022

17-Apr-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.

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



SMECLab

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Test Data for Sound Level Meter Page 1 of 5

Serial No.

Sound level meter type:

LxT1 Serial No.

0006346 Date 17-Apr-2022

Microphone Preamp type: type: 377B02 Serial No.

326425 069995 Report: 22CA0412 03

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

9.3

PRMLxT1L

dB

Noise level in C weighting

12.5

dB

Noise level in Lin

19.1

dB

LINEARITY TEST

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

| Reference/Expected level | Actua | al level | Tolerance | Deviation | | |
|--------------------------|----------------|------------|-----------|----------------|------------|--|
| Neierence/Expected level | non-integrated | integrated | | non-integrated | integrated | |
| dB | dB | dB | +/- dB | dB | dB | |
| 94.0 | 94.0 | 94.0 | 0.7 | 0.0 | 0.0 | |
| 99.0 | 99.0 | 99.0 | 0.7 | 0.0 | 0.0 | |
| 104.0 | 104.0 | 104.0 | 0.7 | 0.0 | 0.0 | |
| 109.0 | 109.0 | 109.0 | 0.7 | 0.0 | 0.0 | |
| 114.0 | 114.0 | 114.0 | 0.7 | 0.0 | 0.0 | |
| 115.0 | 115.0 | 115.0 | 0.7 | 0.0 | 0.0 | |
| 116.0 | 116.0 | 116.0 | 0.7 | 0.0 | 0.0 | |
| 117.0 | 117.0 | 117.0 | 0.7 | 0.0 | 0.0 | |
| 118.0 | 118.0 | 118.0 | 0.7 | 0.0 | 0.0 | |
| 119.0 | 119.0 | 119.0 | 0.7 | 0.0 | 0.0 | |
| 120.0 | 120.0 | 120.0 | 0.7 | 0.0 | 0.0 | |
| 89.0 | 89.0 | 89.0 | 0.7 | 0.0 | 0.0 | |
| 84.0 | 84.0 | 84.0 | 0.7 | 0.0 | 0.0 | |
| 79.0 | 79.0 | 79.0 | 0.7 | 0.0 | 0.0 | |
| 74.0 | 74.0 | 74.0 | 0.7 | 0.0 | 0.0 | |
| 69.0 | 69.0 | 69.0 | 0.7 | 0.0 | 0.0 | |
| 64.0 | 64.0 | 64.0 | 0.7 | 0.0 | 0.0 | |
| 59.0 | 59.0 | 59.0 | 0.7 | 0.0 | 0.0 | |
| 54.0 | 54.0 | 54.0 | 0.7 | 0.0 | 0.0 | |
| 49.0 | 48.9 | 48.9 | 0.7 | -0.1 | -0.1 | |
| 44.0 | 44.0 | 44.0 | 0.7 | 0.0 | 0.0 | |
| 39.0 | 39.0 | 39.0 | 0.7 | 0.0 | 0.0 | |
| 34.0 | 34.0 | 34.0 | 0.7 | 0.0 | 0.0 | |
| 33.0 | 33.0 | 33.0 | 0.7 | 0.0 | 0.0 | |



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Test Data for Sound Level Meter

Page 2 of 5

| Sound level meter type: | | LxT1 | Serial No. 0 | | 0006346 | Date | 17-Apr-2022 |
|-------------------------|----------------|--------------------|--------------|--------------------------|------------------|------|------------------|
| Microphone Preamp | type: type: | 377B02 PRMLxT1L | | Serial No. Serial No. | 326425 069995 | Repo | ort: 22CA0412 03 |
| 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 | Ref. level | Expected level | Actual level | Tolerar | nce(dB) | Deviation |
|-----------|------------|----------------|--------------|---------|---------|-----------|
| Hz | dB | dB | dB | + | - | dB |
| 1000.0 | 94.0 | 94.0 | 94.0 | 0.0 | 0.0 | 0.0 |
| 31.6 | 94.0 | 54.6 | 54.6 | 1.5 | 1.5 | 0.0 |
| 63.1 | 94.0 | 67.8 | 67.8 | 1.5 | 1.5 | 0.0 |
| 125.9 | 94.0 | 77.9 | 77.9 | 1.0 | 1.0 | 0.0 |
| 251.2 | 94.0 | 85.4 | 85.4 | 1.0 | 1.0 | 0.0 |
| 501.2 | 94.0 | 90.8 | 90.8 | 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 | Expected level Actual level | | nce(dB) | Deviation |
|-----------|------------|----------------|-----------------------------|-----|---------|-----------|
| Hz | dB | dB | dB | + | - | dB |
| 1000.0 | 94.0 | 94.0 | 94.0 | 0.0 | 0.0 | 0.0 |
| 31.6 | 94.0 | 91.0 | 91.0 | 1.5 | 1.5 | 0.0 |
| 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 | Serial No. | 000 | 6346 | Date | 17-Apr-2022 |
|----------------------|----------------|--------------------|--------------------------|-----|------------|---------|-------------|
| Microphone Preamp | type: type: | 377B02 PRMLxT1L | Serial No. Serial No. | | 425 995 | Report: | 22CA0412 03 |
| 1995.0 | 94.0 | 93.8 | 93.9 | 1.0 | 1.0 | 0.1 | |
| 3981.0 | 94.0 | 93.2 | 93.3 | 1.0 | 1.0 | 0.1 | |
| 7943.0 | 94.0 | 91.0 | 91.0 | 1.5 | 3.0 | 0.0 | |
| 12590.0 | 94.0 | 87.8 | 87.8 | 3.0 | 6.0 | 0.0 | |

Frequency weighting Lin:

| Frequency | Ref. level | Expected level | d level Actual level | | rce(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)

| Ref. level | Expected level | Actual level | Tolerance(dB) | | Deviation | |
|------------|----------------|--------------|---------------|-----|-----------|--|
| dB | dB | dB | + | - | dB | |
| 116.0 | 115.0 | 114.9 | 1.0 | 1.0 | -0.1 | |

TIME WEIGHTING SLOW TEST

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

| Ref. level | Expected level | Expected level Actual level | | nce(dB) | Deviation |
|------------|----------------|-----------------------------|-----|---------|-----------|
| dB | dB | dB | + | - | dB |
| 116.0 | 111.9 | 111.8 | 1.0 | 1.0 | -0.1 |

PEAK RESPONSE TEST

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

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

| Ref. level | Response to 10 ms | Response to 100 us | Tolerance | Deviation |
|------------|-------------------|--------------------|-----------|-----------|
| dB | dB | dB | +/- dB | dB |
| 119.0 | 119.0 | 119.3 | 2.0 | 0.3 |



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Test Data for Sound Level Meter

Page 4 of 5

Sound level meter type:

LxT1

Serial No.

0006346

Date 17-Apr-2022

Microphone Preamp type: type: 377B02 PRMLxT1L Serial No. Serial No. 326425 069995

Report: 22CA0412 03

Negative polarities:

| Ref. level | Response to 10 ms | Response to 100 us | Tolerance | Deviation |
|------------|-------------------|--------------------|-----------|-----------|
| dB | dB | dB | +/- dB | dB |
| 119.0 | 119.0 | 119.3 | 2.0 | 0.3 |

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)

| | Ref. Level | Expected level | Tone burst signal | Tolerance | Deviation |
|---------------|------------|----------------|-------------------|-----------|-----------|
| Time wighting | dB | dB | indication(dB) | +/- dB | dB |
| Slow | 114.0+6.6 | 114.0 | 113.9 | 0.5 | -0.1 |

TIME WEIGHTING IMPULSE TEST

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

Test frequency:

2000 Hz

Amplitude:

The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

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

TIME AVERAGING TEST

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

Frequency of tone burst:

4000 Hz

Duration of tone burst:

1 ms

| diation of tone burst. | 1 1113 | | | | | |
|------------------------|------------|----------|--------|-----------|-----------|--------------|
| 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:

LxT1

Serial No.

0006346

17-Apr-2022

Microphone Preamp type: type: 377B02 PRMLxT1L Serial No. Serial No. 326425 069995

Report: 22CA0412 03

Date

The integrating sound level meter set to Leq:

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

The integrating sound level meter set to SEL:

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

OVERLOAD INDICATION TEST

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

Test frequency:

2000 Hz

Amplitude:

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

Burst repetition frequency:

40 Hz

Tone burst signal:

11 cycles of a sine wave of frequency 2000 Hz.

| Level | Level reduced by | Further reduced | Difference | Tolerance | Deviation |
|------------------|------------------|-----------------|------------|-----------|-----------|
| at overload (dB) | 1 dB | 3 dB | dB | dB | dB |
| 114.2 | 113.2 | 110.2 | 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: Single burst duration: 10 sec 1 msec

| Rms level | Level reduced by | Expected level | Actual level | Tolerance | Deviation |
|------------------|------------------|----------------|--------------|-----------|-----------|
| at overload (dB) | 1 dB | dB | dB | dB | dB |
| 120.9 | 119.9 | 79.9 | 79.9 | 2.2 | 0.0 |

ACOUSTIC TEST

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

| Frequency | Expected level | expected level Actual level Tolerance (c | | nce (dB) | Deviation |
|-----------|----------------|--|-----|----------|-----------|
| Hz | dB | Measured (dB) | + | - | dB |
| 1000 | 94.0 | 94.0 | 0.0 | 0.0 | 0.0 |
| 125 | 77.9 | 77.9 | 1.0 | 1.0 | 0.0 |
| 8000 | 92.9 | 90.8 | 1.5 | 3.0 | -2.1 |

----END-----



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CERTIFICATE OF CALIBRATION

Certificate No.:

21CA1021 05-01

Page:

of

2

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer:

Honglim Co., Ltd. HLES-02

Type/Model No.:

HLES-02 2016611465

Serial/Equipment No.: Adaptors used:

201661

Item submitted by

Curstomer:

Lam Environmental Services Limited.

Address of Customer:

3

Request No.: Date of receipt:

21-Oct-2021

Date of test:

25-Oct-2021

Reference equipment used in the calibration

| Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter Audio analyzer | Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A 8903B | Serial No. 2341427 2239857 2346941 33873 US36087050 GB41300350 | Expiry Date: 04-May-2022 31-May-2022 01-Jun-2022 27-May-2022 27-May-2022 28-May-2022 | Traceable to: SCL CEPREI CEPREI CEPREI CEPREI |
|---|---|--|--|--|
| Universal counter | 53132A | MY40003662 | 02-Jun-2022 | CEPREI |

Ambient conditions

Temperature: Relative humidity:

22 ± 1 °C 55 ± 10 %

Air pressure:

1005 ± 5 hPa

Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 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.

FenalJunai

Approved Signatory:

Date:

26-Oct-2021

Company Chop:

STOS * OLY

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

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



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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

21CA1021 05-01

Page:

of

2

1. Measured Sound Pressure Level

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

(Output level in dB re 20 μPa) Frequency Output Sound Pressure Measured Output Estimated Expanded Shown Level Setting Sound Pressure Level Uncertainty dΒ dB dB Hz 1000 94.00 94.01 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 = 0.017 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 = 1003.7 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 = 1.5 %

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

Cambrated by.

Date:

Checked by:

25-Oct-2021

Date:

26-Oct-2021

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

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



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CERTIFICATE OF CALIBRATION

Certificate No.:

21CA1021 05-02

Page:

- 0

2

Item tested

Description: Manufacturer: Acoustical Calibrator (Class 1)

Type/Model No.:

Honglim Co., Ltd. HLES-02

Serial/Equipment No.:

2019612534

Adaptors used:

523

Item submitted by

Curstomer:

Lam Environmental Services Limited.

Address of Customer:

....

Request No.: Date of receipt:

21-Oct-2021

Date of test:

25-Oct-2021

Reference equipment used in the calibration

| Description: | Model: | Serial No. | Expiry Date: | Traceable to: |
|-------------------------|----------|------------|--------------|---------------|
| Lab standard microphone | B&K 4180 | 2341427 | 04-May-2022 | SCL |
| Preamplifier | B&K 2673 | 2239857 | 31-May-2022 | CEPREI |
| Measuring amplifier | B&K 2610 | 2346941 | 01-Jun-2022 | CEPREI |
| Signal generator | DS 360 | 33873 | 27-May-2022 | CEPREI |
| Digital multi-meter | 34401A | US36087050 | 27-May-2022 | CEPREI |
| Audio analyzer | 8903B | GB41300350 | 28-May-2022 | CEPREI |
| Universal counter | 53132A | MY40003662 | 02-Jun-2022 | CEPREI |

Ambient conditions

Temperature: Relative humidity:

Air pressure:

22 ± 1 °C 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 Jungi

Approved Signatory:

Date:

26-Oct-2021

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-erm 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



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.:

21CA1021 05-02

Page:

2

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) |
|--------------------------|--|---|-----------------------------------|
| Frequency Shown Hz | Output Sound Pressure Level Setting dB | Measured Output Sound Pressure Level dB | Estimated Expanded Uncertainty dB |
| 1000 | 94.00 | 94.02 | 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 = 998.27 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 = 0.4 %

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

Checked by:

Date: 25-Oct-2021

una Chi Yip

Date:

26-Oct-2021

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

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



| REPORT OF EQUI | PMENT PERFORMANCE CHECK / | CALIBRATION | | | | |
|---|---|-----------------------------------|---------------------------|--|--|--|
| Information supplied CONTACT: CLIENT: DATE RECEIVED: DATE OF ISSUE: ADDRESS: PROJECT: | LAM ENVIRONMENTAL SERVICES LTD. EIVED: 29/04/2022 | | | | | |
| PROJECT: | | | | | | |
| Ref: APHA22nd ed 21 COMMENTS | | | | | | |
| equipment in the labor | nd calibration frequency stated in the re | | | | | |
| Scope of Test: | | Turbidity | | | | |
| Equipment Type: | | Turbidimeter | | | | |
| Brand Name: | | Xin Rui | | | | |
| Model No.: | | WGZ-3B | | | | |
| Serial No.: | | 1807069 | | | | |
| Equipment No.: | | | | | | |
| Date of Calibration: | | 05/05/2022 | | | | |
| Remarks: This is the Final Report for release. | rt. Results apply to sample(s) as submitt | ed. All pages of this report have | been checked and approved | | | |
| Certified By: | WONG Chi Wai Sanio Senior Chemist | Issue Date: | 06/05/2022 | | | |

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Form No.: HG022-002 Rev 0 20190101 Page 1 of 2



REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER:

22777053-D29C4001

DATE OF ISSUE:

06/05/2022

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD.

| Equipment Type: | Turbidimeter | |
|--------------------------|--------------|--|
| Brand Name: | Xin Rui | |
| Model No.: | WGZ-3B | |
| Serial No.: | 1807069 | |
| Equipment No.: | | |
| Date of Calibration: | 05/05/2022 | |
| Date of next Calibation: | 05/08/2022 | |
| Lab I.D.: | H220024-01 | |

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

| Expected Reading (NTU) | Display Reading (NTU) | Tolerance | |
|------------------------|-----------------------|-----------|--|
| 0 | 0.00 | 50 do | |
| 4 | 3.99 | -0.2% | |
| 10 | 9.99 | -0.1% | |
| 40 | 40.00 | 0.0% | |
| 100 | 99.99 | 0.0% | |
| 400 | 398 | -0.5% | |
| 1000 | 994 | -0.6% | |
| | 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



ALS Technichem (HK) Pty Ltd

11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street, Kwai Chung N.T., Hong Kong

T: +852 2610 1044 | F: +852 2610 2021

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:

HK2215669

SUB- BATCH:

LABORATORY:

HONG KONG

DATE RECEIVED:

04-May-2022

DATE OF ISSUE:

12-May-2022

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.:

[19H100656/14E101065]/ [N/A]

Date of Calibration:

10-May-2022

GENERAL COMMENTS

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

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER:

HK2215669

SUB- BATCH:

0

DATE OF ISSUE:

12-May-2022

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/ [Professional Plus]

Serial No./

[19H100656/14E101065]/ [N/A]

Equipment No.: Date of Calibration:

10-May-2022

Date of Next Calibration:

10-August-2022

PARAMETERS:

Dissolved Oxygen

Method Ref: APHA (21st edition), 45000: G

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) | |
|-------------------------|--------------------------|------------------|--|
| 2.00 | 1.87 | -0.13 | |
| 5.54 | 5.64 | +0.10 | |
| 8.03 | 8.05 | +0.02 | |
| | Tolerance Limit (mg/L) | ±0.20 | |

pH Value

Method Ref: APHA (21st edition), 4500H: B

| Expected Reading (pH unit) | Displayed Reading (pH unit) | Tolerance (pH unit) | |
|----------------------------|-----------------------------|---------------------|--|
| 4.0 | 3.90 | -0.10 | |
| 7.0 | 6.88 | -0.12 | |
| 10.0 | 9.86 | -0.14 | |
| | Tolerance Limit (pH unit) | ±0.20 | |

Salinity

Method Ref: APHA (21st edition), 2520B

| Expected Reading (ppt) | Displayed Reading (ppt) | Tolerance (%) | | | |
|------------------------|-------------------------|---------------|--|--|--|
| 0 | 0.00 | | | | |
| 10 | 9.45 | -5.5 | | | |
| 20 | 19.14 | -4.3 | | | |
| 30 | 28.60 | -4.7 | | | |
| | Tolerance Limit (%) | ±10.0 | | | |

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

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER:

HK2215669

SUB- BATCH:

0

DATE OF ISSUE:

12-May-2022

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD

Equipment Type:

Multifunctional Meter

Brand Name/

[YSI]/ [Professional Plus]

Model No.: Serial No./

Equipment No.:

[19H100656/14E101065]/ [N/A]

Date of Calibration:

10-May-2022

Date of Next Calibration:

10-August-2022

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) | |
|-----------------------|------------------------|----------------|--|
| 7.0 | 7.2 | +0.2 | |
| 23.0 | 21.8 | -1.2 | |
| 40.0 | 38.4 | -1.6 | |
| | Tolerance Limit (°C) | ±2.0 | |

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

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

Appendix 4.2

Impact Monitoring Schedule

Contract No. SD 6/2020

Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works Environmental Team Services (2021 - 2022) Impact Monitoring Schedule

| | | | Jul 2022 | | | |
|--------|---|---------|-----------------------------------|----------|--|---|
| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
| 26 Jun | 27 Jun | 28 Jun | 29 Jun | 30 Jun | 01 Jul | 02 Jul WQM was cancelled due to adverse weather |
| | | | | | | Mid-Flood 6:38 |
| | | | | | | Mid-Ebb 14:17 |
| 03 Jul | 04 Jul WQM was cancelled due to adverse weather | 05 Jul | 06 Jul Noise Monitoring | 07 Jul | 08 Jul | 09 Jul |
| | WQM 8:11 Mid-Flood 15:30 | | WQM Mid-Flood 10:03 Mid-Ebb 16:54 | | WQM Mid-Flood 13:22 Mid-Ebb 19:26 | |
| 10 Jul | 11 Jul | 12 Jul | 13 Jul | 14 Jul | 15 Jul | 16 Jul |
| | WQM Mid-Ebb 10:05 Mid-Flood 17:28 | | WOM Mid-Ebb 11:14 Mid-Flood 19:21 | | WOM Mid-Flood 6:26 Mid-Ebb 13:31 | |
| 17 Jul | 18 Jul | 19 Jul | 20 Jul | 21 Jul | 22 Jul | 23 Jul |
| | Noise Monitoring WOM Mid-Flood 9:04 | | WOM Mid-Flood 11:00 | | WQM Mid-Ebb 8:08 | |
| | Mid-Ebb 15:51 | | Mid-Ebb 17:17 | | Mid-Flood 14:18 | |
| 24 Jul | 25 Jul WQM Mid-Ebb 10:39 | 26 Jul | 27 Jul WOM Mid-Ebb 11:47 | 28 Jul | | 30 Jul |
| | Mid-Flood 18:41 | | Mid-Flood 19:13 | | Mid-Flood 20:09 | |

Remark:

Noise Monitoring conducted at the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations; and Water Quality Monitoring scheduled and conducted during daylight period of the ebb/flood tide in consideration of navigation safety and to capture major marine works operation with (*) denotes mid-tide time adjusted for this reason.

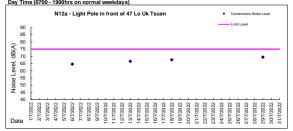
Appendix 4.3

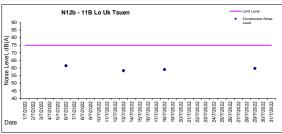
Noise Monitoring Results and Graphical Presentations

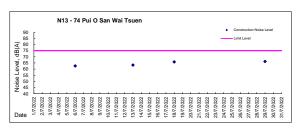
Contract No. SD 6/2020 Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022)

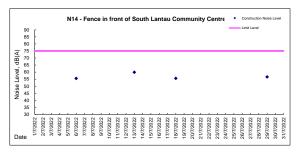
Associated Submarine Outfall a
Graphic Presentation of Noise Monitoring Result
Day Time (0700 - 1900hrs on normal weekdays)

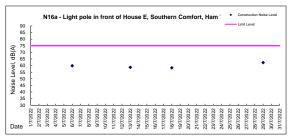
am

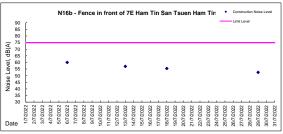


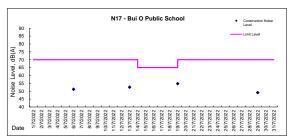














Day Time (0700 - 1900hrs on normal weekdays)

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

| | | | 0-11611 | | Measur | ement No | ise Level | Average Noise Level | Baseline Level | Construction Noise Level | Action Level | M: 0: | Other Noise |
|-------------|-----------------------|------------|---------|-------|--------|-----------|-----------|---------------------|----------------|--|--------------|--------------------|-------------|
| Date | Weather | Wind Speed | Check | Time | Leq | L10 | L90 | Leq | Leq | Leq | Leq | Major Construction | |
| | | | CHECK | | Unit: | dB(A), (5 | i-min) | | Unit: | dB(A), (30-min) | • | Noise Source(s) | Source(s) |
| | | | | 16:50 | 63.5 | 66.7 | 54.1 | | | | | | |
| | | | | 16:55 | 66.8 | 70.0 | 55.3 | | 73.3 | | | X | |
| 6 Jul 2022 | Cloudy | 1.5 | 94.1 | 17:00 | 62.1 | 65.8 | 57.6 | 64.6 | | <baseline level<="" td=""><td>75</td><td>m oc</td></baseline> | 75 | | m oc |
| 0 Jul 2022 | Cloudy 1.0 | 1.5 | 34.1 | 17:05 | 63.5 | 65.7 | 56.8 | 04.0 | 73.3 | | 75 | Nil | Traffic |
| | | | | 17:10 | 67.2 | 70.2 | 59.8 | | | | | | |
| | | | | 17:15 | 60.4 | 62.3 | 54.0 | | | | | | |
| | | | | 17:25 | 63.8 | 66.7 | 57.4 | | | | | | |
| | 13 Jul 2022 Sunny 0.8 | | | 17:30 | 66.6 | 69.3 | 58.3 | Ť | 73.3 | <baseline level<="" td=""><td rowspan="3">75</td><td rowspan="2"></td><td></td></baseline> | 75 | | |
| | | | | 17:35 | 67.2 | 70.3 | .3 60.2 | | | | | | |
| 13 Jul 2022 | | 0.8 | 94.1 | 17:40 | 65.9 | 68.3 | 57.6 | 66.5 | | | | Nil | Traffic |
| | | | | 17:45 | 66.7 | 68.2 | 56.8 | | | | | | |
| | | | | 17:50 | 67.9 | 70.3 | 54.3 | † | | | | | |
| | | | | 16:30 | 65.8 | 69.1 | 56.6 | | | <baseline level<="" td=""><td></td><td></td><td></td></baseline> | | | |
| | | | | 16:35 | 67.3 | 70.1 | 57.8 | | 73.3 | | 75 | | |
| | | | ŀ | 16:40 | 66.4 | 68.9 | 54.2 | | | | | | |
| 18 Jul 2022 | Sunny | 1.8 | 94.1 | 16:45 | 67.0 | 70.3 | 56.7 | 67.6 | | | | Nil | Traffic |
| | | | | 16:50 | 69.3 | 72.8 | 58.9 | + | | | | | |
| | | | | 16:55 | 68.8 | 72.3 | 58.4 | + | | | | | |
| | | | | 15:10 | 70.2 | 73.1 | 58.9 | | | | | | |
| | | | | 15:15 | 71.3 | 74.6 | 60.2 | + | | | | | |
| | 29 Jul 2022 Sunny | | | 15:20 | 66.4 | 69.4 | 60.7 | + | | | | | |
| 29 Jul 2022 | | 1.3 | 93.9 | 15:25 | 65.2 | 68.0 | 61.3 | 69.4 | 73.3 | <baseline level<="" td=""><td rowspan="2">75</td><td>Nil</td><td>Traffic</td></baseline> | 75 | Nil | Traffic |
| | | | | 15:30 | 72.8 | 75.9 | 60.3 | | | | | | |
| | | | 15:35 | 62.1 | 65.3 | 58.8 | 4 | | | | | | |
| | | 1 | 15:35 | 02.1 | 65.3 | 58.8 | | | | | | | |



Day Time (0700 - 1900hrs on normal weekdays)

Location: N12b - 11B Lo Uk Tsuen

| | | | Calibration | | Measur | ement No | | Average Noise Level | Baseline Level | Construction Noise Level | Action Level | Major | Other Noise |
|-------------|-------------------|------------|-------------|-------|------------------|-------------|-------|---------------------|----------------|--|--------------|-----------------|-------------|
| Date | Weather | Wind Speed | Calibration | Time | Leq | L10 | L90 | Leq | Leq | Leq | Leq | Construction | |
| | | | 0out | | Unit | : dB(A), (5 | -min) | | Unit: | dB(A), (30-min) | | Noise Source(s) | Source(s) |
| | | | | 16:10 | 0 63.1 64.5 48.5 | | | | | | | | |
| | | | 16:15 | 60.9 | 64.2 | 47.8 | | | | | | | |
| 6 Jul 2022 | Cloudy | 0.5 | 93.9 | 16:20 | 57.2 | 62.0 | 47.0 | 61.4 | 76.8 | <baseline level<="" td=""><td>75</td><td>Nil</td><td>Traffic</td></baseline> | 75 | Nil | Traffic |
| 0 001 2022 | Cioday | 0.0 | 00.0 | 16:25 | 61.4 | 65.2 | 48.9 | 0 | 70.0 | ADGOOMIO EOVOI | 70 | INII | - manie |
| | | | | 16:30 | 63.5 | 65.1 | 49.8 | | | | | | |
| | | | | 16:35 | 59.8 | 64.3 | 47.6 | | | | | | |
| | | | | 16:45 | 58.4 | 63.0 | 45.4 | | | | | | |
| | | | 94.0 | 16:50 | 58.3 | 62.3 | 46.9 | 58.2 | 76.8 | | 75 | Nil | |
| 13 Jul 2022 | Sunny | 0.9 | | 16:55 | 57.6 | 63.3 | 44.7 | | | <baseline level<="" td=""><td rowspan="3">Traffic</td></baseline> | | | Traffic |
| 10 001 2022 | ouy | | | 17:00 | 56.8 | 63.2 | 44.9 | | 70.0 | ADGOMIO EOVOI | | 14 | |
| | | | | 17:05 | 58.6 | 63.1 | 46.5 | | | | | | |
| | | | | 17:10 | 59.3 | 64.1 | 45.6 | | | | | | |
| | | 0.5 | 94.1 | 15:45 | 59.1 | 63.4 | 44.7 | 58.9 | 76.8 | | | | Traffic |
| | | | | 15:50 | 58.4 | 62.1 | 45.9 | | | <baseline level<="" td=""><td rowspan="2">75</td><td rowspan="2">Nil</td></baseline> | 75 | Nil | |
| 18 Jul 2022 | Sunny | | | 15:55 | 57.0 | 60.0 | 45.8 | | | | | | |
| | | | | 16:00 | 60.3 | 63.8 | 46.2 | | | | • • | | |
| | | | | 16:05 | 60.1 | 63.1 | 45.3 | | | | | | |
| | | | | 16:10 | 57.8 | 60.3 | 44.0 | | | | | | |
| | | | | 14:30 | 59.8 | 64.5 | 45.5 | | | | | | |
| | 29 Jul 2022 Sunny | | | 14:35 | 58.7 | 64.2 | 48.0 | | | | | | Traffic |
| 29 Jul 2022 | | 1.5 | 94.1 | 14:40 | 60.1 | 64.8 | 45.8 | 59.7 | 76.8 | <baseline level<="" td=""><td>75</td><td>Nil</td></baseline> | 75 | Nil | |
| | | | 37.1 | 14:45 | 58.1 | 65.9 | 46.0 | 33.1 | | | | NII | |
| | | | 14:50 | 60.4 | 66.6 | 45.6 |] ! | | | | | | |
| | | i | 14:55 | 60.7 | 65.6 | 46.7 | | 1 | I | | | i | |



Day Time (0700 - 1900hrs on normal weekdays)

Location: N13 - 74 Pui O San Wai Tsuen

| | | | Calibration | | Measur | ement No | | Average Noise Level | | Construction Noise Level | Action Level | Major Construction | Other |
|-------------|-------------------|------------|----------------------|-------|----------------|-------------|-------|---------------------|-------|--|--------------|--------------------|----------|
| Date | Weather | Wind Speed | Calibration | Time | Leq | L10 | L90 | Leq | Leq | Leq | Leq | | Noise |
| | | | OHECK | | Unit | : dB(A), (5 | -min) | | Unit: | dB(A), (30-min) | | Noise Source(s) | Source(s |
| | | | | 15:30 | 63.4 66.2 57.3 | | | | | | | | |
| | 6 Jul 2022 Cloudy | | 94.0 | 15:35 | 61.7 | 65.2 | 64.9 | 62.6 | 73.6 | | | | |
| 6 Jul 2022 | | 0.7 | | 15:40 | 64.1 | 67.7 | 55.9 | | | <baseline level<="" td=""><td>75</td><td>Nil</td><td>Traffic</td></baseline> | 75 | Nil | Traffic |
| 0 301 2022 | | 0.7 | 34.0 | 15:45 | 63.3 | 64.4 | 55.2 | 02.0 | 70.0 | CDASCING ECVO | 73 | INII | Hanne |
| | | | | 15:50 | 61.8 | 64.6 | 56.0 | | | | | | |
| | | | | 15:55 | 60.0 | 63.0 | 55.2 | | | | | | |
| | | | | 16:15 | 62.5 | 65.4 | 53.6 | | | | | | |
| | | | | 16:20 | 60.5 | 64.5 | 53.2 | 63.3 | 73.6 | | | 1 | |
| 13 Jul 2022 | Sunny | 1.8 | 94.1 | 16:25 | 62.8 | 66.2 | 56.0 | | | <baseline level<="" td=""><td>75</td><td>Nil</td><td>Traffic</td></baseline> | 75 | Nil | Traffic |
| 13 Jul 2022 | Suriny | 1.0 | 34.1 | 16:20 | 64.8 | 67.8 | 57.4 | | 73.6 | <daseline level<="" p=""></daseline> | 75 | INII | Trame |
| | | | | 16:25 | 60.3 | 64.1 | 53.4 | | | | | | |
| | | | | 16:30 | 65.8 | 67.9 | 57.6 | | | | | | |
| | | | | 15:00 | 63.8 | 66.9 | 55.3 | 65.8 | 73.6 | | | | |
| | | | | 15:05 | 65.7 | 68.2 | 56.0 | | | | 75 | Nil | |
| 18 Jul 2022 | Sunny | 1.1 | 94.2 | 15:10 | 66.3 | 69.3 | 56.7 | | | <baseline level<="" td=""><td>Traffic</td></baseline> | | | Traffic |
| 10 Jul 2022 | Suriny | 1 | 34.2 | 15:15 | 67.8 | 70.1 | 58.0 | 05.0 | 73.0 | CDasellile Level | 73 | INII | Hanne |
| | | | | 15:20 | 64.2 | 68.0 | 53.1 | | | | | | |
| | | | | 15:25 | 65.9 | 69.4 | 59.4 | | | | | | |
| | | | | 13:45 | 65.8 | 68.2 | 55.4 | | | | | | |
| | 29 Jul 2022 Sunny | | | 13:50 | 66.6 | 69.7 | 55.8 | | | | | | Traffic |
| 29 Jul 2022 | | 0.7 | 93.9 | 13:55 | 65.6 | 68.5 | 55.2 | 66.2 | 73.6 | <baseline level<="" td=""><td>75</td><td>Nil</td></baseline> | 75 | Nil | |
| 29 Jul 2022 | Suriny | 0.7 | 53.9 | 14:00 | 66.3 | 69.3 | 54.9 | 00.2 | 73.0 | Coascille Level | 75 | 1911 | |
| | | | | 14:05 | 66.2 | 69.2 | 54.6 | | | | | | |
| | | | 14:10 66.5 69.5 56.3 | | | | | | | | | | |



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 | Calibration | Time | Leq | L10 | L90 | Leq | Leq | Leq | Leq | Construct | Noise |
| | | | Oneck | | Unit | dB(A), (5 | -min) | | Unit: | dB(A), (30-min) | | ion Noise | |
| | | | | 13:40 | 59.3 | 62.1 | 46.4 | | | | | | |
| | | | | 13:45 | 56.4 | 58.2 | 47.8 | 55.6 | 62.2 | | | | |
| 6 Jul 2022 | Cloudy | 0.5 | 94.0 | 13:50 | 51.8 | 54.2 | 45.7 | | | <baseline level<="" td=""><td>75</td><td>Nil</td><td>Traffic</td></baseline> | 75 | Nil | Traffic |
| 0 301 2022 | Cloudy | 0.5 | 34.0 | 13:55 | 53.9 | 57.7 | 43.4 | 35.0 | 02.2 | Chaseline Level | 75 | INII | Traine |
| | | | | 14:00 | 56.5 | 56.0 | 42.2 | | | | | | |
| | | | | 14:05 | 44.8 | 46.9 | 41.6 | | | | | | |
| | | | | 13:45 | 55.2 | 57.0 | 40.5 | | | | | | |
| | | | | 13:50 | 63.1 | 65.5 | 43.0 | 59.9 | 62.2 | | 75 | | |
| 13 Jul 2022 | Sunny | 0.9 | 94.1 | 13:55 | 57.2 | 59.4 | 45.7 | | | <baseline level<="" td=""><td>Nil</td><td>T60.</td></baseline> | | Nil | T60. |
| 13 301 2022 | Suriny | | 34.1 | 14:00 | 57.4 | 60.3 | 44.6 | | | | | INII | Traffic |
| | | | | 14:05 | 61.3 | 63.8 | 45.6 | | | | | | |
| | | | | 14:10 | 60.5 | 63.1 | 46.8 | | | | | | |
| | | | | 14:15 | 55.4 | 58.2 | 44.3 | | 62.2 | | | | |
| | | | | 14:20 | 56.3 | 59.1 | 46.5 | | | | | | m ec |
| 18 Jul 2022 | Sunny | 0.4 | 93.9 | 14:25 | 53.6 | 55.9 | 47.8 | 55.6 | | <baseline level<="" td=""><td>75</td></baseline> | 75 | | |
| 16 Jul 2022 | Suriny | 0.4 | 30.3 | 14:30 | 52.4 | 55.4 | 44.2 | 35.0 | 02.2 | Chaseline Level | 75 | Nil | Traffic |
| | | | | 14:35 | 56.3 | 58.9 | 45.9 | | | | | | |
| | | | | 14:40 | 57.6 | 61.2 | 47.1 | | | | | | |
| | | | | 11:30 | 54.1 | 56.9 | 43.9 | | | | | | |
| | | | | 11:35 | 55.0 | 58.5 | 41.2 | | | | | | Traffic |
| 29 Jul 2022 | Sunny | 1.1 | 94.0 | 11:40 | 53.3 | 53.5 | 41.0 | 56.6 | 62.2 | <baseline level<="" td=""><td>75</td><td>NT1</td></baseline> | 75 | NT1 | |
| 29 Jul 2022 | Julilly | 1.1 | 54.0 | 11:45 | 54.8 | 55.1 | 40.2 | 56.6 | 02.2 | <baseline level<="" td=""><td rowspan="2">75</td><td rowspan="2">Nil</td></baseline> | 75 | Nil | |
| | | | | 11:50 | 60.0 | 60.3 | 40.1 | | | | | | |
| | | | 11:55 | 58.3 | 61.3 | 42.2 | | | | | | | |



Day Time (0700 - 1900hrs on normal weekdays)

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

| | | | 0-556 | | Measure | ement No | ise Level | Average Noise Level | Baseline Level | Construction Noise Level | Action Level | Major | Other Noise |
|-------------|-----------------------|------------|-------|----------------|----------------------|----------------------|--------------|---------------------|-----------------------|--|--------------|--------------|-------------|
| Date | Weather | Wind Speed | Check | Time | Leq | L10 | L90 | Leq | Leq | Leq | Leq | Construction | Source(s) |
| | | | OHEUK | | Unit: | Unit: dB(A), (5-min) | | | Unit: dB(A), (30-min) | | | | |
| | 6 Jul 2022 Cloudy 1.1 | | | 14:45 | 57.1 | 60.1 | 52.2 | | | | | | |
| | | | 14:50 | 63.8 | 65.1 | 52.4 | | | | | | | |
| 6 Jul 2022 | | 1.1 | 94.0 | 14:55 | 56.0 | 57.7 | 52.0 | 59.9 | 68.1 | <baseline level<="" td=""><td>75</td><td>Nil</td><td>Traffic</td></baseline> | 75 | Nil | Traffic |
| 0 001 2022 | Oloudy | | 01.0 | 15:00 | 56.3 | 57.5 | 51.7 | 55.5 | 00.1 | CDASCINC ECVO | 75 | INII | Hanne |
| | | | | 15:05 | 56.4 | 56.8 | 51.2 | | | | | | |
| | | | | 15:10 | 62.3 | 59.4 | 51.0 | | | | | | |
| | | | | 15:10 | 56.8 | 59.2 | 55.9 | | | | | | |
| | | | 94.0 | 15:15 | 57.2 | 60.3 | 56.1 | 58.7 | 68.1 | | 75 | | |
| 13 Jul 2022 | Sunny | 0.4 | | 15:20 | 55.3 | 58.6 | 54.1 | | | <baseline level<="" td=""><td>Nil</td><td>Traffic</td></baseline> | | Nil | Traffic |
| | | | | | 15:25 60.3 64.6 56.3 | | | | | | | | |
| | | | | 15:30 | 58.6 | 61.2 | 55.6 | | | | | | |
| | | | | 15:35 | 61.2 | 65.8 | 56.8 | 58.3 | | | | | |
| | | | | 13:00 | 57.4 | 60.2 61.3 | 53.6 | | 68.1 | | | Nil | |
| | | | | 13:05 | 58.3 | | 54.8 | | | <baseline level<="" td=""><td rowspan="2">75</td><td></td></baseline> | 75 | | |
| 18 Jul 2022 | Sunny | 8.0 | 94.1 | 13:10 | 56.2 56.1 | 58.6 59.4 | 53.3 53.7 | | | | | | Traffic |
| | | | | 13:15 13:20 | 56.1 | 63.2 | 53.7 | | | | | | |
| | | | | 13:25 | 60.3 | 65.8 | 54.1 | | | | | | |
| | | | | 10:00 | 60.0 | 61.6 | 51.6 | | | | | | |
| | | | | 10:05 | 63.0 | 65.3 | 50.3 | + | | | | | |
| | 29 Jul 2022 Sunny | | | 10:00 | 62.5 | 66.9 | 50.9 | + | | | | | |
| 29 Jul 2022 | | 0.6 | 93.9 | 10:15 | 59.4 | 64.4 | 47.4 | 62.3 | 68.1 | <baseline level<="" td=""><td rowspan="2">75</td><td>Nil</td><td>Traffic</td></baseline> | 75 | Nil | Traffic |
| | | | | 10:13 | 65.8 | 68.9 | 55.9 | 4 | | | | | |
| | | | | | | | | 1 | | | | | |
| | | 1 | 10:25 | 58.8 | 61.7 | 53.2 | | | | | | ı | |



Day Time (0700 - 1900hrs on normal weekdays)

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

| | | | Calibration | | Measure | ement Noi | | 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 | Construct | Source(s) |
| | | | Onook | | Unit | : dB(A), (5 | -min) | | Unit: | dB(A), (30-min) | | ion Noise | Source(s) |
| | | | | 14:15 | 5 60.0 61.3 56.3 | | | | | | | | |
| | | | | 14:20 | 62.7 | 63.1 | 62.1 | | | | | | |
| 6 Jul 2022 Cloudy | 0.4 | 93.9 | 14:25 | 61.9 | 62.9 | 61.1 | 60.0 | 68.5 | <baseline level<="" td=""><td>75</td><td>Nil</td><td>Traffic</td></baseline> | 75 | Nil | Traffic | |
| | 0.1 | 00.0 | 14:30 | 58.8 | 60.0 | 57.5 | 00.0 | 00.0 | CDascillio Ecvol | 70 | 14 | Haine | |
| | | | | 14:35 | 56.9 | 57.7 | 55.8 | | | | | | |
| | | | | 14:40 | 55.8 | 56.7 | 54.1 | | | | | | |
| | | | | 14:30 | 58.7 | 61.0 | 56.4 | | | | | | |
| | | | | 14:35 | 54.9 | 55.9 | 53.4 | | 68.5 | <baseline level<="" td=""><td rowspan="2">75</td><td></td><td></td></baseline> | 75 | | |
| 13 Jul 2022 | Sunny | 1.6 | 93.8 | 14:40 | 54.5 | 55.9 | 50.9 | 57.0 | | | | Nil | Traffic |
| 10 001 2022 | Curiny | 1.0 | 00.0 | 14:45 | 56.4 | 58.0 | 52.7 | | | CDascillio Ecvol | 70 | 14 | |
| | | | | 14:50 | 55.3 | 57.6 | 54.3 | | | | | | |
| | | | | 14:55 | 59.6 | 61.3 | 57.1 | | | | | | |
| | | | | 13:40 | 54.6 | 55.9 | 52.2 | | 68.5 | | | Nil | |
| | | | | 13:45 | 55.2 | 56.8 | 53.1 | | | <baseline level<="" td=""><td rowspan="3">75</td><td rowspan="2">TD CC</td></baseline> | 75 | | TD CC |
| 18 Jul 2022 | Sunny | 0.2 | 94.0 | 13:50 | 54.1 | 55.3 | 52.7 | 55.4 | | | | | |
| 16 Jul 2022 | Suriny | 0.2 | 34.0 | 13:55 | 57.8 | 60.0 | 55.2 | 33.4 | 00.5 | Chaseille Level | | INII | Traffic |
| | | | | 14:00 | 54.3 | 55.9 | 53.3 | | | | | | |
| | | | | 14:05 | 55.5 | 56.6 | 52.3 | | | | | | |
| | | | | 10:45 | 52.0 | 55.6 | 42.5 | | | | | | |
| | | | 10:50 | 49.6 | 52.3 | 41.9 | | | | | | l | |
| 20 14 2022 | 20 1.4 2022 | 0.1 | 94.0 | 10:55 | 49.3 | 52.2 | 42.4 | 52.5 | 68.5 | <baseline level<="" td=""><td>75</td><td>Nii</td><td rowspan="3">Traffic</td></baseline> | 75 | Nii | Traffic |
| 29 Jul 2022 Sunny | Julily | 0.1 | 34.0 | 11:00 | 55.2 | 56.8 | 48.2 | 52.5 | 68.5 | <baseline level<="" td=""><td rowspan="2">75</td><td>Nil</td></baseline> | 75 | Nil | |
| | | | | 11:05 | 52.0 | 53.7 | 49.9 | 1 | | | | | |
| | | | | 11:15 | 53.9 | 56.4 | 48.1 | | | | | 1 | |



Day Time (0700 - 1900hrs on normal weekdays)

Location: N17 - Bui O Public School

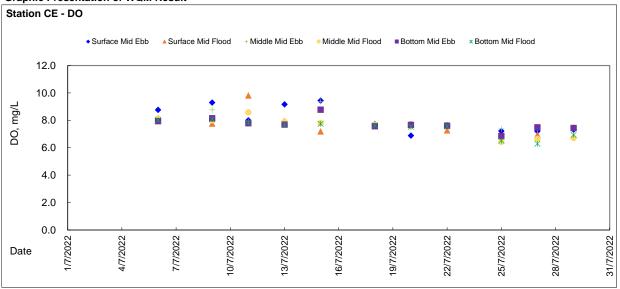
| | | | 0-11111 | | Measur | ement Noi | ise Level | Average Noise Level | Baseline Level | Construction Noise Level | Limit Level | Major | |
|-------------|-----------------------|------------|----------------------|-------|--------|-------------|-----------|--|---|--|-------------|--------------------|-----------------------|
| Date | Weather | Wind Speed | Calibration Check | Time | Leq | L10 | L90 | Leq | Leq | Leq | Leq | Construction Noise | Other Noise Source(s) |
| | | | CHECK | | Unit | : dB(A), (5 | i-min) | The state of the s | Unit: | dB(A), (30-min) | • | Source(s) | |
| | | | | 13:00 | 50.8 | 52.7 | 48.9 | | | | | | |
| | | | | 13:05 | 51.0 | 53.1 | 48.8 | 1 | | | | | |
| 6 Iul 2022 | 6 Jul 2022 Cloudy 1.1 | 94.0 | 13:10 | 50.8 | 53.4 | 47.3 | 51.2 | 62.3 | <baseline level<="" td=""><td>70</td><td>Nil</td><td>m cc</td></baseline> | 70 | Nil | m cc | |
| 0 Jul 2022 | | 34.0 | 13:15 | 52.3 | 54.4 | 48.8 | 51.2 | 02.3 | <daseille level<="" td=""><td>70</td><td>INII</td><td>Traffic</td></daseille> | 70 | INII | Traffic | |
| | | | | 13:20 | 51.7 | 54.3 | 48.2 | 1 | | | | | |
| | | | | 13:25 | 50.6 | 52.5 | 47.1 | 1 | | | | | |
| | | | | 13:00 | 54.5 | 56.6 | 50.5 | | | | | | |
| | | | | 13:05 | 52.9 | 55.7 | 48.0 | 1 | | | | | |
| 40 1 1 0000 | Sunny | 1.9 | 93.9 | 13:10 | 53.8 | 55.9 | 47.3 | 52.6 | 62.3 | <baseline level<="" td=""><td rowspan="2">70</td><td>Nil</td><td>m .cc</td></baseline> | 70 | Nil | m .cc |
| 13 Jul 2022 | Suriny | 1.9 | 93.9 | 13:15 | 50.1 | 52.0 | 47.3 | | | <daseille level<="" td=""><td>INII</td><td>Traffic</td></daseille> | | INII | Traffic |
| | | | | 13:20 | 49.9 | 51.9 | 46.6 | 1 | | | | | |
| | | | | 13:25 | 52.4 | 56.0 | 46.0 | 1 | | | | | |
| | | | | 8:55 | 54.6 | 55.3 | 52.7 | - | 62.3 | | | | |
| | | | | 9:00 | 55.2 | 56.4 | 53.4 | | | <baseline level<="" td=""><td rowspan="3">65</td><td rowspan="2"></td><td></td></baseline> | 65 | | |
| 19 Jul 2022 | Sunny | 1.4 | 93.9 | 9:05 | 54.6 | 55.9 | 53.1 | | | | | | m .cc |
| 19 Jul 2022 | Sunny | 1.4 | 93.9 | 9:10 | 54.2 | 55.5 | 52.9 | 54.8 | 62.3 | <baseline level<="" td=""><td>Nil</td><td>Traffic</td></baseline> | | Nil | Traffic |
| | | | | 9:15 | 55.7 | 58.1 | 53.0 | | | | | | |
| | | | | 9:20 | 54.3 | 55.6 | 53.2 | | | | | | |
| | | | | 13:00 | 47.6 | 49.7 | 42.8 | | | | | | |
| | | | | 13:05 | 48.8 | 51.4 | 42.6 | 1 | | | | | |
| 29 Jul 2022 | | 1.1 | 94.0 | 13:10 | 49.1 | 50.7 | 46.4 | 49.1 | 62.3 | -Deceline Level | 70 | Nil | m ee |
| 29 Jul 2022 | Sunny | 1.1 | 94.0 | 13:15 | 48.6 | 50.3 | 45.3 | 49.1 | 02.3 | <baseline level<="" td=""><td rowspan="2">70</td><td>INII</td><td>Traffic</td></baseline> | 70 | INII | Traffic |
| | | | | 13:20 | 50.3 | 53.1 | 44.9 | 1 | | | | | |
| | | | | 13:25 | 49.9 | 52.2 | 45.4 | 1 | | | | | |

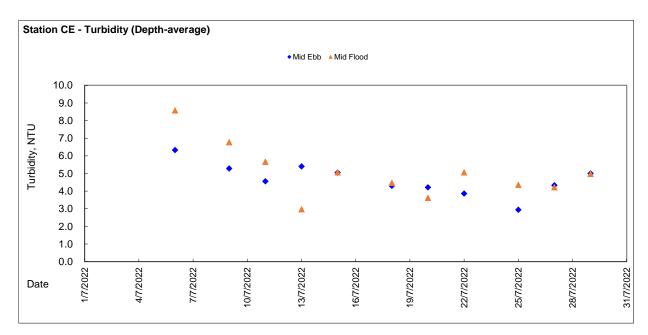
Appendix 4.4

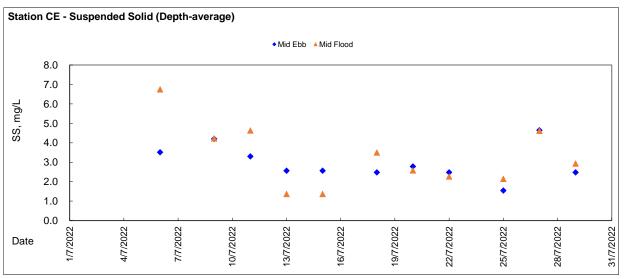
Marine Water Quality Monitoring Results and Graphical Presentations



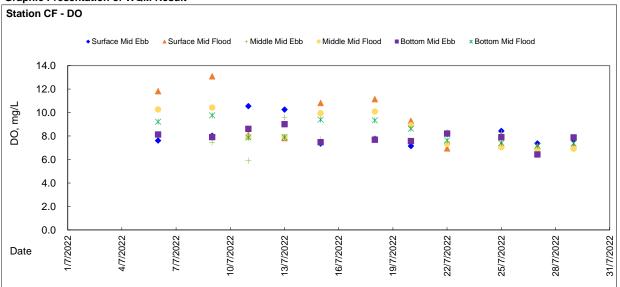
Graphic Presentation of WQM Result

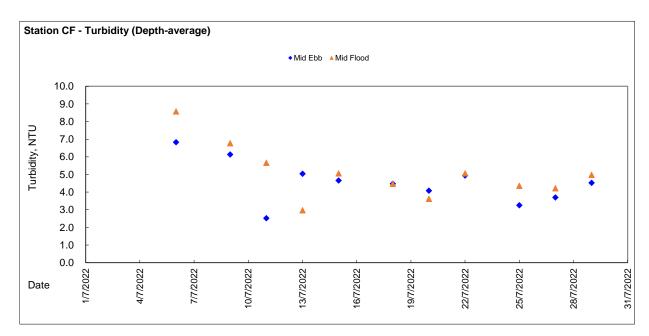


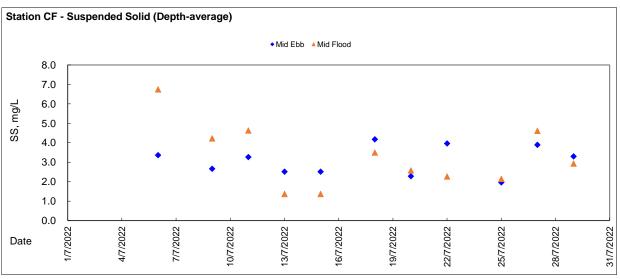






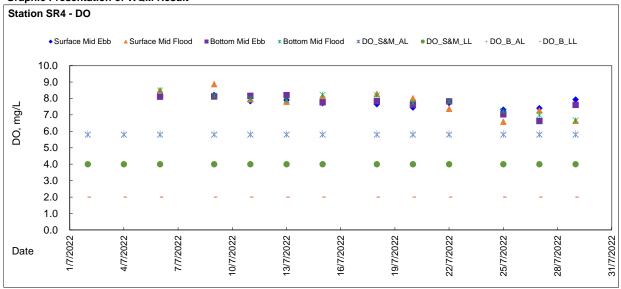


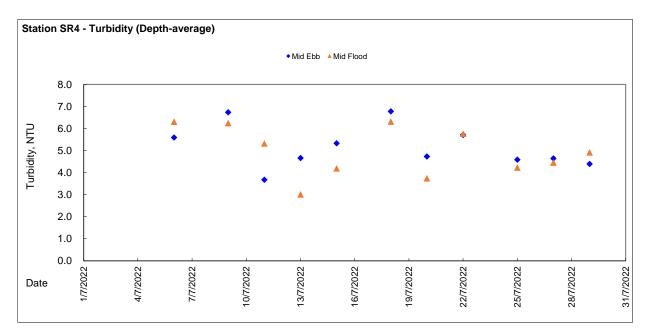


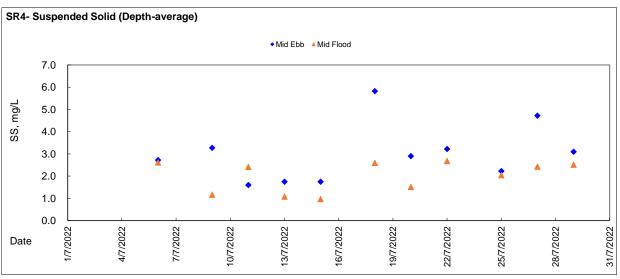


Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022)



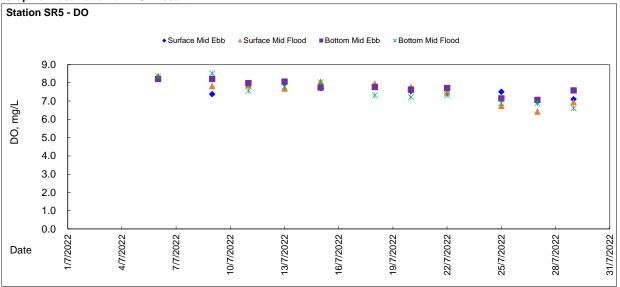


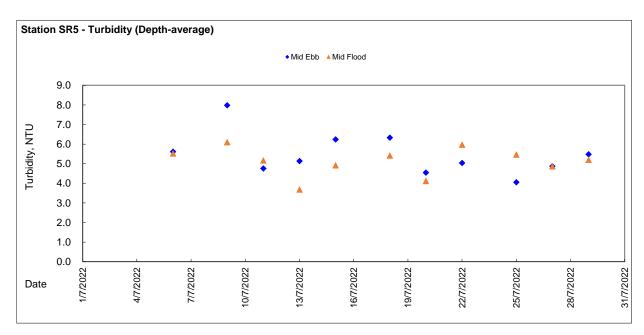


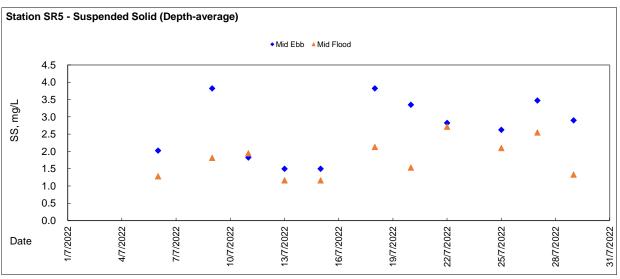


Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022)

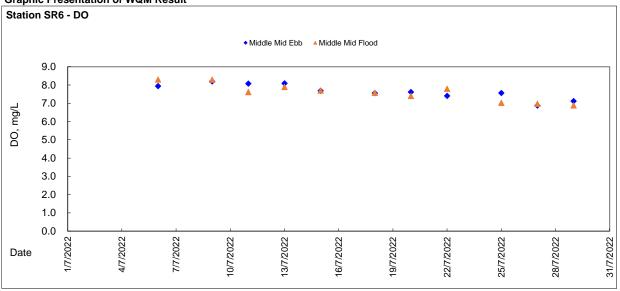


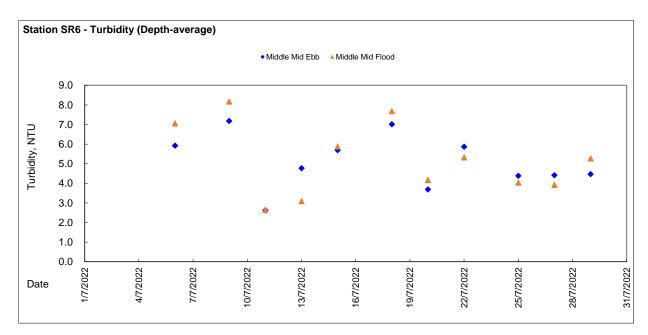


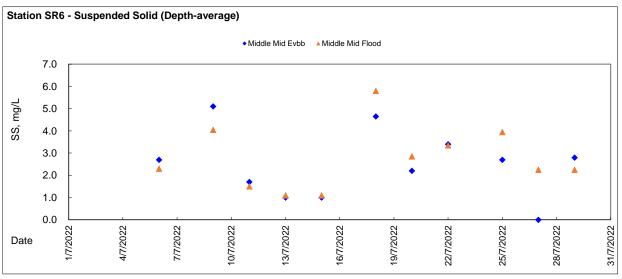


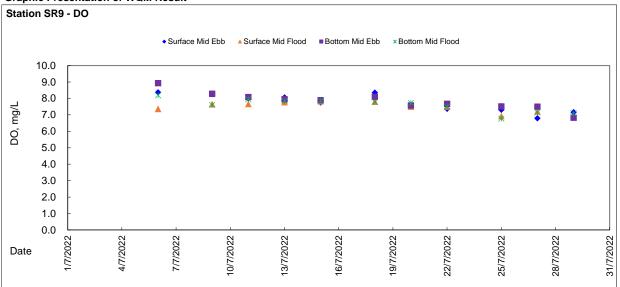


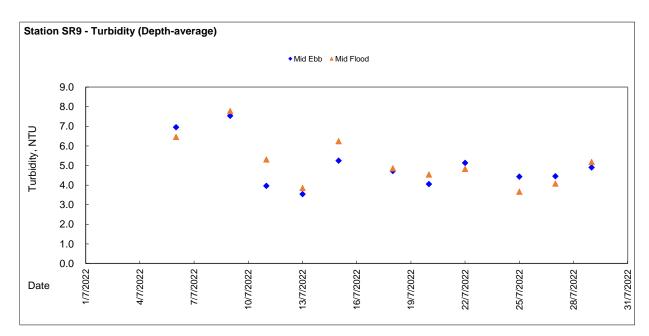


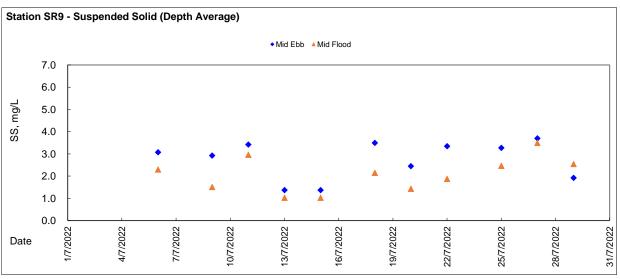








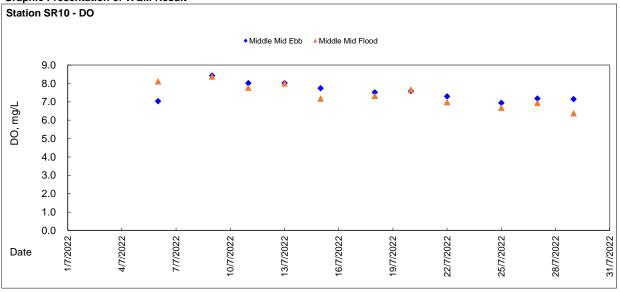


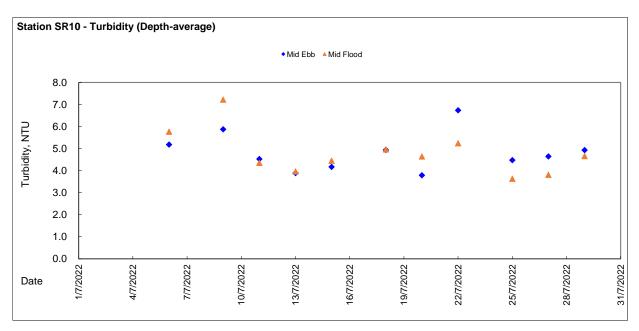


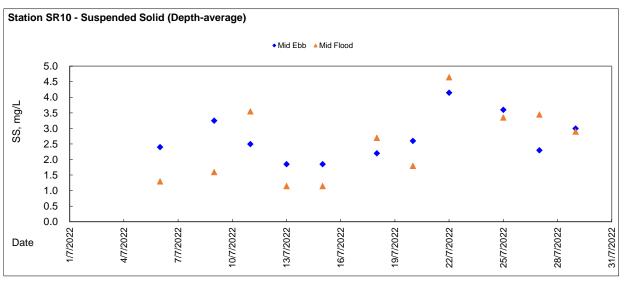


Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022)



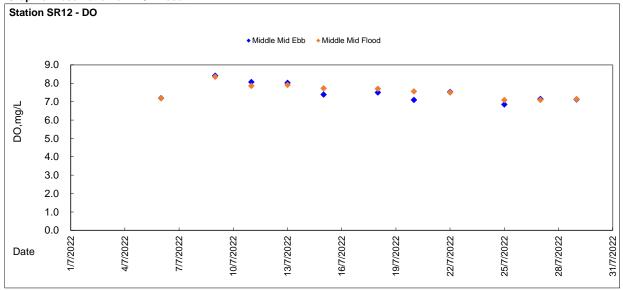


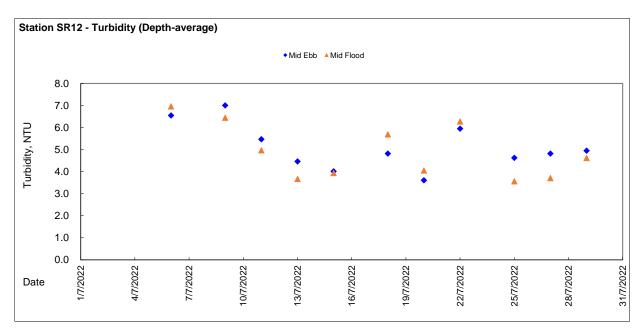


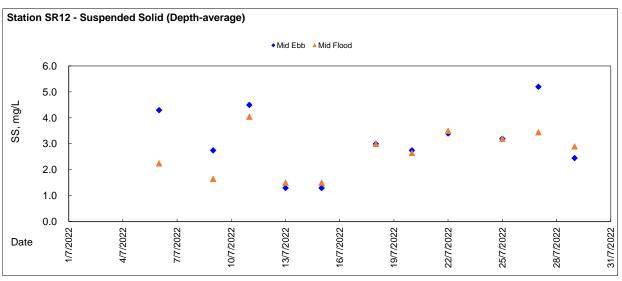


Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022)

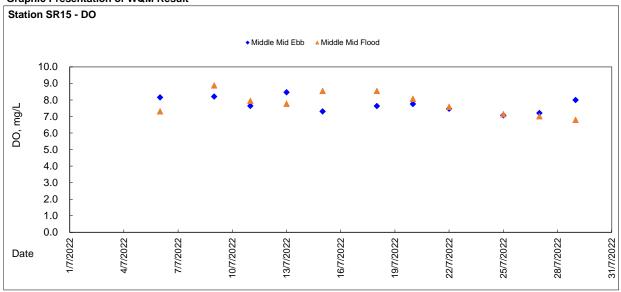


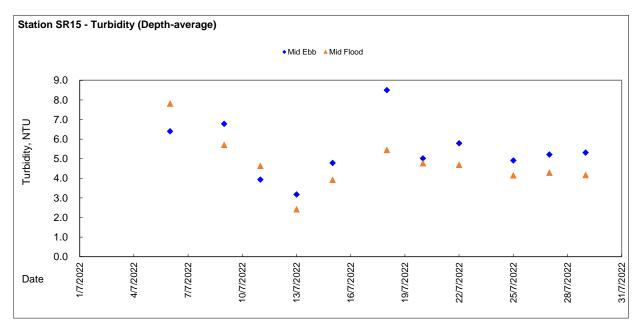


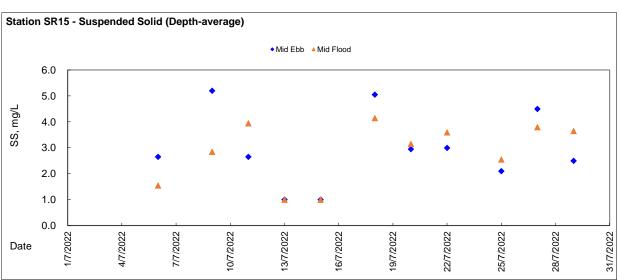












Impact Water Quality Monitoring at Station SR4 (surface) - Ebb Tide

| Station Reference | Sampling | Weather | Sampling Time | Water Depth | Sampling Depth | Tempe | | F | - | Salir | _ | DO Sat | | DC ma | | Turb | | | SS ng/L |
|-------------------|-----------|-------------------|------------------|--|-------------------|-------|-------|-------|---------|---------------|--------------|-------------|--------|----------|------|-------|------|-------|------------|
| | Date | | Time | m | m | Value | AVG | Value | AVG | | AVG | | AVG | | AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | Т8 | · | | | | | | Samplin | g was cancell | led due to a | dverse weat | her | | | | | | |
| | 4/7/2022 | Monsoon Signal | | 56 4.0 1.0 28.45 8.92 8.93 14.89 113.70 114.00 8.10 8.11 5.26 3.3 00 3.5 1.0 29.39 20.77 9.18 0.19 8.90 20.1 112.80 143.96 8.20 2.24 7.42 7.04 3.3 | | | | | | | | | | | | | | | |
| | 6/7/2022 | Sunny | 12:55 | | | | 28.44 | | | | 14.84 | | 114.00 | | 8.11 | | 5.34 | 3.6 | |
| | | , | 12:56 | | | 28.45 | | 8.92 | | 14.89 | | 113.70 | | | | | | 3.3 | |
| | 8/7/2022 | Cloudy | 13:00 | | | | 29.37 | | 9 18 | | 8.91 | | 112 85 | | 8.21 | | 7.01 | 3.8 | |
| | ********* | , | 13:01 | 3.5 | 1.0 | 29.35 | | 9.18 | | 8.91 | | 112.90 | | 8.22 | | 6.60 | | 3.6 | i |
| | 11/7/2022 | Sunny | 9:51 | 3.6 | 1.0 | 30.52 | 30.53 | 9.50 | 9.53 | 14.15 | 14.16 | 116.50 | 112.90 | 8.08 | 7.83 | 3.32 | 3.69 | 2.3 | |
| | | , | 9:52 | 3.6 | 1.0 | 30.53 | | 9.55 | | 14.17 | | 109.30 | | 7.58 | | 4.05 | | 2.1 | |
| | 13/7/2022 | Sunny | 10:07 | 4.0 | 1.0 | 29.87 | 29.86 | 9.50 | 9.50 | 17.31 | 17.52 | 120.60 | 114.70 | 8.31 | 7.90 | 6.17 | 5 59 | 2.3 | |
| | | , | 10:08 | 4.0 | 1.0 | 29.84 | | 9.49 | | 17.73 | | 108.80 | | 7.48 | | 5.00 | | 2.2 | ! |
| SR4 | 15/7/2022 | Sunny | 13:01 | 4.2 | 1.0 | 30.18 | 30.19 | 9.22 | 9.27 | 19.58 | 19.56 | 114.40 | 113.85 | 7.75 | 7.71 | 4.78 | 4.71 | 2.3 | |
| | | , | 13:02 | 4.2 | 1.0 | 30.19 | | 9.31 | | 19.53 | | 113.30 | | 7.67 | | 4.63 | | 2.2 | |
| | 18/7/2022 | Cloudy | 12:55 | 4.1 | 1.0 | 30.26 | 30.25 | 8.92 | 8.86 | 21.33 | 21 40 | 114.20 | 114.20 | 7.65 | 7.65 | 8.75 | 8.46 | 6.3 | |
| | | , | 12:56 | 4.1 | 1.0 | 30.24 | | 8.80 | | 21.47 | | 114.20 | | 7.64 | | 8.17 | | 6.7 | |
| | 20/7/2022 | Sunny | 14:08 | 3.6 | 1.0 | 30.48 | 30.48 | 9.12 | 9 12 | 19.92 | 20.01 | 109.50 | 110.80 | 7.36 | 7.45 | 4.81 | 4 78 | 2.8 | |
| | | , | 14:09 | 3.6 | 1.0 | 30.47 | | 9.12 | **** | 20.09 | | 112.10 | | 7.53 | | 4.75 | | 2.5 | |
| | 22/7/2022 | Sunny | 9:41 | 3.2 | 1.0 | 30.36 | 30.37 | 9.46 | | 21.20 | 21.30 | 115.50 | 115.45 | 7.73 | 7.72 | 6.09 | 6.00 | 4.0 | |
| | | , | 9:42 | 3.2 | 1.0 | 30.38 | | 9.32 | | 21.39 | | 115.40 | | 7.71 | | 5.90 | | 3.8 | |
| | 25/7/2022 | Sunny | 9:47 | 3.5 | 1.0 | 31.63 | 31.63 | 9.42 | 9.40 | 19.71 | 19 79 | 116.80 | 110.85 | 7.71 | 7.32 | 4.73 | 4 29 | 3.0 | 1 2 |
| | LOTTEGEL | Curiny | 9:48 | 3.5 | 1.0 | 31.62 | 01.00 | 9.37 | 5.40 | 19.86 | 10.70 | 104.90 | 110.00 | 6.92 | 7.02 | 3.84 | 4.20 | 2.7 | ' |
| | 27/7/2022 | Sunny | 9:44 | 3.8 | 1.0 | 30.58 | 30.57 | 9.38 | | 20.50 | 20.56 | 118.60 | 110.70 | 7.93 | 7.41 | 4.46 | 4.29 | 3.4 | |
| | E022 | | 9:45 | 3.8 | 1.0 | 30.56 | 50.01 | 9.38 | 0.00 | 20.62 | _0.00 | 102.80 | | 6.88 | 7.41 | 4.11 | 4.20 | 3.2 | : ` |
| | 29/7/2022 | Sunny | 9:48 | 3.9 | 1.0 | 29.90 | 29.92 | 9.47 | 9 45 | 23.84 | 23.92 | 119.90 | 119.50 | 7.96 | 7.93 | 4.64 | 4 40 | 2.6 | |
| | 20,7,2022 | Culliny | 9:49 | 3.9 | 1.0 | 29.93 | 20.02 | 9.43 | 9.45 | 23.99 | 20.02 | 119.10 | | 7.90 | 1.55 | 4.15 | 4.40 | 2.6 | |

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

| Station Reference | Sampling | Weather | Sampling | Water Depth | Sampling Depth | | erature C | F | Н | Sali | , | | turation | | 00 | | bidity | | SS |
|-------------------|-----------|-----------------------------|--------------|----------------|-------------------|-------|--------------|-------|---------|----------------|---------------|------------|----------|--------------|------------|-------|--------|-------|-------------|
| Station Reference | Date | vveatriei | Time | | - ' | Value | AVG | Value | AVG | Value | AVG | | % AVG | Value | g/L AVG | Value | AVG | Value | ng/L AVG |
| | | | | m | m | value | AVG | value | AVG | value | AVG | value | AVG | value | AVG | value | AVG | value | AVG |
| | 2/7/2022 | T8 | | | | | | | Samplin | g was cance | lled due to a | dverse wea | ther | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cance | lled due to a | dverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 10:02 | 3.3 | 1.0 | 28.25 | 28.26 | 8.94 | 9.00 | 14.92 | 14.89 | 118.70 | 118.55 | 8.52 | 8.51 | 6.78 | | , 2.4 | |
| | | , | 10:03 | 3.3 | 1.0 | 28.26 | | 9.06 | | 14.85 | | 118.40 | | 8.50 | | 6.15 | | 2.3 | |
| | 8/7/2022 | Cloudy | 10:19 | 3.5 | 1.0 | 28.95 | 28.95 | 9.17 | 9.08 | 8.35 | 8.32 | 120.90 | 120.60 | 8.89 | 8.87 | 7.05 | | 2.3 | |
| | | - | 10:20 | 3.5 | 1.0 | 28.94 | | 8.99 | | 8.28 | | 120.30 | | 8.85 | | 6.70 | | 2.1 | |
| | 11/7/2022 | Sunny | 12:53 | 3.6 | 1.0 | 30.70 | 30.67 | 9.76 | 9.73 | 12.41 | 12.51 | 114.20 | 113.90 | 7.97 | 7.95 | 5.85 | | 4.2 | |
| | | | 12:54 | 3.6 | 1.0 | 30.64 | | 9.70 | | 12.61 | | 113.60 | | 7.92 | | 5.26 | | 4.4 | |
| | 13/7/2022 | Sunny | 12:56 | 3.8 | 1.0 | 30.63 | 30.53 | 9.40 | 9.41 | 15.97 | 15.98 | 113.70 | 113.55 | 7.79 | 7.80 | 2.88 | | 1.2 | |
| | | | 12:57 | 3.8 | 1.0 | 30.43 | | 9.42 | | 15.99 | | 113.40 | | 7.80 | | 2.95 | | 2.0 | |
| SR4 | 15/7/2022 | Sunny | 9:45 9:46 | 4.2 | 1.0 | 29.72 | 29.75 | 9.32 | 9.31 | 19.84 19.79 | 19.82 | 122.40 | 119.45 | 8.33 7.93 | 8.13 | 3.70 | | 1.2 | |
| | | | 9:46 | 3.6 | 1.0 | 29.78 | | 9.30 | | 21.78 | | 122.40 | | 7.93 8.31 | | 5.71 | | . 2.9 | |
| | 18/7/2022 | Cloudy | 9:56 | 3.6 | 1.0 | 29.26 | 29.29 | 8.92 | 8.98 | 21.76 | 21.80 | 121.60 | 122.00 | 8.25 | 8.28 | 5.63 | 5.67 | 3.2 | |
| | | | 11:40 | 3.2 | 1.0 | 30.15 | | 8.96 | | 20.60 | | 119.50 | | 8.05 | | 3.97 | | 1.0 | |
| | 20/7/2022 | Sunny | 11:41 | 3.2 | 1.0 | 30.11 | 30.13 | 8.96 | 8.96 | 20.69 | 20.65 | 118.60 | 119.05 | 7.99 | 8.02 | 3.46 | 3.72 | 1.8 | |
| | | | 12:57 | 3.1 | 1.0 | 31.76 | | 9.46 | | 19.43 | | 114.40 | | 7.55 | | 6.95 | | 2.0 | |
| | 22/7/2022 | Sunny | 12:58 | 3.1 | 1.0 | 31.70 | 31.73 | 9.42 | 9.44 | 19.72 | 19.58 | 109.00 | 111.70 | 7.19 | 7.37 | 5.20 | | 3.5 | |
| | | | 12:59 | 3.2 | 1.0 | 32.58 | | 9.26 | | 19.74 | | 97.20 | | 6.32 | | 4.77 | | 2.0 | |
| | 25/7/2022 | Sunny | 13:00 | 3.2 | 1.0 | 32.68 | 32.63 | 9.18 | 9.22 | 19.84 | 19.79 | 105.50 | 101.35 | 6.85 | 6.59 | 3.66 | 4.22 | 3.2 | |
| | 07/70000 | | 12:53 | 3.3 | 1.0 | 31.26 | 31 22 | 9.22 | 9.21 | 20.27 | 20.30 | 113.90 | 400.70 | 7.54 | 7 27 | 5.23 | 4 68 | 3.6 | 3.5 |
| | 27/72022 | Sunny | 12:54 | 3.3 | 1.0 | 31.18 | 31.22 | 9.19 | 9.21 | 20.33 | 20.30 | 105.50 | 109.70 | 7.00 | 7.27 | 4.12 | 4.68 | 3.3 | 3.5 |
| | 29/7/2022 | Sunny | 12:53 | 3.7 | 1.0 | 31.19 | 31.22 | 9.22 | 9.18 | 23.67 | 23.69 | 103.60 | 101.95 | 6.75 | 6.64 | 5.98 | 5.19 | 4.2 | 2 4.3 |
| | 29/1/2022 | Suriny | 12:54 | 3.7 | 1.0 | 31.25 | 31.22 | 9.14 | 9.10 | 23.71 | 23.09 | 100.30 | 101.95 | 6.52 | 0.04 | 4.40 | 5.18 | 4.3 | 3 |

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

| Station Reference | Sampling | Weather | Sampling | Water Depth | Sampling Depth | | erature C | ı | Н | | linity | | aturation | | 00 | | bidity | | SS |
|-------------------|-----------|-----------------------------|----------|----------------|-------------------|-------|--------------|-------|---------|-------------|--------------|-------------|-----------|-------|------|-------|--------|-------|-----|
| Station Reference | Date | vveatner | Time | | | | - | | - | | pt | | % | | ng/L | | TU | | g/L |
| | | | | m | m | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | T8 | | | | | | | Samplin | g was cance | elled due to | adverse wea | ather | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cance | elled due to | adverse wea | ather | | | | | | |
| | 6/7/2022 | Sunny | 12:58 | 4.0 | 3.0 | 28.50 | 28.51 | 8.88 | 8.90 | 14.15 | 14.53 | 113.40 | 113.40 | 8.12 | | 5.90 | 5.85 | 1.8 | |
| | O///LOZZ | Curiny | 12:59 | 4.0 | 3.0 | 28.52 | 20.01 | 8.91 | 0.00 | 14.91 | 14.00 | 113.40 | 110.40 | 8.10 | **** | 5.80 | | 2.2 | |
| | 8/7/2022 | Cloudy | 9:53 | 3.6 | 2.6 | 29.01 | 28 97 | 9.14 | 9 12 | 13.75 | 13.87 | 114.00 | 113.90 | 8.13 | 8.12 | 7.36 | 6.47 | 3.0 | 2.9 |
| | GIIZOZZ | Oloudy | 13:03 | 3.5 | 2.5 | 28.92 | 20.01 | 9.10 | 0.12 | 13.98 | 10.01 | 113.80 | 110.00 | 8.11 | 0.12 | 5.57 | 0.41 | 2.7 | |
| | 11/7/2022 | Sunny | 9:53 | 3.6 | 2.6 | 30.14 | 30 11 | 9.61 | 9.54 | 15.84 | 15.99 | 118.60 | 117.95 | 8.20 | 8.16 | 4.44 | 3.67 | <1.0 | 1.0 |
| | TITTLOLL | Guiniy | 9:54 | 3.6 | 2.6 | 30.07 | 00.11 | 9.46 | 0.04 | 16.13 | 10.00 | 117.30 | 117.50 | 8.11 | 0.10 | 2.89 | 0.01 | <1.0 | |
| | 13/7/2022 | Sunny | 10:10 | 4.0 | 3.0 | 29.69 | 29.68 | 9.37 | 9.38 | 18.66 | 18 69 | 119.90 | 119 60 | 8.22 | 8.20 | 3.74 | 3.74 | 1.3 | 1.3 |
| | TOTTLOLL | Curiny | 10:11 | 4.0 | 3.0 | 29.66 | 20.00 | 9.38 | 0.00 | 18.71 | 10.00 | 119.30 | 110.00 | 8.18 | | 3.73 | 0.74 | 1.2 | |
| SR4 | 15/7/2022 | Sunny | 13:04 | 4.1 | 3.2 | 29.87 | 29.82 | 9.25 | 9 11 | 20.22 | 20.34 | 114.50 | 114.55 | 7.76 | 7 77 | 6.34 | 5.96 | 1.3 | 1.3 |
| 0114 | TOTTEGEE | Guiniy | 13:05 | 4.2 | 3.2 | 29.76 | 20.02 | 8.97 | 0.11 | 20.46 | 20.04 | 114.60 | 114.00 | 7.77 | 7.77 | 5.58 | 0.00 | 1.2 | 1.0 |
| | 18/7/2022 | Cloudy | 12:58 | 4.1 | 3.1 | 29.58 | 29.57 | 8.99 | 8 99 | 21.80 | 21.73 | 116.60 | 116.00 | 7.87 | 7.84 | 5.47 | 5 10 | 5.0 | 5.2 |
| | TOTTLOLL | Oloudy | 12:59 | 4.1 | 3.1 | 29.55 | 20.01 | 8.98 | 0.00 | 21.66 | 21.70 | 115.40 | 110.00 | 7.80 | 7.04 | 4.73 | 0.10 | 5.3 | |
| | 20/7/2022 | Sunny | 14:10 | 3.6 | 2.6 | 30.48 | 30.48 | 9.21 | 9.21 | 19.95 | 19.95 | 113.30 | 113.30 | 7.62 | 7.62 | 4.62 | 4 68 | 3.0 | 3.2 |
| | LOTTEGEE | Guiniy | 14:11 | 3.6 | 2.6 | 30.48 | 00.40 | 9.21 | 0.21 | 19.95 | 10.00 | 113.30 | 110.00 | 7.62 | 7.02 | 4.73 | 4.00 | 3.3 | 0.2 |
| | 22/7/2022 | Sunny | 9:43 | 3.2 | 2.2 | 30.10 | 30.09 | 9.34 | 9.30 | 21.72 | 21.80 | 117.40 | 116.85 | 7.86 | | 5.95 | 5.43 | 2.7 | |
| | LLITTEOLL | Guiniy | 9:44 | 3.2 | 2.2 | 30.08 | 00.00 | 9.25 | 0.00 | 21.88 | 21.00 | 116.30 | 110.00 | 7.78 | 7.02 | 4.91 | 0.40 | 2.4 | |
| | 25/7/2022 | Sunny | 9:49 | 3.5 | 2.5 | 31.54 | 31.50 | 9.50 | 9.39 | 20.32 | 20.48 | 117.10 | 106.70 | 7.72 | 7 04 | 4.70 | 4.89 | 1.7 | |
| | LOTTEGEE | Guiniy | 9:50 | 3.5 | 2.5 | 31.46 | 01.00 | 9.27 | 0.00 | 20.63 | 20.40 | 96.30 | 100.70 | 6.35 | 7.04 | 5.08 | 4.00 | 1.5 | 1.0 |
| | 27/7/2022 | Sunny | 9:46 | 3.8 | 2.8 | 29.66 | 29.53 | 9.35 | 9.25 | 24.27 | 24.64 | 99.10 | 99.60 | 6.59 | | 5.61 | 5.01 | 6.3 | |
| | 211112022 | Culliy | 9:47 | 3.8 | 2.8 | 29.40 | 28.55 | 9.15 | 9.23 | 25.01 | 24.04 | 100.10 | 35.00 | 6.66 | 0.03 | 4.40 | 3.01 | 6.0 | 0.1 |
| | 29/7/2022 | Sunny | 9:50 | 3.9 | 2.9 | 30.05 | 30.09 | 9.47 | 9.44 | 23.71 | 24.00 | 118.50 | 115.00 | 7.86 | 7.61 | 4.72 | 4 40 | 3.4 | 3.6 |
| | 20,7,2022 | Culliny | 9:51 | 3.9 | 2.9 | 30.12 | 30.05 | 9.40 | 3.44 | 24.29 | 24.00 | 111.50 | . 15.00 | 7.36 | 7.01 | 4.07 | 4.40 | 3.8 | 0.0 |

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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Lam Environmental Services Limited

Contract No. NE/2017/03 Development of Anderson Road Quarry Site Road Improvement Works

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

| | Sampling | | Sampling | Water | Sampling | | erature | F | Н | Sa | linity | | turation | | 00 | | bidity | | SS |
|-------------------|-----------|-----------------------------|----------------|-------|----------|----------------|---------|--------------|---------|----------------|--------------|------------------|----------|--------------|------|--------------|--------|------------|------|
| Station Reference | Date | Weather | Time | Depth | Depth | ٩ | | | - | | pt | | % | | g/L | | TU | | ng/L |
| | | | | m | m | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | Т8 | | | | | | | Samplin | g was cano | elled due to | adverse wea | ther | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cano | elled due to | adverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 10:04 | 3.3 | 2.3 | 28.17 28.18 | 28.18 | 9.12 | 9.08 | 14.93 15.31 | 15.12 | 118.40 | 118.20 | 8.51 8.46 | 8.49 | 6.53 5.76 | 6.15 | 5.6 5.4 | |
| | | | 10:21 | 3.5 | 2.5 | 28.95 | | 9.14 | | 11.58 | | 120.20 | | 8.68 | | 5.80 | | 1.4 | |
| | 8/7/2022 | Cloudy | 10:22 | 3.5 | 2.5 | 28.98 | 28.97 | 9.06 | 9.10 | 11.85 | 11.72 | 106.00 | 113.10 | 7.64 | 8.16 | 5.41 | 5.61 | 1.2 | |
| | | _ | 12:55 | 3.6 | 2.6 | 30.63 | 30.58 | 9.80 | 9.75 | 12.61 | 12 65 | 114.90 | | 8.03 | 7.99 | 5.61 | 5.08 | 3.1 | 3.0 |
| | 11/7/2022 | Sunny | 12:56 | 3.6 | 2.6 | 30.52 | 30.58 | 9.69 | 9.75 | 12.69 | 12.65 | 113.70 | 114.30 | 7.95 | 7.99 | 4.55 | 5.08 | 2.8 | 3.0 |
| | 13/7/2022 | Sunnv | 12:58 | 3.8 | 2.8 | 30.24 | 30 19 | 9.52 | 9.50 | 16.49 | 16.53 | 115.10 | 114 45 | 7.92 | 7.88 | 3.93 | 3 11 | 1.8 | 1.7 |
| | 13/7/2022 | Suriny | 12:59 | 3.8 | 2.8 | 30.14 | 30.19 | 9.48 | 9.50 | 16.57 | 16.53 | 113.80 | 114.45 | 7.84 | 7.00 | 2.28 | 3.11 | 1.5 | |
| SR4 | 15/7/2022 | Sunny | 9:48 | 4.2 | 3.2 | 29.69 | 29.68 | 9.38 | 9.36 | 19.92 | 19.99 | 121.20 | 120.75 | 8.26 | 8.23 | 6.25 | 4.83 | 1.8 | 1.7 |
| 0114 | TOTTEGEE | Curry | 9:49 | 4.2 | 3.2 | 29.67 | 20.00 | 9.33 | 0.00 | 20.06 | 10.00 | 120.30 | 120.70 | 8.19 | 0.10 | 3.41 | 4.00 | 1.5 | i |
| | 18/7/2022 | Cloudy | 9:57 | 3.6 | 2.6 | 29.25 | 29 25 | 9.01 | 8.96 | 21.63 | 21.82 | 121.10 | 120.70 | 8.23 | 8 20 | 7.38 | 6.95 | 4.6 | |
| | | , | 9:58 | 3.6 | 2.6 | 29.24 | | 8.90 | 0.00 | 22.00 | | 120.30 | | 8.16 | | 6.51 | | 4.9 | |
| | 20/7/2022 | Sunny | 11:42 | 3.2 | 2.2 | 30.10 | 30.14 | 9.07 | 9.02 | 20.58 | 20.69 | 118.80 | 114.90 | 8.01 | 7.74 | 4.10 | 3.77 | 2.6 | |
| | | , | 11:43 | 3.2 | 2.2 | 30.18 | | 8.97 | | 20.79 | | 111.00 | | 7.47 | | 3.43 | | 2.8 | |
| | 22/7/2022 | Sunny | 12:59 | 3.1 | 2.1 | 31.77 | 31.68 | 9.42 | 9.42 | 19.52 | 19.62 | 118.10 | 118.35 | 7.79 | 7.82 | 4.96 | 5.45 | 4.8 | |
| | | | 13:00 | 3.1 | 2.1 | 31.58 | | 9.42 | | 19.71 | | 118.60 | | 7.84 | | 5.93 | | 4.6 | |
| | 25/7/2022 | Sunny | 13:01 | 3.2 | 2.2 | 32.72 | 32.66 | 9.20 | 9.20 | 19.39 | 19.50 | 112.60 | 111.15 | 7.32 | 7.23 | 3.94 | 3.81 | 4.1 | |
| | | | 13:02 | 3.2 | 2.2 | 32.60 | | 9.19 | | 19.60 | | 109.70 | | 7.14 | | 3.67 | | 4.5 | |
| | 27/72022 | Sunny | 12:55 | 3.3 | 2.3 | 30.98 | 30.91 | 9.27 | 9.27 | 20.74 | 20.83 | 100.40 | 105.20 | 6.67 | 6.99 | 4.28 | 4.23 | 2.6 | |
| | | | 12:56 | 3.3 | 2.3 | 30.83 | | 9.27 | | 20.92 | | 110.00 | | 7.31 | | 4.18 | - | | |
| | 29/7/2022 | Sunny | 12:55 12:56 | 3.7 | 2.7 | 31.29 31.37 | 31.33 | 9.27 9.14 | 9.21 | 23.63 23.65 | 23.64 | 102.20 103.20 | 102.70 | 6.64 | 6.67 | 5.21 4.06 | 4.64 | 3.4 | |

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

| | Sampling | | Sampling | Water | Sampling | Tempe | | F | Н | Salii | | | aturation | | 00 | | oidity | | SS |
|-------------------|-----------|-----------------------------|----------|-------|----------|-------|-------|-------|---------|--------------|--------------|------------|-----------|-------|------|-------|--------|-------|------|
| Station Reference | Date | Weather | Time | Depth | Depth | °C | | | | pr | | | % | | g/L | | TU | | ng/L |
| | | | | m | m | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | T8 | | | | | | | Samplin | g was cancel | led due to a | dverse wea | ather | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cancel | led due to a | dverse wea | ather | | | | | | |
| | 6/7/2022 | Sunny | 12:44 | 5.1 | 1.0 | 28.34 | 28.35 | 8.92 | 8.93 | 14.99 | 15.04 | 115.50 | 115.25 | 8.27 | 8.25 | 5.41 | 5.53 | 1.8 | |
| | OFFICEE | Cumy | 12:45 | 5.1 | 1.0 | 28.36 | 20.00 | 8.93 | 0.00 | 15.09 | 10.04 | 115.00 | 110.20 | 8.23 | 0.10 | 5.65 | 0.00 | 1.8 | |
| | 8/7/2022 | Cloudy | 10:05 | 4.4 | 1.0 | 29.40 | 29.42 | 9.21 | 9 19 | 8.94 | 8 99 | 104.70 | 101.60 | 7.61 | 7.38 | 7.60 | 7 10 | 4.6 | |
| | | , | 12:52 | 4.5 | 1.0 | 29.43 | | 9.16 | | 9.04 | | 98.50 | | 7.15 | | 6.60 | | 4.2 | |
| | 11/7/2022 | Sunny | 10:05 | 4.4 | 1.0 | 30.59 | 30.62 | 9.45 | 9.50 | 14.08 | 14.03 | 114.30 | 113.55 | 7.92 | 7.87 | 2.92 | 3.07 | 1.4 | |
| | | , | 10:06 | 4.4 | 1.0 | 30.65 | | 9.55 | | 13.97 | | 112.80 | | 7.81 | | 3.22 | | 1.3 | |
| | 13/7/2022 | Sunny | 10:17 | 4.8 | 1.0 | 29.95 | 29.95 | 9.51 | 9.52 | 16.15 | 16.08 | 117.60 | 115.25 | 8.14 | 7 99 | 4.65 | 4 47 | 1.2 | |
| | | | 10:18 | 4.8 | 1.0 | 29.94 | | 9.52 | | 16.00 | | 112.90 | | 7.83 | | 4.28 | | 1.4 | |
| SR5 | 15/7/2022 | Sunny | 12:49 | 5.1 | 1.0 | 30.05 | 30.07 | 9.18 | 9.21 | - | 19.71 | 114.30 | 113.85 | 7.75 | 7.72 | 6.55 | 6.27 | 1.2 | |
| | | | 12:50 | 5.1 | 1.0 | 30.08 | | 9.23 | | 19.71 | | 113.40 | | 7.68 | | 5.98 | | 1.4 | |
| | 18/7/2022 | Cloudy | 12:45 | 5.1 | 1.0 | 29.92 | 29.93 | 8.90 | 8.86 | 21.81 | 21.83 | 116.30 | 116.10 | 7.81 | 7.80 | 7.15 | 6.40 | 3.0 | |
| | | , | 12:46 | 5.1 | 1.0 | 29.93 | | 8.82 | 0.00 | 21.84 | | 115.90 | | 7.78 | | 5.64 | | 3.4 | |
| | 20/7/2022 | Sunny | 13:58 | 4.8 | 1.0 | 30.41 | 30.44 | 9.04 | 9.10 | 19.95 | 19.91 | 113.10 | 112.35 | 7.61 | 7.56 | 5.29 | 4.80 | 2.9 | |
| | | | 13:59 | 4.8 | 1.0 | 30.46 | | 9.15 | | 19.86 | | 111.60 | | 7.50 | | 4.30 | | 3.2 | |
| | 22/7/2022 | Sunny | 9:51 | 3.8 | 1.0 | 30.54 | 30.56 | 9.27 | 9.26 | 21.02 | 21.18 | 114.80 | 114.60 | 7.67 | 7.65 | 6.28 | 6.71 | 4.0 | |
| | | | 9:52 | 3.8 | 1.0 | 30.57 | | 9.24 | 0.20 | 21.33 | | 114.40 | | 7.62 | | 7.13 | | 3.6 | |
| | 25/7/2022 | Sunny | 10:02 | 4.4 | 1.0 | 30.68 | 30 64 | 9.25 | 9 16 | 22.49 | 22 93 | 111.30 | 113.90 | 7.35 | 7.51 | 4.64 | 4 27 | 2.7 | |
| | | , | 10:03 | 4.4 | 1.0 | 30.60 | | 9.06 | | 23.37 | | 116.50 | | 7.67 | | 3.90 | | 3.1 | |
| | 27/7/2022 | Sunny | 9:54 | 4.9 | 1.0 | 30.61 | 30.72 | 9.28 | 9.37 | 20.88 | 20.96 | 111.00 | 104.95 | 7.41 | 6.99 | 5.15 | 4.61 | 4.1 | |
| | | 2211119 | 9:55 | 4.9 | 1.0 | 30.82 | 50.72 | 9.46 | 0.07 | 21.04 | _0.00 | 98.90 | . 54.00 | 6.57 | 0.00 | 4.06 | 4.01 | 4.4 | |
| | 29/7/2022 | Sunny | 9:59 | 4.9 | 1.0 | 30.46 | 30.50 | 9.43 | 9.44 | 23.35 | 23.51 | 116.50 | 62.70 | 7.69 | 7.10 | 5.23 | 4.81 | 2.5 | |
| | | | 10:00 | 4.9 | 1.0 | 30.54 | 20.00 | 9.45 | 0.44 | 23.67 | _0.01 | 8.90 | 32.70 | 6.51 | 1 | 4.39 | 4.01 | 2.3 | 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 SR5 (surface) - Flood Tide

| Station Reference | Sampling | Weather | Sampling | Water Depth | Sampling Depth | | erature C | F | Н | | inity | | turation | | 00 | | bidity | | SS |
|-------------------|-----------|---------------------------------------|----------|----------------|-------------------|-------|--------------|-------|----------|-------------|----------------|--------------|----------|-------|------------|-------|-----------|-------|-------------|
| Station Reference | Date | vveatner | Time | m | m | | AVG | Value | AVG | | pt AVG | | % AVG | Value | g/L AVG | Value | TU AVG | Value | ng/L AVG |
| | 2/7/2022 | T8 | | | | value | AVO | value | | | elled due to a | | | value | AVO | value | AVO | value | AVO |
| | DIVEOLE | | | | | | | | Oumpiiii | g mas cance | anda add to t | JUVOI DO MOC | m roi | | | | | | |
| | 4/7/2022 | Monsoon Signal | | | | | | | Samplin | g was cance | elled due to a | adverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 10:12 | 4.3 | 1.0 | 28.25 | 28 25 | 9.23 | 9 10 | 15.41 | 15.34 | 116.90 | 116.80 | 8.38 | 8.37 | 6.17 | 5.64 | 2.2 | 2. |
| | 0///2022 | Suriny | 10:13 | 4.3 | 1.0 | 28.24 | 20.23 | 8.97 | 3.10 | 15.27 | 13.34 | 116.70 | 110.00 | 8.35 | 0.57 | 5.11 | 3.04 | 2.4 | |
| | 8/7/2022 | Cloudy | 10:27 | 4.0 | 1.0 | 28.93 | 28.93 | 9.02 | 9.00 | 8.48 | 8 45 | 118.30 | 106.50 | 8.69 | 7.83 | 7.21 | 6.39 | 2.3 | 2. |
| | 0/1/2022 | Cioudy | 10:28 | 4.0 | 1.0 | 28.92 | 20.53 | 8.97 | 3.00 | 8.41 | 0.40 | 94.70 | 100.30 | 6.96 | 7.03 | 5.56 | 0.55 | 2.5 | - |
| | 11/7/2022 | Sunny | 12:44 | 3.8 | 1.0 | 30.62 | 30.63 | 9.67 | 9.68 | 12.69 | 12.72 | 113.00 | 112.75 | 7.90 | 7.87 | 5.81 | 5.40 | 3.5 | 3. |
| | TITTLOEE | Guiniy | 12:45 | 3.8 | 1.0 | 30.64 | 00.00 | 9.69 | 0.00 | 12.74 | 12.72 | 112.50 | 112.70 | 7.84 | 7.07 | 4.98 | 0.40 | 3.1 | |
| | 13/7/2022 | Sunny | 12:46 | 4.5 | 1.0 | 30.49 | 30.50 | 9.46 | 9.39 | 15.88 | 15.95 | 111.40 | 111 90 | 7.65 | 7.68 | 4.17 | 3.83 | 1.3 | 1. |
| | | · · · · · · · · · · · · · · · · · · · | 12:47 | 4.5 | 1.0 | 30.51 | | 9.32 | 0.00 | 16.02 | | 112.40 | | 7.71 | | 3.48 | | 1.4 | |
| SR5 | 15/7/2022 | Sunny | 9:54 | 5.0 | 1.0 | 29.74 | 29.74 | 9.32 | 9.29 | 19.27 | 19.61 | 118.70 | 118.35 | 8.09 | 8.06 | 5.47 | 4.72 | 1.3 | 1. |
| 0110 | TOTTLOLL | Curiny | 9:55 | 5.0 | 1.0 | 29.74 | 20.74 | 9.25 | 0.20 | 19.95 | 10.01 | 118.00 | 110.00 | 8.03 | 0.00 | 3.96 | 4.72 | 1.4 | |
| | 18/7/2022 | Cloudy | 10:05 | 4.8 | 1.0 | 29.54 | 29.58 | 9.07 | 9.08 | 21.71 | 21 79 | 118.10 | 117 85 | 7.98 | 7.96 | 5.66 | 5 45 | 3.2 | |
| | | , | 10:06 | 4.8 | 1.0 | 29.62 | | 9.09 | | 21.86 | | 117.60 | | 7.93 | | 5.24 | | 3.2 | - |
| | 20/7/2022 | Sunny | 11:51 | 4.3 | 1.0 | 30.39 | 30.41 | 9.11 | 9.02 | 20.12 | 20.17 | 115.70 | 115.45 | 7.78 | 7.76 | 4.53 | 4.27 | 1.7 | |
| | | , | 11:52 | 4.3 | 1.0 | 30.42 | | 8.92 | | 20.22 | | 115.20 | | 7.74 | | 4.01 | | 1.5 | |
| | 22/7/2022 | Sunny | 12:47 | 3.7 | 1.0 | 31.36 | 31.33 | 9.12 | 9.28 | 19.63 | 19.66 | 112.50 | 112 40 | 7.49 | 7 47 | 6.15 | 5.61 | 3.8 | |
| | | , | 12:48 | 3.7 | 1.0 | 31.29 | | 9.43 | 0.20 | 19.69 | | 112.30 | | 7.45 | | 5.07 | | 3.8 | |
| | 25/7/2022 | Sunny | 12:51 | 3.9 | 1.0 | 31.76 | 31.82 | 8.84 | 9.01 | 20.92 | 20.80 | 101.80 | 103.00 | 6.66 | 6.74 | 5.80 | 4 93 | 2.7 | |
| | LOTTEGEL | Curiny | 12:52 | 3.9 | 1.0 | 31.87 | 01.02 | 9.18 | 0.01 | 20.68 | 20.00 | 104.20 | 100.00 | 6.82 | 0.74 | 4.05 | 4.55 | 2.4 | |
| | 27/72022 | Sunny | 12:43 | 4.3 | 1.0 | 30.99 | 31.08 | 8.97 | 9 10 | 20.19 | 20.58 | 99.10 | 96.95 | 6.57 | 6.42 | 5.75 | 5.00 | 4.4 | |
| | | - Linny | 12:44 | 4.3 | 1.0 | 31.17 | 31.00 | 9.23 | 0.10 | 20.96 | _0.00 | 94.80 | 30.00 | 6.27 | 0.42 | 4.24 | 0.00 | 4.2 | |
| | 29/7/2022 | Sunny | 12:44 | 4.7 | 1.0 | 30.83 | 30.82 | 9.24 | 9.21 | 23.62 | 23.85 | 111.40 | 106.10 | 7.29 | 6.94 | 6.47 | 5.61 | 1.6 | |
| | EOLL | | 12:45 | 4.7 | 1.0 | 30.80 | 30.02 | 9.18 | 0.21 | 24.08 | _0.00 | 100.80 | . 50.10 | 6.59 | 0.54 | 4.75 | 0.01 | 1.9 | 1.0 |

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

| Station Reference | Sampling | Weather | Sampling | Water Depth | Sampling Depth | | erature C | ſ | Н | | linity | | turation | | 00 | | bidity | | SS |
|-------------------|-----------|-----------------------------|----------------|----------------|-------------------|----------------|--------------|--------------|---------|----------------|--------------|------------------|----------|---------------|------------|--------------|-----------|-------|-------------|
| Station Reference | Date | vveaurer | Time | m | m | Value | AVG | Value | AVG | Value | pt AVG | Value | % AVG | Value | g/L AVG | Value | TU AVG | Value | ng/L AVG |
| | 2/7/2022 | Т8 | | | | Value | ,,,, | value | | | elled due to | | | Value | ,,,,, | Value | ,,,, | value | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cano | elled due to | adverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 12:48 12:49 | 5.1 5.1 | 4.1 4.1 | 28.37 28.36 | 28.37 | 9.04 8.91 | 8.98 | 15.17 15.20 | 15.19 | 115.00 114.50 | 114.75 | 8.22 8.19 | | 6.09 5.28 | 5.69 | 2.2 | |
| | 8/7/2022 | Cloudy | 12:54 12:55 | 4.5 4.5 | 3.5 3.5 | 29.36 29.18 | 29.27 | 9.27 | 9.18 | 9.84 | 9.89 | 113.30 | 113.25 | 8.20 8.21 | 8.21 | 11.40 | 8.85 | 3.5 | |
| | 11/7/2022 | Sunny | 10:08 | 4.4 | 3.4 | 30.54 30.49 | 30.52 | 9.54 9.55 | 9.55 | 15.00 15.14 | 15.07 | 116.30 115.60 | 115.95 | 8.02. 7.98 | 7.98 | 9.99 | 6.44 | 2.2 | |
| | 13/7/2022 | Sunny | 10:20 10:21 | 4.8 | 3.8 4.1 | 29.89 29.86 | 29.88 | 9.56 9.54 | 9.55 | 17.32 17.55 | 17.44 | 117.40 | 117.20 | 8.08 | 8.07 | 7.47 4.13 | 5.80 | 1.6 | |
| SR5 | 15/7/2022 | Sunny | 12:53 12:54 | 5.1 | 4.1 | 29.86 29.79 | 29.83 | 9.23 | 9.15 | 20.32 | 20.33 | 114.30 114.20 | 114.25 | 7.74 | 7.75 | 6.25 | 6.21 | 1.6 | 17 |
| | 18/7/2022 | Cloudy | 12:49 | 5.1 | 4.1 | 29.86 | 29.86 | 8.87 | 8.84 | 21.86 | 21.94 | 116.00 | 115.75 | 7.79 | 7 77 | 6.76 5.76 | 6.26 | 4.6 | 4.5 |
| | 20/7/2022 | Sunny | 14:01 | 4.8 | 3.8 | 30.33 | 30.31 | 9.15 | 9.12 | 19.92 | 20.10 | 114.00 | 113.25 | 7.68 | 7.63 | 4.65 3.92 | 4 29 | 2.7 | 3.7 |
| | 22/7/2022 | Sunny | 9:53 9:54 | 3.8 | 2.8 | 29.97 30.01 | 29.99 | 9.13 9.10 | 9.12 | 22.63 22.64 | 22.64 | 115.80 115.10 | 115.45 | 7.74 7.68 | 7.71 | 3.37 3.36 | 3.37 | 1.8 | |
| | 25/7/2022 | Sunny | 10:05 10:06 | 4.4 | 3.4 | 30.10 30.07 | 30.09 | 9.11 8.87 | 8.99 | 24.02 24.26 | 24.14 | 100.50 115.90 | 108.20 | 6.64 7.66 | 7.15 | 3.82 | 3.83 | 2.2 | |
| | 27/7/2022 | Sunny | 9:57 9:58 | 4.9 4.9 | 3.9 3.9 | 30.55 30.49 | 30.52 | 9.43 9.43 | 9.43 | 21.11 22.46 | 21.79 | 110.50 102.60 | 106.55 | 7.33 6.80 | 7.07 | 6.11 4.14 | 5.13 | 2.6 | |
| | 29/7/2022 | Sunny | 10:02 10:03 | 4.9 4.9 | 3.9 3.9 | 30.58 30.63 | 30.61 | 9.56 9.45 | 9.51 | 23.47 23.64 | 23.56 | 115.20 115.40 | 115.30 | 7.58 7.58 | 7.58 | 7.63 4.65 | 6.14 | 3.2 | |

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

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Lam Environmental Services Limited

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

| | Sampling | | Sampling | Water | Sampling | Tempe | | р | Н | Salir | nity | DO Sa | turation | | 00 | Turl | bidity | | SS |
|-------------------|-----------|-----------------------------|----------------|-------|----------|----------------|-------|-------|---------|----------------|--------------|-------------|----------|--------------|------|--------------|--------|-------|------|
| Station Reference | Date | Weather | Time | Depth | Depth | °C | | | - | pp | | | % | | ıg/L | | TU | | ng/L |
| | Duto | | 11110 | m | m | Value | AVG | Value | AVG | Value / | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | Т8 | | | | | | | Samplin | g was cancell | led due to a | dverse wea | ther | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cancell | led due to a | adverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 10:15 10:16 | 4.3 | 3.3 | 28.22 | 28.23 | 9.07 | 9.05 | 15.03 15.28 | 15.16 | 116.60 | 116.45 | 8.37 8.33 | 8.35 | 5.54 5.24 | 5.39 | 1.5 | |
| | | | 10:30 | 4.0 | 3.0 | 28.92 | | 9.10 | | 11.09 | | 117.70 | | 8.53 | | 6.31 | | 2.9 | |
| | 8/7/2022 | Cloudy | 10:31 | 4.0 | 3.0 | 28.90 | 28.91 | 9.01 | 9.06 | 11.43 | 11.26 | 117.50 | 117.60 | 8.50 | 8.52 | 5.31 | 5.81 | 3.2 | |
| | 11/7/2022 | Sunny | 12:46 | 3.8 | 2.8 | 30.71 | 30.70 | 9.72 | 9.73 | 12.71 | 12 71 | 115.00 | 108 65 | 8.01 | 7.57 | 4.90 | 4 92 | 2.5 | 5 2 |
| | 11///2022 | Sunny | 12:47 | 3.8 | 2.8 | 30.68 | 30.70 | 9.73 | 9.73 | 12.70 | 12./1 | 102.30 | 108.65 | 7.13 | 7.57 | 4.94 | 4.92 | 2.6 | 3 |
| | 13/7/2022 | Sunny | 12:49 | 4.5 | 3.5 | 30.41 | 30.39 | 9.52 | 9 44 | 16.69 | 16.77 | 113.90 | 113.55 | 7.80 | 7 78 | 3.99 | 3.53 | 2.2 | 2 2 |
| | TOTTEDEE | Curiny | 12:50 | 4.5 | 3.5 | 30.36 | 00.00 | 9.36 | 0.44 | 16.84 | 10.77 | 113.20 | 110.00 | 7.76 | 7.70 | 3.06 | 0.00 | 2.1 | 1 |
| SR5 | 15/7/2022 | Sunny | 9:58 | 5.0 | 4.0 | 29.75 | 29.75 | 9.31 | 9.30 | 19.84 | 20.07 | 118.30 | 118.10 | 8.05 | 8.03 | 6.16 | 5.12 | 2.2 | |
| | | , | 9:59 | 5.0 | 4.0 | 29.74 | | 9.28 | | 20.30 | | 117.90 | | 8.01 | | 4.08 | · | 2.1 | |
| | 18/7/2022 | Cloudy | 10:08 | 4.8 | 3.8 | 29.46 | 29.48 | 9.09 | 9.02 | 21.81 | 21.79 | 102.96 | 108.13 | 6.96 | 7.31 | 6.05 | 5.38 | 3.2 | |
| | | | 10:09 | 4.8 | 3.8 | 29.49 | | 8.94 | | 21.77 | | 113.30 | | 7.66 | | 4.71 | | 3.2 | |
| | 20/7/2022 | Sunny | 11:54 | 4.3 | 3.3 | 30.45 | 30.47 | 9.05 | 9.07 | 20.20 | 20.28 | 109.30 | 107.60 | 7.34 | 7.22 | 4.42 | 3.96 | 3.2 | |
| | | - | 11:55 | 4.3 | 3.3 | 30.48 | | 9.08 | | 20.35 | | 105.90 | | 7.10 | | 3.50 | | 2.8 | |
| | 22/7/2022 | Sunny | 12:49 | 3.7 | 2.7 | 31.37 | 31.34 | 9.50 | 9.46 | 20.06 | 20.17 | 114.50 | 110.75 | 7.58 | 7.33 | 6.58 | 6.33 | 4.5 | |
| | | | 12:50 | 3.7 | 2.7 | 31.31 | | 9.42 | | 20.27 | | 107.00 | | 7.08 | | 6.08 | | 4.2 | |
| | 25/7/2022 | Sunny | 12:53 | 3.9 | 2.9 | 31.74 | 31.71 | 9.22 | 9.24 | 20.92 | 21.06 | 109.50 | 105.25 | 7.17 | 6.89 | 6.83 | 6.01 | 3.6 | |
| | | | 12:54 | 3.9 | 2.9 | 31.68 | | 9.25 | | 21.19 | | 101.00 | | 6.61 | | 5.18 | | 3.9 | |
| | 27/72022 | Sunny | 12:46 12:47 | 4.3 | 3.3 | 31.39 31.38 | 31.39 | 9.38 | 9.34 | 20.48 | 20.56 | 107.50 | 104.15 | 7.10 6.65 | 6.88 | 5.66 3.82 | 4.74 | 3.5 | |
| | | | 12:47 | 4.7 | 3.7 | 30.53 | | 9.29 | | 23.74 | | 103.90 | | 6.83 | | 5.25 | | 2.2 | |
| | 29/7/2022 | Sunny | 12:47 | 4.7 | 3.7 | 30.53 | 30.52 | 9.18 | 9.14 | 23.74 | 23.37 | 97.40 | 100.65 | 6.40 | 6.62 | 4.31 | 4.78 | 2.2 | |

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

| Station Reference | Sampling | Weather | Sampling | Water Depth | Sampling Depth | | erature C | ſ | Н | | linity | | aturation | | 00 | | bidity | | SS |
|-------------------|-----------|-----------------------------|----------------|----------------|-------------------|----------------|--------------|--------------|---------|----------------|--------------|------------------|-----------|--------------|------------|--------------|-----------|--------------|-------------|
| Station Reference | Date | vveautei | Time | m | m | Value | AVG | Value | AVG | Value | pt AVG | Value | % AVG | Value | g/L AVG | Value N | TU AVG | Value | ng/L AVG |
| | 2/7/2022 | Т8 | | | | | 1, | | | | | adverse wea | | | | | | | J |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was canc | elled due to | adverse wea | ather | | | | | | |
| | 6/7/2022 | Sunny | 12:35 12:36 | 2.9 | 1.5 | 29.11 | 29.10 | 9.09 | 9.05 | 14.74 | 14.72 | 111.60 112.60 | 112.10 | 7.90 7.97 | 7.94 | 6.08 5.76 | 5.92 | 2.8 | |
| | 8/7/2022 | Cloudy | 12:42 12:43 | 2.6 | 1.3 | 29.31 29.27 | 29.29 | 8.92 8.98 | 8.95 | 14.03 | 14.11 | 115.70 115.70 | 115.70 | 8.19 8.19 | | 7.13 7.22 | 7.18 | 5.0 5.2 | |
| | 11/7/2022 | Sunny | 10:20 | 2.9 | 1.5 | 30.84 | 30.83 | 9.58 9.59 | 9.59 | 13.05 12.85 | 12.95 | 116.90 115.50 | 116.20 | 8.11 8.03 | 8.07 | 2.76 2.48 | | 1.6 | |
| | 13/7/2022 | Sunny | 10:28 10:29 | 2.6 | 1.3 | 29.96 29.93 | 29.95 | 9.56 9.41 | 9.49 | 15.72 15.95 | 15.84 | 117.20 116.10 | 116.65 | 8.13 8.05 | 8.09 | 6.35 3.19 | 4.77 | <1.0 <1.0 | 1.0 |
| SR6 | 15/7/2022 | Sunny | 12:38 12:39 | 2.8 | 1.5 | 29.73 | 29.72 | 9.21 9.11 | 9.16 | 20.33 | 20.28 | 440.00 | 113.00 | 7.65 7.71 | 7.68 | 5.52 5.85 | 5.69 | -10 | 1.0 |
| | 18/7/2022 | Cloudy | 12:38 12:39 | 2.8 | 1.4 | 30.33 30.38 | 30.36 | 8.88 8.91 | 8.90 | 22.08 22.27 | 22.18 | 112.00 112.00 | 112.00 | 7.60 7.50 | 7.55 | 7.37 6.65 | 7.01 | 4.9 | |
| | 20/7/2022 | Sunny | 13:51 13:52 | 2.9 | 1.5 | 30.34 | 30.34 | 9.31 9.12 | 9.22 | 19.77 19.85 | 19.81 | 114.50 111.50 | 113.00 | 7.72 7.51 | | 3.77 | 3.69 | 2.4 | 22 |
| | 22/7/2022 | Sunny | 10:01 10:02 | 2.9 | 1.5 1.5 | 30.63 30.71 | 30.67 | 9.44 9.57 | 9.51 | 20.16 20.22 | 20.19 | 115.40 113.60 | 114.50 | 7.22 7.59 | | 6.82 4.90 | 5.86 | 3.3 3.5 | |
| | 25/7/2022 | Sunny | 10:12 10:13 | 2.8 | 1.4 | 30.49 30.54 | 30.52 | 9.16 9.19 | 9.18 | 22.36 22.51 | 22.44 | 114.00 114.10 | 114.05 | 7.56 7.56 | | 4.65 4.11 | 4.38 | 2.8 2.6 | |
| | 27/7/2022 | Sunny | 10:05 10:06 | 2.9 2.9 | 1.5 1.5 | 30.58 30.57 | 30.58 | 9.34 9.44 | 9.39 | 21.47 21.91 | 21.69 | 109.40 97.50 | 103.45 | 7.28 6.48 | | 4.79 4.03 | 4.41 | - | - |
| | 29/7/2022 | Sunny | 10:10 10:11 | 2.7 | 1.4 | 30.56 30.59 | 30.58 | 9.50 9.38 | 9.44 | 23.33 23.65 | 23.49 | 116.00 100.30 | 108.15 | 7.64 6.60 | 7.12 | 4.50 4.43 | 4.47 | 2.6 3.0 | |

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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Lam Environmental Services Limited

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

| | Sampling | | Sampling | Water | Sampling | Tempe | | р | Н | Salir | nity | DO Sa | turation | | 00 | Turt | oidity | | SS |
|-------------------|-----------|-----------------------------|----------------|-------|----------|----------------|-------|--------------|---------|----------------|--------------|------------|----------|--------------|------|--------------|--------|-------|------|
| Station Reference | Date | Weather | Time | Depth | Depth | °C |) | | | pp | | | % | m | ıg/L | N' | ΓU | n | ng/L |
| | Duto | | 11110 | m | m | Value | AVG | Value | AVG | Value / | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | Т8 | | | | | | | Samplin | g was cancell | led due to a | dverse wea | ther | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cancell | led due to a | dverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 10:22 | 2.8 | 1.4 | 28.22 28.26 | 28.24 | 9.11 | 9.07 | 14.72 | 14.74 | 115.80 | 115.60 | 8.32 8.28 | 8.30 | 7.56 6.55 | 7.06 | 2.2 | |
| | | | 10:25 | 2.8 | 1.4 | 28.91 | | 9.03 | | 13.77 | | 116.50 | | 8.31 | | 9.16 | | 2.0 | |
| | 8/7/2022 | Cloudy | 10:37 | 2.8 | 1.4 | 28.92 | 28.92 | 9.03 | 9.03 | 14.05 | 13.91 | 116.30 | 116.40 | 8.28 | 8.30 | 7.19 | 8.18 | 4.2 | |
| | | _ | 12:37 | 2.7 | 1.4 | 30.67 | | 9.69 | | 12.82 | | 105.50 | | 7.35 | | 2.51 | | 1.4 | |
| | 11/7/2022 | Sunny | 12:38 | 2.7 | 1.4 | 30.60 | 30.64 | 9.74 | 9.72 | 12.88 | 12.85 | 112.90 | 109.20 | 7.87 | 7.61 | 2.79 | 2.65 | 1.6 | 1.2 |
| | 13/7/2022 | | 12:39 | 2.9 | 1.5 | 29.99 | 29.96 | 9.28 | 9.30 | 15.74 | 15.77 | 113.70 | 113.80 | 7.88 | 7.89 | 2.96 | 3.09 | 1.1 | 1. |
| | 13///2022 | Sunny | 12:40 | 2.9 | 1.5 | 29.93 | 29.96 | 9.32 | 9.30 | 15.79 | 15.// | 113.90 | 113.80 | 7.90 | 7.89 | 3.22 | 3.09 | 1.1 | 1 ' |
| SR6 | 15/7/2022 | Sunny | 10:05 | 2.9 | 1.5 | 29.72 | 29.72 | 9.26 | 9.25 | 19.83 | 19 79 | 117.10 | 113.00 | 7.97 | 7.70 | 5.82 | 5.88 | 1.1 | 1. |
| | 13/1/2022 | Suriny | 10:06 | 2.9 | 1.5 | 29.71 | 20.12 | 9.23 | 5.25 | 19.75 | 10.70 | 108.90 | 113.00 | 7.42 | 7.70 | 5.94 | 3.00 | 1.1 | 1 " |
| | 18/7/2022 | Cloudy | 10:15 | 2.9 | 1.5 | 29.27 | 29 28 | 8.93 | 8 94 | 22.21 | 22 23 | 107.20 | 111 85 | 7.26 | 7.58 | 8.49 | 7 68 | 6.0 | 5. |
| | TOTTEDEE | Oloudy | 10:16 | 2.9 | 1.5 | 29.28 | 20.20 | 8.94 | 0.04 | 22.25 | LL.LO | 116.50 | 111.00 | 7.89 | 7.00 | 6.87 | 7.00 | 5.6 | i |
| | 20/7/2022 | Sunny | 12:00 | 2.7 | 1.4 | 30.31 | 30.33 | 9.10 | 9.05 | 19.92 | 19.90 | 115.80 | 109.80 | 7.81 | 7.40 | 4.55 | 4 17 | 3.1 | |
| | | , | 12:01 | 2.7 | 1.4 | 30.35 | | 8.99 | | 19.87 | | 103.80 | | 6.99 | | 3.79 | | 2.6 | i |
| | 22/7/2022 | Sunny | 12:40 | 2.6 | 1.3 | 30.98 | 30.98 | 9.42 | 9.46 | 19.96 | 20.03 | 122.70 | 117.75 | 8.08 | 7.80 | 5.30 | 5.32 | 3.2 | |
| | | , | 12:41 | 2.6 | 1.3 | 30.98 | | 9.49 | | 20.09 | | 112.80 | | 7.51 | | 5.34 | | 3.5 | |
| | 25/7/2022 | Sunny | 12:41 | 2.8 | 1.4 | 32.48 | 32.52 | 9.07 | 9.13 | 21.02 | 21.06 | 111.40 | 108.75 | 7.20 | 7.03 | 4.10 | 4.04 | 3.8 | |
| | | - | 12:42 | 2.8 | 1.4 | 32.56 | | 9.19 | | 21.09 | | 106.10 | | 6.85 | | 3.97 | | 4.1 | |
| | 27/72022 | Sunny | 12:36 | 2.8 | 1.4 | 30.66 | 30.63 | 9.43 | 9.40 | 21.28 | 21.44 | 107.60 | 104.85 | 7.16 6.79 | 6.98 | 3.90 | 3.92 | 2.2 | |
| | | | | | 1.4 | 30.60 | | | | | | | | | - | | | | |
| | 29/7/2022 | Sunny | 12:37 12:38 | 2.8 | 1.4 | 30.95 30.91 | 30.93 | 9.34 9.25 | 9.30 | 23.46 23.60 | 23.53 | 104.40 | 105.20 | 6.83 | 6.88 | 6.26 4.29 | 5.28 | 2.2 | |

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

| Station Reference | Sampling | Weather | Sampling | Water Depth | Sampling Depth | | erature C | ı | Н | Sali | | | turation | | 00 | | bidity | _ | SS |
|-------------------|-----------|-----------------------------|----------|----------------|-------------------|-------|--------------|-------|----------|--------------|---------------|-------------|----------|-------|------------|-------|--------|-------|------------|
| Station Reference | Date | vveatriei | Time | m | m | | AVG | Value | AVG | Value | AVG | | % AVG | Value | g/L AVG | Value | AVG | Value | a/L AVG |
| | 2/7/2022 | Т8 | | - 111 | 1 111 | value | AVO | value | | a was cancel | | | | value | AVO | value | AVO | value | AVO |
| | DIVEOLE | | | | | | | | Oumpiiii | g mas cance | iica aac to t | JUVCIOU WCC | m roi | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cancel | lled due to a | adverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 12:22 | 5.1 | 1.0 | 28.36 | 28.37 | 8.75 | 8 79 | 15.82 | 15.74 | 102.70 | 117.45 | 7.32 | 8.37 | 6.60 | 7.36 | 2.6 | 2.8 |
| | 0/1/2022 | Suriny | 12:23 | 5.1 | 1.0 | 28.38 | 20.31 | 8.82 | 0.75 | 15.65 | 13.74 | 132.20 | 117.45 | 9.42 | 0.57 | 8.11 | 7.50 | 2.9 | |
| | 8/7/2022 | Cloudy | 12:31 | 4.3 | 1.0 | 29.42 | 29 41 | 9.09 | 9.06 | 8.87 | 8.77 | 113.40 | 113.55 | 8.24 | 8 26 | 8.39 | 7 75 | 3.4 | 3.4 |
| | 0/1/2022 | Cioudy | 12:32 | 4.3 | 1.0 | 29.40 | 20.41 | 9.03 | 3.00 | 8.67 | 0.77 | 113.70 | 113.33 | 8.28 | 0.20 | 7.11 | 7.73 | 3.4 | 3.4 |
| | 11/7/2022 | Sunny | 10:28 | 4.5 | 1.0 | 30.66 | 30.65 | 9.66 | 9.70 | 12.38 | 12.33 | 115.10 | 114.70 | 8.04 | 8.02 | 3.49 | 3.56 | 2.8 | 2.7 |
| | 11///2022 | Suriny | 10:29 | 4.5 | 1.0 | 30.63 | 30.03 | 9.74 | 3.70 | 12.27 | 12.33 | 114.30 | 114.70 | 7.99 | 0.02 | 3.62 | 5.50 | 2.6 | 2 |
| | 13/7/2022 | Sunny | 10:41 | 5.0 | 1.0 | 29.76 | 29.72 | 9.44 | 9.54 | 14.56 | 14.52 | 115.80 | 114.90 | 8.12 | 8.06 | 4.16 | 4.06 | <1.0 | 1.0 |
| | 13/7/2022 | Suriny | 10:42 | 5.0 | 1.0 | 29.68 | 20.12 | 9.63 | 3.54 | 14.47 | 14.02 | 114.00 | 114.50 | 8.00 | 0.00 | 3.96 | 4.00 | <1.0 | 1.0 |
| SR9 | 15/7/2022 | Sunny | 12:25 | 5.1 | 1.0 | 29.94 | 30.00 | 9.10 | 9 16 | 20.00 | 19.62 | 114.00 | 114.30 | 7.76 | 7.76 | 6.20 | 5.22 | <1.0 | 1.0 |
| 0110 | 13/7/2022 | Suriny | 12:26 | 5.4 | 1.0 | 30.05 | 30.00 | 9.22 | 3.10 | 19.24 | 15.02 | 114.60 | 114.30 | 7.76 | 7.70 | 4.24 | J.22 | <1.0 | 1 |
| | 18/7/2022 | Cloudy | 12:28 | 5.1 | 1.0 | 29.95 | 29.95 | 9.01 | 8 97 | 22.10 | 22 10 | 123.00 | 124.65 | 8.24 | 8.35 | 4.87 | 4.73 | 3.9 | 3.8 |
| | 10/7/2022 | Cioudy | 12:29 | 5.1 | 1.0 | 29.95 | 20.00 | 8.92 | 0.51 | 22.10 | 22.10 | 126.30 | 124.00 | 8.46 | 0.55 | 4.58 | 4.73 | 3.6 | 3.0 |
| | 20/7/2022 | Sunny | 13:41 | 4.9 | 1.0 | 30.28 | 30.27 | 9.13 | 9.00 | 30.28 | 30.27 | 111.80 | 112.10 | 7.55 | 7.57 | 4.23 | 4 14 | 1.8 | 1.8 |
| | 20/1/2022 | Suriny | 13:42 | 4.9 | 1.0 | 30.26 | 30.21 | 8.87 | 3.00 | 30.26 | 30.27 | 112.40 | 112.10 | 7.58 | 1.31 | 4.04 | 4,14 | 1.7 | 1.0 |
| | 22/7/2022 | Sunny | 10:15 | 3.8 | 1.0 | 30.49 | 30.48 | 9.49 | 9.39 | 20.55 | 20.75 | 114.80 | 110.20 | 7.69 | 7.38 | 6.03 | 5.58 | 4.0 | 3.9 |
| | 22/1/2022 | Suriny | 10:16 | 3.8 | 1.0 | 30.46 | 30.40 | 9.29 | 5.55 | 20.94 | 20.75 | 105.60 | 110.20 | 7.06 | 7.50 | 5.13 | 5.50 | 3.8 | 0.0 |
| | 25/7/2022 | Sunny | 10:21 | 4.4 | 1.0 | 31.22 | 31.27 | 9.32 | 9.38 | 20.03 | 19.99 | 107.10 | 110.25 | 7.11 | 7.32 | 5.77 | 4.81 | 3.8 | 3.7 |
| | 23/1/2022 | Suriny | 10:22 | 4.4 | 1.0 | 31.31 | 31.27 | 9.43 | 9.30 | 19.94 | 10.00 | 113.40 | 110.23 | 7.52 | 7.52 | 3.84 | 4.01 | 3.6 | 0.1 |
| | 27/7/2022 | Sunny | 10:20 | 4.3 | 1.0 | 31.01 | 31.03 | 9.39 | 9.45 | 21.47 | 21.39 | 105.20 | 102.80 | 6.95 | 6.80 | 5.26 | 4 69 | 3.1 | |
| | 211112022 | Carrily | 10:21 | 4.3 | 1.0 | 31.04 | 31.03 | 9.50 | 5.45 | 21.30 | 21.35 | 100.40 | 132.00 | 6.64 | 0.00 | 4.11 | 4.03 | 3.3 | 0.2 |
| | 29/7/2022 | Sunny | 10:22 | 5.1 | 1.0 | 30.56 | 30.57 | 9.52 | 9.52 | 23.61 | 23.67 | 114.20 | 108.95 | 7.51 | 7.17 | 5.70 | 4.99 | 2.6 | |
| | LUITILULL | Cumy | 10:23 | 5.1 | 1.0 | 30.58 | 00.01 | 9.52 | 0.02 | 23.72 | 20.07 | 103.70 | 100.00 | 6.82 | 7.17 | 4.28 | 4.00 | 2.5 | 2.0 |

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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Lam Environmental Services Limited

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

| | Sampling | | Sampling | Water | Sampling | | erature C | ı | Н | | inity | | turation | | 00 | | bidity | _ | SS |
|-------------------|------------|-----------------------------|----------|-------|----------|-------|--------------|-------|---------|-------------|----------------|------------|----------|-------|------|-------|--------|-------|------|
| Station Reference | Date | Weather | Time | Depth | Depth | | - | | - T | | pt | | % | | ng/L | | TU | | ng/L |
| | | | | m | m | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | T8 | | | | | | | Samplin | g was cance | elled due to a | dverse wea | ther | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cance | elled due to a | dverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 10:34 | 4.3 | 1.0 | 28.21 | 28 18 | 9.05 | | 15.41 | 15 44 | 115.40 | 102.75 | 8.26 | | 7.14 | 6.42 | 2.8 | |
| | ********** | y | 10:35 | 4.3 | 1.0 | 28.15 | | 8.95 | | 15.47 | | 90.10 | | 6.45 | | 5.69 | | 2.5 | |
| | 8/7/2022 | Cloudy | 10:49 | 4.1 | 1.0 | 29.04 | 29.04 | 9.15 | | 13.13 | 13.17 | 115.00 | 107.05 | 8.22 | | 8.98 | 7.95 | 2.9 | |
| | ********* | , | 10:50 | 4.1 | 1.0 | 29.04 | | 9.02 | | 13.21 | | 99.10 | | 7.08 | | 6.92 | 1.00 | 3.0 | |
| | 11/7/2022 | Sunny | 12:30 | 3.8 | 1.0 | 30.55 | 30.58 | 9.21 | 9.43 | 12.75 | 12.55 | 10.70 | 59 65 | 7.73 | | 6.73 | 5.96 | 5.1 | |
| | | , | 12:31 | 3.8 | 1.0 | 30.61 | | 9.65 | | 12.35 | | 108.60 | | 7.59 | | 5.19 | | 4.7 | |
| | 13/7/2022 | Sunny | 12:29 | 4.4 | 1.0 | 29.85 | 29.89 | 9.26 | | 14.51 | 14.57 | 110.70 | 111.05 | 7.75 | | 4.09 | 3.91 | 1.2 | |
| | | , | 12:30 | 4.4 | 1.0 | 29.93 | | 9.33 | | 14.62 | | 111.40 | | 7.78 | | 3.73 | | 1.4 | |
| SR9 | 15/7/2022 | Sunny | 10:16 | 5.4 | 1.0 | 29.68 | 29 67 | 9.15 | 9 18 | 20.80 | 20.53 | 115.60 | 115.50 | 7.83 | 7.82 | 7.01 | 6.28 | 1.2 | |
| | | , | 10:17 | 5.4 | 1.0 | 29.66 | | 9.21 | | 20.26 | | 115.40 | | 7.81 | | 5.54 | | 1.4 | |
| | 18/7/2022 | Cloudy | 10:28 | 4.8 | 1.0 | 29.37 | 29.39 | 9.00 | 9.03 | 21.99 | 22.07 | 115.40 | 115.25 | 7.81 | 7.80 | 5.35 | 5.25 | 2.6 | |
| | | , | 10:29 | 4.8 | 1.0 | 29.40 | | 9.05 | | 22.15 | | 115.10 | | 7.78 | | 5.14 | | 2.8 | |
| | 20/7/2022 | Sunny | 12:14 | 4.7 | 1.0 | 30.36 | 30.37 | 9.13 | 9.09 | 19.75 | 19.82 | 108.60 | 111.35 | 7.32 | | 4.92 | 4 78 | 1.8 | |
| | | , | 12:15 | 4.7 | 1.0 | 30.38 | | 9.04 | | 19.89 | | 114.10 | | 7.68 | | 4.63 | | 1.9 | |
| | 22/7/2022 | Sunny | 12:30 | 3.7 | 1.0 | 30.77 | 30.77 | 9.34 | 9.22 | 21.00 | 21.06 | 112.80 | 112.80 | 7.50 | 7.50 | 5.19 | 5.03 | 3.2 | |
| | | | 12:31 | 3.7 | 1.0 | 30.76 | | 9.10 | | 21.12 | | 112.80 | | 7.50 | | 4.86 | | 3.6 | |
| | 25/7/2022 | Sunny | 12:31 | 4.0 | 1.0 | 32.06 | 32.09 | 9.18 | 9.25 | 20.39 | 20.35 | 100.00 | 106.00 | 6.53 | 6.92 | 3.40 | 3.70 | 3.5 | |
| | | | 12:32 | 4.0 | 1.0 | 32.12 | , | 9.31 | | 20.31 | | 112.00 | | 7.31 | | 3.99 | | 3.3 | |
| | 27/72022 | Sunny | 12:27 | 4.3 | 1.0 | 30.95 | 31.02 | 9.33 | | 21.67 | 21.80 | 107.70 | 109.20 | 7.11 | 7.20 | 4.73 | 4.24 | 6.0 | |
| | | , | 12:28 | 4.3 | 1.0 | 31.09 | | 9.39 | | 21.93 | | 110.70 | | 7.29 | | 3.75 | | 5.8 | |
| | 29/7/2022 | Sunny | 12:27 | 4.8 | 1.0 | 31.71 | 31.57 | 9.16 | 9.21 | 23.38 | 23.53 | 106.40 | 105.70 | 6.88 | 6.85 | 5.79 | 5.31 | 3.0 | |
| | | , | 12:28 | 4.8 | 1.0 | 31.42 | | 9.25 | | 23.68 | 1 | 105.00 | | 6.81 | 1 | 4.82 | | 2.6 | |

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

| Station Reference | Sampling | Weather | Sampling | Water Depth | Sampling Depth | | erature C | F | Н | | inity | | turation % | | 00 | | bidity TU | | SS ng/L |
|-------------------|-----------|-----------------------------|----------------|----------------|-------------------|----------------|--------------|--------------|---------|----------------|----------------|------------------|---------------|--------------|------------|--------------|--------------|------------|------------|
| Station Reference | Date | vv eatrier | Time | m | m | | AVG | Value | AVG | | AVG | | AVG | Value | g/L AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | Т8 | | | | Value | ,,,,, | Valdo | | | elled due to | | | Value | ,,,,, | vaido | ,,,, | value | ,,,,, |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cance | elled due to a | adverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 12:26 12:27 | 5.1 5.1 | 4.1 | 28.34 28.34 | 28.34 | 8.94 8.91 | 8.93 | 15.45 15.59 | 15.52 | 126.50 123.70 | 125.10 | 9.03 8.82 | 8.93 | 5.16 7.93 | 6.55 | 3.3 3.5 | |
| | 8/7/2022 | Cloudy | 12:34 12:35 | 4.3 | 3.3 | 29.43 29.36 | 29.40 | 9.20 9.03 | 9.12 | 8.84 8.93 | 8.89 | 113.80 | 113.90 | 8.27 8.30 | 8.29 | 8.11 6.52 | 7.32 | 2.4 | |
| | 11/7/2022 | Sunny | 10:31 | 4.5 4.5 | 3.5 3.5 | 30.60 30.57 | 30.59 | 9.83 9.74 | 9.79 | 12.26 12.39 | 12.33 | 115.40 115.70 | 115.55 | 8.07 8.09 | 8.08 | 5.06 3.66 | 4.36 | 4.3 | |
| | 13/7/2022 | Sunny | 10:45 10:46 | 5.0 | 4.0 | 29.66 29.61 | 29.64 | 9.45 9.39 | 9.42 | 18.13 18.32 | 18.23 | 115.70 115.30 | 115.50 | 7.96 7.93 | 7.95 | 3.49 2.55 | 3.02 | 1.7 | |
| SR9 | 15/7/2022 | Sunny | 12:29 12:30 | 5.1 | 4.4 | 29.57 29.55 | 29.56 | 9.07 | 9.02 | 21.51 21.33 | 21.42 | 116.80 116.40 | 116.60 | 7.90 | 7.89 | 6.13 | 5.27 | 1.7 | 1.8 |
| | 18/7/2022 | Cloudy | 12:32 | 5.1 | 4.1 | 28.82 | 29.34 | 9.04 | 9.00 | 22.10 | 22.08 | 124.80 116.20 | 120.50 | 8.38 7.80 | 8.09 | 4.94 | 4.71 | 2.2 | 3.3 |
| | 20/7/2022 | Sunny | 13:44 | 4.9 | 3.9 | 30.25 30.22 | 30.24 | 9.02 | 8.97 | 30.25 30.22 | 30.24 | 111.80 | 112.10 | 7.55 7.59 | 7.57 | 4.28 3.65 | 3.97 | 2.4 | 3.2 |
| | 22/7/2022 | Sunny | 10:17 10:18 | 3.8 | 2.8 | 29.93 29.93 | 29.93 | 9.79 8.99 | 9.39 | 21.98 22.16 | 22.07 | 115.00 114.00 | 114.50 | 7.71 7.64 | 7.68 | 4.62 4.74 | 4.68 | 2.6 | |
| | 25/7/2022 | Sunny | 10:24 10:25 | 4.4 | 3.4 | 31.41 31.42 | 31.42 | 9.47 9.49 | 9.48 | 20.06 | 20.04 | 114.30 112.80 | 113.55 | 7.56 7.46 | 7.51 | 4.12 3.98 | 4.05 | 2.7 | |
| | 27/7/2022 | Sunny | 10:23 10:24 | 4.3 4.3 | 3.3 3.3 | 31.05 31.02 | 31.04 | 9.46 9.37 | 9.42 | 21.55 21.79 | 21.67 | 115.20 112.20 | 113.70 | 7.60 7.40 | 7.50 | 4.78 3.64 | 4.21 | 4.4 | |
| | 29/7/2022 | Sunny | 10:26 10:27 | 5.1 5.1 | 4.1 4.1 | 30.49 30.56 | 30.53 | 9.51 9.50 | 9.51 | 23.71 | 23.73 | 93.90 113.80 | 103.85 | 6.18 7.48 | 6.83 | 5.12 4.49 | 4.81 | 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

Contract No. NE/2017/03 Development of Anderson Road Quarry Site Road Improvement Works

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

| Station Reference | Sampling | Weather | Sampling | Water Depth | Sampling Depth | | erature C | | Н | | linity | | aturation | | 00 | | bidity | | SS |
|-------------------|-----------|-----------------------------|----------------|----------------|-------------------|----------------|--------------|--------------|---------|----------------|--------------|------------------|-----------|--------------|------------|--------------|-----------|------------|------------|
| Station Reference | Date | vveatriei | Time | m | m | | AVG | Value | AVG | Value | pt AVG | | % AVG | Value | g/L AVG | Value | TU AVG | Value | g/L AVG |
| | 2/7/2022 | Т8 | | | | value | ,,,,, | value | | | elled due to | | | Value | ,,,,, | Value | ,,,, | value | ,,,,, |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cance | elled due to | adverse wea | ather | | | | | | |
| | 6/7/2022 | Sunny | 10:37 10:38 | 4.3 4.3 | 3.3 3.3 | 28.02 28.02 | 28.02 | 8.88 8.91 | 8.90 | 16.95 16.92 | 16.94 | 115.10 115.10 | 115.10 | 8.20 8.19 | 8.20 | 6.80 6.21 | 6.51 | 4.1 | |
| | 8/7/2022 | Cloudy | 10:52 10:53 | 4.1 4.1 | 3.1 | 29.05 29.05 | 29.05 | 9.20 9.17 | 9.19 | 13.65 | 13.67 | 98.70 115.00 | 106.85 | 7.03 8.19 | 7.61 | 9.37 5.85 | 7.61 | 1.5 | |
| | 11/7/2022 | Sunny | 12:32 12:33 | 3.8 | 2.8 | 30.54 30.41 | 30.48 | 9.58 9.56 | 9.57 | 13.98 13.95 | 13.97 | 114.50 114.30 | 114.40 | 7.95 7.94 | 7.95 | 4.82 4.48 | 4.65 | 3.8 4.2 | |
| | 13/7/2022 | Sunny | 12:32 12:33 | 4.4 | 3.4 | 29.84 29.78 | 29.81 | 9.48 | 9.42 | 17.00 17.06 | 17.03 | 113.90 113.50 | 113.70 | 7.86 7.84 | 7.85 | 4.32 3.28 | 3.80 | 1.9 | |
| SR9 | 15/7/2022 | Sunny | 10:20 | 5.4 5.4 | 4.4 | 29.41 29.41 | 29.41 | 9.22 | 9.14 | 21.26 21.58 | 21.42 | 116.20 115.60 | 115.90 | 7.89 7.84 | 7.87 | 7.71 4.72 | 6.22 | 1.9 | |
| | 18/7/2022 | Cloudy | 10:31 10:32 | 4.8 | 3.8 | 29.38 29.41 | 29.40 | 9.12 | 9.11 | 22.14 21.98 | 22.06 | 115.30 115.20 | 115.25 | 7.79 7.79 | 7.79 | 4.63 4.31 | 4.47 | 3.6 | |
| | 20/7/2022 | Sunny | 12:17 12:18 | 4.7 | 3.7 3.7 | 30.29 30.28 | 30.29 | 9.13 9.06 | 9.10 | 19.78 19.89 | 19.84 | 114.80 114.00 | 114.40 | 7.75 7.69 | 7.72 | 4.66 3.95 | 4.31 | 2.4 | |
| | 22/7/2022 | Sunny | 12:32 12:33 | 3.7 3.7 | 2.7 | 30.57 30.54 | 30.56 | 9.20 8.97 | 9.09 | 21.93 21.90 | 21.92 | 113.00 112.90 | 112.95 | 7.50 7.50 | 7.50 | 4.50 4.76 | 4.63 | 2.1 2.4 | |
| | 25/7/2022 | Sunny | 12:34 12:35 | 4.0 4.0 | 3.0 3.0 | 32.10 32.10 | 32.10 | 9.48 9.31 | 9.40 | 31.35 21.46 | 26.41 | 105.50 103.10 | 104.30 | 6.85 6.69 | 6.77 | 4.08 3.18 | 3.63 | 3.9 4.1 | |
| | 27/72022 | Sunny | 12:30 12:31 | 4.3 4.3 | 3.3 3.3 | 30.93 30.88 | 30.91 | 9.44 9.52 | 9.48 | 22.68 22.84 | 22.76 | 107.50 110.00 | 108.75 | 7.06 7.23 | 7.15 | 4.12 3.70 | 3.91 | 4.4 | |
| | 29/7/2022 | Sunny | 12:30 12:31 | 4.8 4.8 | 3.8 | 30.07 30.96 | 30.52 | 9.31 9.34 | 9.33 | 23.58 23.77 | 23.68 | 113.00 104.20 | 108.60 | 7.37 6.81 | 7.09 | 5.61 4.50 | 5.06 | 5.0 4.7 | |

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

| | Sampling | | Sampling | Water | Sampling | Tempe | | F | Н | Sali | nity | | aturation | | 00 | | bidity | _ | SS |
|-------------------|-----------|-----------------------------|----------|-------|----------|----------------|-------|--------------|---------|----------------|---------------|-----------------|-----------|--------------|------|--------------|--------|-------|------|
| Station Reference | Date | Weather | Time | Depth | Depth | °C | | | | p | | | % | | g/L | | TU | | ng/L |
| | | | | m | m | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | Т8 | | | | | | | Samplin | g was cance | lled due to a | adverse wea | ather | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cance | lled due to a | adverse wea | ather | | | | | | |
| | 6/7/2022 | Sunny | 12:14 | 2.9 | 1.5 | 28.39 28.41 | 28.40 | 9.32 8.99 | 9.16 | 15.82 15.68 | 15.75 | 84.80 112.80 | 98.80 | 6.03 8.04 | 7.04 | 5.10 5.26 | 5.18 | 2.3 | |
| | | | 10:40 | 2.8 | 1.4 | 29.34 | | 9.36 | | 9.52 | | 116.30 | | 8.43 | | 5.87 | | 2.1 | |
| | 8/7/2022 | Cloudy | 12:26 | 2.8 | 1.4 | 29.33 | 29.34 | 9.08 | 9.22 | 9.49 | 9.51 | 116.20 | 116.25 | 8.43 | 8.43 | 5.88 | 5.88 | 3.4 | |
| | | _ | 10:40 | 2.8 | 1.4 | 30.66 | | 9.75 | | 11.80 | | 114.30 | | 8.01 | | 4.65 | | 26 | |
| | 11/7/2022 | Sunny | 10:41 | 2.8 | 1.4 | 30.62 | 30.64 | 9.75 | 9.75 | 11.85 | 11.83 | 114.40 | 114.35 | 8.02 | 8.02 | 4.40 | 4.53 | 2.4 | 2.3 |
| | 13/7/2022 | Sunny | 10:50 | 2.9 | 1.5 | 29.70 | 29.68 | 9.51 | 9.52 | 14.91 | 14 90 | 114.60 | 114 60 | 8.02 | 8.03 | 3.99 | 3.89 | 1.8 | 1.5 |
| | 13/1/2022 | Suriny | 10:51 | 2.9 | 1.4 | 29.65 | 29.00 | 9.53 | 9.52 | 14.89 | 14.90 | 114.60 | 114.00 | 8.03 | 0.03 | 3.79 | 3.09 | 1.9 | 1 |
| SR10 | 15/7/2022 | Sunny | 12:20 | 2.9 | 1.4 | 29.62 | 29.61 | 9.16 | 9 11 | 20.06 | 20.51 | 114.20 | 114.05 | 7.74 | 7 74 | 4.31 | 4.17 | 1.8 | 1.5 |
| SICIO | 13/7/2022 | Suriny | 12:21 | 2.7 | 1.4 | 29.59 | 25.01 | 9.06 | 3.11 | 20.95 | 20.51 | 113.90 | 114.00 | 7.73 | 7.74 | 4.03 | 4.17 | 1.9 | 1.0 |
| | 18/7/2022 | Cloudy | 12:21 | 2.9 | 1.5 | 30.37 | 30.40 | 8.91 | 9.01 | 22.40 | 22 49 | 113.40 | 113.25 | 7.53 | 7.51 | 5.13 | 4 94 | 2.4 | 2.3 |
| | TOTTLOLL | Oloudy | 12:22 | 2.9 | 1.5 | 30.42 | 00.40 | 9.11 | 0.01 | 22.57 | 22.40 | 113.10 | 110.20 | 7.49 | 7.01 | 4.74 | 4.54 | 2.0 | |
| | 20/7/2022 | Sunny | 13:36 | 2.7 | 1.4 | 30.22 | 30.21 | 8.93 | 8.91 | 30.12 | 30.16 | 112.20 | 112.15 | 7.58 | 7.59 | 3.99 | 3.79 | 2.7 | |
| | | , | 13:37 | 2.7 | 1.4 | 30.19 | | 8.89 | | 30.19 | | 112.10 | | 7.59 | | 3.59 | | 2.5 | |
| | 22/7/2022 | Sunny | 10:25 | 2.7 | 1.4 | 30.93 | 30.97 | 9.33 | 9.36 | 20.26 | 20.34 | 112.30 | 109 70 | 7.48 | 7.30 | 8.21 | 6.74 | 4.3 | |
| | | , | 10:26 | 2.7 | 1.4 | 31.00 | | 9.38 | | 20.42 | | 107.10 | | 7.11 | | 5.26 | | 4.0 | _ |
| | 25/7/2022 | Sunny | 10:31 | 2.4 | 1.2 | 31.53 | 31.54 | 9.41 | 9.46 | 20.69 | 20.83 | 107.20 | 105.65 | 7.05 | 6.95 | 4.69 | 4.48 | 3.4 | |
| | | - | 10:32 | 2.4 | 1.2 | 31.55 | | 9.51 | | 20.97 | | 104.10 | | 6.84 | | 4.26 | | 3.8 | _ |
| | 27/7/2022 | Sunny | 10:30 | 2.7 | 1.4 | 31.12 | 31.09 | 9.36 | 9.40 | 20.94 | 21.06 | 113.40 | 108.55 | 7.50 | 7.18 | 5.25 | 4.65 | 2.3 | |
| | | - | 10:31 | 2.7 | 1.4 | 31.06 | | 9.43 | | 21.18 | | 103.70 | | 6.86 | | 4.04 | | 2.3 | |
| | 29/7/2022 | Sunny | 10:33 | 2.7 | 1.4 | 30.54 | 30.52 | 9.54 | 9.50 | 23.76 | 23.91 | 103.90 | 108.70 | 6.83 | 7.15 | 5.50 | 4.93 | 3.2 | |
| | 1 | | 10:34 | 2.7 | 1.4 | 30.50 | | 9.46 | 1 | 24.06 | | 113.50 | 1 | 7.46 | l | 4.36 | 1 | 2.8 | -1 |

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

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Lam Environmental Services Limited

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

| | Sampling | | Sampling | Water | Sampling | Tempe | | р | Н | Salir | nity | DO Sa | turation | | 00 | Turt | bidity | | SS |
|-------------------|-----------|-----------------------------|----------------|-------|----------|----------------|-------|--------------|---------|----------------|--------------|-----------------|----------|--------------|------|--------------|--------|-------|------|
| Station Reference | Date | Weather | Time | Depth | Depth | °C | | | - | pp | | | % | | g/L | | TU | | ng/L |
| | Duto | | 11110 | m | m | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | Т8 | | | | | | | Samplin | g was cancell | led due to a | dverse wea | ther | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cancell | led due to a | dverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 10:43 10:44 | 2.9 | 1.5 | 28.20 28.21 | 28.21 | 9.05 8.97 | 9.01 | 15.76 15.74 | 15.75 | 113.60 | 113.60 | 8.11 8.12 | 8.12 | 6.72 4.82 | 5.77 | 1.2 | |
| | | | 10:44 | 2.9 | 1.5 | 28.21 | | 9.09 | | 9.73 | | 115.10 | | 8.12 | | 4.82 8.08 | | 1.4 | |
| | 8/7/2022 | Cloudy | 10:57 | 2.9 | 1.5 | 28.92 | 28.94 | 9.09 | 9.05 | 9.73 | 9.71 | 115.10 | 115.05 | 8.35 | 8.38 | 6.37 | 7.23 | 1.5 | |
| | | | 12:23 | 2.4 | 1.3 | 30.48 | | 9.01 | | 11.85 | | 113.70 | | 7.98 | | 4.77 | | 3.6 | |
| | 11/7/2022 | Sunny | 12:24 | 2.4 | 1.2 | 30.50 | 30.49 | 9.73 | 9.82 | 11.80 | 11.83 | 107.50 | 110.60 | 7.55 | 7.77 | 3.94 | 4.36 | 3.5 | |
| | | | 12:22 | 2.9 | 1.5 | 29.59 | | 9.25 | | 14.80 | | 114.00 | | 8.00 | | 4.20 | | 4.0 | |
| | 13/7/2022 | Sunny | 12:23 | 2.9 | 1.5 | 29.51 | 29.55 | 9.39 | 9.32 | 14.92 | 14.86 | 114.20 | 114.10 | 8.02 | 8.01 | 3.72 | 3.96 | 1.1 | |
| SR10 | 15/7/2022 | Sunny | 10:26 | 2.7 | 1.4 | 29.57 | 29.56 | 9.12 | 9 19 | 20.86 | 20.92 | 114.70 | 105.75 | 7.79 | 7 18 | 4.55 | 4 45 | 1.2 | 1. |
| 5K10 | 15///2022 | Sunny | 10:27 | 2.7 | 1.4 | 29.55 | 29.56 | 9.26 | 9.19 | 20.97 | 20.92 | 96.80 | 105.75 | 6.57 | 7.18 | 4.35 | 4.45 | 1.1 | 1. |
| | 18/7/2022 | Cloudy | 10:37 | 2.9 | 1.5 | 29.67 | 29.70 | 9.30 | 9 16 | 22.40 | 22 44 | 114.10 | 109.10 | 7.67 | 7.33 | 5.48 | 4 97 | 2.6 | 3 2. |
| | 10///2022 | Cioudy | 10:38 | 2.9 | 1.5 | 29.73 | 29.70 | 9.02 | 9.16 | 22.48 | 22.44 | 104.10 | 109.10 | 6.99 | 1.33 | 4.45 | 4.97 | 2.8 | 3 |
| | 20/7/2022 | Sunny | 12:23 | 2.6 | 1.3 | 30.24 | 30.23 | 9.06 | 8.99 | 19.49 | 19.54 | 115.10 | 114 10 | 7.67 | 7.66 | 5.25 | 4 64 | 1.8 | 1.0 |
| | EGITTEGEE | Outing | 12:24 | 2.6 | 1.3 | 30.21 | 00.20 | 8.92 | 0.55 | 19.59 | 10.04 | 113.10 | 114.10 | 7.65 | 7.00 | 4.03 | 4.04 | 1.8 | 3 |
| | 22/7/2022 | Sunny | 12:23 | 2.5 | 1.3 | 31.01 | 31.03 | 9.25 | 9.30 | 20.40 | 20.43 | 105.30 | 105.15 | 7.00 | 6.99 | 5.24 | 5.24 | 4.8 | |
| | | | 12:24 | 2.5 | 1.3 | 31.05 | | 9.35 | | 20.45 | | 105.00 | | 6.97 | | 5.24 | | 4.5 | |
| | 25/7/2022 | Sunny | 12:23 | 2.3 | 1.2 | 31.83 | 31.95 | 10.55 | 9.89 | 21.41 | 21.44 | 99.90 | 102.60 | 6.52 | 6.69 | 3.72 | 3.63 | 3.2 | |
| | | | 12:24 | 2.3 | 1.2 | 32.06 | | 9.23 | | 21.46 | | 105.30 | | 6.85 | | 3.54 | | 3.5 | |
| | 27/72022 | Sunny | 12:20 | 2.7 | 1.4 | 31.05 | 31.05 | 9.58 | 9.46 | 22.61 | 22.75 | 110.20 | 105.80 | 7.23 | 6.94 | 4.11 | 3.82 | 3.3 | |
| | | ļ | 12:21 | 2.7 | 1.4 | 31.05 | | 9.33 | | 22.89 | | 101.40 | | 6.64 | | 3.52 | | 3.6 | |
| | 29/7/2022 | Sunny | 12:21 12:22 | 2.8 | 1.4 | 31.17 31.27 | 31.22 | 9.60 9.51 | 9.56 | 23.79 24.12 | 23.96 | 100.40 95.90 | 98.15 | 6.53 | 6.38 | 4.88 4.44 | 4.66 | 2.8 | |

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

| Station Reference | Sampling | Weather | Sampling | Water Depth | Sampling Depth | | erature C | F | Н | | inity | | turation | | 00 | | bidity | | SS |
|-------------------|-----------|-----------------------------|----------------|----------------|-------------------|-------|--------------|--------------|---------|----------------|----------------|-----------------|----------|--------------|--|--------------|-----------|-------|------------|
| Station Reference | Date | vveatriei | Time | m | m | Value | AVG | Value | AVG | | AVG | | % AVG | Value | g/L AVG | Value N | TU AVG | Value | g/L AVG |
| | | | | m | m | value | AVG | value | | | | | | value | AVG | value | AVG | value | AVG |
| | 2/7/2022 | T8 | | | | | | | Samplin | g was cance | lled due to a | adverse wea | ther | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cance | elled due to a | adverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 12:10 | 2.9 | 1.5 | 28.23 | 28 24 | 9.10 | 9.02 | 16.38 | 16.43 | 112.80 | 112 90 | 6.35 | 7.20 | 5.95 | 6.55 | 4.1 | |
| | OTTEGE | Curry | 12:11 | 2.9 | 1.5 | 28.25 | 20.24 | 8.93 | 0.02 | 16.47 | 10.40 | 113.00 | 112.00 | 8.04 | 7.20 | 7.14 | 0.00 | 4.5 | |
| | 8/7/2022 | Cloudy | 10:48 | 2.9 | 1.5 | 29.28 | 29.27 | 9.11 | 9.11 | 10.05 | 10.04 | 115.80 | 116.15 | 8.38 | 8.41 | 7.43 | 7.01 | 2.6 | |
| | | | 12:21 | 2.8 | 1.4 | 29.26 | | 9.10 | | 10.02 | | 116.50 | | 8.44 | The state of the s | 6.58 | | 2.9 | |
| | 11/7/2022 | Sunny | 10:48 | 2.9 | 1.5 | 30.47 | 30.38 | 9.70 | 8.73 | 12.48 | 12.49 | 115.90 | 115.15 | 8.11 | 8.07 | 5.44 | 5.47 | 4.4 | |
| | | , | 10:49 | 2.9 | 1.5 | 30.28 | | 7.76 | | 12.49 | | 114.40 | | 8.02 | | 5.49 | | 4.6 | _ |
| | 13/7/2022 | Sunny | 10:56 | 2.8 | 1.4 | 29.75 | 29.74 | 9.52 | 9.47 | 14.60 | 14.69 | 114.70 | 114.55 | 8.04 | 8.03 | 5.36 | 4.47 | 1.4 | |
| | | | 10:57 | 2.8 | 1.4 | 29.72 | | 9.41 | | 14.77 | | 114.40 | | 8.01 | | 3.57 | | 1.2 | |
| SR12 | 15/7/2022 | Sunny | 12:13 | 2.8 | 1.4 | 29.60 | 29.60 | 9.10 | 9.11 | 21.08 | 21.13 | 104.30 | 109.05 | 7.07 | 7.39 | 4.17 | 4.02 | 1.4 | |
| | | | 12:14 | 2.8 | 1.4 | 29.59 | | 9.11 | | 21.18 | | 113.80 | | 7.71 | | 3.86 | | 1.2 | |
| | 18/7/2022 | Cloudy | 12:14 | 2.8 | 1.4 | 30.46 | 30.44 | 8.79 | 8.83 | 22.75 | 22.75 | 113.20 | 113.25 | 7.50 | 7.50 | 4.81 | 4.82 | 3.2 | |
| | | | 12:15 13:29 | 2.8 | 1.4 | 30.42 | | 8.87 9.00 | | 22.74 30.18 | | 113.30 97.30 | | 7.50 6.58 | | 4.83 4.00 | | 2.8 | |
| | 20/7/2022 | Sunny | 13:29 | 2.6 | 1.3 | 30.11 | 30.10 | 9.00 8.91 | 8.96 | 30.18 | 30.16 | 112 40 | 104.85 | 7.61 | 7.10 | 3.21 | 3.61 | 2.9 | |
| | | | 10:35 | 2.6 | 1.3 | 30.09 | | 9.50 | | 30.14 | | 113.40 | | 7.54 | | 6.05 | | 3.5 | |
| | 22/7/2022 | Sunny | 10:36 | 2.6 | 1.3 | 31.00 | 31.00 | 9.50 | 9.46 | 30.50 | 30.41 | 113.40 | 113.20 | 7.54 | 7.53 | 5.85 | 5.95 | 3.3 | |
| | | | 10:35 | 2.5 | 1.3 | 31.43 | | 9.39 | | 20.62 | | 105.70 | | 6.97 | | 3.99 | | 2.4 | |
| | 25/7/2022 | Sunny | 10:36 | 2.5 | 1.3 | 31.43 | 31.43 | 9.25 | 9.32 | 20.02 | 20.80 | 102.30 | 104.00 | 6.73 | 6.85 | 5.26 | 4.63 | 3.0 | |
| | | | 10:36 | 2.6 | 1.3 | 30.94 | | 9.40 | | 22.06 | | 114.50 | | 7.55 | | 5.31 | | F 0 | |
| | 27/7/2022 | Sunny | 10:37 | 2.6 | 1.3 | 30.87 | 30.91 | 9.30 | 9.35 | 22.37 | 22.22 | 102.30 | 108.40 | 6.74 | 7.15 | 4.33 | 4.82 | 5.4 | |
| | | _ | 10:40 | 2.9 | 1.5 | 30.46 | | 9.53 | | 23.93 | | 113.90 | | 7.49 | | 5.53 | | 2.5 | |
| | 29/7/2022 | Sunny | 10:41 | 2.9 | 1.5 | 30.48 | 30.47 | 9.47 | 9.50 | 24.08 | 24.01 | 102.70 | 108.30 | 6.75 | 7.12 | 4.37 | 4.95 | 2.4 | |

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

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Lam Environmental Services Limited

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

| | Sampling | | Sampling | Water | Sampling | Tempe | | р | Н | Salir | nity | DO Sa | turation | | 00 | Turt | bidity | | SS |
|-------------------|-----------|-----------------------------|----------------|-------|----------|----------------|-------|--------------|---------|----------------|--------------|-----------------|----------|--------------|------|--------------|--------|-------|------|
| Station Reference | Date | Weather | Time | Depth | Depth | °C | | | - | pp | | | % | | ıg/L | | TU | | ng/L |
| | Duto | | 11110 | m | m | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | Т8 | | | | | | | Samplin | g was cancel | led due to a | dverse wea | ther | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cancel | led due to a | dverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 10:47 10:48 | 2.8 | 1.4 | 28.08 28.09 | 28.09 | 9.07 8.92 | 9.00 | 16.47 16.47 | 16.47 | 87.30 114.40 | 100.85 | 6.23 8.14 | 7.19 | 6.44 7.48 | 6.96 | 2.4 | |
| | | | 11:01 | 2.7 | 1.4 | 29.06 | | 9.23 | | 9.33 | | 114.40 | | 8.35 | | 6.84 | | 4.0 | |
| | 8/7/2022 | Cloudy | 11:02 | 2.7 | 1.4 | 29.06 | 29.05 | 9.23 | 9.16 | 9.33 | 9.38 | 114.40 | 114.40 | 8.35 | 8.35 | 6.05 | 6.45 | 1.5 | |
| | | | 12:18 | 2.6 | 1.3 | 30.24 | | 9.83 | | 13.02 | | 111.40 | | 7.81 | | 5.20 | | 4.0 | 1 |
| | 11/7/2022 | Sunny | 12:19 | 2.6 | 1.3 | 30.26 | 30.25 | 9.80 | 9.82 | 13.01 | 13.02 | 112.80 | 112.10 | 7.90 | 7.86 | 4.73 | 4.97 | 4.1 | 4. |
| | | _ | 12:15 | 2.8 | 1.4 | 29.58 | 29 59 | 9.42 | 9.35 | 15.16 | 15 11 | 112.50 | | 7.88 | 7.91 | 3.74 | | 1.4 | 1. |
| | 13/7/2022 | Sunny | 12:16 | 2.8 | 1.4 | 29.59 | 29.59 | 9.28 | 9.35 | 15.06 | 15.11 | 113.30 | 112.90 | 7.94 | 7.91 | 3.60 | 3.67 | 1.6 | 3 |
| SR12 | 15/7/2022 | Sunny | 10:35 | 2.9 | 1.5 | 29.52 | 29.50 | 9.26 | 9.20 | 20.97 | 20.96 | 114.30 | 113.70 | 7.76 | 7.73 | 3.96 | 3.94 | 1.4 | 1. |
| SR12 | 15/7/2022 | Suriny | 10:36 | 2.9 | 1.5 | 29.48 | 29.50 | 9.14 | 9.20 | 20.95 | 20.90 | 113.10 | 113.70 | 7.69 | 1.13 | 3.92 | 3.94 | 1.6 | 3 |
| | 18/7/2022 | Cloudy | 10:46 | 2.8 | 1.4 | 29.48 | 29.50 | 9.02 | 8.97 | 22.71 | 22.72 | 114.30 | 114 45 | 7.69 | 7.70 | 6.17 | 5.70 | 2.9 | 3. |
| | 10/7/2022 | Cioudy | 10:47 | 2.8 | 1.4 | 29.52 | 25.50 | 8.92 | 0.51 | 22.72 | 22.72 | 114.60 | 114.45 | 7.71 | 7.70 | 5.22 | 3.70 | 3.1 | 1 |
| | 20/7/2022 | Sunny | 12:30 | 2.5 | 1.3 | 30.10 | 30 10 | 9.00 | 8.98 | 19.67 | 19.73 | 114.30 | 111.50 | 7.74 | 7.56 | 4.76 | 4.05 | 2.8 | 3 2. |
| | | , | 12:31 | 2.5 | 1.3 | 30.10 | | 8.96 | | 19.78 | | 108.70 | | 7.37 | | 3.34 | | 2.5 | 5 |
| | 22/7/2022 | Sunny | 12:15 | 2.5 | 1.3 | 30.95 | 30.94 | 9.42 | 9.36 | 20.60 | 20.64 | 113.30 | 112 85 | 7.53 | 7.50 | 7.76 | 6.27 | 3.6 | |
| | | , | 12:16 | 2.5 | 1.3 | 30.92 | | 9.30 | | 20.68 | | 112.40 | | 7.47 | | 4.78 | | 3.4 | _ |
| | 25/7/2022 | Sunny | 12:18 | 2.4 | 1.2 | 31.97 | 31.98 | 9.34 | 9.30 | 21.02 | 21.01 | 112.60 | 108.75 | 7.34 | 7.09 | 3.49 | 3.57 | 3.1 | |
| | | , i | 12:19 | 2.4 | 1.2 | 31.99 | | 9.26 | | 20.99 | | 104.90 | | 6.84 | | 3.64 | | 3.3 | |
| | 27/72022 | Sunny | 12:13 | 2.6 | 1.3 | 30.68 | 30.68 | 9.60 | 9.49 | 22.65 | 22.72 | 113.60 | 107.50 | 7.50 | 7.10 | 3.79 | 3.71 | 3.5 | |
| | | | 12:14 | 2.6 | 1.3 | 30.67 | | 9.37 | | 22.79 | | 101.40 | | 6.69 | | 3.62 | | 3.4 | _ |
| | 29/7/2022 | Sunny | 12:14 12:15 | 2.8 | 1.4 | 30.79 30.93 | 30.86 | 9.43 9.48 | 9.46 | 24.03 24.12 | 24.08 | 110.10 | 109.35 | 7.20 | 7.14 | 4.80 4.43 | 4.62 | 3.0 | |

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

| | Sampling | | Sampling | Water | Sampling | | erature | ı | Н | Sa | linity | | aturation | | 00 | | bidity | | SS |
|-------------------|-----------|-----------------------------|--------------|---|----------|-------|---------|-------|---------|------------|--------------|-------------|-----------|--------------|------|--------------|--------|-------|------|
| Station Reference | Date | Weather | Time | Depth | Depth | | С | | | | pt | | % | | g/L | | TU | | ng/L |
| | | | | m | m | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | Т8 | | | | | | | Samplin | g was cano | elled due to | adverse wea | ather | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | Sampling was cancelled due to adverse weather | | | | | | | | | | | | | | | |
| | 6/7/2022 | Sunny | | | | | 28.21 | | 8.90 | | 14.20 | | 113.60 | | 8.16 | | 6.40 | 2.7 | 2.7 |
| | | | 13:10 | | 1.5 | 29.26 | | 9.22 | | 9.21 | | 112 60 | | 8 19 | | | | F.0. | |
| | 8/7/2022 | Cloudy | | | | | 29.25 | | 9.20 | | 9.21 | | 112.70 | | 8.21 | | 6.78 | 5.4 | |
| | 11/7/2022 | | 9:45 | 2.8 | 1.4 | 30.36 | 00.00 | 9.61 | 0.00 | 14.19 | | 118.10 | 440.00 | 8.21 | 7.05 | 4.15 | 0.00 | 2.8 | 2.7 |
| | 11///2022 | Sunny | 9:46 | 2.8 | 1.4 | 30.40 | 30.38 | 9.76 | 9.69 | 14.10 | 14.15 | 101.90 | 110.00 | 7.08 | 7.65 | 3.71 | 3.93 | 2.5 | 2.1 |
| | 13/7/2022 | Sunnv | 10:01 | 2.8 | 1.4 | 29.85 | 20.05 | 9.37 | 0.41 | 17.57 | 17.66 | 123.60 | 122 OE | 8.51 | 0.47 | 3.87 | 2 17 | <1.0 | 1.0 |
| | 13/1/2022 | Suriny | 10:02 | 2.8 | 1.4 | 29.85 | 25.03 | 9.44 | 5.41 | 17.54 | 17.30 | 122.30 | 122.00 | 8.42 | 0.47 | 2.47 | 3.17 | <1.0 | 1.0 |
| SR15 | 15/7/2022 | Sunny | 13:12 | | | | 30.09 | | 9.28 | | 19.46 | | 107.75 | | 7.31 | | 4 78 | <1.0 | 1.0 |
| | | , | 13:13 | | 1.5 | 30.09 | | | 0.20 | 19.55 | 10110 | 101.80 | | | | 4.05 | | <1.0 | |
| | 18/7/2022 | Cloudy | 13:05 | 2.9 | 1.5 | 30.04 | 30.05 | | 9.01 | | 21 40 | | 113 60 | | 7.63 | | 8 50 | 5.1 | |
| | | , | | | | | | | | | | | | | | | | 5.0 | |
| | 20/7/2022 | Sunny | 14:24 | 2.9 | 1.5 | 30.43 | 30.38 | 9.21 | 9.14 | 20.14 | 20.15 | 113.30 | 115.30 | 7.61 | 7.76 | 5.58 | 5.02 | 2.8 | |
| | | - | 14:25 | 2.9 | 1.5 | 30.33 | | 9.06 | | 20.16 | | 117.30 | | 7.90 | | 4.45 | | 3.1 | |
| | 22/7/2022 | Sunny | 9:35 | 2.9 | 1.5 | 29.86 | 29.89 | 9.21 | 9.29 | 21.76 | 21.81 | 117.20 | 111.25 | 7.88 | 7.48 | 6.44 | 5.79 | 3.2 | |
| | | | 9:36 | 2.9 | 1.5 | 29.92 | | 9.36 | | 21.85 | | 105.30 | | 7.07 | | 5.13 | | 2.8 | |
| | 25/7/2022 | Sunny | 9:40 | 2.7 | 1.4 | 31.17 | 31.24 | 7.17 | 7.33 | 19.76 | 19.69 | 112.90 | 106.40 | 7.51 | 7.08 | 5.73 | 4.91 | 2.1 | |
| | | | 9:41 | 2.7 | 1.4 | 31.31 | | 7.49 | | 19.61 | | 99.90 | | 6.64 | | 4.09 | | 2.1 | - |
| | 27/7/2022 | Sunny | 9:37 9:38 | 2.7 | 1.4 | 30.40 | 30.44 | 10.92 | 10.16 | 20.79 | 20.49 | 113.20 | 107.70 | 7.58 6.84 | 7.21 | 5.44 4.98 | 5.21 | 4.4 | 4.5 |
| | | | 9:38 | 2.7 | 1.4 | 29.76 | | 9.39 | | 20.19 | - | 102.20 | | 8.02 | | 4.98 5.85 | | 2.6 | |
| | 29/7/2022 | Sunny | 9:42 | 2.8 | 1.4 | 29.76 | 29.80 | 9.33 | 9.35 | 24.13 | 23.96 | 120.50 | 120.30 | 7.97 | 8.00 | 4.77 | 5.31 | 2.6 | |
| | | 1 | 9.43 | 2.8 | 1.4 | 29.84 | | 9.36 | | 24.13 | 1 | 120.10 | | 7.97 | | 4.// | 1 | 2.4 | 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.

am

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

| | Sampling | | Sampling | Water | Sampling | Tempe | | P | Н | Salir | nity | DO Sa | turation | | 00 | Turt | oidity | | SS |
|-------------------|-----------|-----------------------------|----------|-------|----------|-------|-------|-------|---------|--------------|--------------|------------|----------|-------|------|-------|--------|-------|------|
| Station Reference | Date | Weather | Time | Depth | Depth | ° | 2 | | | pp | | | % | m | g/L | | TU | m | ng/L |
| | | | | m | m | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | T8 | | | | | | | Samplin | g was cancel | led due to a | dverse wea | ther | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cancel | led due to a | dverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 9:56 | 2.9 | 1.5 | 28.16 | 28.18 | 8.75 | 8.84 | 15.17 | 15.23 | 84.90 | 102.10 | 6.09 | 7.32 | 9.50 | 7.81 | 1.7 | 1.6 |
| | | , | 9:57 | 2.9 | 1.5 | 28.20 | | 8.92 | | 15.28 | | 119.30 | | 8.55 | | 6.12 | | 1.4 | |
| | 8/7/2022 | Cloudy | 10:13 | 2.8 | 1.4 | 28.96 | 28 95 | 9.08 | 9.09 | 12.13 | 12 04 | 123.50 | 123.30 | 8.89 | 8.88 | 5.48 | 5.70 | 3.0 | |
| | | , | 10:14 | 2.8 | 1.4 | 28.93 | | 9.10 | 0.00 | 11.94 | .= | 123.10 | | 8.87 | 0.00 | 5.92 | | 2.7 | |
| | 11/7/2022 | Sunny | 12:58 | 2.3 | 1.2 | 30.59 | 30.56 | 9.80 | 9.72 | 12.84 | 12.88 | 113.70 | 113.95 | 7.93 | 7.95 | 5.18 | 4.64 | 4.2 | |
| | | , | 12:59 | 2.3 | 1.2 | 30.52 | | 9.63 | | 12.92 | | 114.20 | | 7.97 | | 4.09 | | 3.7 | |
| | 13/7/2022 | Sunny | 13:06 | 2.9 | 1.5 | 30.31 | 30.27 | 9.60 | 9.55 | 16.26 | 16.25 | 112.80 | 113.00 | 7.76 | 7 78 | 2.56 | 2 41 | <1.0 | 1.0 |
| | | , | 13:07 | 2.9 | 1.5 | 30.23 | | 9.49 | 0.00 | 16.24 | | 113.20 | | 7.79 | | 2.26 | | <1.0 | |
| SR15 | 15/7/2022 | Sunny | 9:36 | 2.7 | 1.4 | 29.46 | 29.48 | 9.09 | 9.09 | 19.25 | 19.23 | 125.40 | 124.55 | 8.60 | 8.55 | 3.89 | 3.92 | <1.0 | 1.0 |
| | | , | 9:37 | 2.7 | 1.4 | 29.49 | | 9.09 | | 19.20 | | 123.70 | | 8.49 | | 3.94 | | <1.0 | |
| | 18/7/2022 | Cloudy | 9:48 | 2.8 | 1.4 | 29.15 | 29.18 | 8.92 | 9.02 | 21.88 | 21.78 | 125.90 | 125.75 | 8.56 | 8.55 | 5.33 | 5.44 | 4.2 | |
| | | | 9:49 | 2.8 | 1.4 | 29.21 | | 9.11 | | 21.67 | | 125.60 | | 8.53 | | 5.55 | | 4.1 | |
| | 20/7/2022 | Sunny | 11:37 | 2.8 | 1.4 | 30.22 | 30.18 | 9.12 | 9.06 | 20.25 | 20.47 | 120.60 | 120.25 | 8.13 | 8.07 | 5.70 | 4.77 | 3.2 | |
| | | , | 11:38 | 2.8 | 1.4 | 30.14 | | 8.99 | | 20.69 | | 119.90 | | 8.01 | | 3.84 | | 3.1 | |
| | 22/7/2022 | Sunny | 13:07 | 2.7 | 1.4 | 31.58 | 31.53 | 9.51 | 9.47 | 19.51 | 19.58 | 115.10 | 114.60 | 7.62 | 7.59 | 4.56 | 4.69 | 3.4 | |
| | | - | 13:08 | 2.7 | 1.4 | 31.47 | | 9.42 | | 19.64 | | 114.10 | | 7.56 | | 4.81 | | 3.8 | |
| | 25/7/2022 | Sunny | 13:11 | 2.8 | 1.4 | 32.62 | 32.64 | 9.20 | 9.20 | 19.61 | 19.66 | 112.60 | 109.80 | 7.32 | 7.14 | 4.89 | 4.15 | 2.4 | |
| | | , | 13:12 | 2.8 | 1.4 | 32.65 | | 9.19 | | 19.71 | | 107.00 | | 6.97 | | 3.41 | | 2.7 | |
| | 27/72022 | Sunny | 13:04 | 2.6 | 1.3 | 31.01 | 30.93 | 9.29 | 9.32 | 20.37 | 20.40 | 104.80 | 105.45 | 6.96 | 7.02 | 5.00 | 4.28 | 3.6 | |
| | | | 13:05 | 2.6 | 1.3 | 30.85 | | 9.35 | | 20.43 | | 106.10 | | 7.07 | | 3.56 | | 4.0 | |
| | 29/7/2022 | Sunny | 13:01 | 2.8 | 1.4 | 31.45 | 31.43 | 9.19 | 9.19 | 23.46 | 23.56 | 107.10 | 104.85 | 6.95 | 6.80 | 4.31 | 4.17 | 3.8 | |
| | | | 13:02 | 2.8 | 1.4 | 31.40 | | 9.18 | | 23.65 | | 102.60 | | 6.65 | | 4.02 | | 3.5 | |

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

| Station Reference | Sampling | Weather | Sampling | Water Depth | Sampling Depth | | erature C | | Н | Sali | | | turation | | 00 | | bidity | _ | SS |
|-------------------|-----------|-----------------------------|----------|----------------|-------------------|-------|--------------|-------|----------|--------------|--------------|------------|----------|-------|------------|-------|-----------|-------|-------------|
| Station Reference | Date | vveatriei | Time | m | m | | AVG | Value | AVG | Value | AVG | | % AVG | Value | g/L AVG | Value | TU AVG | Value | ng/L AVG |
| | 2/7/2022 | Т8 | | - 111 | | value | AVO | value | | a was cancel | | | | value | AVO | value | AVO | value | AVO |
| | 2/1/2022 | | | | | | | | Jampiiii | y was cancer | ieu uue to t | uvelse wea | ili lei | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cancel | led due to a | dverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 12:00 | 8.7 | 1.0 | 28.04 | 28.02 | 9.80 | 9.38 | 17.87 | 18.09 | 120.10 | 123.95 | 8.50 | 8.77 | 6.37 | 6.12 | 3.4 | 3.5 |
| | 0/1/2022 | Suriny | 12:01 | 8.7 | 1.0 | 27.99 | 20.02 | 8.95 | 3.30 | 18.30 | 10.05 | 127.80 | 123.53 | 9.04 | 0.77 | 5.87 | 0.12 | 3.6 | 0.0 |
| | 8/7/2022 | Cloudy | 12:09 | 8.5 | 1.0 | 28.78 | 28 77 | 9.34 | 9.31 | 14.16 | 14 16 | 124.90 | 130.25 | 8.91 | 9.30 | 5.35 | 5.32 | 5.0 | |
| | 0/1/2022 | Cioudy | 12:10 | 8.5 | 1.0 | 28.76 | 20.77 | 9.28 | 5.51 | 14.15 | 14.10 | 135.60 | 130.23 | 9.68 | 5.50 | 5.28 | 3.32 | 4.7 | **.0 |
| | 11/7/2022 | Sunny | 10:55 | 8.6 | 1.0 | 30.21 | 30.21 | 9.54 | 9.64 | 13.28 | 13.36 | 114.70 | 114.30 | 8.03 | 8.00 | 5.90 | 6.04 | 2.9 | 2.8 |
| | 11///2022 | Suriny | 10:56 | 8.6 | 1.0 | 30.20 | 30.21 | 9.73 | 3.04 | 13.44 | 13.30 | 113.90 | 114.30 | 7.97 | 0.00 | 6.17 | 0.04 | 2.6 | 2.0 |
| | 13/7/2022 | Sunny | 11:06 | 9.6 | 1.0 | 29.63 | 29.62 | 9.40 | 9.40 | 15.48 | 15.48 | 130.30 | 124 10 | 9.10 | 9 17 | 3.94 | 3.80 | 1.7 | 1.8 |
| | TOTTLOLL | Curry | 11:07 | 9.6 | 1.0 | 29.61 | 20.02 | 9.40 | 0.40 | 15.47 | 10.40 | 117.90 | 124.10 | 9.24 | 0.11 | 3.66 | 0.00 | 1.9 | |
| CE | 15/7/2022 | Sunny | 12:00 | 8.6 | 1.0 | 29.44 | 29.46 | 9.40 | 9.37 | 21.58 | 21.57 | 158.20 | 139.30 | 10.72 | 9 4 4 | 5.53 | 4.85 | 1.7 | 1.8 |
| OL. | 13/7/2022 | Suriny | 12:01 | 8.6 | 1.0 | 29.47 | 25.40 | 9.34 | 5.51 | 21.55 | 21.37 | 120.40 | 138.30 | 8.16 | 5.44 | 4.17 | 4.03 | 1.9 | 1.0 |
| | 18/7/2022 | Cloudy | 12:01 | 9.3 | 1.0 | 29.94 | 29.90 | 8.91 | 8.95 | 22.01 | 22.22 | 116.90 | 115.45 | 7.83 | 7.73 | 4.91 | 4.67 | 2.3 | 2.3 |
| | TOTTLOLL | Oloudy | 12:02 | 9.3 | 1.0 | 29.85 | 20.00 | 8.98 | 0.00 | 22.43 | | 114.00 | 110.40 | 7.63 | 7.70 | 4.43 | 4.07 | 2.2 | |
| | 20/7/2022 | Sunny | 13:16 | 8.9 | 1.0 | 30.11 | 30.10 | 9.00 | 8.96 | 30.11 | 30.10 | 100.60 | 101.80 | 6.81 | 6.89 | 4.30 | 4.22 | 3.4 | 3.3 |
| | 20/1/2022 | Suriny | 13:17 | 8.9 | 1.0 | 30.09 | 30.10 | 8.92 | 0.50 | 30.09 | 30.10 | 103.00 | 101.00 | 6.97 | 0.03 | 4.13 | 4.22 | 3.1 | 0.0 |
| | 22/7/2022 | Sunny | 10:42 | 8.5 | 1.0 | 29.89 | 29.89 | 9.25 | 9 14 | 22.35 | 22.28 | 114.70 | 114.30 | 7.68 | 7.66 | 3.30 | 3.47 | 2.8 | 2.9 |
| | LLITTEOLL | Curry | 10:43 | 8.5 | 1.0 | 29.88 | 20.00 | 9.03 | 0.14 | 22.21 | 22.20 | 113.90 | 114.00 | 7.64 | 7.00 | 3.63 | 0.47 | 2.9 | |
| | 25/7/2022 | Sunny | 10:46 | 8.4 | 1.0 | 30.58 | 30.63 | 9.26 | 9.19 | 23.12 | 23.14 | 113.70 | 109.50 | 7.50 | 7.22 | 3.22 | 3.25 | 1.8 | 1.8 |
| | 23/1/2022 | Suriny | 10:47 | 8.4 | 1.0 | 30.68 | 30.03 | 9.11 | 3.13 | 23.15 | 23.14 | 105.30 | 108.30 | 6.93 | 1.22 | 3.28 | 3.23 | 1.7 | 1.0 |
| | 27/7/2022 | Sunny | 10:47 | 8.2 | 1.0 | 30.35 | 30.25 | 9.27 | 9.31 | 22.91 | 22 97 | 115.80 | 108.70 | 7.67 | 7.21 | 6.39 | 5.30 | 3.8 | |
| | 211112022 | Carrily | 10:48 | 8.2 | 1.0 | 30.15 | 30.23 | 9.34 | 9.51 | 23.02 | 22.01 | 101.60 | 130.70 | 6.75 | 7.21 | 4.21 | 3.30 | 4.1 | 4.0 |
| | 29/7/2022 | Sunny | 10:49 | 8.6 | 1.0 | 30.39 | 30.39 | 9.52 | 9.53 | 23.76 | 23.89 | 113.90 | 111.15 | 7.50 | 7.32 | 6.18 | 5.39 | 3.0 | |
| | LUITILULL | Cumy | 10:50 | 8.6 | 1.0 | 30.38 | 00.00 | 9.54 | 0.00 | 24.01 | 20.00 | 108.40 | 111.10 | 7.14 | 7.02 | 4.60 | 0.00 | 2.7 | |

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

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

| | Sampling | | Sampling | Water | Sampling | Tempe | | р | Н | Salir | nity | DO Sal | turation | | 00 | Turk | oidity | | SS |
|-------------------|-----------|-----------------------------|----------|-------|----------|-------|-------|-------|---------|--------------|--------------|-------------|----------|-------|------|-------|--------|-------|------|
| Station Reference | Date | Weather | Time | Depth | Depth | °C | | | - | pp | | 9 | | | g/L | | TU | | ng/L |
| | Duto | | 11110 | m | m | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | Т8 | | | | | | | Samplin | g was cancel | led due to a | dverse weat | her | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cancel | led due to a | dverse weat | her | | | | | | |
| | 6/7/2022 | Sunny | 10:58 | 7.6 | 1.0 | 28.09 | 28.10 | 9.00 | 8.96 | 15.74 | 17.31 | 114.00 | 113.85 | 8.17 | 8.15 | 6.22 | 5.98 | 2.3 | |
| | ******** | , | 10:59 | 7.6 | 1.0 | 28.10 | | 8.92 | | 18.88 | | 113.70 | | 8.13 | | 5.74 | | 2.1 | |
| | 8/7/2022 | Cloudy | 11:13 | 8.4 | 1.0 | 29.01 | 28.99 | 9.32 | 9.26 | 10.05 | 10.11 | 99.20 | 106.70 | 7.22 | 7.77 | 6.57 | 6.54 | 3.6 | |
| | | , | 11:14 | 8.4 | 1.0 | 28.97 | | 9.20 | | 10.16 | | 114.20 | | 8.31 | | 6.51 | | 3.8 | |
| | 11/7/2022 | Sunny | 12:05 | 8.3 | 1.0 | 30.55 | 30.55 | 10.00 | 9.95 | 13.47 | 13.47 | 145.30 | 141.05 | 10.10 | 9.81 | 5.01 | 4.78 | 4.1 | |
| | | , | 12:06 | 8.3 | 1.0 | 30.54 | | 9.90 | | 13.46 | | 136.80 | | 9.52 | | 4.54 | | 3.8 | |
| | 13/7/2022 | Sunny | 12:02 | 9.4 | 1.0 | 29.92 | 29.89 | 9.45 | 9.41 | 15.22 | 15.29 | 114.40 | 114.20 | 7.96 | 7.95 | 4.46 | 4.03 | <1.0 | 1. |
| | | - | 12:03 | 9.4 | 1.0 | 29.86 | | 9.36 | | 15.35 | | 114.00 | | 7.94 | | 3.60 | | <1.0 | |
| CE | 15/7/2022 | Sunny | 10:43 | 9.4 | 1.0 | 29.58 | 29.58 | 9.04 | 9.14 | 21.29 | 21.22 | 114.20 | 106.05 | 7.73 | 7.19 | 3.56 | 3.74 | <1.0 | 1. |
| | | - | 10:44 | 9.4 | 1.0 | 29.57 | | 9.23 | | 21.15 | | 97.90 | | 6.64 | | 3.92 | | <1.0 | |
| | 18/7/2022 | Cloudy | 10:55 | 8.9 | 1.0 | 29.72 | 29.71 | 8.98 | 8.95 | 21.80 | 22.02 | 114.60 | 114.25 | 7.72 | 7.69 | 6.07 | 5.32 | 2.2 | |
| | | | 10:56 | 8.9 | 1.0 | 29.69 | | 8.91 | | 22.24 | | 113.90 | | 7.65 | | 4.56 | | 2.6 | |
| | 20/7/2022 | Sunny | 12:38 | 8.7 | 1.0 | 29.94 | 29.92 | 8.98 | 8.95 | 19.88 | 19.94 | 114.70 | 113.97 | 7.78 | 7.73 | 4.75 | 4.33 | 1.5 | |
| | | | 12:39 | 8.7 | 1.0 | 29.89 | | 8.91 | | 19.99 | | 113.23 | | 7.68 | | 3.90 | | 1.3 | |
| | 22/7/2022 | Sunny | 12:02 | 8.3 | 1.0 | 30.39 | 30.34 | 9.14 | 9.15 | 21.15 | 21.37 | 115.30 | 108.65 | 7.71 | 7.27 | 5.10 | 4.92 | 3.7 | |
| | | , | 12:03 | 8.3 | 1.0 | 30.29 | | 9.15 | | 21.58 | | 102.00 | | 6.82 | | 4.73 | | 3.9 | |
| | 25/7/2022 | Sunny | 12:00 | 8.6 | 1.0 | 31.19 | 30.71 | 8.77 | 8.97 | 22.80 | 22.82 | 103.70 | 102.95 | 6.89 | 6.84 | 4.00 | 3.78 | 4.1 | |
| | | , | 12:01 | 8.6 | 1.0 | 30.22 | | 9.16 | | 22.84 | | 102.20 | | 6.79 | | 3.55 | | 4.2 | |
| | 27/72022 | Sunny | 12:00 | 8.2 | 1.0 | 29.40 | 29.46 | 9.24 | 9.20 | 25.22 | 25.36 | 107.80 | 104.60 | 7.17 | 6.95 | 3.24 | 3.31 | 4.3 | |
| | | | 12:01 | 8.2 | 1.0 | 29.51 | | 9.16 | | 25.49 | | 101.40 | | 6.72 | | 3.38 | | 4.7 | |
| | 29/7/2022 | Sunny | 12:00 | 8.4 | 1.0 | 31.92 | 31.72 | 9.55 | 9.49 | 23.38 | 23.67 | 116.90 | 115.75 | 7.54 | 7.48 | 5.08 | 4.84 | 1.9 | |
| | | | 12:01 | 8.4 | 1.0 | 31.52 | | 9.43 | | 23.96 | | 114.60 | | 7.41 | | 4.59 | | 1.7 | |

Lam Environmental Carviaca Limited

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

| Station Reference | Sampling | Weather | Sampling | Water Depth | Sampling Depth | | erature C | F | Н | | inity | | aturation | | 00 | | bidity | | SS |
|-------------------|-----------|-----------------------------|----------|----------------|-------------------|-------|--------------|-------|---|-------------|----------------|-------------|-----------|-------|------------|-------|-----------|-------|------------|
| Station Reference | Date | vveaulei | Time | | | Value | AVG | Value | AVG | Value | AVG | | % AVG | Value | g/L AVG | Value | TU AVG | Value | g/L AVG |
| | | | | m | m | value | AVG | value | AVG | value | AVG | value | AVG | value | AVG | value | AVG | value | AVG |
| | 2/7/2022 | T8 | | | | | | | Samplin | g was cance | elled due to a | adverse wea | ather | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cance | elled due to a | adverse wea | ather | | | | | | |
| | 6/7/2022 | Sunny | 12:04 | 8.7 | 4.4 | 27.72 | 27.76 | 8.17 | 8.57 | 22.02 | 22.03 | 118.90 | 117 45 | 8.27 | 8.20 | 5.73 | 5.88 | 3.4 | |
| | OTTEGEE | Cumy | 12:05 | 8.7 | 4.4 | 27.79 | 27.70 | 8.96 | 0.07 | 22.03 | 22.00 | 116.00 | 117.40 | 8.12 | 0.10 | 6.02 | 0.00 | 3.0 | |
| | 8/7/2022 | Cloudy | 12:13 | 8.5 | 4.3 | 28.37 | 28.34 | 9.14 | | 19.64 | 19.98 | 127.00 | 125.90 | 8.86 | 8 77 | 5.44 | 5 40 | 4.4 | 4.3 |
| | | , | 12:14 | 8.5 | 4.3 | 28.30 | | 9.13 | **** | 20.31 | | 124.80 | | 8.68 | **** | 5.35 | | 4.1 | |
| | 11/7/2022 | Sunny | 10:59 | 8.6 | 4.3 | 29.56 | 29.52 | 9.28 | 9.22 | 17.94 | 18.09 | 115.20 | 114 70 | 7.95 | 7.92 | 5.36 | 4 77 | 3.2 | |
| | | , | 11:00 | 8.6 | 4.3 | 29.48 | | 9.16 | | 18.23 | | 114.20 | | 7.88 | | 4.17 | | 3.4 | |
| | 13/7/2022 | Sunny | 11:10 | 9.6 | 4.8 | 29.60 | 29 59 | 9.60 | 9.54 | 16.96 | 17.01 | 117.20 | 112 60 | 8.12 | 7.81 | 5.62 | 4.52 | 2.6 | |
| | | , | 11:11 | 9.6 | 4.8 | 29.58 | | 9.48 | | 17.05 | | 108.00 | | 7.49 | | 3.42 | | 2.8 | |
| CE | 15/7/2022 | Sunny | 12:04 | 8.6 | 4.3 | 29.19 | 24.16 | 9.32 | 9.27 | 21.96 | 22.22 | 140.10 | 138.10 | 9.51 | 9.37 | 5.47 | 4.99 | 2.6 | |
| | | | 12:05 | 8.6 | 4.3 | 19.13 | | 9.21 | | 22.48 | | 136.10 | | 9.23 | | 4.51 | | 2.8 | |
| | 18/7/2022 | Cloudy | 12:05 | 9.3 | 4.7 | 29.54 | 29.62 | 8.87 | 8.86 | 22.53 | 22 66 | 114.70 | 113.80 | 7.72 | 7 65 | 4.20 | 4 18 | 2.6 | |
| | | , | 12:06 | 9.3 | 4.7 | 29.70 | | 8.85 | | 22.78 | | 112.90 | | 7.57 | | 4.15 | | 2.4 | |
| | 20/7/2022 | Sunny | 13:20 | 8.9 | 4.5 | 30.04 | 30.02 | 8.99 | | 30.03 | 30.02 | 111.20 | 112.30 | 7.55 | 7.62 | 5.27 | 4.63 | 2.8 | |
| | | | 13:21 | 8.9 | 4.5 | 30.00 | | 8.90 | | 30.00 | | 113.40 | | 7.68 | | 3.99 | | 2.6 | |
| | 22/7/2022 | Sunny | 10:46 | 8.5 | 4.3 | 30.07 | 30.08 | 9.35 | | 21.53 | 21.52 | 112.30 | 112 70 | 7.54 | 7.57 | 4.10 | 4 05 | 2.4 | |
| | | , | 10:47 | 8.5 | 4.3 | 30.09 | | 9.24 | | 21.50 | | 113.10 | | 7.59 | | 4.00 | | 2.5 | |
| | 25/7/2022 | Sunny | 10:50 | 8.4 | 4.2 | 30.36 | 30.36 | 9.03 | 9.11 | 24.80 | 24.92 | 113.10 | 112.65 | 7.41 | 7.38 | 2.79 | 2.69 | 1.6 | |
| | | | 10:51 | 8.4 | 4.2 | 30.36 | 70.00 | 9.19 | • | 25.03 | | 112.20 | | 7.35 | 1.00 | 2.58 | | 1.6 | |
| | 27/7/2022 | Sunny | 10:51 | 8.2 | 4.1 | 30.15 | 30.15 | 9.30 | 9.38 | 22.91 | 23.05 | 114.40 | 110.65 | 7.61 | 7.36 | 3.98 | 3.71 | 4.6 | |
| | | 221119 | 10:52 | 8.2 | 4.1 | 30.14 | 30.10 | 9.45 | 0.00 | 23.19 | _0.00 | 106.90 | . 10.00 | 7.10 | 7.00 | 3.44 | 0.71 | 4.8 | |
| | 29/7/2022 | Sunny | 10:53 | 8.6 | 4.3 | 30.31 | 30.35 | 9.54 | 9.48 | 23.71 | 23.85 | 114.90 | 113.10 | 7.58 | 7.46 | 5.94 | 5.04 | 2.5 | |
| | | | 10:54 | 8.6 | 4.3 | 30.39 | | 9.41 | | 23.99 | | 111.30 | | 7.33 | | 4.14 | | 2.4 | |

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

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

| Station Reference | Sampling | Weather | Sampling | Water | Sampling Depth | Tempe | erature C | F |)H | Salir | _ | DO Sai | | DC ma | | Turt N | | | SS ng/L |
|-------------------|-----------|-----------------------------|----------|-------|-------------------|-------|--------------|-------|---------|--------------|--------------|-------------|--------|----------|------|-----------|------|-------|------------|
| | Date | | Time | m | m | Value | AVG | Value | AVG | | AVG | | AVG | | AVG | | AVG | Value | AVG |
| | 2/7/2022 | Т8 | | | | | | | Samplin | g was cancel | led due to a | dverse weat | her | | | | | , | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cancel | led due to a | dverse weat | her | | | | | | |
| | 6/7/2022 | Sunny | 11:01 | 7.6 | 3.8 | 28.11 | 28.06 | 8.99 | 9.03 | 15.95 | 16.01 | 113.80 | 113.80 | 8.13 | 8 14 | 5.73 | 5 59 | 2.6 | ì |
| | ********* | , | 11:02 | 7.6 | 3.8 | 28.00 | | 9.07 | | 16.06 | | 113.80 | | 8.14 | | 5.45 | | 3.0 |) |
| | 8/7/2022 | Cloudy | 11:17 | 8.4 | 4.2 | 28.83 | 28.82 | 9.30 | 9.19 | 14.85 | 14.89 | 110.90 | 112.61 | 7.88 | 8.00 | 5.02 | 5.09 | 3.4 | |
| | | | 11:18 | 8.4 | 4.2 | 28.81 | | 9.08 | | 14.93 | | 114.32 | | 8.12 | | 5.15 | | 3.2 | _ |
| | 11/7/2022 | Sunny | 12:09 | 8.3 | 4.2 | 29.28 | 29.35 | 9.44 | 9.27 | 21.00 | 21.17 | 134.80 | 126.10 | 9.19 | 8.59 | 3.49 | 3.56 | 3.0 | |
| | | , | 12:10 | 8.3 | 4.2 | 29.41 | | 9.10 | | 21.33 | | 117.40 | | 7.98 | | 3.62 | | 3.5 | _ |
| | 13/7/2022 | Sunny | 12:06 | 9.4 | 4.7 | 29.52 | 29.49 | 9.44 | 9.30 | 18.11 | 18.21 | 115.20 | 114.55 | 7.94 | 7.90 | 6.17 | 5.13 | 1.7 | |
| | | / | 12:07 | 9.4 | 4.7 | 29.45 | | 9.15 | | 18.30 | | 113.90 | | 7.86 | | 4.09 | | 1.5 | |
| CE | 15/7/2022 | Sunny | 10:47 | 9.4 | 4.7 | 29.22 | 29.19 | 9.15 | | 22.00 | 22.08 | 115.20 | 115.00 | 7.81 | 7.80 | 4.60 | 4.11 | 1.7 | |
| | | - | 10:48 | 9.4 | 4.7 | 29.16 | | 8.99 | | 22.15 | | 114.80 | | 7.79 | | 3.61 | | 1.5 | |
| | 18/7/2022 | Cloudy | 10:59 | 8.9 | 4.5 | 29.65 | 29.67 | 8.99 | | 22.28 | 22.35 | 114.50 | 114.35 | 7.70 | 7.69 | 5.19 | 4.61 | 2.9 | |
| | | | 11:00 | 8.9 | 4.5 | 29.69 | | 8.96 | | 22.41 | | 114.20 | | 7.67 | | 4.03 | | 2.8 | |
| | 20/7/2022 | Sunny | 12:42 | 8.7 | 4.4 | 29.96 | 29.96 | 8.99 | 8.93 | 19.86 | 20.07 | 111.20 | 112.25 | 7.54 | 7.60 | 4.27 | 4.20 | 1.8 | |
| | | - | 12:43 | 8.7 | 4.4 | 29.96 | | 8.87 | | 20.27 | | 113.30 | | 7.65 | | 4.13 | | 1.9 | |
| | 22/7/2022 | Sunny | 12:06 | 8.3 | 4.2 | 29.79 | 29.71 | 9.12 | | 22.20 | 22.40 | 114.30 | 113.85 | 7.67 | 7.65 | 4.35 | 3.73 | 3.2 | |
| | | | 12:07 | 8.3 | 4.2 | 29.62 | | 9.06 | | 22.60 | | 113.40 | | 7.62 | | 3.11 | | 2.9 | |
| | 25/7/2022 | Sunny | 12:04 | 8.6 | 4.3 | 29.44 | 29.47 | 8.66 | 9.11 | 18.52 | 21.08 | 98.00 | 97.05 | 6.50 | 6.43 | 2.72 | 2.53 | 3.8 | |
| | | - | 12:05 | 8.6 | 4.3 | 29.49 | | 9.55 | | 23.64 | | 96.10 | | 6.36 | | 2.34 | | 3.4 | |
| | 27/72022 | Sunny | 12:04 | 8.2 | 4.1 | 28.95 | 28.97 | 9.16 | 9.30 | 26.35 | 26.39 | 99.50 | 99.90 | 6.62 | 6.65 | 3.05 | 3.11 | 3.9 | |
| | | - | 12:05 | 8.2 | 4.1 | 28.99 | | 9.44 | | 26.42 | | 100.30 | | 6.67 | | 3.16 | | 4.2 | _ |
| | 29/7/2022 | Sunny | 12:04 | 8.4 | 4.2 | 31.33 | 31.37 | 9.55 | | 23.86 | 23.93 | 104.80 | 103.55 | 6.80 | 6.72 | 4.91 | 4.78 | 2.4 | |
| | | n of puorogo o | 12:05 | 8.4 | 4.2 | 31.40 | | 9.48 | | 24.00 | | 102.30 | | 6.63 | | 4.64 | | 2.6 | 3 |

om Environmental Carviaca Limitad

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

| Station Reference | Sampling | Weather | Sampling | Water Depth | Sampling Depth | | erature C | ı | Н | | linity | | aturation | | 00 | | bidity | | SS |
|-------------------|-----------|-----------------------------|----------|----------------|-------------------|----------------|--------------|--------------|---------|------------|--------------|------------------|-----------|--------------|------------|---------|-----------|---------|-------------|
| Station Reference | Date | vveatner | Time | m | | Value | AVG | Value | AVG | Value | AVG | Value | % AVG | Value | g/L AVG | Value N | TU AVG | Value n | ng/L AVG |
| | | | | m | m | value | AVG | value | AVG | value | AVG | value | AVG | value | AVG | value | AVG | value | AVG |
| | 2/7/2022 | T8 | | | | | | | Samplin | g was cano | elled due to | adverse wea | ather | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cano | elled due to | adverse wea | ather | | | | | | |
| | 6/7/2022 | Sunny | 12:07 | 8.7 | 7.7 | 27.81 | 27.83 | 9.07 | 9.01 | 23.05 | 24.83 | 115.80 | 115.25 | 8.00 | | 7.15 | 6.98 | 3.7 | |
| | OWNEDEE | Curiny | 12:08 | 8.7 | 7.7 | 27.85 | 27.00 | 8.94 | 0.01 | 26.61 | 24.00 | 114.70 | 110.20 | 7.89 | 7.50 | 6.81 | 0.50 | 4.0 |) |
| | 8/7/2022 | Cloudy | 12:16 | 8.5 | 7.5 | 28.27 | 28.27 | 8.96 | 8.95 | 22.26 | 22.38 | 122.10 | 118.50 | 8.40 | 8.15 | 5.10 | 5 14 | 3.4 | |
| | | , | 12:17 | 8.5 | 7.5 | 28.26 | | 8.93 | 0.00 | 22.49 | | 114.90 | | 7.90 | | 5.17 | | 3.6 | |
| | 11/7/2022 | Sunny | 11:02 | 8.6 | 7.6 | 29.10 | 29.04 | 9.10 | 9.07 | 21.49 | 21.54 | 114.70 | 114.20 | 7.82 | | 2.81 | 2.87 | 3.7 | |
| | | , | 11:03 | 8.6 | 7.6 | 28.97 | | 9.04 | | 21.58 | | 113.70 | | 7.76 | | 2.93 | | 4.0 | |
| | 13/7/2022 | Sunny | 11:14 | 9.6 | 8.6 | 28.71 | 28.74 | 9.53 | 9.12 | 26.90 | 27.00 | 116.80 | 115.65 | 7.78 | 7.70 | 8.12 | 7.87 | 3.0 | |
| | | | 11:15 | 9.6 | 8.6 | 28.76 | | 8.71 | | 27.10 | | 114.50 | | 7.61 | | 7.61 | | 3.4 | |
| CE | 15/7/2022 | Sunny | 12:07 | 8.6 | 7.6 | 28.95 | 28.91 | 9.10 | 9.03 | 23.58 | 23.66 | 131.70 | 129.85 | 8.90 | 8.78 | 5.38 | 5.30 | 3.0 | |
| | | | 12:08 | 8.6 | 7.6 | 28.87 | | 8.95 | | 23.73 | | 128.00 | | 8.65 | | 5.21 | | 3.4 | |
| | 18/7/2022 | Cloudy | 12:09 | 9.3 | 8.3 | 29.62 | 29.63 | 8.82 | 8.75 | 23.42 | 23.63 | 113.60 | 113.30 | 7.60 | 7.57 | 3.94 | 4.06 | 2.8 | |
| | | | 12:10 | 9.3 8.9 | 8.3 7.9 | 29.64 29.99 | | 8.67 8.91 | | 23.84 | | 113.00 113.60 | | 7.54 7.70 | | 4.17 | | 2.6 | |
| | 20/7/2022 | Sunny | 13:23 | 8.9 | 7.9 | 29.99 | 29.98 | 8.91 | 8.88 | 29.99 | 29.98 | 113.60 | 113.20 | 7.70 | | 3.56 | 3.78 | 2.4 | |
| | | | 10:49 | 8.5 | 7.5 | 29.80 | | 9.25 | | 29.97 | | 113.80 | | 7.63 | | 4.99 | | 2.4 | |
| | 22/7/2022 | Sunny | 10:49 | 8.5 | 7.5 | 29.70 | 29.76 | 9.25 | 9.22 | 22.57 | 22.63 | 113.80 | 113.55 | 7.63 | 7.62 | 3.14 | 4.07 | 2.2 | |
| | | | 10:53 | 8.4 | 7.4 | 29.83 | | 8.76 | | 27.18 | | 40E E0 | | 6.90 | | 2.90 | | 4.0 | |
| | 25/7/2022 | Sunny | 10:54 | 8.4 | 7.4 | 29.81 | 29.82 | 8.80 | 8.78 | 27.60 | 27.39 | 105.10 | 105.30 | 6.81 | 6.86 | 2.87 | 2.89 | 1.4 | |
| | | | 10:54 | 8.2 | 7.2 | 30.10 | | 9.32 | | 24.59 | l | 442.40 | | 7.40 | | 3.78 | l | 5.2 | |
| | 27/7/2022 | Sunny | 10:55 | 8.2 | 7.2 | 30.00 | 30.05 | 9.07 | 9.20 | 20.90 | 22.75 | 114.40 | 113.75 | 7.53 | 7.50 | 4.15 | | 5.4 | |
| | | _ | 10:56 | 8.6 | 7.6 | 30.25 | | 9.50 | | 24.65 | | 113.50 | | 7.47 | | 5.33 | | 2.0 | |
| | 29/7/2022 | Sunny | 10:57 | 8.6 | 7.6 | 30.30 | 30.28 | 9.32 | 9.41 | 25.09 | 24.87 | 113.00 | 113.25 | 7.40 | 7.44 | 3.83 | | 2.1 | |

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

am

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

| Station Reference | Sampling | Weather | Sampling | Water | Sampling Depth | Tempe | erature C | F |)H | Salir | _ | DO Sai | | DC ma | | | oidity TU | | SS ng/L |
|-------------------|-----------|-----------------------------|----------|-------|-------------------|-------|--------------|-------|---------|--------------|--------------|-------------|--------|----------|------|------|--------------|-------|------------|
| | Date | | Time | m | m | Value | AVG | Value | AVG | | AVG | | AVG | | AVG | | AVG | Value | AVG |
| | 2/7/2022 | Т8 | | | | | | | Samplin | g was cancel | led due to a | dverse weat | her | | | | | | - |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cancel | led due to a | dverse weat | her | | | | | | |
| | 6/7/2022 | Sunny | 11:04 | 7.6 | 6.6 | 28.08 | 28.08 | 9.10 | 9.03 | 18.85 | 18 87 | 114.00 | 113.95 | 8.02 | 8.02 | 6.25 | 7 16 | 3.9 | 9 |
| | ********* | , | 11:05 | 7.6 | 6.6 | 28.07 | | 8.95 | | 18.89 | | 113.90 | | 8.02 | | 8.06 | | 3.6 | 5 |
| | 8/7/2022 | Cloudy | 11:20 | 8.4 | 7.4 | 28.77 | 28.76 | 9.22 | 9.17 | 15.44 | 15.54 | 114.20 | 114.10 | 8.10 | 8.09 | 8.83 | 7.00 | 2.6 | |
| | | | 11:21 | 8.4 | 7.4 | 28.75 | | 9.11 | | 15.64 | | 114.00 | | 8.07 | | 5.17 | | 2.9 | _ |
| | 11/7/2022 | Sunny | 12:12 | 8.3 | 7.3 | 29.10 | 29.06 | 9.19 | 9.01 | 24.76 | 24.76 | 117.40 | 116.75 | 7.90 | 7.84 | 4.26 | 3.86 | 2.5 | |
| | | , | 12:13 | 8.3 | 7.3 | 29.01 | | 8.82 | | 24.76 | | 116.10 | | 7.78 | | 3.46 | | 2.3 | _ |
| | 13/7/2022 | Sunny | 12:10 | 9.4 | 8.4 | 29.94 | 29.42 | 9.24 | 9.08 | 22.74 | 22.96 | 114.80 | 112.95 | 7.80 | 7.67 | 4.37 | 4.08 | 2.2 | |
| | | | 12:11 | 9.4 | 8.4 | 28.90 | | 8.91 | | 23.18 | | 111.10 | | 7.53 | | 3.79 | | 2.1 | |
| CE | 15/7/2022 | Sunny | 10:51 | 9.4 | 8.4 | 29.13 | 29.13 | 9.05 | | 22.31 | 22.37 | 114.40 | 114.35 | 7.76 | 7.76 | 6.13 | 5.07 | 2.2 | |
| | | - | 10:52 | 9.4 | 8.4 | 29.13 | | 9.98 | | 22.43 | | 114.30 | | 7.75 | | 4.00 | | 2.1 | |
| | 18/7/2022 | Cloudy | 11:02 | 8.9 | 7.9 | 29.72 | 29.76 | 8.95 | | 22.55 | 22.78 | 113.90 | 113.90 | 7.64 | 7.63 | 4.07 | 4.29 | 3.2 | |
| | | | 11:03 | 8.9 | 7.9 | 29.79 | | 9.05 | | 23.01 | | 113.90 | | 7.61 | | 4.51 | | 3.6 | |
| | 20/7/2022 | Sunny | 12:45 | 8.7 | 7.7 | 29.96 | 29.96 | 8.84 | 8.88 | 20.23 | 20.10 | 113.00 | 111.10 | 7.66 | 7.53 | 5.49 | 4.71 | 2.6 | _ |
| | | - | 12:46 | 8.7 | 7.7 | 29.96 | | 8.91 | | 19.96 | | 109.20 | | 7.40 | | 3.93 | | 2.4 | |
| | 22/7/2022 | Sunny | 12:09 | 8.3 | 7.3 | 29.04 | 29.04 | 8.89 | 8.88 | 25.19 | 25.39 | 114.00 | 113.25 | 7.62 | 7.57 | 5.17 | 5.08 | 2.6 | |
| | | | 12:10 | 8.3 | 7.3 | 29.03 | | 8.87 | | 25.59 | | 112.50 | | 7.51 | | 4.99 | | 2.2 | |
| | 25/7/2022 | Sunny | 12:07 | 8.6 | 7.6 | 28.71 | 28.92 | 9.32 | 9.04 | 29.42 | 26.96 | 102.40 | 99.65 | 6.72 | 6.52 | 2.47 | 2.55 | 2.6 | |
| | | | 12:08 | 8.6 | 7.6 | 29.12 | | 8.76 | | 24.49 | | 96.90 | | 6.32 | | 2.63 | | 2.4 | |
| | 27/72022 | Sunny | 12:07 | 8.2 | 7.2 | 28.47 | 28.55 | 9.37 | 9.38 | 28.11 | 27.98 | 94.80 | 94.75 | 6.30 | 6.29 | 2.65 | 2.72 | 3.2 | |
| | | - | 12:08 | 8.2 | 7.2 | 28.63 | | 9.38 | | 27.85 | | 94.70 | | 6.28 | | 2.78 | | 3.6 | _ |
| | 29/7/2022 | Sunny | 12:07 | 8.4 | 7.4 | 30.61 | 30.72 | 9.25 | | 26.80 | 25.77 | 111.90 | 107.65 | 7.23 | 6.94 | 3.33 | 3.32 | 3.1 | |
| | | n of puorogo o | 12:08 | 8.4 | 7.4 | 30.82 | | 9.53 | | 24.73 | | 103.40 | | 6.65 | | 3.30 | | 3.4 | i |

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

| Station Reference | Sampling | Weather | Sampling | Water Depth | Sampling Depth | | erature C | ı | Н | Salir | , | | turation % | | 00 | | bidity TU | | SS ng/l |
|-------------------|-----------|-----------------------------|----------------|----------------|-------------------|----------------|--------------|--------------|---------|----------------|--------------|------------------|---------------|--------------|------------|--------------|--------------|-------|------------|
| Station Reference | Date | vv eatrier | Time | m | m | Value | AVG | Value | AVG | Value / | t AVG | | AVG | Value | g/L AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | Т8 | | | | | 11.1.0 | | | g was cancell | led due to a | | ther | | | | 1 | 1 | 11 |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cancell | led due to a | adverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 13:14 | 9.1 9.1 | 1.0 | 28.12 28.06 | 28.09 | 8.85 8.90 | 8.88 | 14.24 | 14.37 | 97.80 113.20 | 105.50 | 7.06 8.17 | 7.62 | 6.35 5.94 | 6.15 | 2.8 | |
| | 8/7/2022 | Cloudy | 13:22 | 8.6 8.6 | 1.0 | 29.45 29.46 | 29.46 | 9.28 9.17 | 9.23 | 11.18 | 11.19 | 112.20 | 112.45 | 8.05 8.01 | 8.03 | 8.65 7.56 | | 2.3 | |
| | 11/7/2022 | Sunny | 9:27 9:28 | 9.8 | 1.0 | 30.50 30.49 | 30.50 | 9.31 9.57 | 9.44 | 14.70 14.57 | 14.64 | 158.20 146.60 | 152.40 | 10.94 | 10.55 | 2.57 2.25 | 2.41 | 2.4 | |
| | 13/7/2022 | Sunny | 9:44 9:45 | 9.5 9.5 | 1.0 | 29.71 29.67 | 29.69 | 9.39 | 9.42 | 14.42 | 14.39 | 153.10 145.70 | 149.40 | 10.25 | 10.25 | 2.83 | 2.98 | 4.7 | 1 |
| CF | 15/7/2022 | Sunny | 13:23 | 9.4 | 1.0 | 29.77 | 29.71 | 9.18 | 9.14 | 20.87 | 21.05 | 114.60 | 108.70 | 7.75 6.96 | 7.36 | 4.44 | 4.12 | 4.7 | 1 |
| | 18/7/2022 | Cloudy | 13:12 | 9.8 | 1.0 | 29.51 29.53 | 29.52 | 8.86 8.79 | 8.83 | 21.36 21.45 | 21.41 | 115.00 114.20 | 114.60 | 7.79 7.73 | 7.76 | 4.54 4.40 | 4.47 | 2.6 | |
| | 20/7/2022 | Sunny | 14:33 14:34 | 8.9 8.9 | 1.0 | 29.78 29.87 | 29.83 | 8.95 8.97 | 8.96 | 20.40 | 20.54 | 111.50 99.10 | 105.30 | 7.56 6.74 | 7.15 | 4.28 3.94 | 4.11 | 1.9 | |
| | 22/7/2022 | Sunny | 9:18 9:19 | 8.6 8.6 | 1.0 | 31.22 31.20 | 31.21 | 9.58 9.49 | 9.54 | 20.24 20.36 | 20.30 | 126.90 120.30 | 123.60 | 8.41 7.97 | 8.19 | 5.12 4.90 | 5.01 | 3.2 | |
| | 25/7/2022 | Sunny | 9:23 9:24 | 9.6 9.6 | 1.0 | 30.50 30.36 | 30.43 | 9.08 9.04 | 9.06 | 22.55 23.10 | 22.83 | 128.60 126.20 | 127.40 | 8.52 8.35 | 8.44 | 4.33 3.70 | | 1.6 | |
| | 27/7/2022 | Sunny | 9:20 9:21 | 9.7 9.7 | 1.0 | 30.60 30.57 | 30.59 | 9.49 9.38 | 9.44 | 19.92 20.13 | 20.03 | 115.10 104.70 | 109.90 | 7.72 7.02 | 7.37 | 4.63 4.00 | 4.32 | 3.2 | |
| | 29/7/2022 | Sunny | 9:21 9:22 | 9.2 9.2 | 1.0 | 29.48 29.53 | 29.51 | 9.16 9.22 | 9.19 | 25.48 25.19 | 25.34 | 114.70 117.90 | 116.30 | 7.60 7.80 | 7.70 | 4.05 4.23 | 4.14 | 2.5 | |

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

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

| | Sampling | | Sampling | Water | Sampling | Tempe | | р | Н | Salir | nity | DO Sal | uration | D | 0 | Turk | idity | | SS |
|-------------------|-----------|-----------------------------|----------------|------------|----------|----------------|-------|--------------|---------|----------------|--------------|------------------|---------|----------------|-------|--------------|-------|-------------|------|
| Station Reference | Date | Weather | Time | Depth | Depth | °C | | | - | pp | | 9 | | mg | | N7 | | | ng/L |
| | Duto | | 11110 | m | m | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | Т8 | | | | | | | Samplin | g was cancell | led due to a | dverse weat | her | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cancell | led due to a | dverse weat | her | | | | | | |
| | 6/7/2022 | Sunny | 9:41 9:42 | 8.7 8.7 | 1.0 | 29.83 27.83 | 28.83 | 8.94 8.74 | 8.84 | 13.53 13.55 | 13.54 | 169.70 156.90 | 163.30 | 12.36 11.28 | 11.82 | 7.36 7.05 | 7.21 | 5.2 5.5 | |
| | 8/7/2022 | Cloudy | 9:56 9:57 | 8.9 8.9 | 1.0 | 29.52 29.29 | 29.41 | 9.81 8.84 | 9.33 | 9.13 9.59 | 9.36 | 195.50 165.40 | 180.45 | 14.17 12.01 | 13.09 | 8.71 6.72 | 7.72 | 3.4 | |
| | 11/7/2022 | Sunny | 13:16 | 8.0 | 1.0 | 30.09 | 29.81 | 9.43 | 9.48 | 12.95 | 12.98 | 166.60 | 142.95 | 8.20 | 8.12 | 6.16 | 6.05 | 5.4 | 1 5 |
| | 13/7/2022 | Sunny | 13:17 13:15 | 8.0 | 1.0 | 29.52 30.51 | 30 41 | 9.52 9.44 | 9.54 | 13.00 14.77 | 14.80 | 119.30 112.70 | 113.00 | 8.03 7.79 | 7.82 | 5.93 2.85 | 2.80 | 5.0 <1.0 | 1 |
| | 13/7/2022 | Sunny | 13:16 | 8.4 | 1.0 | 30.30 | 30.41 | 9.63 | 9.54 | 14.82 | 14.80 | 113.30 | 113.00 | 7.85 | 7.82 | 2.74 | 2.80 | <1.0 | |
| CF | 15/7/2022 | Sunny | 9:22 9:23 | 9.6 9.6 | 1.0 | 29.24 | 29.22 | 8.87 8.98 | 8.93 | 21.26 26.65 | 23.96 | 169.70 148.10 | 158.90 | 11.56 10.07 | 10.82 | 4.30 3.98 | 4.14 | <1.0 | - 1 |
| | 18/7/2022 | Cloudy | 9:32 | 9.3 | 1.0 | 29.19 | 29.22 | 8.70 8.81 | 8.76 | 21.82 | 21.77 | 158.00 157.80 | 157.90 | 11.56 | 11.14 | 4.16 | 4.13 | 26 | |
| | 20/7/2022 | Sunny | 11:20 | 8.6 8.6 | 1.0 | 30.42 | 30.49 | 9.07 | 9.08 | 19.64 | 19.89 | 140.80 | 138.20 | 9.49 | 9.30 | 4.38 | 3.84 | 2.8 | 3 . |
| | 22/7/2022 | Sunny | 13:14 13:15 | 8.4 8.4 | 1.0 | 31.58 31.53 | 31.56 | 9.42 9.28 | 9.35 | 18.35 18.44 | 18.40 | 107.50 101.00 | 104.25 | 7.16 6.72 | 6.94 | 5.69 4.32 | 5.01 | 2.8 3.1 | 3 . |
| | 25/7/2022 | Sunny | 13:23 | 9.0 | 1.0 | 31.94 | 31.89 | 9.21 | 9.19 | 19.12 | 19.22 | 109.20 | 110.95 | 7.20 | 7.32 | 4.25 | 3.91 | 2.7 | 7 |
| | | , | 13:24 | 9.0 | 1.0 | 31.84 30.70 | | 9.16 9.24 | | 19.32 20.08 | | 112.70 113.90 | | 7.43 7.62 | | 3.56 5.31 | | 2.6 5.4 | |
| | 27/72022 | Sunny | 13:11 | 8.4 | 1.0 | 30.70 | 30.68 | 9.24 | 9.22 | 20.08 | 20.17 | 99.50 | 106.70 | 6.65 | 7.14 | 4.11 | 4.71 | 5.4 | |
| | 29/7/2022 | Sunny | 13:13 13:14 | 8.6 8.6 | 1.0 | 30.90 30.29 | 30.60 | 9.18 | 9.15 | 23.70 | 23.83 | 115.70 104.80 | 110.25 | 7.56 6.86 | 7.21 | 5.46 4.79 | 5.13 | 2.4 | |

Lam Environmental Carviaca Limited

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

| Station Reference | Sampling | Weather | Sampling | Water Depth | Sampling Depth | | erature C | F | Н | | inity | | aturation | | 00 | | bidity | | SS |
|-------------------|-----------|-----------------------------|----------------|----------------|-------------------|----------------|--------------|--------------|---------|----------------|----------------|------------------|-----------|--------------|------------|--------------|-----------|------------|------------|
| Station Reference | Date | vveatriei | Time | m | m | | AVG | Value | AVG | | AVG | | % AVG | Value | g/L AVG | Value | TU AVG | Value | g/L AVG |
| | 2/7/2022 | Т8 | | | | Value | AVO | value | | | elled due to a | | | value | AVO | value | AVO | value | AVO |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cance | elled due to a | adverse wea | ather | | | | | | |
| | 6/7/2022 | Sunny | 13:18 13:19 | 9.1 9.1 | 4.6 4.6 | 27.99 27.98 | 27.99 | 8.99 8.85 | 8.92 | 14.70 14.91 | 14.81 | 113.20 113.00 | 113.10 | 8.17 8.15 | 8.16 | 9.87 6.91 | 8.39 | 3.2 | |
| | 8/7/2022 | Cloudy | 13:26 13:27 | 8.6 8.6 | 4.3 | 29.10 29.00 | 29.05 | 9.19 9.07 | 9.13 | 15.89 16.02 | 15.96 | 113.70 98.50 | 106.10 | 8.00 6.93 | 7.47 | 4.96 5.29 | 5.13 | 2.7 | |
| | 11/7/2022 | Sunny | 9:31 9:32 | 9.8 | 4.9 4.9 | 29.87 29.80 | 29.84 | 9.16 9.25 | 9.21 | 18.44 18.85 | 18.65 | 139.80 91.30 | 115.55 | 5.57 6.24 | 5.91 | 2.58 0.66 | 1.62 | 3.2 | |
| | 13/7/2022 | Sunny | 9:48 9:49 | 9.5 9.5 | 4.8 | 29.73 29.71 | 29.72 | 9.50 9.48 | 9.49 | 16.85 17.04 | 16.95 | 140.70 | 138.65 | 9.74 9.45 | 9.60 | 5.19 2.79 | 3.99 | 2.4 | |
| CF | 15/7/2022 | Sunny | 13:27 | 9.4 | 4.7 | 29.19 | 29.19 | 8.99 8.90 | 8.95 | 22.82 22.92 | 22.87 | 114.80 | 114.15 | 7.70 | 7.71 | 7.14 1.81 | 4.48 | 2.4 | 2 ! |
| | 18/7/2022 | Cloudy | 13:16 13:17 | 9.8 | 4.9 4.9 | 29.31 29.35 | 29.33 | 8.87 8.77 | 8.82 | 21.99 22.27 | 22.13 | 114.60 114.00 | 114.30 | 7.77 7.71 | 7.74 | 5.23 3.64 | 4.44 | 3.9 | |
| | 20/7/2022 | Sunny | 14:37 14:38 | 8.9 | 4.5 | 29.77 | 29.79 | 9.08 | 9.08 | 20.61 | 20.71 | 113.40 | 112.75 | 7.00 | 7.63 | 4.39 | 4.07 | 2.2 | 2: |
| | 22/7/2022 | Sunny | 9:22 9:23 | 8.6 8.6 | 4.3 4.3 | 30.00 29.75 | 29.88 | 9.23 8.97 | 9.10 | 23.54 23.86 | 23.70 | 126.40 124.70 | 125.55 | 8.40 8.30 | 8.35 | 5.39 4.47 | 4.93 | 4.0 | |
| | 25/7/2022 | Sunny | 9:27 9:28 | 9.6 9.6 | 4.8 | 29.85 29.82 | 29.84 | 9.07 8.93 | 9.00 | 23.46 23.95 | 23.71 | 124.90 123.70 | 124.30 | 8.32 8.22 | 8.27 | 3.51 3.04 | 3.28 | 1.8 | |
| | 27/7/2022 | Sunny | 9:24 9:25 | 9.7 9.7 | 4.9 4.9 | 29.64 29.46 | 29.55 | 9.32 9.16 | 9.24 | 24.77 24.74 | 24.76 | 106.60 95.40 | 101.00 | 7.07 6.35 | 6.71 | 4.27 3.04 | 3.66 | 3.8 4.0 | |
| | 29/7/2022 | Sunny | 9:25 9:26 | 9.2 9.2 | 4.6 4.6 | 29.34 29.34 | 29.34 | 9.30 9.29 | 9.30 | 25.56 25.67 | 25.62 | 110.80 99.80 | 105.30 | 7.36 6.62 | 6.99 | 5.01 4.65 | 4.83 | 3.6 | |

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 (Middle) - Flood Tide

| Station Reference | Sampling | Weather | Sampling | Water | Sampling Depth | Tempe | erature C | F | H | Salir | _ | DO Sai | | DC ma | | Turk | | | SS ng/L |
|-------------------|-----------|-------------------|----------|-------|-------------------|-------|--------------|-------|---------|--------------|--------------|-------------|--------|----------|-------|------|------|-------|------------|
| | Date | | Time | m | m | Value | AVG | Value | AVG | | AVG | | AVG | | AVG | | AVG | Value | AVG |
| | 2/7/2022 | Т8 | | | | | | | Samplin | g was cancel | led due to a | dverse weat | her | | | | | | , |
| | 4/7/2022 | Monsoon Signal | | | | | | | Samplin | g was cancel | led due to a | dverse weat | her | | | | | | |
| | 6/7/2022 | Sunny | 9:45 | 8.7 | 4.4 | 27.81 | 27.82 | 9.04 | 9.02 | 17.27 | 16.90 | 146.50 | 143.90 | 10.42 | 10.27 | 8.66 | 8.26 | 6.8 | |
| | | , | 9:46 | 8.7 | 4.4 | 27.83 | | 8.99 | | 16.53 | | 141.30 | | 10.11 | | 7.86 | | 7.0 | |
| | 8/7/2022 | Cloudy | 10:00 | 8.9 | 4.5 | 29.06 | 29.05 | 9.06 | 9.02 | 10.05 | 10.11 | 139.30 | 143.30 | 10.13 | 10.42 | 8.59 | 7.45 | 4.0 | |
| | | | 10:01 | 8.9 | 4.5 | 29.03 | | 8.97 | | 10.17 | | 147.30 | | 10.71 | | 6.31 | | 3.6 | |
| | 11/7/2022 | Sunny | 13:20 | 8.0 | 4.0 | 29.62 | 29.57 | 9.62 | 9.62 | 14.32 | 14.62 | 114.40 | 112.10 | 8.04 | 7.88 | 5.92 | 5.97 | 4.8 | |
| | | - | 13:21 | 8.0 | 4.0 | 29.51 | | 9.62 | | 14.92 | | 109.80 | | 7.72 | | 6.01 | | 4.5 | |
| | 13/7/2022 | Sunny | 13:19 | 8.4 | 4.2 | 30.21 | 30.17 | 9.56 | 9.52 | 15.26 | 15.34 | 114.50 | 114.20 | 7.93 | 7.92 | 3.58 | 2.97 | 1.5 | |
| | | | 13:20 | 8.4 | 4.2 | 30.12 | | 9.48 | | 15.42 | | 113.90 | | 7.90 | | 2.35 | | 1.2 | |
| CF | 15/7/2022 | Sunny | 9:26 | 9.6 | 4.8 | 29.27 | 29.17 | 9.08 | 9.07 | 21.81 | 21.93 | 148.90 | 146.15 | 10.14 | 9.95 | 6.86 | 5.59 | 1.5 | |
| | | | 9:27 | 9.6 | 4.8 | 29.06 | | 9.05 | | 22.04 | | 143.40 | | 9.76 | | 4.32 | | 1.2 | |
| | 18/7/2022 | Cloudy | 9:36 | 9.3 | 4.7 | 29.19 | 29.19 | 8.94 | 8.93 | 22.07 | 22.10 | 151.40 | 148.70 | 10.27 | 10.09 | 4.52 | 4.47 | 3.3 | |
| | | | 9:37 | 9.3 | 4.7 | 29.18 | | 8.92 | | 22.12 | | 146.00 | | 9.91 | | 4.42 | | 3.0 | _ |
| | 20/7/2022 | Sunny | 11:24 | 8.6 | 4.3 | 30.31 | 30.26 | 9.20 | 9.13 | 19.12 | 19.65 | 134.10 | 132.25 | 9.04 | 8.92 | 3.85 | 3.57 | 2.7 | |
| | | | 11:25 | 8.6 | 4.3 | 30.20 | | 9.06 | | 20.18 | | 130.40 | | 8.79 | | 3.29 | | 2.5 | |
| | 22/7/2022 | Sunny | 13:18 | 8.4 | 4.2 | 31.34 | 31.30 | 9.35 | 9.35 | 18.66 | 18.68 | 113.90 | 109.80 | 7.60 | 7.33 | 6.20 | 5.27 | 2.4 | |
| | | | 13:19 | 8.4 | 4.2 | 31.26 | | 9.36 | | 18.69 | | 105.70 | | 7.06 | | 4.33 | | 2.5 | |
| | 25/7/2022 | Sunny | 13:27 | 9.0 | 4.5 | 31.75 | 31.72 | 9.19 | 9.19 | 18.89 | 19.07 | 112.40 | 106.50 | 7.44 | 7.05 | 6.36 | 5.40 | 2.2 | |
| | | | 13:28 | 9.0 | 4.5 | 31.68 | | 9.18 | | 19.25 | | 100.60 | | 6.66 | | 4.43 | | 2.4 | |
| | 27/72022 | Sunny | 13:15 | 8.4 | 4.2 | 30.64 | 30.58 | 9.21 | 9.29 | 20.05 | 20.13 | 103.80 | 102.55 | 6.95 | 6.85 | 3.82 | 3.80 | 4.4 | |
| | | - | 13:16 | 8.4 | 4.2 | 30.51 | | 9.36 | | 20.21 | | 101.30 | | 6.75 | | 3.77 | | 4.8 | _ |
| | 29/7/2022 | Sunny | 13:17 | 8.6 | 4.3 | 30.65 | 30.64 | 8.96 | 9.03 | 27.72 | 25.79 | 107.90 | 105.35 | 7.09 | 6.92 | 4.84 | 4.89 | 3.0 | |
| | | n of puorogo o | 13:18 | 8.6 | 4.3 | 30.63 | | 9.10 | | 23.85 | | 102.80 | | 6.75 | | 4.94 | | 3.1 | Ш |

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

| Station Reference | Sampling | Weather | Sampling | Water Depth | Sampling Depth | | erature C | F | Н | | inity | | turation | | 00 | | bidity | | SS |
|-------------------|-----------|-----------------------------|----------------|----------------|-------------------|----------------|--------------|--------------|---------|----------------|----------------|------------------|----------|--------------|------------|--------------|-----------|------------|------------|
| Station Reference | Date | vv eatrier | Time | m | m | | AVG | Value | AVG | | AVG | | % AVG | Value | g/L AVG | Value | TU AVG | Value | g/L AVG |
| | 2/7/2022 | Т8 | | | | Value | ,,,, | value | | | elled due to a | | | Value | ,c | value | ,,,, | value | ,,,,, |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cance | elled due to a | adverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 13:22 13:23 | 9.1 9.1 | 8.1 8.1 | 27.93 27.76 | 27.85 | 8.90 8.89 | 8.90 | 15.87 15.95 | 15.91 | 113.10 113.10 | 113.10 | 8.13 8.13 | 8.13 | 6.30 5.59 | 5.95 | 4.1 3.8 | |
| | 8/7/2022 | Cloudy | 13:29 | 8.6 8.6 | 7.6 7.6 | 28.47 28.42 | 28.45 | 9.00 | 9.01 | 20.32 | 20.49 | 114.40 | 114.10 | 7.94 7.88 | 7.91 | 5.60 4.71 | 5.16 | 3.3 | |
| | 11/7/2022 | Sunny | 9:35 9:36 | 9.8 | 8.8 8.8 | 29.30 29.36 | 29.33 | 8.99 9.05 | 9.02 | 22.47 22.60 | 22.54 | 129.00 126.00 | 127.50 | 8.72 8.50 | 8.61 | 3.35 | 3.52 | 4.4 | 4.3 |
| | 13/7/2022 | Sunny | 9:52 9:53 | 9.5 9.5 | 8.5 8.5 | 29.34 29.22 | 29.28 | 9.36 | 9.19 | 21.31 21.66 | 21.49 | 134.40 | 132.40 | 9.14 8.87 | 9.01 | 9.74 6.57 | 8.16 | 3.6 | |
| CF | 15/7/2022 | Sunny | 13:31 | 9.4 | 8.4 8.4 | 28.84 | 28.82 | 8.85 8.71 | 8.78 | 25.26 25.27 | 25.27 | 113.60 | 113.35 | 7.36 7.58 | 7.47 | 5.34 5.39 | 5.37 | 3.6 | 3. |
| | 18/7/2022 | Cloudy | 13:20 | 9.8 | 8.8 | 29.24 | 29.26 | 8.78 8.74 | 8.76 | 22.66 | 22.66 | 114.00 | 113.70 | 7.70 | 7.68 | 4.59 | 4.51 | 6.0 | 6. |
| | 20/7/2022 | Sunny | 14:40 14:41 | 8.9 | 7.9 7.9 | 29.89 29.96 | 29.93 | 9.04 | 8.92 | 20.88 | 21.09 | 112.40 | 112.25 | 7.59 7.54 | 7.57 | 3.99 4.14 | 4.07 | 2.6 | 21 |
| | 22/7/2022 | Sunny | 9:25 9:26 | 8.6 8.6 | 7.6 | 29.56 29.58 | 29.57 | 9.01 | 9.20 | 23.49 | 23.51 | 122.50 | 122.25 | 8.20 8.22 | 8.21 | 4.88 4.86 | 4.87 | 4.5 | 4 |
| | 25/7/2022 | Sunny | 9:31 9:32 | 9.6 9.6 | 8.6 8.6 | 29.13 28.94 | 29.04 | 8.84 8.70 | 8.77 | 26.23 27.11 | 26.67 | 120.50 117.90 | 119.20 | 7.98 7.81 | 7.90 | 2.62 | 2.46 | 2.3 | |
| | 27/7/2022 | Sunny | 9:28 9:29 | 9.7 9.7 | 8.7 8.7 | 29.31 29.25 | 29.28 | 9.24 9.20 | 9.22 | 24.82 25.24 | 25.03 | 96.00 96.80 | 96.40 | 6.41 6.45 | 6.43 | 3.14 | 3.12 | 4.3 4.5 | |
| | 29/7/2022 | Sunny | 9:29 9:30 | 9.2 9.2 | 8.2 8.2 | 29.25 29.25 | 29.25 | 9.39 9.40 | 9.40 | 25.20 25.58 | 25.39 | 131.20 105.50 | 118.35 | 8.75 7.01 | 7.88 | 6.01 3.19 | 4.60 | 3.6 4.0 | |

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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am Environmental Services Limited

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

| | Sampling | | Sampling | Water | Sampling | Tempe | | Р | Н | Salir | nity | | turation | [| 00 | | bidity | _ | SS |
|-------------------|-----------|-----------------------------|----------------|------------|------------|----------------|-------|--------------|---------|----------------|--------------|------------------|----------|--------------|------|--------------|--------|-------|------|
| Station Reference | Date | Weather | Time | Depth | Depth | °C | | | | pp | | | % | | ıg/L | | TU | | ng/L |
| | Duto | | 11110 | m | m | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG | Value | AVG |
| | 2/7/2022 | Т8 | | | | | | | Samplin | g was cancel | led due to a | dverse wea | ther | | | | | | |
| | 4/7/2022 | Strong Monsoon Signal | | | | | | | Samplin | g was cancel | led due to a | dverse wea | ther | | | | | | |
| | 6/7/2022 | Sunny | 9:48 9:49 | 8.7 8.7 | 7.7 | 27.27 27.71 | 27.49 | 8.22 9.07 | 8.65 | 26.35 26.81 | 26.58 | 137.00 | 135.75 | 9.32 | 9.22 | 9.94 | 10.27 | 7.8 | |
| | | | 10:03 | 8.9 | 7.9 | 28.74 | | 8.98 | | 17.87 | | 142.00 | | 9.94 | | 5.33 | | | |
| | 8/7/2022 | Cloudy | 10:04 | 8.9 | 7.9 | 28.66 | 28.70 | 8.99 | 8.99 | 18.38 | 18.13 | 137.00 | 139.50 | 9.57 | 9.76 | 4.97 | 5.15 | 5.4 | |
| | 11/7/2022 | Sunny | 13:23 | 8.0 | 7.0 | 29.28 | 29 14 | 9.37 | 9.22 | 17.53 | 17 64 | 113.80 | 113.45 | 7.90 | 7.88 | 5.47 | 4 99 | 4.2 | 2 4. |
| | 11///2022 | Sunny | 13:24 | 8.0 | 7.0 | 29.00 | 29.14 | 9.07 | 9.22 | 17.74 | 17.64 | 113.10 | 113.45 | 7.86 | 7.88 | 4.51 | 4.99 | 3.9 | 9 4. |
| | 13/7/2022 | Sunny | 13:22 | 8.4 | 7.4 | 30.11 | 30.07 | 9.59 | 9.54 | 15.35 | 15.45 | 114.20 | 113.95 | 7.92 | 7.91 | 3.30 | 3.15 | 1.8 | 3 1. |
| | 13/1/2022 | Suriny | 13:23 | 8.4 | 7.4 | 30.02 | 30.07 | 9.49 | 5.54 | 15.55 | 13.43 | 113.70 | 113.55 | 7.89 | 7.51 | 2.99 | 3.13 | 1.7 | |
| CF | 15/7/2022 | Sunny | 9:30 | 9.6 | 8.6 | 29.02 | 29.03 | 9.19 | 9 18 | 21.80 | 21.92 | 139.10 | 138.05 | 9.48 | 9.40 | 5.57 | 5.47 | 1.8 | 1. |
| O. | TOTTEDEE | Guiniy | 9:31 | 9.6 | 8.6 | 29.03 | 20.00 | 9.17 | 5.10 | 22.04 | 21.02 | 137.00 | 100.00 | 9.32 | 0.40 | 5.36 | 0.41 | 1.7 | , |
| | 18/7/2022 | Cloudy | 9:40 | 9.3 | 8.3 | 29.13 | 29 13 | 9.00 | 9.06 | 22.18 | 22 20 | 141.60 | 137.65 | 9.61 | 9.34 | 4.94 | 4.82 | 4.5 | |
| | | , | 9:41 | 9.3 | 8.3 | 29.12 | | 9.12 | | 22.21 | | 133.70 | | 9.07 | | 4.70 | | 4.7 | |
| | 20/7/2022 | Sunny | 11:27 | 8.6 | 7.6 | 30.15 | 30.10 | 9.10 | 9.06 | 20.22 | 20.19 | 128.80 | 127.70 | 8.69 | 8.63 | 3.69 | 3.45 | 2.3 | |
| | | , | 11:28 | 8.6 | 7.6 | 30.05 | | 9.01 | | 20.16 | | 126.60 | | 8.56 | | 3.21 | | 2.1 | |
| | 22/7/2022 | Sunny | 13:21 | 8.4 | 7.4 | 30.92 | 30.88 | 9.44 | 9.42 | 19.77 | 19.97 | 114.80 | 114.25 | 7.67 | 7.63 | 5.18 | 4.93 | 1.3 | |
| | | , | 13:22 | 8.4 | 7.4 | 30.83 | | 9.39 | | 20.16 | | 113.70 | | 7.59 | | 4.67 | | 1.5 | |
| | 25/7/2022 | Sunny | 13:31 | 9.0 | 8.0 | 31.62 | 31.59 | 9.19 | 9.15 | 19.93 | 20.06 | 110.80 | 112.10 | 7.32 | 7.40 | 4.00 | 3.78 | 1.4 | |
| | | - | 13:32 | 9.0 | 8.0 | 31.56 | | 9.11 | | 20.19 | | 113.40 | | 7.48 | | 3.55 | | 1.6 | _ |
| | 27/72022 | Sunny | 13:18 | 8.4 | 7.4 | 30.56 | 30.53 | 9.20 | 9.17 | 20.06 | 20.26 | 112.10 | 106.90 | 7.52 | 7.17 | 4.47 | 4.15 | 4.0 | |
| | | | 13:19 | 8.4 | 7.4 | 30.49 | | 9.14 | | 20.46 | | 101.70 | | 6.82 | | 3.82 | | 3.9 | |
| | 29/7/2022 | Sunny | 13:20 13:21 | 8.6 8.6 | 7.6 7.6 | 29.85 29.80 | 29.83 | 9.07 9.04 | 9.06 | 25.29 24.98 | 25.14 | 114.10 109.70 | 111.90 | 7.53 7.22 | 7.38 | 5.97 3.87 | 4.92 | 3.4 | |

Appendix 4.5

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table for 2022

| | 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) | 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 | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 58.35 |
| Feb | 2.37 | 0.00 | 0.00 | 0.00 | 2.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 52.60 |
| Mar | 2.51 | 0.00 | 0.00 | 0.00 | 2.51 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 34.82 |
| Apr | 0.62 | 0.00 | 0.00 | 0.00 | 0.62 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 9.74 |
| May | 0.21 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.38 |
| Jun | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 33.94 |
| Sub-total | 5.74 | 0.00 | 0.00 | 0.00 | 5.74 | 0.00 | 1.56 | 0.13 | 0.01 | 0.00 | 206.83 |
| July | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.34 |
| Aug | | | | | | | | | | | |
| Sept | | | | | | | | | | | |
| Oct | | | | | | | | | | | |
| Nov | | | | | | | | | | | |
| Dec | | | | | | | | | | | |
| Total | 5.76 | 0.00 | 0.00 | 0.00 | 5.76 | 0.00 | 1.56 | 0.13 | 0.01 | 0.00 | 224.17 |

Notes:

- (1) The inert C&D material except slurry and bentonite are disposed at Mui Wo Temporary Public Fill Bank (MW-PFRF)
- (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 – July 2022 to September 2022

KL-CW JV

Tentative Three Months Construction Rolling Program

Contract No.: DC/2020/02

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

Revision No. : -

Construction Activities for the reporting period

| Item | Construction Activities |
|------|--|
| 1 | Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen |
| 2 | Excavation and site formation at SSWSTW and POSPS |
| 3 | Excavation at South Lantau Road |
| 4 | SSWSTW and HDD works |
| 5 | Site formation works at POSPS |
| 6 | ELS works at POSPS |

KL-CW JV

Tentative Three Months Construction Rolling Program

Contract No.: DC/2020/02

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

Revision No. : -

Tentative Three Months (August, September & October 2022) Construction Rolling Program

| Item | Construction Activities |
|------|--|
| 1 | Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen |
| 2 | Construction of trunk sewers and rising mains |
| 3 | SSWSTW and HDD works |
| 4 | Site formation works for POSPS |
| 5 | Drilling works |
| 6 | Excavation works |
| 7 | ELS works |
| 8 | Piling Works |
| 9 | Superstructure RC Works |