Bestwise – SFK Joint Venture

Contract No. DE/2018/17 Enhancement of Deodourisation System at Stonecutters Island Sewage Treatment Works

Monthly Environmental Monitoring and Audit Report September 2021

(Version 1.0)

| Certified By | (Environmental Team Leader) |
|--------------|-----------------------------|
| DEMADING. | |

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

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Agreement No. CE 8/2009(EP) Harbour Area Treatment Scheme Stage 2A Independent Environmental Checker for Construction Phase – Investigation

Our Reference

EC/AFK/DC/bw/T261332/ 22.01/L-1510 Contract No. DE/2018/17 - Enhancement of Deodourisation System at Stonecutters Island Sewage Treatment Works

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19 October 2021 By Post

Dear Sir,

I refer to the captioned Monthly EM&A Report for September 2021 (Version 1.0) submitted by ET on 18 October 2021 via email. In accordance with Condition 4.4 of Environmental Permit No. EP-322/2008/G, I hereby verify the captioned Monthly EM&A Report.

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

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c.c. Ove Arup & Partners HK Limited

Bestwise – SFK Joint Venture Wellab Limited

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By email By email

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ABBREVIATION AND ACRONYM

| AL Levels | Action and Limit Levels |
|---------------|--|
| DSD | Drainage Services Department |
| E / ER | Engineer/Engineer's Representative |
| EIA | Environmental Impact Assessment |
| EM&A | Environmental Monitoring and Audit |
| EMIS | Environmental Mitigation Implementation Schedule |
| EP | Environmental Permit |
| EPD | Environmental Protection Department |
| ET | Environmental Team |
| HVS | High Volume Sampler |
| IEC | Independent Environmental Checker |
| RE | Resident Engineer |
| RH | Relative Humidity |
| QA/QC | Quality Assurance / Quality Control |
| SLM | Sound Level Meter |
| WMP | Waste Management Plan |
| SCISTW | Stonecutters Island Sewage Treatment Works |
| HATS Stage 2A | Harbour Area Treatment Scheme Stage 2A |
| BSJV | Bestwise - SFK Joint Venture |

EXECUTIVE SUMMARY

Introduction

- 1. This is the 25th Monthly Environmental Monitoring and Audit (EM&A) Report prepared by Wellab Limited for DSD Contract No. DE/2018/17 "Enhancement of Deodourisation System at SCISTW" (The Project) which documents the key information of EM&A and environmental monitoring works at the SCISTW under HATS Stage 2A with the Environmental Permit (Permit No. EP-322/2008/G).
- 2. The site activities undertaken in the reporting month included:

<u>E&M</u>

- DOU System
 - Mechanical electrical installation in progress
- Air Relief Duct
 - Leakage Test in process
 - Replacement FRP cover plate (CE)

Environmental Monitoring Works

- 3. The environmental monitoring works of the Project were conducted by the ETs for Contract DE/2018/17, at the SCISTW under HATS 2A with the Environmental Permit (Permit No. EP-322/2008/G). The monitoring results were checked and reviewed and the site audits were conducted once per week. The implementation of the Environmental Mitigation Measures, Event Action Plans, Environmental Complaint and Handling Procedures were also checked.
- 4. Summary of the non-compliance of the reporting month is tabulated in **Table I**.

| Monitoring | Donomotor | No. of Exceedance | | No. of Exceedance Due to the Project | | Action |
|------------|-----------|-------------------|----------------|---|----------------|--------|
| Station | Parameter | Action Level | Limit Level | Action Level | Limit Level | Taken |
| NM5 | Noise | 0 | 0 | 0 | 0 | N/A |
| NM6 | Noise | 0 | 0 | 0 | 0 | N/A |
| AMGh | 1-hr TSP | 0 | 0 | 0 | 0 | N/A |
| AM6b | 24-hr TSP | 0 | 0 | 0 | 0 | N/A |
| AM7 | 1-hr TSP | 0 | 0 | 0 | 0 | N/A |
| AM / | 24-hr TSP | 0 | 0 | 0 | 0 | N/A |
| AM8 | 1-hr TSP | 0 | 0 | 0 | 0 | N/A |
| | 24-hr TSP | 0 | 0 | 0 | 0 | N/A |

| Table I | Summary | Table for Non-com | pliance Recorded in the Re | porting Month |
|---------|---------|-------------------|----------------------------|---------------|
|---------|---------|-------------------|----------------------------|---------------|

1-hour TSP Monitoring

5. All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

24-hour TSP Monitoring

6. All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise

7. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Environmental Licenses and Permits

8. Licenses/Permits granted to the Project include the Environmental Permit (EP); Billing account for Disposal of Construction Waste, Registered as Chemical Waste Producer, Construction Noise Permits and Water Discharge License.

Environmental Mitigation Implementation Schedule

9. According to the EIA Report Section 3.74, 4.56 and 13.44, air quality, noise and landscape and visual would be the key environmental issues and mitigation measures shall be implemented during the construction phase. Details of the implementation of mitigation measures are provided in the **Appendix J**.

Key Information in the Reporting Month

10. Summary of key information in the reporting month is tabulated in **Table II**.

| Event Details | | Action | C4 -4 | D |
|----------------------|---|--|--|--|
| Number | Nature | Taken | Status | Remark |
| 0 | | N/A | N/A | |
| 1 | Monthly EM&A Report for August 2021 | Submitted on 14 September 2021 | N/A | |
| | | Number Nature 0 Monthly EM&A Report for | NumberNatureTaken0N/A1Monthly EM&ASubmitted on 14 September | NumberNatureTakenStatus0N/AN/A1Monthly EM&ASubmitted on 14 SeptemberN/A |

Table II Summary Table for Key Information in the Reporting Month

Summary of Complaints and Prosecutions

0

11. No environmental complaint and prosecution was received for the Project in the reporting month.

N/A

N/A

12. There were no environmental complaint and prosecution received since the commencement of the Project. The Complaint Log is presented in **Appendix H.**

Future Key Issues:

13. Major site activities for the coming two months include:

E&M works

summons &

prosecutions received

- Install isolation device for effluent drop shaft (and concrete repairing)
- T&C of air relief duct
- 14. The environmental concerns in the coming months are mainly on dust generated from the excavated dusty materials, general refuse and construction waste storage.

1. INTRODUCTION

Background

- 1.1 The Project 'Enhancement of Deodourisation System at SCISTW' under Contract No: DE/2018/17 mainly comprises the following major works:
 - Construction of foundation for enhanced deodourisation system;
 - Design, supply, installation, testing and commissioning of enhanced deodourisation systems and associated accessories;
 - Enhancement of isolation devices at chemically enhanced primary treatment (CEPT) tanks;
 - Modification of air ducts at CEPT tanks;
 - Enhancement of sealing performance of existing covers for CEPT tanks; and
 - Any associated works as necessary to complete the above items.
- 1.2 The Project is under Harbour Area Treatment Scheme (HATS) Stage 2A and is a designated project with Register No. : AEIAR-121/2008. The current works under the Project at SCISTW for HATS 2A are covered by the Environmental Permit (Permit No. EP-322/2008/G), which was issued on 9th May 2014 by the Environmental Protection Department (hereinafter called EPD) to the Drainage Services Department (hereinafter called the DSD) as the Permit Holder.
- 1.3 Bestwise SFK Joint Venture (hereafter called the BSJV) was commissioned by the DSD to undertake the construction of the Contract No. DE/2018/17 "Enhancement of Deodourisation System at SCISTW". The date of commencement of construction of the Project is 9th July 2019.
- 1.4 Wellab Limited was commissioned by BSJV to undertake the Environmental Monitoring and Audit (EM&A) works for the project and was appointed as the Environmental Team (ET) of the Project under Condition 2.1 of the EP. The date of commencement of EM&A works is 2nd September 2019. The Project cover the environmental monitoring works at monitoring stations AM6b, AM7, AM8, NM5 and NM6. The general location plan of the Project is shown in **Figure 1**.
- 1.5 This is the 25th monthly EM&A report summarizing the EM&A works conducted for the Project in September 2021.

Project Organizations

1.6 The contacts of the Project are shown in **Table 1.1** and the organization chart of ET for Contract is shown in **Figure 2**.

| 1 abic 1.1 | Key Hojeet Co | intacts | | |
|-----------------------------|---|--------------------|---|-----------|
| Party | Role | Name | Position | Phone No. |
| Ove Arup & Partners Hong | Project Management's Representative | Mr. Edmund Chow | Senior Resident Engineer | 2370 4311 |
| Kong Ltd | Coordinator | Mr. Kevin Cheung | Resident Engineer | 3925 6506 |
| XX7.11.1 | Environmental Team | Dr. Priscilla Choy | ET Leader | 2151 2089 |
| Wellab | | Mr. Howard Chan | Project Coordinator | 2151 2073 |
| Mott MacDonald | Independent Environmental Checker | Dr. Anne Kerr | Independent Environmental Checker | 2828 5757 |
| Bestwise – | | Mr. Ken Chan | Site Agent | 2620 0070 |
| SFK Joint Venture | Contractor | Mr. Leo Leung | Environmental Officer | 2620 0070 |

Table 1.1Key Project Contacts

Construction Programme

1.7 The site activities undertaken in the reporting month included:

E&M

- DOU System
- Mechanical electrical installation in progress
- Air Relief Duct
 - Leakage Test in process
 - Replacement FRP cover plate (CE)

Summary of EM&A Requirements

- 1.8 The EM&A programme requires construction phase monitoring for air quality and construction noise, landscape and visual and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
 - All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event Action Plans;
 - Environmental mitigation measures, as recommended in the project EIA study final report; and
 - Environmental requirements in contract documents.
- 1.9 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 4** of this report.
- 1.10 This report presents the monitoring results, observations, locations, equipment, period, for required monitoring parameter namely air quality, noise and audit works conducted for the Project in September 2021.

2. AIR QUALITY

Monitoring Requirements

2.1 1-hour and 24-hour TSP monitoring were conducted to monitor the air quality. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

2.2 Three designated monitoring stations, AM6b, AM7 and AM8 were selected for impact dust monitoring for the Project. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 1**.

 Table 2.1
 Locations for Air Quality Monitoring

| Monitoring Station Location of Measurement | | |
|--|--|--|
| Works site boundary | | |
| North West Kowloon Sewage Pumping Station | | |
| Block A of Government Dockyard | | |
| | | |

Remark:

(1) AM6b – The pervious location of AM6a was relocated after handover of part of Portion 7.

Monitoring Equipment

2.3 **Table 2.2** summarizes the air quality monitoring equipment and **Appendix B** shows the copies of calibration certificates for the equipment at AM6b, AM7 and AM8.

 Table 2.2
 Air Quality Monitoring Equipment

| Equipment | Model and Make | Quantity |
|--------------------|-------------------------------------|----------|
| Laser Dust Monitor | Met One Instruments no. AEROCET-831 | 4 |
| HVS Sampler | TISCH: Model no. TE-5170 | 3 |
| Calibrator | TISCH: Model TE-5025A | 1 |

Monitoring Parameters, Frequency and Duration

2.4 **Table 2.3** summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting month is shown in **Appendix C.**

 Table 2.3
 Impact Dust Monitoring Parameters, Frequency and Duration

| Monitoring Station | Parameter | Period | Frequency |
|-----------------------------|-------------|---------------|-----------------------|
| All monitoring locations | 1-hour TSP | 0700-1900 hrs | 3 times/ every 6 days |
| | 24-hour TSP | 0000-2400 hrs | once in every 6 days |

Monitoring Methodology and QA/QC Procedure

2.5 The monitoring methodology and QA/QC procedures for monitoring station AM6b, AM7 and AM8 are presented as follow:

TSP Monitoring with Laser Dust Monitor

Instrumentation

- 2.6 Direct reading laser dust meter was deployed for the air quality monitoring as shown in **Table 2.2**.
- 2.7 The measuring procedures of the dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

(AEROCET-831)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Press and hold the Power key momentarily to power on the unit and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 second to display the Sample Screen minutes.
- Press the START / STOP key to run the internal vacuum pump for 1 minute and ready to use.
- Use the select dial to select the PM range and press the START / STOP key to start a measurement.
- Finally, push the START/STOP key to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, value and site condition were recorded during the monitoring period.
- All data were recorded in the data logger for further data processing.

Maintenance/ Calibration

- 2.8 The following maintenance/calibration was required for the direct dust meters:
 - Check the meter at a 3-month interval and calibrate the meter at a 1-year interval throughout all stages of the air quality monitoring.

TSP Monitoring with High Volume Sampler

Instrumentation

(TISCH Model: TE-5170)

2.9 High volume Samplers (HVS) completed with appropriate sampling inlets were employed for 1-hour & 24-hour TSP monitoring. Each sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complies with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

HVS Installation

- 2.10 The following guidelines were adopted during the installation of HVS:
 - A horizontal platform with appropriate support was provided to secure the samplers against gusty wind.
 - No two samplers were placed less than 2 meters apart.
 - The distance between the sampler and an obstacle, such as buildings, was at

least twice the height that the obstacle protrudes above the sampler.

- A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
- A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
- No furnaces or incineration flues were nearby.
- Airflow around the sampler was unrestricted.
- The samplers were more than 20 meters from the drip line.
- Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- Permission and access to the monitoring stations have been obtained to set up the samplers; and
- A secured supply of electricity was provided to operate the samplers.

Filters Preparation

- 2.11 Fibre glass filters, which have a collection efficiency of larger than 99% of particles of 0.3 μm in diameter, were used. A HOKLAS accredited laboratory, Wellab Ltd., (HOKLAS Registration No.083) was responsible for the preparation of 24-hr conditioned and pre-weighed filter papers for Wellab's monitoring team.
- 2.12 All filters, which were prepared by Wellab Ltd., were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ± 3 °C; the relative humidity (RH) was < 50% and not variable by more than $\pm 5\%$. A convenient working RH was 40%.

Operation/ Analytical Procedures

- 2.13 Operating/analytical procedures for the air quality monitoring were highlighted as follows:
 - Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between 1.1 m³/min. and 1.4 m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50;
 - The power supply was checked to ensure the sampler worked properly;
 - On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air quality monitoring station;
 - The filter holding frame was then removed by loosening the four nuts and carefully a weighted and conditioned filter was centered with the stamped number upwards, on a supporting screen;
 - The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges;
 - The shelter lid was closed and secured with the aluminum strip;
 - The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number);

- After sampling, the filter was removed and kept in a clean and tightly sealed plastic bag. The filter paper was then be returned to the HOKLAS laboratory (Wellab Ltd.) for reconditioning in the humidity-controlled chamber followed by accurate weighting by an electronic balance with a readout down to 0.1mg. The elapsed time was also recorded; and
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ± 3 °C; the RH should be < 50% and not vary by more than ± 5 %. A convenient working RH is 40%. Weighing results were returned for further analysis of TSP concentrations collected by each filter.
- 2.14 The general weather conditions (i.e. sunny, cloudy or rainy) were recorded by the field staff's observation on the monitoring day.

Maintenance/ Calibration

- 2.15 The following maintenance/calibration was required for the HVS:
 - The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.

Results and Observations

2.16 **Table 2.4** summarizes the monitoring results at AM6b, AM7 and AM8 in the reporting month. The details and graphical presentations of the air quality monitoring results are shown in **Appendix D**.

| Kepot ting Month | | | | | |
|---------------------------|--------------|--------------|--------------|-------------|--|
| Air Quality | Average | Range | Action Level | Limit Level | |
| Monitoring Station | µg/m³ | μg/m³ | µg/m³ | μg/m³ | |
| | | 1 hour TSP | | | |
| AM6b | 49 | 15 - 134 | 346 | | |
| AM7 | 49.5 | 12.6 - 64.9 | 322 | 500 | |
| AM8 | 42.3 | 12.9 - 105.2 | 307 | | |
| | 24 hours TSP | | | | |
| AM6b | 62 | 42 - 78 | 196 | | |
| AM7 | 40 | 16 - 51 | 207 | 260 | |
| AM8 | 50 | 31 - 60 | 158 | | |

| Table 2.4 | Summary of 1-hour and 24-hour TSP Monitoring Result in the |
|-----------|--|
| | Reporting Month |

- 2.17 All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. Summary of exceedance is presented in **Appendix F.**
- 2.18 All 24-hr TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. Summary of exceedance is presented in **Appendix F.**

2.19 According to field observations during site inspection, the identified dust sources at the monitoring stations were mainly from vehicles movement, dust generated from the excavated dusty materials and construction works of this Contract in the site.

3. NOISE

Monitoring Requirements

3.1 Two noise monitoring stations, namely NM5 and NM6 was designated in the EM&A Manual for impact monitoring. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

3.2 Noise monitoring was conducted at two designated monitoring stations as listed in **Table 3.1**, which are also depicted in **Figure 1**.

| Monitoring Station | Location of Measurement |
|--------------------|--|
| NM5 | Near FSD Diving Rescue and Training Centre |
| NM6 | Customs' Marine Base (Block H of Government Dockyard Rooftop) |

Table 3.1Location of Noise Monitoring Stations

Monitoring Equipment

3.3 Integrating Sound Level Meter was used for construction noise monitoring. The meters are Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 3.2** summarizes the noise monitoring equipment being used. Copies of calibration certificates are attached in **Appendix B**.

Table 3.2Noise Monitoring Equipment

| Equipment | Model and Make | Quantity |
|-------------------------------|---------------------------|----------|
| Integrating Sound Level Meter | BSWA, Model no.: BSWA 308 | 2 |
| Calibrator | SVANTEK, Model no: SV30A | 1 |

Monitoring Parameters, Frequency and Duration

- 3.4 **Table 3.3** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule for the reporting month is shown in **Appendix C**.
- 3.5 As advised by the Contractor, no construction work under Contract No. DE/2018/17 was conducted in the restricted hours during the reported month.

| Tuble ele | Torse Montoning Futurieters, Frequency and Duration | | | |
|------------------------|---|-------------------------------|--|--|
| Monitoring Stations | Parameter | Period | Frequency | |
| NM5 | L _{eq} (30 min.) dB(A) | 0700-1900 hrs. on weekdays | Once per week | |
| NM6 | L _{eq} (5 min.) dB(A) | During restricted hours | Monitoring to be conducted when construction works were to be carried out | |

Table 3.3Noise Monitoring Parameters, Frequency and Duration

Monitoring Methodology and QA/QC Procedures

- 3.6 The monitoring methodology and QA/QC procedure at NM5 and NM6 are presented as follow:
 - The microphone head of the sound level meter was positioned at 1m from the exterior of the noise sensitive I and lowered sufficiently so that the building's external wall acted as a reflecting surface;
 - The battery condition was checked to ensure the correct functioning of the meter;
 - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

| frequency weighting | : A |
|---|---|
| time weighting | : Fast |
| _ time measurement | : $L_{eq}(30 \text{ min.}) dB(A)$ |
| | (as six consecutive Leq, 5min readings) |
| | during non-restricted hours (i.e. 0700- |
| | 1900 hrs on normal weekdays) |

- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re- calibration or repair of the equipment;
- During the monitoring period, the Leq, L90 and L10 were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet;
- Noise measurement was paused temporarily during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible and observation record during measurement period should be provided; and
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. The wind speed should be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Maintenance/ Calibration

- 3.7 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.8 The sound level meter and calibrator were checked and calibrated at yearly intervals.

3.9 Immediately prior to and following each noise measurement, the accuracy of the sound level meter should be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements would be accepted as valid only if the calibration levels before and after the noise measurement agreed to within 1.0 dB.

Results and Observations

3.10 The noise monitoring results are summarized in **Table 3.4**. Detailed monitoring results and graphical presentations of noise monitoring are shown in **Appendix E**.

| ť | 6 | 0 | | |
|--|---------------------------|-------------|--|--|
| For the time period 0700-1900 hrs. on weekdays | | | | |
| Noise Monitoring | Range, dB(A) | Limit Level | | |
| Station | $L_{eq}(30 \text{ min.})$ | dB(A) | | |
| NM5 | 46.2 - 65.6 | 75.0 | | |
| NM6 | 49.9 - 58.6 | 75.0 | | |

 Table 3.4
 Summary the Noise Monitoring Results in Reporting Month

- 3.11 All noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded in the reporting month. Summary of exceedance is presented in **Appendix F**.
- 3.12 1900-2300 hours noise monitoring was not conducted in the reporting month as there were no construction works during the period of restricted hours.
- 3.13 The major noise sources identified at the designated noise monitoring stations were vehicle movement and construction equipment, as well as construction activities from this Contract in Stonecutters Island STW.

4. ENVIRONMENTAL AUDIT

Site Audits

- 4.1 Site audits were conducted on a weekly basis to monitor the implementation of environmental management practices and mitigation measures at the site area by the Contractor.
- 4.2 Site inspections were undertaken to ensure and check that the implementation and maintenance of mitigation measures for Air Quality, Noise, Water Quality, Waste Management, Landscape and Visual are being properly carried out in the reporting month in accordance to section 14.1 of the EM&A Manual. No non-compliance was observed during the site inspections.
- 4.3 The summaries of site audits are attached in **Appendix G**.

Implementation Status of Environmental Mitigation Measures

- 4.4 Details of the implementation of mitigation measures are provided in **Appendix J**.
- 4.5 During the weekly environmental site inspections in the reporting period, no nonconformance was identified. The observations of the site audit for the Projects are summarized in **Table 4.1**.

| Parameters Ref. Number | | Observations | Follow Up Action |
|-------------------------------|------------|--|---|
| | 210923-R01 | Contractor was reminded to dispose general refuse regularly. | Item was remarked as 210930-R01. |
| Water Quality | 210923-R02 | To provide drip tray for storage of chemical. | Chemical was removed from site. |
| | 210930-R01 | Contractor was reminded to dispose general refuse regularly. | Follow-up action will be report in next reporting period. |
| | 210930-R02 | To empty drip tray regularly to avoid leakage. | Follow-up action will be report in next reporting period. |
| Air Quality | N/A | There was no observation in the reporting month. | N/A |
| Noise N/A | | There was no observation in the reporting month. | N/A |
| | 210909-R01 | Contractor was reminded to dispose general refuse regularly. | Item was remarked as 210915-R01. |
| | 210915-R01 | Contractor was reminded to dispose general refuse regularly. | Item was remarked as 210923-R01. |
| | 210923-R01 | Contractor was reminded to dispose general refuse regularly. | Item was remarked as 210930-R01. |
| Waste/ Chemical Management | 210923-R02 | To provide drip tray for storage of chemical. | Chemical was removed from site. |
| | 210930-R01 | Contractor was reminded to dispose general refuse regularly. | Follow-up action will be report in next reporting period. |
| | 210930-R02 | To empty drip tray regularly to avoid leakage. | Follow-up action will be report in next reporting period. |
| Landscape and Visual | 210923-R03 | To set up protection zone for retained plants. | Item was remarked as 210930-R03. |

Table 4.1Observations of Site Audit

| | 210930-R03 | Contractor was reminded to fence off retained plants on site. | Follow-up action will be report in next reporting period. |
|------------------|------------|---|---|
| Permit/ Licenses | N/A | There was no observation in the reporting month. | N/A |

Review of Environmental Monitoring Procedures

4.6 The monitoring works conducted by Contract DE/2018/17's ET were reviewed at a regular basis to ensure the monitoring procedures were carried out properly.

Status of Environmental Licensing and Permitting

4.7 All permits/licenses obtained for the Contract DE/2018/17 are summarized in **Table 4.2**.

| | | U Contraction of the second se | | | |
|--|--------------|--|--|---------|--|
| Reference | Valid Period | | Details | Status | |
| Number | From | То | | Status | |
| Water Dische | arge License | | | | |
| WT00035198- 2019 | 15/1/2020 | 31/1/2025 | The application was approved on 15-1-2020. | Valid | |
| Registered C | hemical Wasi | te Producer | • | | |
| WPN5213- 269-B2565-01 | N/A | N/A | The application was approved on 14-8-2019. | Valid | |
| Billing Account for Disposal of Construction Waste | | | | | |
| CSW03680 | 6/8/2019 | N/A | The application was approved on 6-8-2019. | Valid | |
| Notification of Works Under APCO | | | | | |
| 447348 | N/A | N/A | Notice form received by EPD on 17-7-2019. | N/A | |
| Construction Noise Permit | | | | | |
| GW- RW0096-21 | 2/4/2021 | 25/9/2021 | The application was approved on 26/3/2021 | Expired | |
| GW- RW0374-21 | 26/9/2021 | 25/3/2022 | The application was approved on 24/9/2021 | Valid | |

Table 4.2Summary of Environmental Licence / Permit for DE/2018/17

Status of Waste Management

4.8 The amount of wastes generated by the activities of the Project in the reporting month is shown in **Appendix H**.

Implementation Status of Event Action Plans

4.9 The Event Action Plans for air quality and noise are presented in **Appendix I.**

<u>1-hr TSP</u>

4.10 No Action/Limit Level exceedance was recorded.

<u>24-hr TSP</u>

4.11 No Action/Limit Level exceedance was recorded.

Construction Noise

4.12 No Action/Limit Level exceedance was recorded.

Landscape and Visual

4.13 No non-compliance was recorded.

Summary of Complaints and Prosecutions

- 4.14 No environmental complaint and prosecution was received for the Project in the reporting month.
- 4.15 There were no environmental complaint and prosecution received since the commencement of the Project. The Complaint Log is presented in **Appendix K**.

5. FUTURE KEY ISSUES

Key Issues for the Coming Month

- 5.1 Key environmental issues in the coming month include:
 - Storage of chemicals/fuel and chemical waste/waste oil on-site;
 - Leakage of oil from equipment;
 - Dust generation should be mitigated by adequate water spraying, especially in dry days;
 - Stockpile should be properly covered by tarpaulin or impervious materials to mitigate dust generation;
 - Noise from operation of equipment and machinery on-site;
 - Silty surface runoff generated from the site area; and
 - Silt and dust getting into the public area by the leaving site vehicles at the site exits without adequate wheel washing facilities.

Monitoring Schedule for the Next Month

5.2 The tentative environmental monitoring schedule over the next month is shown in **Appendix C** of this report.

Construction Program for the Next Month

5.3 The tentative construction program is provided in **Appendix L**.

6. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

6.1 Environmental monitoring and audit works were performed in the reporting month and all monitoring results were checked and reviewed.

1-hour TSP Monitoring

6.2 All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

24-hour TSP Monitoring

6.3 All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise Monitoring

6.4 All Construction Noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Environmental Audit

6.5 Environmental site audits were conducted as weekly basis in the reporting month. No non-compliance was recorded.

Complaint and Prosecution

6.6 No environmental complaint and prosecution was received in the reporting month.

Recommendations for next reporting month

6.7 The following recommendations were made for the next report month:

Air Quality

- To provide adequate water spray on site;
- To regularly maintain the machinery and vehicles on site;
- Non-Road Mobile Machinery (NRMM) labels must be demonstrated on the registered equipment for inspection.

Noise

- To inspect the noise sources inside the site;
- To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance.

Water Quality

- To identify any discharge of wastewater from the construction site;
- To provide adequate wastewater treatment facilities to treat the wastewater generated during construction works and heavy rain;
- To avoid water accumulation on site and carry out larviciding against mosquito breeding for stagnant water when mosquito larvae are observed.

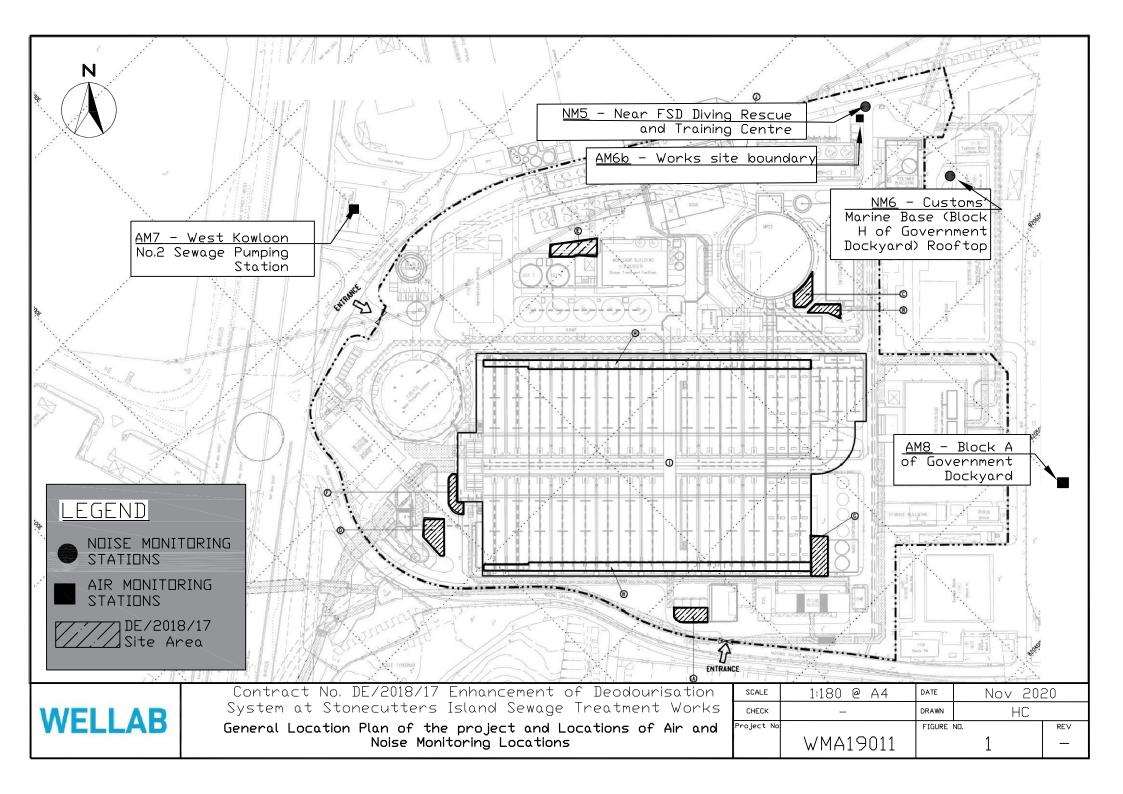
Waste/Chemical Management

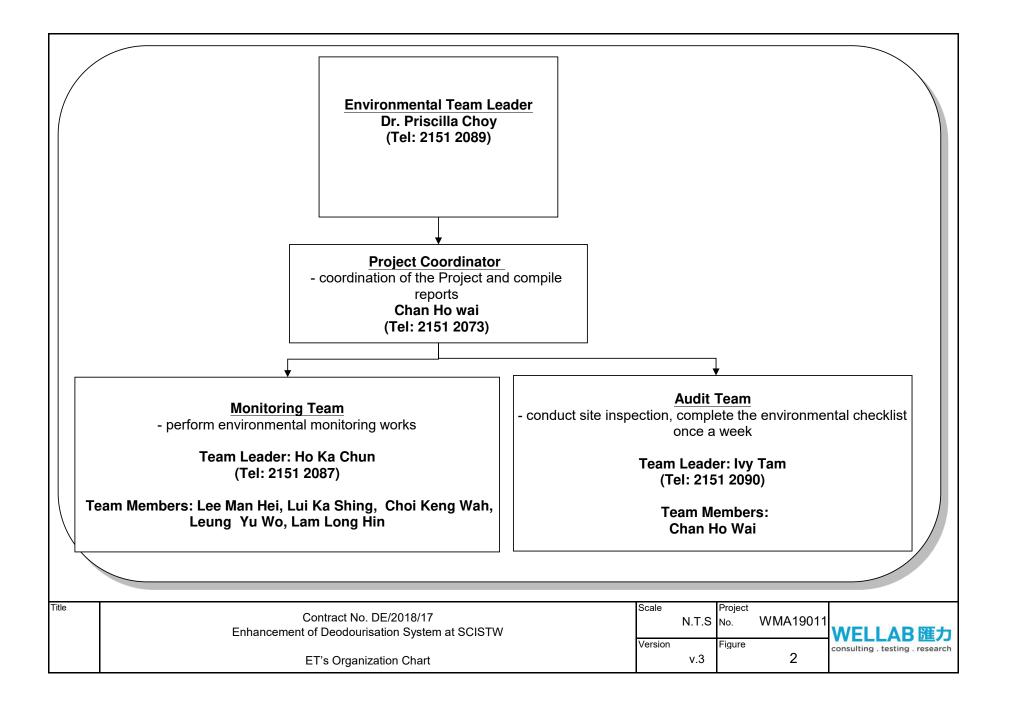
- To provide proper rubbish bins / skips for waste collection;
- To check for any accumulation of wasted materials or rubbish on site;
- To provide adequate chemical waste storage area on site;
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the equipment; and
- To avoid improper handling or storage of oil drum and cement on site.

Landscape and Visual

- To erect and maintain the protection fence around the retained trees; and
- To avoid any construction materials being placed inside the tree protection zone.

FIGURES





APPENDIX A ACTION AND LIMIT LEVELS FOR AIR QUALITY AND NOISE QUALITY

Appendix A Action and Limit Levels

Table A-1 Action and Limit Levels for 1-Hour TSP and 24-Hour TSP

| Monitoring Stations | Action Level (µg/m ³) | | Limit Level (µg/m³) | |
|----------------------------|-----------------------------------|---------|---------------------|---------|
| Monitoring Stations | 1-hour | 24-hour | 1-hour | 24-hour |
| AM6b | 346 | 196 | 500 | 260 |
| AM7 | 322 | 207 | 500 | 260 |
| AM8 | 307 | 158 | 500 | 260 |

Table A-2 Action and Limit Level for Construction Noise

| Monitoring Stations | Time Period | Action Level | Limit Level in dB(A) |
|------------------------|---|---|----------------------|
| | 0700-1900 hours on normal weekdays | When one documented complaint is received | 75 |
| NM5 NM6 | Evening Time of normal weekdays and General Holidays: All days during the evening (1900 to 2300 hours), and general holidays (including Sundays) during the day- time and evening (0700 to 2300 hours) | N/A | 70 ⁽¹⁾ |

Notes: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

APPENDIX B COPIES OF CALIBRATION CERTIFICATES



TEST REPORT

APPLICANT: Wellab Limited (EM&A Department) Room 1808, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

| Test Report No.: | 35376A |
|------------------|------------|
| Date of Issue: | 2021-07-05 |
| Date Received: | 2021-07-02 |
| Date Tested: | 2021-07-02 |
| Date Completed: | 2021-07-05 |
| Next Due Date: | 2021-09-04 |
| Page: | 1 of 1 |

ATTN: Ms. Meiling Tang

Certificate of Calibration

| Item for Calibration: | |
|-----------------------|------------------------|
| Description | : Dust Monitor |
| Manufacturer | : Met One Instruments |
| Model No. | : AEROCET-831 |
| Serial No. | : X23808 |
| Flow rate | : 0.1 cfm |
| Zero Count Test | : 0 count per 1 minute |
| Equipment No. | : WA-01-02 |
| Test Conditions: | |
| Room Temperature | : 17-22 degree Celsius |
| Relative Humidity | : 40-70% |

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.

2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

| Correlation Factor (CF) | 1.066 |
|-------------------------|-------|
|-------------------------|-------|

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE General Manager



TEST REPORT

| APPLICANT: | Wellab Limited |
|-------------------|-----------------------------|
| | (EM&A Department) |
| | Room 1808, Technology Park, |
| | 18 On Lai Street, |
| | Shatin, NT, Hong Kong |

| Test Report No.: | 35810A |
|------------------|------------|
| Date of Issue: | 2021-09-06 |
| Date Received: | 2021-09-03 |
| Date Tested: | 2021-09-03 |
| Date Completed: | 2021-09-06 |
| Next Due Date: | 2021-11-05 |
| Page: | 1 of 1 |

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for Calibration:

| item for ounsident | | |
|--------------------|------------------------|--|
| Description | : Dust Monitor | |
| Manufacturer | : Met One Instruments | |
| Model No. | : AEROCET-831 | |
| Serial No. | : X23808 | |
| Flow rate | : 0.1 cfm | |
| Zero Count Test | : 0 count per 1 minute | |
| Equipment No. | : WA-01-02 | |
| Test Conditions: | | |
| Room Temperature | : 17-22 degree Celsius | |
| Relative Humidity | : 40-70% | |

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.

2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

| Kesuns: | |
|-------------------------|-------|
| Correlation Factor (CF) | 1.095 |
| | |

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

PATRICK TSE General Manager



TEST REPORT

APPLICANT: Wellab Limited (EM&A Department) Room 1808, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

| Test Report No.: | 35659B |
|------------------|------------|
| Date of Issue: | 2021-08-30 |
| Date Received: | 2021-08-27 |
| Date Tested: | 2021-08-27 |
| Date Completed: | 2021-08-30 |
| Next Due Date: | 2021-10-29 |
| Page: | 1 of 1 |

ATTN: Ms. Meiling Tang

Certificate of Calibration

| Description | : Dust Monitor |
|-------------------|------------------------|
| Manufacturer | : Met One Instruments |
| Model No. | : AEROCET-831 |
| Serial No. | : X24479 |
| Flow rate | : 0.1 cfm |
| Zero Count Test | : 0 count per 1 minute |
| Equipment No. | : WA-01-08 |
| Test Conditions: | |
| Room Temperature | : 17-22 degree Celsius |
| Relative Humidity | : 40-70% |
| | |

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.

2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

| Correlation Factor (CF) | 1.068 |
|-------------------------|-------|
| ***** | ***** |

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE General Manager



TEST REPORT

| Wellab Limited |
|-----------------------------|
| (EM&A Department) |
| Room 1808, Technology Park, |
| 18 On Lai Street, |
| Shatin, NT, Hong Kong |
| |

 Test Report No.:
 35659C

 Date of Issue:
 2021-08-30

 Date Received:
 2021-08-27

 Date Tested:
 2021-08-27

 Date Completed:
 2021-08-30

 Next Due Date:
 2021-10-29

 Page:
 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

| Item for Calibration: | |
|-----------------------|------------------------|
| Description | : Dust Monitor |
| Manufacturer | : Met One Instruments |
| Model No. | : AEROCET-831 |
| Serial No. | : X23811 |
| Flow rate | : 0.1 cfm |
| Zero Count Test | : 0 count per 1 minute |
| Equipment No. | : WA-01-09 |
| Test Conditions: | |
| Room Temperature | : 17-22 degree Celsius |
| Relative Humidity | : 40-70% |

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.

2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

| | 0 | Correlation Factor (CF) | 1.058 |
|--|---|-------------------------|-------|
|--|---|-------------------------|-------|

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

17A

PATRICK TSE Laboratory Manager

WELLAB 匯力 consulting . testing . research WELLAB LIMITED Room 1714, Technology Park 18 On Lai Street, Shatin New Territories, Hong Kong Tel: 2898 7388 Fax: 2898 7076 Website : www.wellab.com.hk

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department) Room 1808, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

| | Test Report No.: | 35659D |
|---|------------------|------------|
| | Date of Issue: | 2021-08-30 |
| | Date Received: | 2021-08-27 |
| | Date Tested: | 2021-08-27 |
| | Date Completed: | 2021-08-30 |
| | Next Due Date: | 2021-10-29 |
| ĺ | Page: | 1 of 1 |

ATTN: Ms. Meiling Tang

Certificate of Calibration

| Item for Calibration: | | | | | | |
|-----------------------|------------------------|--|--|--|--|--|
| Description | : Dust Monitor | | | | | |
| Manufacturer | : Met One Instruments | | | | | |
| Model No. | : AEROCET-831 | | | | | |
| Serial No. | : X24478 | | | | | |
| Flow rate | : 0.1 cfm | | | | | |
| Zero Count Test | : 0 count per 1 minute | | | | | |
| Equipment No. | : WA-01-10 | | | | | |
| Test Conditions: | | | | | | |
| Room Temperature | : 17-22 degree Celsius | | | | | |
| Relative Humidity | : 40-70% | | | | | |

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.

2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF) 1.093

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

hhle PATRICK TSE

General Manager



6-8-2-21

618/2011

Date:

Date:

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

| | | | | | | File No. | WMA19011/WA12/0002 |
|-----------------------------------|---------------------------------------|---|---|------------------------|---------------------------|----------------------|--|
| Station AM6 - Works Site Boundary | | Operator: | | HL | | | |
| Date: | 6-Aug-21 | | Next Due I | | 5-Oct-2 | 1 | |
| Equipment No.: | WA-12-12 | | - | Serial No. | 2355 | | |
| | da e terre e te | | Ambien | t Condition | | na internetionale | |
| Temperatu | ıre, Ta (K) | 302.1 | Pressure, Pa (mmHg) | | 751.6 | | |
| | - | an a | Orifice Transfer S | Standard Info | mation | | Exception of the second |
| Seria | il No. | 0993 | Slope, mc | 0.0569 | Intercept, | | -0.01398 |
| Last Calibr | ation Date: | 28-Jan-21 | $mc x Qstd + bc = [\Delta H x (F)]$ | | - bc = [ΔH x (Pa/7 | $(760) \ge (298/Ta)$ | |
| Next Calibr | ration Date: | 28-Jan-22 | Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc | | | | } / me |
| | | • | Calibration | of TSD Sampl | | | |
| | 1 | | fice | of for sample | | HVS | |
| Calibration Point | ΔH (orifice), in. of water | ΔH (orifice), [$\Delta H \propto (P_{\rm P})/76$] | | Qstd (CFM) X - axis | ΔW (HVS), in. of water | | Pa/760) x (298/Ta)] ^{1/2} Y-axis |
| 1 | 14.0 | | 3.70 | 65.22 | 8.9 | | 2.95 |
| 2 | 10.8 | 3.25 2.72 | | 57.31 | 6.7 | | 2.56 |
| 3 | 7.6 | | | 48.12 | 5.0 | 2.21 | |
| 4 | 4 5.3 2. | | 2.27 | 40.22 | 3.4 | | 1.82 |
| 5 | 3.8 | | 1.93 | 34.09 | 2.4 | 1.53 | |
| | | - | | | | | |
| By Linear Reg Slope , mw = | ression of Y on X 0.0449 | κ. | | Infercent, bw : | 0.0134 | | |
| * | coefficient* = | - 0.4 | 9991 | | | | |
| | Coefficient < 0.99 | | | - | | | |
| | | | | | | | |
| | en en ser ser se | | Set Poin | t Calculation | | | alah di pertekan kana di sebi |
| From the TSP F | ield Calibration C | Curve, take Qstd | = 43 CFM | | | | |
| From the Regre | ssion Equation, th | e "Y" value acc | ording to | | | | |
| | | | | | | | |
| | | mw | $x \operatorname{Qstd} + \operatorname{bw} = [\Delta V]$ | W x (Pa/760) x | (298/Ta)]*** | | |
| Therefore, S | Set Point; W = (m | w x Qstd + bw) | ² x (760 / Pa) x (| Ta / 298) = | 3.87 | | |
| | | | | | | | |
| | | | | | | | |
| Remarks: | | | | | | | |

Conducted by: <u>115</u> Mari HEZ Signature: Checked by: <u>Ho Fa A</u> Signature:

hip



High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

| AM7 - North West Kowloon Sewage Pumping Station Operator: HL Date: 6-Aug-21 Next Due Date: 5-Oct-21 Equipment No: WA-12-14 Serial No. 2353 Ambient Condition Temperature, Ta (K) 302.3 Pressure, Pa (mm/Hg) 751.4 Orifice Transfer Standard Information Serial No. 0993 Slope, me 0.0569 Intercept, be -0.01398 Last Calibration Date: 28-Jan-21 Orifice Transfer Standard Information State Calibration Date: 28-Jan-22 Out of the Calibration of TSP Sampler Calibration Date: 28-Jan-22 Out of water INVS Calibration Orte: Calibration of TSP Sampler Calibration Ortice INVS Orifice Transfer Standard Information Orifice Transfer Standard (PM (HVS)), in: (Wark (Pa/760) x (298/Ta)] ^{1/2} Next Calibration Orifice IOVED Orifice Transfer Standard In | | | | | | | File No. | WMA19011/WA14/0002 | |
|--|--|-----------------------------|-----------------------|---|----------------|-----------------------|----------------------------|-------------------------------|--|
| Serial No. 2353 Ambient Condition Temperature, Ta (K) 302.3 Pressure, Pa (mmHg) 751.4 Orifice Transfer Standard Information Serial No. 0993 Slope, mc 0.0569 Intercept, bc -0.01398 Last Calibration Date: 28-Jan-21 we x Qstd + bc = [AH x (Pa/760) x (298/Ta)] ^{1/2} Calibration of TSP Sampler Calibration Corfice HVS Intercept, bw: 10.0 A H (pri/fo0) x (298/Ta)] ^{1/2} Sampler Conclain colspan= 2 <td>Station</td> <td>AM7 - North West</td> <td>t Kowloon Sewage</td> <td>Pumping Station</td> <td>Operator:</td> <td>HL</td> <td></td> <td></td> | Station | AM7 - North West | t Kowloon Sewage | Pumping Station | Operator: | HL | | | |
| Ambient Condition Temperature, Ta (K) 302.3 Pressure, Pa (mmHg) 751.4 Orifice Transfer Standard Information Serial No, 0993 Slope, mc 0.0369 Intercept, bc -0.01398 Last Calibration Date: 28-Jan-21 me x Qstd + be = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$ Calibration Date: 28-Jan-22 Qstd = { $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$ Calibration Date: 28-Jan-22 Qstd = $\{[\Delta H x (Pa/760) x (298/Ta)]^{1/2} - be\} / me$ Calibration Of TSP Sampler Calibration of TSP Sampler Tentor of TSP Sampler Calibration of TSP Sampler HYS Calibration of TSP Sampler 10.6 3.2 62.1 2.1 | Date: | 0 | | 1 | • | | 1 | | |
| Ambient Condition Temperature, Ta (K) 302.3 Pressure, Pa (mmHg) 751.4 Orifice Transfer Standard Information Serial No. 0993 Slope, mc 0.0569 Intercept, bc -0.01398 Last Calibration Date: 28-Jan-21 mex Qstd + be = [AH x (Pa/760) x (298/Ta)] ^{1/2} Calibration Date: 28-Jan-21 Orifice HVS Calibration Date: 28-Jan-21 WS Calibration Date: 28-Jan-21 WS Calibration Orifice HVS 12.7 3.5 7 12.7 3.5 7 2.3 <th colsp<="" td=""><td>Equipment No.:</td><td>-</td><td></td><td></td></th> | <td>Equipment No.:</td> <td>-</td> <td></td> <td></td> | | | Equipment No.: | | | - | | |
| Temperature, Ta (K) 302.3 Pressure, Pa (mmHg) 751.4 Orifice Transfer Standard Information Serial No. 0993 Slope, mc 0.0569 Intercept, bc -0.01398 Last Calibration Date: 28-Jan-21 me x Qstd + be = [Δ H x (Pa/760) x (298/Ta)] ^{1/2} 0.01398 Next Calibration Date: 28-Jan-21 Qstd = {[Δ H x (Pa/760) x (298/Ta)] ^{1/2} 0.01398 Calibration Date: 28-Jan-22 Qstd = {[Δ H x (Pa/760) x (298/Ta)] ^{1/2} 0.01398 Calibration Date: 28-Jan-22 Qstd = {[Δ H x (Pa/760) x (298/Ta)] ^{1/2} Vertice Calibration Point Aff (orifice), in. of water Image: Calibration of TSP Sampler HVS 1 12.7 3.52 62.10 8.4 2.86 2 10.6 3.21 56.75 7.1 2.63 3 7.7 2.74 48.41 5.6 2.34 4 5.1 2.23 39.44 3.5 1.85 5 3.4 1.82 32.25 2.3 1.50 Set Point Calculation From the Tsp Field Calibration Curve, take Qstd = 43 CFM | | | the second state | Ambien | t Condition | | nekoj teleko | | |
| Orifice Transfer Standard Information Serial No. 0993 Slope, mc 0.0569 Intercept, bc -0.01398 Last Calibration Date: 28-Jan-21 mc x Qstd + bc = [AH x (Pa/760) x (298/Ta)]^{1/2} Mext Calibration Date: 28-Jan-22 Qstd = {[AH x (Pa/760) x (298/Ta)]^{1/2} - bc] / mc Calibration Date: 28-Jan-22 Qstd = Calibration of TSP Sampler Calibration of TSP Sampler It (AH (orifice), in. of water [AH x (Pa/760) x (298/Ta)]^{1/2} Qstd (CFM) AW (HVS), in. [AW x (Pa/760) x (298/Ta)]^{1/2} 1 12.7 3.52 62.10 8.4 2.86 2 10.6 3.21 56.75 7.1 2.63 3 7.7 2.74 48.41 5.6 2.34 4 5.1 2.23 39.44 3.5 1.85 Set Point Calculation Form the Regression Equation, the "Y" value according to | Temperatu | re, Ta (K) | 302.3 | | | | 751.4 | | |
| Orlice Hanser Statistic function of the function | | | | | | <u>*</u> | | | |
| Last Calibration Date: 28-Jan-21 mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$ Next Calibration Date: 28-Jan-22 Qstd = $\{[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$ -bc] / mc Calibration Date: Calibration of TSP Sampler Calibration ΔH (orifice), in. of water $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$ Qstd (CFM) ΔW (HVS), in. $[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ 1 12.7 3.52 62.10 8.4 2.86 2 10.6 3.21 56.75 7.1 2.63 3 7.7 2.74 48.41 5.6 2.34 4 5.1 2.23 39.44 3.5 1.85 5 3.4 1.82 32.25 2.3 1.50 Set Point Calculation Forrelation Coefficient* < 0.990, check and recalibrate. Set Point Calculation For the Regression Equation, the "Y" value according to mw x Qstd + bw = $[\Delta W x (Pa/760) x (298/Ta)]^{1/2} $ | | | a anna na straite. Sa | Orifice Transfer S | Standard Info | rmation | | | |
| Next Calibration Date:28-Jan-22Qstd = {[AH x (Pa/760) x (298/Ta)]^{1/2} -bc] / mcCalibration of TSP SamplerCalibration of TSP SamplerCalibration Point ΔH (orifice), in. of water $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$ Qstd (CFM) X - axis ΔW (HVS), in. of water $[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ 112.73.5262.108.42.86210.63.2156.757.12.6337.72.7448.415.62.3445.12.2339.443.51.8553.41.8232.252.31.50By Linear Regression of Y on XSter Point CalculationFrom the TSP Field Calibration Curve, take Qstd = 43 CFMFrom the Regression Equation, the "Y" value according to mw x Qstd + bw = $[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ | Serial | No. | 0993 | Slope, mc | 0.0569 | Intercept, | bc | -0.01398 | |
| Calibration of TSP Sampler Calibration Point Orfice HVS ΔH (orifice), in. of water $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Qstd (CFM) X - axis ΔW (HVS), in. ($\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ 1 12.7 3.52 62.10 8.4 2.86 2 10.6 3.21 56.75 7.1 2.63 3 7.7 2.74 48.41 5.6 2.34 4 5.1 2.23 39.44 3.5 1.85 5 3.4 1.82 32.25 2.3 1.50 By Linear Regression of Y on X Stope , mw = | Last Calibra | ation Date: | 28-Jan-21 | | | | a)] ^{1/2} | | |
| Calibration of 1SF Sampler Calibration of 1SF Sampler Orfice HVS Calibration ΔH (orifice), $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$ Qstd (CFM) ΔW (HVS), in. $[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ 1 12.7 3.52 62.10 8.4 2.86 2 10.6 3.21 56.75 7.1 2.63 3 7.7 2.74 48.41 5.6 2.34 4 5.1 2.23 39.44 3.5 1.85 5 3.4 1.82 32.25 2.3 1.50 Set Point Calculation Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = [$\Delta W x (Pa/760) x (298/Ta)$] ^{1/2} | Next Calibr | ation Date: | 28-Jan-22 | | Qstd = {[Δ] | H x (Pa/760) x (29 | 8/Ta)] ^{1/2} -bc} | } / mc | |
| Calibration of 1SF Sampler Calibration of 1SF Sampler Orfice HVS Calibration ΔH (orifice), $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$ Qstd (CFM) ΔW (HVS), in. $[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ 1 12.7 3.52 62.10 8.4 2.86 2 10.6 3.21 56.75 7.1 2.63 3 7.7 2.74 48.41 5.6 2.34 4 5.1 2.23 39.44 3.5 1.85 5 3.4 1.82 32.25 2.3 1.50 Set Point Calculation Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = [$\Delta W x (Pa/760) x (298/Ta)$] ^{1/2} | | | • | | | | | | |
| Calibration Point ΔH (orifice), in. of water $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Qstd (CFM) X - axis ΔW (HVS), in. of water $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ 1 12.7 3.52 62.10 8.4 2.86 2 10.6 3.21 56.75 7.1 2.63 3 7.7 2.74 48.41 5.6 2.34 4 5.1 2.23 39.44 3.5 1.85 5 3.4 1.82 32.25 2.3 1.50 By Linear Regression of Y on X Stope , mw = | | | NAR DE L | Calibration | of TSP Sampl | er | er sette gr | le de la secter | |
| Point ΔH (orifice), in. of water $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Qstd (CFM) X - axis ΔW (HVS), in. of water $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ 1 12.7 3.52 62.10 8.4 2.86 2 10.6 3.21 56.75 7.1 2.63 3 7.7 2.74 48.41 5.6 2.34 4 5.1 2.23 39.44 3.5 1.85 5 3.4 1.82 32.25 2.3 1.50 By Linear Regression of Y on X Set Point Calculation For the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ | Colibration | | Or | fice | | | HVS | | |
| $\frac{2}{3} = \frac{10.6}{3.21} = \frac{56.75}{7.1} = \frac{2.63}{2.34}$ $\frac{3}{7.7} = \frac{2.74}{2.74} = \frac{48.41}{48.41} = \frac{5.6}{2.34} = \frac{2.34}{3.5}$ $\frac{4}{3.5} = \frac{1.85}{3.4} = \frac{2.23}{32.25} = \frac{2.3}{2.3} = \frac{1.50}{1.50}$ By Linear Regression of Y on X Slope , mw = 0.0457 Intercept, bw : 0.0499 Correlation coefficient* = 0.9972 * 11 Correlation Coefficient < 0.990, check and recalibrate. From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = [\Delta W x (Pa/760) x (298/Ta)]^{1/2} | | Point ΔH (orifice), | | [ΔH x (Pa/760) x (298/Ta)] ^{1/2} | | | [ΔW x (I | | |
| 3 7.7 2.74 48.41 5.6 2.34 4 5.1 2.23 39.44 3.5 1.85 5 3.4 1.82 32.25 2.3 1.50 By Linear Regression of Y on X Slope, $mw = 0.0457$ Intercept, $bw : 0.0499$ Correlation coefficient* = 0.9972 *If Correlation Coefficient < 0.990, check and recalibrate. | 1 | 12.7 | | 3.52 | 62.10 | 8.4 | | 2.86 | |
| 45.12.2339.443.51.8553.41.8232.252.31.50By Linear Regression of Y on XSlope , $mw = _ 0.0457$ Intercept, $bw : _ 0.0499$ Correlation coefficient* = $_ 0.9972$ *If Correlation Coefficient < 0.990, check and recalibrate. | 2 | 10.6 | | 3.21 | 56.75 | 7.1 | | 2.63 | |
| 5 3.4 1.82 32.25 2.3 1.50 By Linear Regression of Y on X Slope , mw = | 3 | 7.7 | 7.7 2.74 | | 48.41 | 5.6 | | 2.34 | |
| By Linear Regression of Y on X Slope , $mw = 0.0457$ Intercept, $bw : 0.0499$ Correlation coefficient* = 0.9972 *If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to $mw x Qstd + bw = [\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ | 4 | 5.1 2.23 | | 2.23 | 39.44 | 3.5 | | 1.85 | |
| Slope , $mw = 0.0457$ Intercept, $bw : 0.0499$ Correlation coefficient* = 0.9972 *If Correlation Coefficient < 0.990, check and recalibrate. | 5 3.4 | | | 1.82 | | 2.3 | | 1.50 | |
| *If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)] ^{1/2} | Slope, mw = | 0.0457 | - | | Intercept, bw | 0.0499 |) | | |
| Set Point CalculationFrom the TSP Field Calibration Curve, take Qstd = 43 CFMFrom the Regression Equation, the "Y" value according tomw x Qstd + bw = $[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ | | | | | - | | | | |
| From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to $\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x} (\mathbf{Pa}/760) \mathbf{x} (\mathbf{298/Ta})]^{1/2}$ | *If Correlation (| Coefficient < 0.99 | 00, check and red | calibrate. | | | | | |
| From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to $\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x} (\mathbf{Pa}/760) \mathbf{x} (\mathbf{298/Ta})]^{1/2}$ | | a sa ka babara sa sa sa | an an an the state | in the second | | en a stille fan keide | | and a sector strategic sector | |
| From the Regression Equation, the "Y" value according to $mw \ x \ Qstd + bw = [\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ | | | | | t Calculation | | u processo de pro- | | |
| mw x Qstd + bw = $[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ | | | | | | | | | |
| | From the Regres | sion Equation, th | e "Y" value acc | ording to | | | | | |
| Therefore, Set Point; $W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = 4.17$ | | | mw | $x \operatorname{Qstd} + \mathbf{bw} = [\Delta \mathbf{v}]$ | W x (Pa/760) x | $(298/Ta)]^{1/2}$ | | | |
| | Therefore, S | et Point; W = (m | w x Qstd + bw) | ² x (760 / Pa) x (| Ta / 298) = | 4.17 | | | |
| | L | | | | | | | | |

Remarks:

Conducted by: <u>LEF MAN 1</u>772 Signature: Checked by: <u>AD Call</u> Signature:

hen

6-8-2001 Date: Date:



High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

| | | | | | | File No. | WMA19011/WA18/0002 |
|--|--|-------------------|------------------------------------|------------------------|-----------------------------------|---------------------------|--|
| Station | AM8 - Block A | of Governmer | nt Dockyard | Operator: | HL | | |
| Date: | 6-Aug-21 | | Next Due Date: | | 5-Oct-21 | | |
| Equipment No.: | WA-12-18 | | | Serial No. | 3219 | | |
| | anga ban sa | iner e februaria. | Ambian | t Condition | | un e teasta | <u>.</u> References en la compañía |
| Temperature, Ta (K) 302.7 | | | | | | | · · · · · · · · · · · · · · · · · · · |
| remperatu | ie, ia (K) | 502.7 | riessure, ra | (mmrg) | <u> </u> | 751.1 | |
| i en el perior de la sec | | n gular sis | Orifice Transfer S | Standard Info | rmation | n ny fitry hit | dia di seda se come |
| Serial | No. | 0993 | Slope, mc | 0.0569 | Intercept, | bc | -0.01398 |
| Last Calibra | ation Date: | 28-Jan-21 | | mc x Qstd + | + bc = $[\Delta H \times (Pa/7)]$ | '60) x (298/T | [a)] ^{1/2} |
| Next Calibr | ation Date: | 28-Jan-22 | | Qstd = {[Δ] | H x (Pa/760) x (29 | 8/Ta)] ^{1/2} -bc | } / mc |
| | | • | | | <u> </u> | | |
| and the second | n an tha an t I | | Calibration | of TSP Sampl | er | ana se inggang T | g dy cyntae a saa s |
| Calibration | | Or | fice | | | HVS | |
| Point | ΔH (orifice), in. of water | [ΔH x (Pa/76 | 0) x (298/Ta)] ^{1/2} | Qstd (CFM) X - axis | ΔW (HVS), in. of water | [ΔW x (l | Pa/760) x (298/Ta)] ^{1/2} Y-axis |
| 1 | 11.4 | 3 | 3.33 | 58.80 | 8.2 | | 2.82 |
| 2 | 9.7 | | 3.07 | 54.25 | 6.7 | | 2.55 |
| 3 | 7.8 | 2 | 2.75 | 48.68 | 5.4 | | 2,29 |
| 4 | 5.6 | 2 | 2.33 | 41.28 | 3.9 | | 1.95 |
| 5 3.3 1.79 | | 1.79 | 31.75 | 2,4 | | 1.53 | |
| | | | | | | | |
| By Linear Regi | ression of Y on X | ζ. | | | | | |
| Slope , mw = | 0.0474 | _ | | Intercept, bw | 0.0056 | | |
| Correlation c | oefficient* = | 0.9 | 988 | _ | | | |
| *If Correlation (| Coefficient < 0.99 | 90, check and rec | alibrate. | | | | |
| ing the second second | est est a ser a se | an kan di shake | | | | 1 | A Gran data ana. |
| | | | | t Calculation | | | in a star strand star T |
| | ield Calibration C | | | | | | |
| From the Regres | ssion Equation, th | ie "Y" value acco | ording to | | | | |
| | | mw | $x \text{ Qstd} + bw = [\Delta V]$ | W x (Pa/760) x | $(298/Ta)]^{1/2}$ | | |
| | | | , | | | | |
| Therefore, Se | et Point; W = (m | w x Qstd + bw) | ² x (760 / Pa) x (| Ta / 298) = | 4.29 | | |
| L | | | | | | | |
| | | | | | | | |
| Remarks: | | | | | | | |
| remand. | | | ***** | ······ | | | |

Conducted by: USE HANN HEL Signature: Checked by: 1/2 CA CUM Signature:

heip

6-8-2021 618/2021 Date: Date:

| | | | | | | | REC | ALIBRATION |
|----------------------------|-------------|--|--|------------------|---|-------------|---|------------------------------------|
| | 26 | | | \square | | | D | UE DATE: |
| | <u> </u> | | | | | | lanu: | ary 28, 202 |
| | | | Selected | V | , | | 30° 637 6 3° 90° 6 | |
| <u>IVII</u> | | <u>ent</u> | <u>a 1</u> | •••• | and the second se | | | <u></u> |
| | Ce | , rtifa | cate | of O | Cal | ibra | rtion | |
| | | | Calibration | Certificatio | on Informat | ion | | |
| Cal. Date: | January 28 | , 2021 | Roots | meter S/N: | 438320 | Ta: | 294 | °K |
| Operator: | Jim Tisch | | | | | Pa: | 763.5 | mm Hg |
| Calibration | Model #· | TE-5025A | Calil | orator S/N: | 0993 | | | |
| Cambration | moderat | TE SOESIT | | | | | | |
| | | Vol. Init | Vol. Final | ΔVol. | ΔTime | ΔΡ | ΔΗ | |
| | Run | (m3) | (m3) | (m3) | (min) | (mm Hg) | (in H2O) | |
| | 1 | 1 | 2 | 1 | 1.4160 | 3.3 | 2.00 | |
| | 2 | 3 | 4 | 1 | 0.9980 | 6.4 | 4.00 | |
| | 3 | 5 | 6 | 1 | 0.8890 | 8.0 | 5.00 | |
| | 4 | 7 | 8 | 1 | 0.8500 | 8.8 | 5.50 | |
| | 5 | 9 | 10 | 1 | 0.7020 | 12.9 | 8.00 | |
| | | |] | Data Tabula | abulation | | | |
| | Vstd | Qstd | $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$ |)(<u>Tstd</u>) | | Qa | $\sqrt{\Delta H(Ta/Pa)}$ | |
| | (m3) | (x-axis) | (y-ax | is) | Va | (x-axis) | (y-axis) | |
| | 1.0139 | 0.7160 | 1.42 | 71 | 0.9957 | 0.7032 | 0.8776 | |
| | 1.0098 | 1.0118 | 2.018 | | 0.9916 | 0.9936 | 1.2411 | |
| | 1.0076 | 1.1334 | 2.25 | | 0.9895 | 1.1131 | 1.3875 | |
| | 1.0066 | 1.1842 | 2.360 | | 0.9885 | 1.1629 | 1.4553 | |
| | 1.0011 | 1.4261 | 2.854 | | 0.9831 | 1.4004 | 1.7551 1.25802 | * |
| | OCTO | | -0.013 | | 01 | | -0.00860 | |
| | QSTD | r= | 0.999 | No. 9465-02607 | QA | r= | 0.99997 | |
| | [| | | | | | | £] |
| | Vetel- | | /Pstd)(Tstd/Ta | Calculation | | ΔVol((Pa-ΔP | 0)/Pa) | |
| | | Vstd/ATime | , | -1 | | Va/ΔTime | 11 | |
| | | , | For subsequ | ent flow rai | low rate calculations: | | | |
| | Qstd= | 1/m ((\\ \[\[\] \[\] \ \ \ \ \ \ \ \ \ \ \ \ \ | Pa <u>Tstd</u> Pstd Ta |))-b) | | 11 | (Та/Ра))-b) | |
| <u> </u> | Standard | Conditions | | | | | . <u>, , , , , , , , , , , , , , , , , , ,</u> | - |
| Tstd | 298.15 | °К | | Γ | | RECA | IBRATION | |
| Pstd | 760 | mm Hg | | ľ | | | | 1000 |
| | | (ey | - 1120) | | US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, | | | TOTAL CARDON CONTRACTOR CONTRACTOR |
| A11 111 | | | | | | | 1. 1977 I. 1. 1977 I. | |
| ΔH: calibrat | ator manom | ter manometer reading (mm Hg) psolute temperature (°K) | | | Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in | | | |
| ΔP: rootsm | | | (initi 15) | | and the second second second second second second | | | powerships provides and and a |
| ΔP: rootsm Ta: actual a | bsolute tem | | | | Determinat | ion of Susp | | e Matter in |

Tisch Environmental, Inc.

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Village of Cleves, OH 45002

<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009

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TEST REPORT

APPLICANT: Wellab Limited (EM&A Department) Room 1701, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

| Test Report No.: | 34873 |
|------------------|------------|
| Date of Issue: | 2021-03-15 |
| Date Received: | 2021-03-12 |
| Date Tested: | 2021-03-12 |
| Date Completed: | 2021-03-15 |
| Next Due Date: | 2022-03-14 |
| Page: | 1 of 1 |

ATTN: Mr. W. K. Tang

Certificate of Calibration

Item for calibration:

| Description | : Sound Level Meter |
|---------------|---------------------|
| Manufacturer | : BSWA |
| Model No. | : BSWA 308 |
| Serial No. | : 580011 |
| Equipment No. | : WN-01-08 |
| itions: | |

Test conditions:

Room Temperature Relative Humidity : 17-22 degree Celsius : 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

| Reference Set Point, dB | Instrument Readings, dB | | |
|-------------------------|-------------------------|--|--|
| 94 | 94.0 | | |
| 114 | 114.0 | | |

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE General Manager

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WELLAB LIMITED Room 1701, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department) Room 1701, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

| Test Report No.: | 34873B |
|------------------|------------|
| Date of Issue: | 2021-03-15 |
| Date Received: | 2021-03-12 |
| Date Tested: | 2021-03-12 |
| Date Completed: | 2021-03-15 |
| Next Due Date: | 2022-03-14 |
| Page: | 1 of 1 |

ATTN: Mr. W. K. Tang

Certificate of Calibration

Item for calibration:

| Description | : Sound Level Meter |
|-------------------|------------------------|
| Manufacturer | : BSWA |
| Model No. | : BSWA 308 |
| Serial No. | : 580017 |
| Equipment No. | : WN-01-10 |
| conditions: | |
| Room Temperature | : 17-22 degree Celsius |
| Relative Humidity | : 40-70% |

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Test

| Reference Set Point, dB | Instrument Readings, dB | | |
|-------------------------|-------------------------|--|--|
| 94 | 94.0 | | |
| 114 | 114.0 | | |

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

PATRICK TSE General Manager

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WELLAB LIMITED Room 1701, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

| Test Report No.: | 34136 |
|------------------|------------|
| Date of Issue: | 2020-10-03 |
| Date Received: | 2020-09-29 |
| Date Tested: | 2020-09-29 |
| Date Completed: | 2020-10-03 |
| Next Due Date: | 2021-10-02 |
| Page: | 1 of 1 |

ATTN: Mr. W. K. Tang

Certificate of Calibration

Item for calibration:

| Description | : Acoustical Calibrator |
|---------------|-------------------------|
| Manufacturer | : SVANTEK |
| Model No. | : SV30A |
| Serial No. | : 24803 |
| Equipment No. | : N-09-03 |
| | |

Test conditions:

Room Temperature Relative Humidity : 17-22 degree Celsius : 40-70%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

| Sound Pressure Level (1kHz) | Measured SPL | Tolerance |
|-----------------------------|--------------|---------------------------|
| At 94 dB SPL | 94.0 | $94.0 \pm 0.1 \text{ dB}$ |
| At 114 dB SPL | 114.0 | 114.0 ± 0.1 dB |

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

PATRICK TSE

General Manager

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APPENDIX C ENVIRONMENTAL MONITORING SCHEDULES

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|-------------|-----------|----------------------|----------------------|----------------------|----------|
| | | | 1-Sep | 2-Sep | 3-Sep | 4-Sep |
| | | | | 24 hr TSP | 1hr TSP X 3 Noise | |
| 5-Sep | 6-Sep | 7-Sep | 8-Sep | 9-Sep | 10-Sep | 11-Sep |
| | | | 24 hr TSP | 1hr TSP X 3 Noise | | |
| 12-Sep | 13-Sep | 14-Sep | 15-Sep | 16-Sep | 17-Sep | 18-Sep |
| | | 24 hr TSP | lhr TSP X 3 Noise | | 24 hr TSP | |
| 19-Sep | 20-Sep | 21-Sep | 22-Sep | 23-Sep | 24-Sep | 25-Sep |
| | lhr TSP X 3 | | | 24 hr TSP | 1hr TSP X 3 Noise | |
| 26-Sep | 27-Sep | 28-Sep | 29-Sep | 30-Sep | | |
| | | 24 hr TSP | lhr TSP X 3 Noise | | | |

DE/2018/17, Enhancement of Deodourisation System at Stonecutters Island Sewage Treatment Works Impact Air Quality and Noise Monitoring Schedule (September 2021)

Air Quality Monitoring Station

AM7 - West Kowloon No.2 Sewage Pumping Station AM8 - Block A of Government Dockyard AM6b - Works Site Boundary

Noise Monitoring Station

NM6 - Customs' Marine Base (Block H of Government Dockyard) Rooftop NM5 - FSD Diving Training Centre

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|-------------|----------------------|----------------------|----------|----------------------|----------|
| , i | ž | ž | 2 | ž | 1-Oct | 2-Oct |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 3-Oct | 4-Oct | 5-Oct | 6-Oct | 7-Oct | 8-Oct | 9-Oct |
| | | 11. TOD X 2 | | | | |
| | | 1hr TSP X 3 Noise | | | | |
| | 24 hr TSP | | | | 24 hr TSP | |
| | | | | | | |
| 10-Oct | 11-Oct | 12-Oct | 13-Oct | 14-Oct | 15-Oct | 16-Oct |
| | | | | | | |
| | 1hr TSP X 3 | | | | 1hr TSP X 3 Noise | |
| | | | 24 hr TSP | | 110100 | |
| | | | | | | |
| 17-Oct | 18-Oct | 19-Oct | 20-Oct | 21-Oct | 22-Oct | 23-Oct |
| | | | | | | |
| | | | 1hr TSP X 3 Noise | | | |
| | | 24 hr TSP | 110100 | | | |
| | | | | | | |
| 24-Oct | 25-Oct | 26-Oct | 27-Oct | 28-Oct | 29-Oct | 30-Oct |
| | | | | | | |
| | | 1hr TSP X 3 Noise | | | | |
| | 24 hr TSP | TOBE | | | 24 hr TSP | |
| | | | | | | |
| 31-Oct | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

DE/2018/17, Enhancement of Deodourisation System at Stonecutters Island Sewage Treatment Works Tentative Impact Air Quality and Noise Monitoring Schedule (October 2021)

The schedule may be changed due to unforeseen circumstances (adverse weather, etc.)

Air Quality Monitoring Station

AM7 - West Kowloon No.2 Sewage Pumping Station AM8 - Block A of Government Dockyard AM6b - Works Site Boundary

Noise Monitoring Station

NM6 - Customs' Marine Base (Block H of Government Dockyard) Rooftop NM5 - FSD Diving Training Centre

APPENDIX D 1-HOUR AND 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix D - 1-hour TSP Monitoring Results

Location AM6b - Works Site Boundary

| Start Date | Start Time | Weather | Air | Filter W | eight (g) | Particulate | Elapse | e Time | Sampling | Flow Rate | e (m ³ /min.) | Av. flow | Total vol. | Conc. | Filter |
|------------|------------|-----------|-----------|----------|-----------|-------------|---------|---------|------------|-----------|--------------------------|-----------------------|-------------------|----------------------|------------|
| Start Date | Start Time | Condition | Temp. (K) | Initial | Final | weight (g) | Initial | Final | Time(hrs.) | Initial | Final | (m ³ /min) | (m ³) | (µg/m ³) | ID no. |
| 3-Sep-21 | 9:00 | Sunny | 302.4 | 3.5265 | 3.5282 | 0.0017 | 12446.8 | 12447.8 | 1.0 | 1.23 | 1.23 | 1.23 | 73.6 | 23.1 | 210901/062 |
| 3-Sep-21 | 10:00 | Sunny | 301.7 | 3.5205 | 3.5221 | 0.0016 | 12447.8 | 12448.8 | 1.0 | 1.23 | 1.23 | 1.23 | 73.7 | 21.7 | 210901/061 |
| 3-Sep-21 | 11:00 | Sunny | 302.1 | 3.5346 | 3.5357 | 0.0011 | 12448.8 | 12449.8 | 1.0 | 1.23 | 1.23 | 1.23 | 73.6 | 14.9 | 210901/060 |
| 9-Sep-21 | 13:00 | Sunny | 304.7 | 3.4990 | 3.5060 | 0.0070 | 12473.8 | 12474.8 | 1.0 | 1.22 | 1.22 | 1.22 | 73.3 | 95.5 | 210901/081 |
| 9-Sep-21 | 14:00 | Sunny | 305.0 | 3.5389 | 3.5456 | 0.0067 | 12474.8 | 12475.8 | 1.0 | 1.22 | 1.22 | 1.22 | 73.3 | 91.5 | 210901/082 |
| 9-Sep-21 | 15:00 | Sunny | 305.0 | 3.5197 | 3.5295 | 0.0098 | 12475.8 | 12476.8 | 1.0 | 1.22 | 1.22 | 1.22 | 73.2 | 133.8 | 210901/083 |
| 15-Sep-21 | 8:58 | Sunny | 303.4 | 3.4914 | 3.4968 | 0.0054 | 12500.8 | 12501.8 | 1.0 | 1.23 | 1.23 | 1.23 | 73.6 | 73.4 | 211001/012 |
| 15-Sep-21 | 9:58 | Sunny | 304.3 | 3.4582 | 3.4612 | 0.0030 | 12501.8 | 12502.8 | 1.0 | 1.23 | 1.22 | 1.22 | 73.5 | 40.8 | 211001/011 |
| 15-Sep-21 | 10:58 | Sunny | 304.9 | 3.4799 | 3.4850 | 0.0051 | 12502.8 | 12503.8 | 1.0 | 1.22 | 1.22 | 1.22 | 73.4 | 69.5 | 211001/013 |
| 20-Sep-21 | 9:00 | Cloudy | 302.7 | 3.5000 | 3.5014 | 0.0014 | 12527.8 | 12528.8 | 1.0 | 1.23 | 1.23 | 1.23 | 73.7 | 19.0 | 211001/030 |
| 20-Sep-21 | 10:00 | Cloudy | 302.4 | 3.4837 | 3.4867 | 0.0030 | 12528.8 | 12529.8 | 1.0 | 1.23 | 1.23 | 1.23 | 73.7 | 40.7 | 211001/028 |
| 20-Sep-21 | 11:00 | Cloudy | 303.5 | 3.5005 | 3.5017 | 0.0012 | 12529.8 | 12530.8 | 1.0 | 1.23 | 1.22 | 1.23 | 73.6 | 16.3 | 211001/031 |
| 24-Sep-21 | 13:00 | Sunny | 303.3 | 3.5413 | 3.5427 | 0.0014 | 12554.8 | 12555.8 | 1.0 | 1.23 | 1.23 | 1.23 | 73.6 | 19.0 | 211001/044 |
| 24-Sep-21 | 14:00 | Sunny | 303.5 | 3.5101 | 3.5129 | 0.0028 | 12555.8 | 12556.8 | 1.0 | 1.23 | 1.23 | 1.23 | 73.6 | 38.0 | 211001/045 |
| 24-Sep-21 | 15:00 | Sunny | 303.6 | 3.5091 | 3.5112 | 0.0021 | 12556.8 | 12557.8 | 1.0 | 1.23 | 1.23 | 1.23 | 73.6 | 28.5 | 211001/046 |
| 29-Sep-21 | 13:00 | Sunny | 302.5 | 3.5043 | 3.5087 | 0.0044 | 12581.8 | 12582.8 | 1.0 | 1.23 | 1.23 | 1.23 | 73.6 | 59.8 | 211001/063 |
| 29-Sep-21 | 14:00 | Sunny | 303.2 | 3.5159 | 3.5203 | 0.0044 | 12582.8 | 12583.8 | 1.0 | 1.23 | 1.22 | 1.23 | 73.5 | 59.9 | 211001/064 |
| 29-Sep-21 | 15:00 | Sunny | 303.8 | 3.5008 | 3.5038 | 0.0030 | 12583.8 | 12584.8 | 1.0 | 1.22 | 1.22 | 1.22 | 73.4 | 40.9 | 211001/065 |
| | | | | | | | | | | | | | Min | 15 | |

| Min | 15 |
|---------|-----|
| Max | 134 |
| Average | 49 |
| | |

| Appendix D - 1-hour | ' TSP | Monitoring | Results |
|---------------------|-------|------------|---------|
|---------------------|-------|------------|---------|

| Location AM7 - | North West | Kowloon Sewage | Pumping Station |
|----------------|------------|----------------|------------------------------------|
| Date | Time | Weather | Particulate Concentration (µg/m³) |
| 3-Sep-21 | 9:00 | Sunny | 59.2 |
| 3-Sep-21 | 10:00 | Sunny | 40.1 |
| 3-Sep-21 | 11:00 | Sunny | 12.6 |
| 9-Sep-21 | 13:00 | Sunny | 44.9 |
| 9-Sep-21 | 14:00 | Sunny | 45.5 |
| 9-Sep-21 | 15:00 | Sunny | 43.3 |
| 15-Sep-21 | 8:48 | Sunny | 61.0 |
| 15-Sep-21 | 9:48 | Sunny | 58.1 |
| 15-Sep-21 | 10:48 | Sunny | 43.0 |
| 20-Sep-21 | 8:57 | Cloudy | 57.8 |
| 20-Sep-21 | 9:57 | Cloudy | 49.9 |
| 20-Sep-21 | 10:57 | Cloudy | 55.4 |
| 24-Sep-21 | 13:00 | Sunny | 64.9 |
| 24-Sep-21 | 14:00 | Sunny | 53.4 |
| 24-Sep-21 | 15:00 | Sunny | 56.6 |
| 29-Sep-21 | 13:35 | Sunny | 46.1 |
| 29-Sep-21 | 14:35 | Sunny | 54.7 |
| 29-Sep-21 | 15:35 | Sunny | 44.2 |
| | | Minimum | 12.6 |
| | | Maximum | 64.9 |
| | | Average | 49.5 |

| Location AM8 - | Block A of C | Government Dock | yard |
|----------------|--------------|-----------------|------------------------------------|
| Date | Time | Weather | Particulate Concentration (µg/m3) |
| 3-Sep-21 | 13:00 | Sunny | 19.2 |
| 3-Sep-21 | 14:00 | Sunny | 15.7 |
| 3-Sep-21 | 15:00 | Sunny | 12.9 |
| 9-Sep-21 | 13:30 | Sunny | 45.3 |
| 9-Sep-21 | 14:30 | Sunny | 56.4 |
| 9-Sep-21 | 15:30 | Sunny | 44.6 |
| 15-Sep-21 | 8:56 | Sunny | 67.1 |
| 15-Sep-21 | 9:56 | Sunny | 63.8 |
| 15-Sep-21 | 10:56 | Sunny | 50.0 |
| 20-Sep-21 | 13:00 | Cloudy | 23.8 |
| 20-Sep-21 | 14:00 | Cloudy | 23.1 |
| 20-Sep-21 | 15:00 | Cloudy | 27.2 |
| 24-Sep-21 | 13:00 | Sunny | 105.2 |
| 24-Sep-21 | 14:00 | Sunny | 32.8 |
| 24-Sep-21 | 15:00 | Sunny | 26.4 |
| 29-Sep-21 | 13:00 | Sunny | 45.4 |
| 29-Sep-21 | 14:00 | Sunny | 57.1 |
| 29-Sep-21 | 15:00 | Sunny | 44.7 |
| | | Minimum | 12.9 |
| | | Maximum | 105.2 |
| | | Average | 42.3 |

Appendix D - 24-hour TSP Monitoring Results

Location AM6b - Works Site Boundary

| Start Date | Weather | Air | Filter W | eight (g) | Particulate | Elapse | e Time | Sampling | Flow Rate | e (m ³ /min.) | Av. flow | Total vol. | Conc. | Filter |
|------------|-----------|-----------|----------|-----------|-------------|---------|---------|------------|-----------|--------------------------|-----------------------|-------------------|---------|------------|
| Start Date | Condition | Temp. (K) | Initial | Final | weight (g) | Initial | Final | Time(hrs.) | Initial | Final | (m ³ /min) | (m ³) | (µg/m³) | ID no. |
| 2-Sep-21 | Sunny | 302.7 | 3.5012 | 3.6030 | 0.1018 | 12422.8 | 12446.8 | 24.0 | 1.23 | 1.23 | 1.23 | 1765.7 | 57.7 | 210901/045 |
| 8-Sep-21 | Sunny | 303.4 | 3.5024 | 3.6231 | 0.1207 | 12449.8 | 12473.8 | 24.0 | 1.23 | 1.22 | 1.23 | 1764.1 | 68.4 | 210901/063 |
| 14-Sep-21 | Sunny | 302.9 | 3.5003 | 3.5740 | 0.0737 | 12476.8 | 12500.8 | 24.0 | 1.23 | 1.23 | 1.23 | 1767.7 | 41.7 | 210901/080 |
| 17-Sep-21 | Cloudy | 302.5 | 3.4793 | 3.5892 | 0.1099 | 12503.8 | 12527.8 | 24.0 | 1.23 | 1.23 | 1.23 | 1768.1 | 62.2 | 211001/014 |
| 23-Sep-21 | Sunny | 302.1 | 3.4883 | 3.6261 | 0.1378 | 12530.8 | 12554.8 | 24.0 | 1.23 | 1.23 | 1.23 | 1771.5 | 77.8 | 211001/032 |
| 28-Sep-21 | Sunny | 302.2 | 3.5145 | 3.6301 | 0.1156 | 12557.8 | 12581.8 | 24.0 | 1.23 | 1.23 | 1.23 | 1768.5 | 65.4 | 211001/047 |
| | | | | | | | | | | | | Min | 42 | |
| | | | | | | | | | | | | Max | 78 | |

Average 62

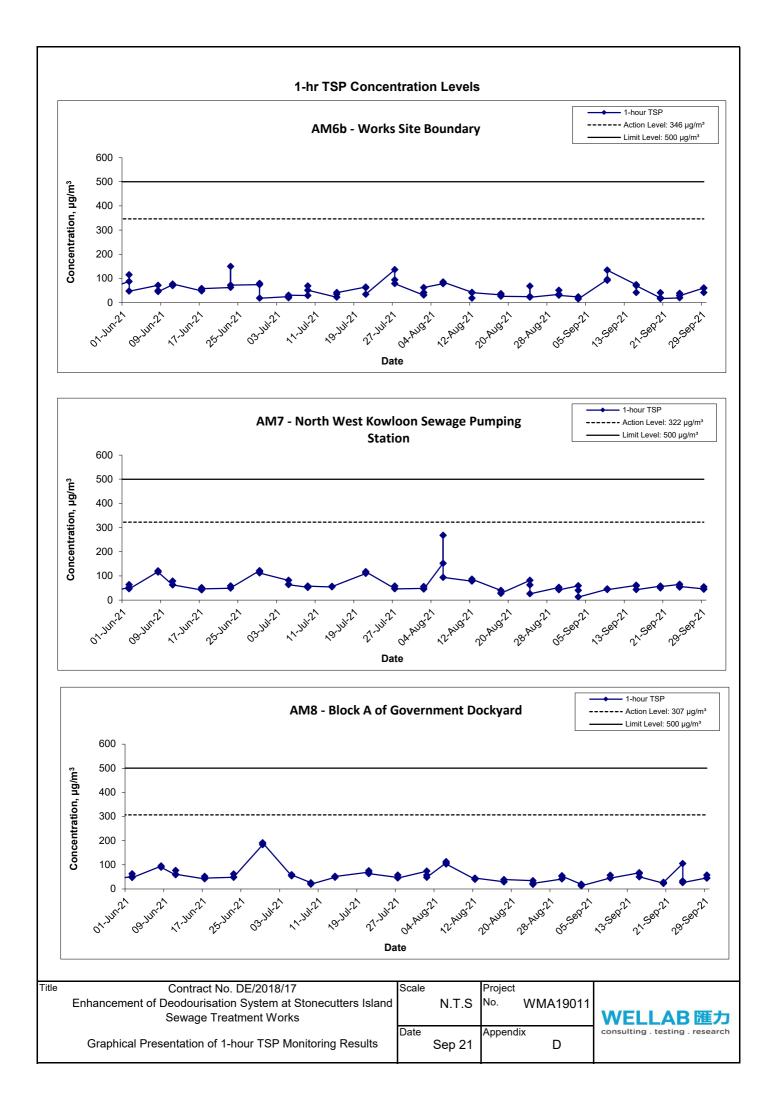
Location AM7 - North West Kowloon Sewage Pumping Station

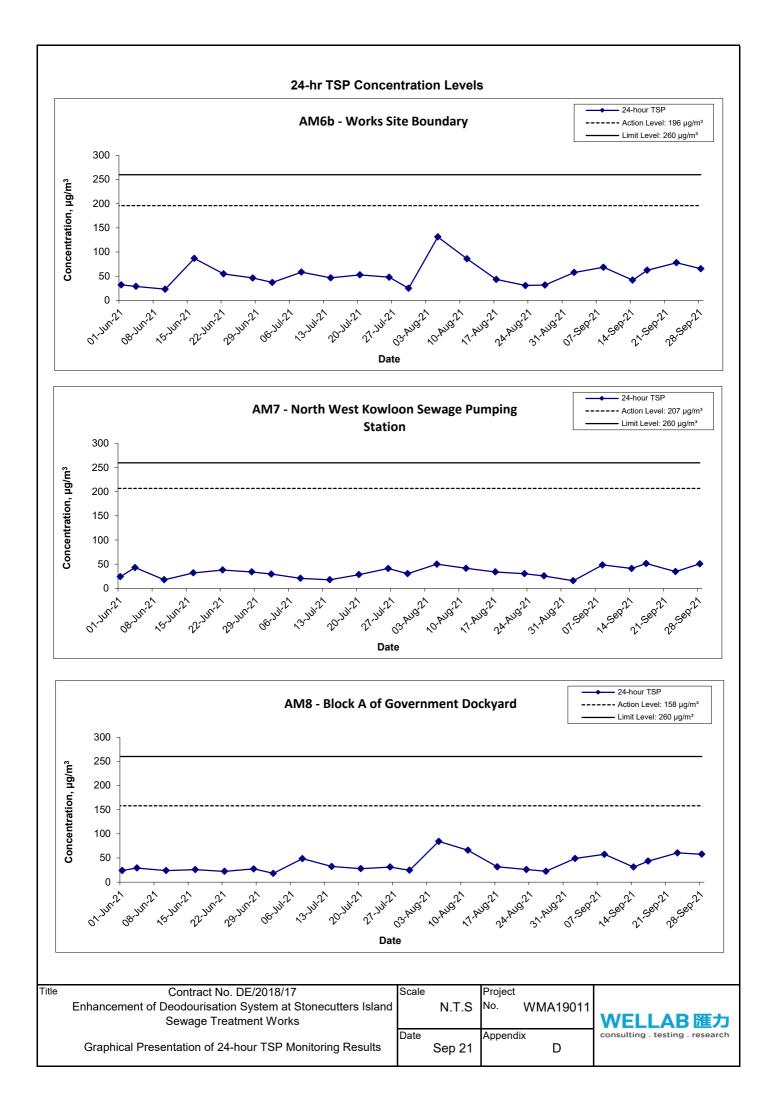
| Start Date | Weather | Air | Filter W | eight (g) | Particulate | Elapse | e Time | Sampling | Flow Rate | e (m ³ /min.) | Av. flow | Total vol. | Conc. | Filter |
|------------|-----------|-----------|----------|-----------|-------------|---------|---------|------------|-----------|--------------------------|-----------------------|-------------------|---------|------------|
| Start Date | Condition | Temp. (K) | Initial | Final | weight (g) | Initial | Final | Time(hrs.) | Initial | Final | (m ³ /min) | (m ³) | (µg/m³) | ID no. |
| 2-Sep-21 | Sunny | 302.7 | 3.4965 | 3.5246 | 0.0281 | 41550.4 | 41574.4 | 24.0 | 1.23 | 1.23 | 1.23 | 1768.2 | 15.9 | 210901/042 |
| 8-Sep-21 | Sunny | 303.4 | 3.4922 | 3.5775 | 0.0853 | 41574.4 | 41598.4 | 24.0 | 1.23 | 1.23 | 1.23 | 1766.5 | 48.3 | 210901/065 |
| 14-Sep-21 | Sunny | 302.9 | 3.4741 | 3.5469 | 0.0728 | 41598.4 | 41622.4 | 24.0 | 1.23 | 1.23 | 1.23 | 1770.2 | 41.1 | 210901/078 |
| 17-Sep-21 | Cloudy | 302.5 | 3.4903 | 3.5811 | 0.0908 | 41622.4 | 41646.4 | 24.0 | 1.23 | 1.23 | 1.23 | 1770.6 | 51.3 | 211001/015 |
| 23-Sep-21 | Sunny | 302.1 | 3.4832 | 3.5451 | 0.0619 | 41646.4 | 41670.4 | 24.0 | 1.23 | 1.23 | 1.23 | 1774.1 | 34.9 | 211001/029 |
| 28-Sep-21 | Sunny | 302.2 | 3.5116 | 3.6012 | 0.0896 | 41670.4 | 41694.4 | 24.0 | 1.23 | 1.23 | 1.23 | 1771.0 | 50.6 | 211001/048 |
| | | | | | - | - | | | | | - | Min | 16 | |
| | | | | | | | | | | | | Max | 51 | |
| | | | | | | | | | | | | Average | 40 | |

Location AM8 - Block A of Government Dockyard

| Start Date | Weather | Air | Filter W | eight (g) | Particulate | Elapse | e Time | Sampling | Flow Rate | e (m ³ /min.) | Av. flow | Total vol. | Conc. | Filter |
|------------|-----------|-----------|----------|-----------|-------------|---------|---------|------------|-----------|--------------------------|-----------------------|-------------------|----------------------|------------|
| Start Date | Condition | Temp. (K) | Initial | Final | weight (g) | Initial | Final | Time(hrs.) | Initial | Final | (m ³ /min) | (m ³) | (µg/m ³) | ID no. |
| 2-Sep-21 | Sunny | 302.7 | 3.5210 | 3.6072 | 0.0862 | 14484.2 | 14508.2 | 24.0 | 1.23 | 1.22 | 1.22 | 1763.6 | 48.9 | 210901/046 |
| 8-Sep-21 | Sunny | 303.4 | 3.5320 | 3.6333 | 0.1013 | 14508.2 | 14532.2 | 24.0 | 1.22 | 1.22 | 1.22 | 1761.9 | 57.5 | 210901/064 |
| 14-Sep-21 | Sunny | 302.9 | 3.4925 | 3.5475 | 0.0550 | 14532.2 | 14556.2 | 24.0 | 1.23 | 1.23 | 1.23 | 1765.6 | 31.2 | 210901/079 |
| 17-Sep-21 | Cloudy | 302.5 | 3.5223 | 3.5990 | 0.0767 | 14556.2 | 14580.2 | 24.0 | 1.23 | 1.23 | 1.23 | 1765.9 | 43.4 | 211001/016 |
| 23-Sep-21 | Sunny | 302.1 | 3.5026 | 3.6096 | 0.1070 | 14580.2 | 14604.2 | 24.0 | 1.23 | 1.23 | 1.23 | 1769.3 | 60.5 | 211001/033 |
| 28-Sep-21 | Sunny | 302.2 | 3.4984 | 3.6002 | 0.1018 | 14604.2 | 14628.2 | 24.0 | 1.23 | 1.23 | 1.23 | 1766.3 | 57.6 | 211001/049 |
| | | | | | | | | | | | | Min | 31 | |
| | | | | | | | | | | | | Max | 60 | 1 |
| | | | | | | | | | | | | Auguana | F0 | 4 |

Average 50





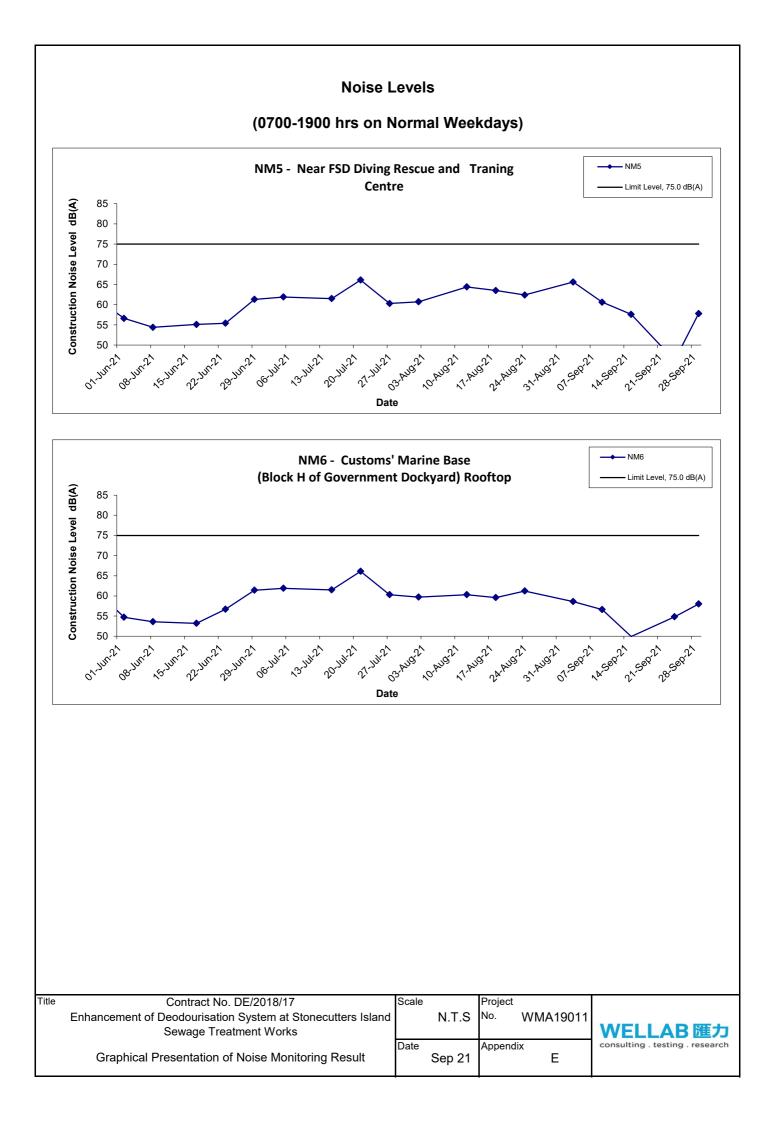
APPENDIX E NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix E - Noise Monitoring Results

| Location NM5 | Location NM5 - Near FSD Diving Rescue and Training Centre | | | | | | | | | |
|--------------|---|---------|-----------------|---------------------------------|-----------------|--|--|--|--|--|
| Date | Time | Weather | | :: dB (A) (30- sured Noise I | / | | | | | |
| | | | L _{eq} | L ₁₀ | L ₉₀ | | | | | |
| 3-Sep-21 | 13:55 | Sunny | 65.6 | 67.9 | 63.2 | | | | | |
| 9-Sep-21 | 14:30 | Sunny | 60.6 | 65.1 | 57.6 | | | | | |
| 15-Sep-21 | 09:34 | Sunny | 57.6 | 59.3 | 54.5 | | | | | |
| 24-Sep-21 | 13:40 | Sunny | 46.2 | 47.6 | 43.8 | | | | | |
| 29-Sep-21 | 13:45 | Sunny | 57.8 | 59.0 | 50.2 | | | | | |
| | | Maximum | 65.6 | | | | | | | |
| | | Minimum | 46.2 | | | | | | | |

(0700-1900 hrs on Normal Weekdays)

| Location NM6 - Customs' Marine Base (Block H of Government Dockyard) Rooftop | | | | | | | | |
|---|-------|---------|-----------------|-----------------|-----------------|--|--|--|
| Date Time Weather Measured Noise Level | | | | | | | | |
| Date | Time | Weather | Meas | surea Noise I | Levei | | | |
| | | | L _{eq} | L ₁₀ | L ₉₀ | | | |
| 3-Sep-21 | 15:03 | Sunny | 58.6 | 59.0 | 57.8 | | | |
| 9-Sep-21 | 13:15 | Sunny | 56.6 | 58.1 | 55.2 | | | |
| 15-Sep-21 | 10:30 | Sunny | 49.9 | 52.0 | 48.5 | | | |
| 24-Sep-21 | 13:30 | Sunny | 54.8 | 56.3 | 49.4 | | | |
| 29-Sep-21 | 15:00 | Sunny | 58.0 | 59.7 | 51.2 | | | |
| | | Maximum | 58.6 | | | | | |
| | | Minimum | 49.9 | | | | | |



APPENDIX F SUMMARY OF EXCEEDANCE

APPENDIX F – SUMMARY OF EXCEEDANCE

Reporting Month: September 2021

- a) Exceedance Report for 1-hr TSP (NIL)
- b) Exceedance Report for 24-hr TSP (NIL)
- c) Exceedance Report for Construction Noise (NIL)

APPENDIX G SITE AUDIT SUMMARY

Record Summary of Environmental Site Inspection

| Checklist Reference Number | 210902 | |
|----------------------------|-----------------------|--|
| Date | 2 Sep 2021 (Thursday) | |
| Time | 09:30 - 11:00 | |

| Ref. No. | Non-Compliance | Related Item No. |
|----------|---|-------------------------|
| - | None identified | - |
| Ref. No. | Remarks/Observations | Related Item No. |
| | Part A - Water Quality | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part B – Landscape and Visual | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part C - Air Quality | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part D – Noise | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part E – Waste / Chemical Management | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part F - Permit / Licence | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Others | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Remark: | |
| | • Follow-up on previous audit session: | |
| | On previous audit session (Ref. No.: 210825), no environmental deficiency | |
| | was observed during site inspection. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|------------|
| Recorded by | Antony Leung | gi | 3 Sep 2021 |
| Checked by | Dr. Priscilla Choy | WI | 3 Sep 2021 |

Enhancement of Deodourisation System at SCISTW

Record Summary of Environmental Site Inspection

| Checklist Reference Number | 210909 | |
|----------------------------|-----------------------|--|
| Date | 9 Sep 2021 (Thursday) | |
| Time | 09:30 - 11:00 | |

| Ref. No. | Non-Compliance | Related Item No. |
|------------|--|------------------|
| - | None identified | - |
| Ref. No. | Remarks/Observations | Related Item No. |
| | Part A - Water Quality | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part B – Landscape and Visual | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part C - Air Quality | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part D – Noise | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part E – Waste / Chemical Management | |
| 210909-R01 | • Contractor was reminded to dispose general refuse regularly. | A 19 &E 1iii |
| | Part F - Permit / Licence | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Others | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Remark: | |
| | • Follow-up on previous audit session: | |
| | On previous audit session (Ref. No.: 210902), no environmental deficiency was observed during site inspection. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|-------------|
| Recorded by | Antony Leung | wit | 10 Sep 2021 |
| Checked by | Dr. Priscilla Choy | WI | 10 Sep 2021 |

Record Summary of Environmental Site Inspection

| Checklist Reference Number | 210915 | |
|----------------------------|-------------------------|--|
| Date | 15 Sep 2021 (Wednesday) | |
| Time | 14:00 - 15:00 | |

| Ref. No. | Non-Compliance | Related Item No. |
|------------|--|------------------|
| - | None identified | - |
| Ref. No. | Remarks/Observations | Related Item No. |
| | Part A - Water Quality | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part B – Landscape and Visual | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part C - Air Quality | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part D – Noise | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part E – Waste / Chemical Management | |
| 210915-R01 | • Contractor was reminded to dispose general refuse regularly. | A 19 &E 1iii |
| | Part F - Permit / Licence | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Others | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Remark: | |
| | • Follow-up on previous audit session: | |
| | On previous audit session (Ref. No.: 210909), item 210909-R01 was remarked as 210915-R01. Follow-up action is needed to be reviewed. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|-------------|
| Recorded by | Antony Leung | Gr | 16 Sep 2021 |
| Checked by | Dr. Priscilla Choy | nI | 16 Sep 2021 |

Record Summary of Environmental Site Inspection

| Checklist Reference Number | 210923 | |
|----------------------------|------------------------|--|
| Date | 23 Sep 2021 (Thursday) | |
| Time | 9:30 - 10:30 | |

| Ref. No. | Non-Compliance | Related Item No. |
|------------|--|-------------------------|
| - | None identified | - 1 |
| Ref. No. | Remarks/Observations | Related Item No. |
| | Part A - Water Quality | |
| 210923-R01 | Contractor was reminded to dispose general refuse regularly. | A 19 |
| 210923-R02 | • To provide drip tray for storage of chemicals. | A 17 |
| | Part B – Landscape and Visual | |
| 210923-R03 | • To set up protection zone for retained plants. | B 1 & 2 |
| | Part C - Air Quality | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part D – Noise | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part E – Waste / Chemical Management | |
| 210923-R01 | • Contractor was reminded to dispose general refuse regularly. | E 1iii |
| 210923-R02 | • To provide drip tray for storage of chemicals. | E 7i & 7ii |
| | Part F - Permit / Licence | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Others | |
| | • No environmental deficiency was identified during the site inspection. | \sim |
| | Remark: | |
| | • Follow-up on previous audit session: | |
| | On previous audit session (Ref. No.: 210915), item 210915-R01 was | |
| | remarked as 210923-R01. Follow-up action is needed to be reviewed. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|-------------|
| Recorded by | Adrian Lam | A | 24 Sep 2021 |
| Checked by | Dr. Priscilla Choy | NI | 24 Sep 2021 |

Enhancement of Deodourisation System at SCISTW

Record Summary of Environmental Site Inspection

| Checklist Reference Number | 210930 |
|----------------------------|------------------------|
| Date | 30 Sep 2021 (Thursday) |
| Time | 15:00-16:00 |

| Ref. No. | Non-Compliance | Related Item No. |
|------------|--|-------------------------|
| - | None identified | - |
| Ref. No. | Remarks/Observations | Related Item No. |
| | Part A - Water Quality | |
| 210930-R01 | • Contractor was reminded to dispose general refuse regularly. | A 19 & E 1iii |
| 210930-R02 | • To empty drip tray regularly to avoid leakage. | A 17, E 7i & 7ii |
| | | |
| | Part B – Landscape and Visual | |
| 210930-R03 | Contractor was reminded to fence off retained plants. | B1&2 |
| | Part C - Air Quality | |
| | No environmental deficiency was identified during the site inspection. | |
| | • No environmental denotency was identified during the site inspection. | |
| | Part D – Noise | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Part E – Waste / Chemical Management | |
| 210930-R01 | • Contractor was reminded to dispose general refuse regularly. | E 1iii |
| 210930-R02 | • To empty drip tray regularly to avoid leakage. | E 7i & 7ii |
| | | |
| | Part F - Permit / Licence | |
| | • No environmental deficiency was identified during the site inspection. | |
| | Others | |
| | No environmental deficiency was identified during the site inspection. | |
| | | |
| | Remark: | |
| | • Follow-up on previous audit session: | |
| | On previous audit session (Ref. No.: 210923), item 210923-R03 was remarked as 210930-R03. Follow-up action is needed to be reviewed. | |
| L | Tomarked as 210750-K05. Tomow-up action is needed to be reviewed. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|------------|
| Recorded by | CY Ip | Jo | 4 Oct 2021 |
| Checked by | Dr. Priscilla Choy | NF | 4 Oct 2021 |

APPENDIX H SUMMARY OF AMOUNT OF WASTE GENERATED Name of Department:

DSD

Contract No. :

DE/2018/17

| | | Actual Quantities of | inert C&D Mate | erials Generated | d Monthly | | Actu | ual Quantities of C | C&D Materials | Generated M | onthly |
|---|--------------------------|--------------------------|--------------------------|------------------|--------------------------|--------------------------|-------------|---------------------|---------------|-------------|--------------------------|
| Month | Total Quantity | Hard Rock and Large | Reused in the | Reused in | Disposed as | Imported | Metals | Paper/ | Plastics | Chemical | Other, e.g. |
| Month | Generated | Broken Concrete | Contract | other Projects | Public Fill | Fill | | cardboard | (see Note 3) | Waste | 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 '000m ³) |
| Jan | 0.200 | 0.000 | 0.000 | 0.000 | 0.200 | 0.000 | 0.000 | 1.332 | 0.000 | 0.000 | 0.007 |
| Feb | 0.179 | 0.000 | 0.000 | 0.000 | 0.179 | 0.000 | 0.000 | 3.083 | 0.000 | 0.000 | 0.007 |
| Mar | 0.170 | 0.000 | 0.000 | 0.000 | 0.170 | 0.000 | 0.000 | 3.614 | 0.000 | 0.000 | 0.004 |
| Apr | 0.085 | 0.000 | 0.000 | 0.000 | 0.085 | 0.000 | 0.000 | 2.022 | 0.000 | 0.000 | 0.008 |
| May | 0.070 | 0.000 | 0.000 | 0.000 | 0.070 | 0.000 | 0.000 | 1.456 | 0.000 | 0.000 | 0.002 |
| June | 0.052 | 0.000 | 0.000 | 0.000 | 0.052 | 0.000 | 0.000 | 0.695 | 0.000 | 0.000 | 0.002 |
| Sub-total | 0.755 | 0.000 | 0.000 | 0.000 | 0.755 | 0.000 | 0.000 | 12.202 | 0.000 | 0.000 | 0.030 |
| July | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.008 |
| Aug | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 |
| Sep | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.258 | 0.000 | 0.000 | 0.006 |
| Oct | | | | | | | | | | | |
| Nov | | | | | | | | | | | |
| Dec | | | | | | | | | | | |
| Total | 0.755 | 0.000 | 0.000 | 0.000 | 0.755 | 0.000 | 0.000 | 12.460 | 0.000 | 0.000 | 0.049 |
| Total since commence ment of project | | 0.399 | 0.000 | 0.000 | 4.495 | 0.000 | 12.260 | 19.186 | 0.000 | 0.000 | 0.098 |

Monthly Summary Waste Flow Table for 2021 (year)

Notes: (1) The performance targets are given in PS Clause 25.37(14).

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material

(4) The conversion factor for tonne to m^3 for inert C&D materials is 1.9 tonne/ m^3 .

(5) The conversion factor for tonne to m^3 for general refuse is 1.8 tonne/ m^3 .

APPENDIX I EVENT ACTION PLANS

APPENDIX I – Event / Action Plans

Table I-1 Event / Action Plan for Air Quality

| | ACTION | | | | | |
|--|---|--|---|--|--|--|
| EVENT | ET | IEC | ER | CONTRACTOR | | |
| ACTION LEVEL | · | · | | · | | |
| 1. Exceedance for one sample | Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. | Check monitoring data submitted by ET; Check Contractor's working method. | 1. Notify Contractor. | Rectify any unacceptable practice; Amend working methods if appropriate. | | |
| 2. Exceedance for two or more consecutive samples | Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial action required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring | Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. | Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented | Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate | | |

| | ACTION | | | |
|-------------------|---------------------------------------|-----------------------------------|--------------------------------|------------------------------|
| EVENT | ET | IEC | ER | CONTRACTOR |
| LIMIT LEVEL | · | | · | |
| 1. Exceedance for | 1. Identify source, investigate the | 1. Check monitoring data | 1. Confirm receipt of | 1. Take immediate action to |
| one sample | causes of exceedance and propose | submitted by ET; | notification of failure in | avoid further exceedance; |
| | remedial measures; | 2. Check Contractor's working | writing; | 2. Submit proposals for |
| | 2. Inform ER, Contractor and EPD; | method; | 2. Notify Contractor; | remedial actions to IEC |
| | 3. Repeat measurement to confirm | 3. Discuss with ET and Contractor | 3. Ensure remedial measures | within 3 working days of |
| | finding; | on possible remedial measures; | properly implemented | notification; |
| | 4. Increase monitoring frequency to | 4. Advise the ER on the | | 3. Implement the agreed |
| | daily; | effectiveness of the proposed | | proposals; |
| | 5. Assess effectiveness of | remedial measures; | | 4. Amend proposal if |
| | Contractor's remedial actions and | 5. Supervise implementation of | | appropriate |
| | keep IEC, EPD and ER informed of | remedial measures | | |
| | the results. | | | |
| | | | | |
| | | | | |
| 2. Exceedance for | 1. Notify IEC, ER, Contractor and | 1. Check monitoring data | 1. Confirm receipt of | 1. Take immediate action to |
| two or more | EPD; | submitted by ET; | notification of failure in | avoid further exceedance; |
| consecutive | 2. Identify source; | 2. Check Contractor's working | writing; | 2. Submit proposals for |
| samples | 3. Repeat measurement to confirm | method; | 2. Notify Contractor; | remedial actions |
| | findings; | 3. Discuss amongst ER, ET, and | 3. In consolidation with the | to IEC within 3 working days |
| | 4. Increase monitoring frequency to | Contractor on the potential | IEC, agree with the Contractor | of notification; |
| | daily; | remedial actions; | on the remedial measures to | 3. Implement the agreed |
| | 5. Carry out analysis of Contractor's | 4. Review Contractor's remedial | be implemented; | proposals; |
| | working procedures to determine | actions whenever necessary to | 4. Ensure remedial measures | 4. Resubmit proposals if |
| | possible mitigation to be | assure their effectiveness and | properly implemented; | problem still not under |

| ACTION | | | | | |
|--------|------------------------------------|------------------------------------|---------------------------------|---------------------------------|--|
| EVENT | ET | IEC | ER | CONTRACTOR | |
| | implemented; | advise the ER accordingly; | 5. If exceedance continues, | control; | |
| | 6. Arrange meeting with IEC and | 5. Supervise the implementation of | consider what portion of the | 5. Stop the relevant portion of | |
| | ER to discuss the remedial actions | remedial measures. | work is responsible and | works as determined by the | |
| | to be taken; | | instruct the Contractor to stop | ER until the exceedance is | |
| | 7. Assess effectiveness of | | that portion of work until the | abated | |
| | Contractor's remedial actions and | | exceedance is abated. | | |
| | keep IEC, EPD and ER informed of | | | | |
| | the results; | | | | |
| | 8. If exceedance stops, cease | | | | |
| | additional monitoring | | | | |

Table I-2 Event / Action Plan for Construction Noise

| | ACTION | | | |
|--------------|---|-------------------------------|-------------------------------------|--------------------------------|
| EVENT | ET | IEC | ER | CONTRACTOR |
| Action Level | 1. Notify ER, IEC and Contractor; | 1. Review the investigation | 1. Confirm receipt of | 1. Submit noise mitigation |
| being | 2. Carry out investigation; | results submitted by the ET; | notification of failure in writing; | proposals to IEC and ER; |
| exceeded | 3. Report the results of investigation to | 2. Review the proposed | 2. Notify Contractor; | 2. Implement noise mitigation |
| | the IEC, ER and Contractor; | remedial measures by the | 3. In consolidation with the IEC, | proposals |
| | 4. Discuss with the IEC and | Contractor and advise the ER | agree with the Contractor on the | |
| | Contractor on remedial measures | accordingly; | remedial measures to be | |
| | required; | 3. Advise the ER on the | implemented; | |
| | 5. Increase monitoring frequency to | effectiveness of the proposed | 4. Supervise the implementation of | |
| | check mitigation effectiveness | remedial measures | remedial measures | |
| Limit Level | 1. Inform IEC, ER, Contractor and | 1. Discuss amongst ER, ET, | 1. Confirm receipt of | 1. Take immediate action to |
| being | EPD; | and | notification of failure in writing; | avoid further exceedance; |
| exceeded | 2. Repeat measurements to confirm | Contractor on the potential | 2. Notify Contractor; | 2. Submit proposals for |
| | findings; | remedial actions; | 3. In consolidation with the | remedial actions to IEC and |
| | 3. Increase monitoring frequency; | 2. Review Contractor's | IEC, agree with the Contractor on | ER within 3 working days |
| | 4. Identify source and investigate the | remedial action whenever | the remedial measures to be | of notification; |
| | cause of exceedance; | necessary to assure their | implemented; | 3. Implement the agreed |
| | 5. Carry out analysis of Contractor's | effectiveness and advise the | 4. Supervise the implementation of | proposals; |
| | working procedures; | ER accordingly | remedial measures; | 4. Submit further proposal if |
| | 6. Discuss with the IEC, Contractor | | 5. If exceedance continues, | problem still not under |
| | and ER on remedial measures | | consider stopping the Contractor to | control; |
| | required; | | continue working on that portion of | 5. Stop the relevant portion |
| | 7. Assess effectiveness of Contractor's | | work which causes the exceedance | of works as instructed by |
| | remedial actions and keep IEC, EPD | | until the exceedance is abated | the ER until the exceedance is |
| | and ER informed of the results; | | | abated |
| | 8. If exceedance stops, cease | | | |
| | additional monitoring | | | |

APPENDIX J ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

APPENDIX J IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES (EMIS)

| EIA | Recommended Mitigation Measures | Location of the measure | Implementation Status |
|------|--|-------------------------|-----------------------|
| Ref. | | | |
| | | | |
| Α | Air Quality | | |
| 3.74 | Skip hoist for material transport should be totally enclosed by impervious sheeting. | All construction sites | ^ |
| | Vehicle washing facilities should be provided at every vehicle exit point. | | Λ |
| | The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcore. | | ^ |
| | Where a site boundary adjoins a road, streets or other areas accessible to the public, oarding of not less than 2.4 m high from ground level should be provided along the entire ength except for a site entrance or exit. | | N/A |
| | Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather. | | Λ |
| | Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines. | | ^ |
| | Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. | | ^ |
| | Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. | | ^ |
| | Imposition of speed controls for vehicles on unpaved site roads. Ten kilometers per hour is the recommended limit. | | ^ |
| | Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the 3 sides. | | ^ |
| | Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites. | | ^ |
| 3.74 | Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise. | All construction sites | ^ |

| EIA | Recommended Mitigation Measures | Location of the measure | Implementation Status |
|-------------------|--|-------------------------|-----------------------|
| Ref. | | | |
| | | | |
| В | Airborne Noise | | |
| 4.56- | Use of quiet PME, movable barriers and acoustic mats. | All construction sites | ٨ |
| 4.61 | | | |
| 4.67 | Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. | | ^ |
| | Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. | | ^ |
| | Mobile plant, if any, shall be sited as far away from NSRs as possible. | | ٨ |
| | Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. | | ^ |
| 4.67 | Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. | | ^ |
| | Material stockpiles and other structures shall be effectively utilized, wherever practicable, | | ٨ |
| C | in screening noise from on-site construction activities. Water Quality | | |
| | Construction Site Runoff and General Construction Activities | | |
| 6.349 to 6.375 | The mitigation measures as outlined in the ProPECC PN 1/94 Construction Site Drainage should be adopted where applicable. | All construction sites | ^ |
| 6.376 | Effluent Discharge There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license which is under the ambit of regional office (RO) of EPD. Minimum distances of 100 m should be maintained between the discharge points of construction site effluent and the existing saltwater intakes. Accidental Spillage of Chemicals | | ^ |
| | Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) | | |

| EIA | Recommended Mitigation Measures | Location of the measure | Implementation Status |
|-------|--|-------------------------|-----------------------|
| Ref. | | | |
| | | | |
| | Regulation should be observed and complied with for control of chemical wastes. | | |
| 6.378 | Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. | | Λ |
| 6.379 | Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. | | Λ |
| 6.380 | Construction Works in Close Proximity of Storm Drains or Seafront: | All construction sites | ٨ |
| | To minimize the potential water quality impacts from the construction works located at or near any watercourse, the practices outlined below should be adopted where applicable. The use of less or smaller construction plants may be specified to reduce the disturbance to the storm water courses or marine environment. Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works. Stockpiling of construction materials and dusty materials should be covered and located away from any water courses. Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby water receivers. Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable. Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert or sea. | | |

| EIA | Recommended Mitigation Measures | Location of the measure | Implementation Status |
|------|---------------------------------|-------------------------|-----------------------|
| Ref. | | | |
| | | | |

| D | Waste Management | | |
|-------|--|------------------------|---|
| 9.107 | Reusable steel or concrete panel shutters, fencing and hoarding and signboard should be used as a preferred alternative to items made of wood, to minimize wastage of wood. Attention should be paid to WBTC No. 19/2001 - Metallic Site Hoardings and Signboards to reduce the amount of timber used on construction sites. Metallic alternatives to timber are readily available and should be used rather than new timber. Precast concrete units should be adopted wherever feasible to minimize the use of timber formwork. | All construction sites | ٨ |
| 9.109 | All waste materials should be segregated into categories covering: excavated materials suitable for reuse on-site; excavated materials suitable for public filling facilities; remaining C&D waste for landfill; chemical waste; and general refuse for landfill. | All construction sites | ۸ |
| 9.113 | Sort C&D waste from demolition of existing facilities to recover recyclable portions such as metals. | | ٨ |
| | Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. | | ^ |
| | Encourage collection of aluminum cans, PET bottles and paper by providing separate labeled bins to enable these wastes to be segregated from other general refuse generated by the work force. | | ^ |
| | Any unused chemicals or those with remaining functional capacity shall be recycled. | | ^ |
| | Proper storage and site practices to minimize the potential for damage or contamination of construction materials. | | ^ |
| 9.115 | Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. | | ۸ |
| | Training of site personnel in proper waste management and chemical waste handling procedures. | | ^ |
| 9.115 | Develop and provide toolbox talk for on-site sorting of C&D materials to enhance worker's awareness in handling, sorting, reuse and recycling of C&D materials. | | ^ |
| | Provision of sufficient waste disposal points and regular collection of waste. | | # |
| | Regular cleaning and maintenance programme for drainage systems, sumps and oil | | ^ |

| EIA | Recommended Mitigation Measures | Location of the measure | Implementation Status |
|-------|--|-------------------------|-----------------------|
| Ref. | | | |
| | | | |
| | interceptors. | | |
| 9.125 | Bentonite slurries used in diaphragm wall construction should be reconditioned and reused wherever practicable. The disposal of residual used bentonite slurry should follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage". | All construction sites | Λ |
| 9.131 | Adequate number of portable toilets at temporary works areas or the PTWs to ensure that sewage from site staff would be properly collected. | | ٨ |
| 9.133 | General refuse should be stored in enclosed bins, skips or compaction units separating from C&D material and disposed of at designated landfill. | | ٨ |
| 9.135 | The recyclable component of the municipal waste generated by the workforce, such as aluminum cans, paper and cleansed plastic containers should be separated from other waste. Provision and collection of recycling bins for different types of recyclable waste should be set up by the Contractor. The Contractor should also be responsible for arranging recycling companies to collect these materials. | | ^ |
| 9.137 | If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the approved Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. | | Λ |
| 9.142 | Prior to excavation of the marine deposit layer, the deposit should be tested in accordance with the ETWB TC(W) No. 34/2002 and the results should be presented in a Preliminary Sediment Quality Report. The marine deposit should be disposed of at the disposal site designated by the Marine Fill Committee (MFC) or Director of Environmental Protection (DEP) depending on the test results. | | N/A |

| EIA | Recommended Mitigation Measures | Location of the measure | Implementation Status |
|------|---------------------------------|-------------------------|-----------------------|
| Ref. | | | |
| | | | |

| Ε | Terrestrial Ecology | | |
|---------------|---|--|-----|
| 10.94 | To implement effective noise mitigation measures as recommended in Section 4 of EIA. | All construction sites | N/A |
| 10.95 | Dust control practices such as regular watering, complete coverage of any aggregate or dusty material storage piles, and re-schedule of dusty activities during high-wind conditions as well as other measures recommended in Section 3 of EIA, should be implemented. | | ^ |
| 10.96 | Fences/hoardings should be erected and installed along the boundary of the works areas. | - | ^ |
| 10.97 | Standard good site practices as suggested in Section 10 of EIA should be implemented. | - | N/A |
| 10.98 | Provision of proper drainage system and runoff control measures such as use of sand/silt traps, oil/grease separators, sedimentation tanks, etc. | | ٨ |
| F | Landscape and Visual | | |
| Table 13.7 | Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical. | All construction sites | ^ |
| | Existing trees to be retained on site should be carefully protected during construction. | | # |
| | Trees unavoidably affected by the works should be transplanted where practical. | | ^ |
| | Compensatory tree planting should be provided to compensate for felled trees. | - | ^ |
| | Control of night-time lighting. | - | ۸ |
| Table | Erection of decorative screen hoarding compatible with the surrounding setting. | All construction sites | N/A |
| 13.7 | | | |
| G | Marine Ecology | | |
| 11.137 | To minimize the potential indirect impacts on water quality from construction site runoff and various construction activities, the practices outlined in ProPECC PN 1/94 Construction Site Drainage should be adopted. | All construction sites | ۸ |
| Н | Hazard to Life | | |
| 14A.201 | Limiting use of cranes in terms of locations, lifting height, swing angle and setting up safety zone. | Exact location will be determined on construction site by the engineer | ۸ |

| Remarks: | Compliance of mitigation measure; |
|----------|---|
| | N/A Not Applicable; |
| | * Recommendation was made during site audit but |
| | improved/rectified by the contractor. |
| | # Recommendation was made during site audit and to be |
| | improved / rectified by the contractor. |
| | X Non-compliance of mitigation measure; |
| | • Non-compliance but rectified by the contractor; |

APPENDIX K COMPLAINT LOG

APPENDIX K – COMPLAINT LOG

Reporting Month: September 2021

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action | Status |
|----------|----------|---------------|----------------------|---------------------------------|--------|
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

Remarks: No environmental complaint was received in the reporting month.

APPENDIX L CONSTRUCTION PROGRAMME

| | Activity Name | Activity % Complete | Total Float | Original Start Duration | Finish | 03 |
|---|--|--|---|--|---|---|
| rks Pro | gramme (Revise Programme_20210810) | | ALC: N. MARKED | State Victoria State | San Galesade | |
| | ure Construction Works | | | | | |
| | f the Works | | | | | |
| EPT tank | | | | | | |
| | I effluent drop shaft Installation of FRP air relief duct for effluent drop structure for PST9-29 (Odd no) | 0% | 54 | 48 07-Dec-20 A | 11-Nov-21 | · · · · · · · · · · · · · · · · · · · |
| | Installation of FRP air relief duct for effluent drop structure for PST31-54 (Odd no) | 70% | 54 | 40 27-Jan-21 A | | |
| - | Delivery of air reflief ducts and support affected by Covid-19 in China at end 2020 | 71.11% | 124 | 90 15-Feb-21 A | | Delivery of air reflief ducts and support affected by Covid-19 in China at end 2020 |
| | Installation of FRP air relief duct for effluent drop structure for PST10-30 (even no) | 50% | 54 | 40 02-Mar-21 A | 24-Nov-21 | |
| A7093_CE | Installation of FRP air relief duct for effluent drop structure for PST32-54 (Even no) | 0% | 48 | 40 23-Mar-21 A | 01-Dec-21 | |
| A7180_CE | Reliability Test of FRP air relief ducts for effluent Drop Structure | 0% | 30 | 55 05-Mar-21 A | 22-Dec-21 | |
| ffluent La | | E4.05% | 00 | 240 00 Oct 10 A | 20 Dec 21 | |
| A7130 | Full scale Installation of Isolation Devices for Effluent Drop Structure Repair of existing concrete surface at CEPT launder (24nos) | 51.25% 99.44% | 26 26 | 240 09-Oct-19 A 180 25-Jan-20 A | | |
| A7130_CE | Installation of isolation devices at the existing CEPT launder (24 Nos) | 45.11% | 26 | 180 25-Jan-20 A | | |
| A7190 | Performance test (smoke Test) of the isolation device for effluent drop structure | 34,44% | 26 | 180 25-Jan-20 A | | |
| and the state of the state | f the Works | | | | | |
| | Submission (DDA) | | | | | 18-Oc |
| 6138 | Approval of DDA Design of Functional Design Specification for DOU Polishing Systems | 65% | 30 | 200 13-Sep-20 A | | Appro |
| 8310 | Approval of DDA Design of network integration with the existing DCS | 70,66% | 125 | 167 16-Oct-20 A | | Approval of DDA Design of network integration with the Re-submission of DDA I/O schedule, cable schedule, cabling routing for DOUs polishing stage |
| 8780 | Re-submission of DDA I/O schedule, cable schedule, cabling routing for DOUs polishing stage | 0% | 143 143 | 3 24-Mar-21 A 3 07-Sep-21 | • | Approval of DDA I/O schedule, cable schedule, cabling routing for DOUs polishing stage |
| 8790 | Approval of DDA I/O schedule, cable schedule, cabling routing for DOUs polishing stage | 0% | 143 | 5 0/-Sep-21 | 03-3ep-21 | 20-Sep-21, Procuement and Delivery of Equipment/ Material for Section |
| ocuement 6310 | and Delivery of Equipment/ Material for Section 2 of Works FAT of PLC and SCADA Systems for DOU Polishing Systems and fiber network equipment | 50% | 67 | 14 11-Apr-21 A | 16-Aug-21 | for DOU Polishing Systems and fiber network equipment |
| 6320 | Delivery of hardware of PLC and SCADA Systems for DOU Polishing Systems and fiber network equipment | 0% | 67 | | 28-Aug-21 | ry of hardware of PLC and SCADA Systems for DOU Polishing Systems and fiber network equipment |
| 6322 | Procurement of DCS for DOU polishing systems | 71.11% | 132 | 90 25-Feb-21 A | 04-Sep-21 | Procurement of DCS for DOU polishing systems |
| 6324 | FAT of DCS for DOU polishing systems | 0% | 132 | 7 05-Sep-21 | 11-Sep-21 | FAT of DCS for DOU p d ishing systems |
| 6326 | Delivery of DCS for DOU polishing systems | 0% | 132 | 9 12-Sep-21 | 20-Sep-21 | Delivery of DCS for DDU polishing systems |
| - | Procurement of kiosks of fluorescent type sensor (SS316) | 49.21% | 142 | 63 16-Jul-21 A | 10-Sep-21 | Procurement of kiosks of fluorescent type sensor (SS316) |
| DU 1 | ation (2nd stage) | | | | | |
| 47210 | Installation of DOU1 wet scrubber and air duct connection for DOU1 | 88% | 62 | 175 26-Oct-20 A | 03-Sep-21 | Installation of DOU1 wet scrubber and air duct connection for DOU1 |
| 7233 | Wiring works for PLC of DOU equipments | 53,49% | 61 | 43 12-May-21 | 01-Sep-21 | Wiring works for PLC of DOU equipments |
| 7242 | Installation of Building Service, earthing and lightning protection for DOU polishing system, MCC room | 90.48% | 84 | 105 02-Jan-21 A | 20-Aug-21 | ervice, earthing and lightning protection for DOU polishing system, MCC room |
| 47252 | Installation of Fire services for DOU polishing system & MCC room | 82,86% | 77 | 105 18-Mar-21 A | - | stallation of Fire services for DOU polishing system & MCC room |
| A7292 | Software developement for new DOU polishing stage | 70.83% | 68 | 120 12-Apr-21 A | | Installation of kiosk and fluor |
| | Installation of kiosk and fluorescent type sensor (SS316) | 0% | 80 | 21 10-Sep-21* | 08-Oct-21 | 15-Oct-21, U |
| A8840 | ad Drainage and cabling works Submit WWO46 Part 4&5 for WSD inspection and water meter connection | 0% | 40 | 47 30-Aug-21* | 15-Oct-21 | Submit WW |
| | | | | - | | |
| esting and | commissioning | | | | | |
| | Installation test, leakage test & megger test for DOU1PS | 0% | 110 | 5 05-Jul-21 A | - | on test, leakage test & megger test for DOU1PS |
| 7152 7262 | Installation test, leakage test & megger test for DOU1PS Performance Test of the DOU1 wet scrubber | 0% | 37 | 8 11-Oct-21* | 18-Oct-21 | Perfor |
| 17152 17262 17267 | Installation test, leakage test & megger test for DOU1PS Performance Test of the DOU1 wet scrubber Function test of DOU1PS | 0% 12% | 37 80 | 8 11-Oct-21* 50 02-Aug-21 A | 18-Oct-21 08-Oct-21 | Function test of DOU1PS |
| x7152 x7262 x7267 x7272 | Installation test, leakage test & megger test for DOU1PS Performance Test of the DOU1 wet scrubber Function test of DOU1PS Hardware, point/end to point/end, interlock, simulation & interface test for PLC, SCADA & DCS for DOU polishing syste | 0% 12% 0% | 37 80 74 | 8 11-Oct-21* 50 02-Aug-21 A 10 02-Sep-21 | 18-Oct-21 08-Oct-21 12-Sep-21 | Perfor |
| A7152 A7262 A7267 A7272 A7272 A7280_NC | Installation test, leakage test & megger test for DOU1PS Performance Test of the DOU1 wet scrubber Function test of DOU1PS Hardware, point/end to point/end, interlock, simulation & interface test for PLC, SCADA & DCS for DOU polishing syste Calibration and function test of kiosks and flourencent type sensor | 0% 12% 0% 0% | 37 80 74 75 | 8 11-Oct-21* 50 02-Aug-21 A 10 02-Sep-21 5 11-Oct-21* | 18-Oct-21 08-Oct-21 12-Sep-21 15-Oct-21 | Perfor Function test of DOU1PS Hardware, point/end to point/end, interlock, simulation & interface test for PLC, SCADA & |
| A7152 A7262 A7267 A7272 A7272 A7280_NC A7282 | Installation test, leakage test & megger test for DOU1PS Performance Test of the DOU1 wet scrubber Function test of DOU1PS Hardware, point/end to point/end, interlock, simulation & interface test for PLC, SCADA & DCS for DOU polishing syste Calibration and function test of kiosks and flourencent type sensor Reliability test of the polishing system of DOU1 | 0% 12% 0% 0% | 37 80 74 75 17 | 8 11-Oct-21* 50 02-Aug-21 A 10 02-Sep-21 5 11-Oct-21* 36 08-Nov-21* | 18-Oct-21 08-Oct-21 12-Sep-21 15-Oct-21 13-Dec-21 | Perfor Function test of DOU1PS Hardware, point/end to point/end, interlock, simulation & interface test for PLC, SCADA & |
| A7152 A7262 A7267 A7272 A7272 A7280_NC A7282 A7312 | Installation test, leakage test & megger test for DOU1PS Performance Test of the DOU1 wet scrubber Function test of DOU1PS Hardware, point/end to point/end, interlock, simulation & interface test for PLC, SCADA & DCS for DOU polishing syste Calibration and function test of kiosks and flourencent type sensor | 0% 12% 0% 0% | 37 80 74 75 | 8 11-Oct-21* 50 02-Aug-21 A 10 02-Sep-21 5 11-Oct-21* | 18-Oct-21 08-Oct-21 12-Sep-21 15-Oct-21 13-Dec-21 30-Sep-21 | Performer P |
| A7152 A7262 A7267 A7272 A7280_NC A7282 A7312 A7312 A7322 | Installation test, leakage test & megger test for DOU1PS Performance Test of the DOU1 wet scrubber Function test of DOU1PS Hardware, point/end to point/end, interlock, simulation & interface test for PLC, SCADA & DCS for DOU polishing syste Calibration and function test of kiosks and flourencent type sensor Reliability test of the polishing system of DOU1 Performance test of building service for DOU polishing system, MCC room and NaOH bulk storage compound | 0% 12% 0% 0% 0% | 37 80 74 75 17 91 | 8 11-Oct-21* 50 02-Aug-21 A 10 02-Sep-21 5 11-Oct-21* 36 08-Nov-21* 31 31-Aug-21* | 18-Oct-21 08-Oct-21 12-Sep-21 15-Oct-21 13-Dec-21 30-Sep-21 | Performance test of fire service for DOU polishing |
| 7152 7262 7267 7272 7280_NC 7282 7312 7312 7322 U 1R adergrour | Installation test, leakage test & megger test for DOU1PS Performance Test of the DOU1 wet scrubber Function test of DOU1PS Hardware, point/end to point/end, interlock, simulation & interface test for PLC, SCADA & DCS for DOU polishing syste Calibration and function test of kiosks and flourencent type sensor Reliability test of the polishing system of DOU1 Performance test of building service for DOU polishing system, MCC room and NaOH bulk storage compound Performance test of fire service for DOU polishing system, MCC room and NaOH bulk storage compound Performance test of fire service for DOU polishing system, MCC room and NaOH bulk storage compound Performance test of fire service for DOU polishing system, MCC room and NaOH bulk storage compound | 0% 12% 0% 0% 0% 0% | 37 80 74 75 17 91 92 | 8 11-Oct-21* 50 02-Aug-21 A 10 02-Sep-21 5 11-Oct-21* 36 08-Nov-21* 31 31-Aug-21* 30 31-Aug-21 | 18-Oct-21 08-Oct-21 12-Sep-21 15-Oct-21 13-Dec-21 30-Sep-21 29-Sep-21 | Performance test of building service for DOU polishing Output Performance test of fire service for DOU polishing Output Ou |
| A7152 A7262 A7267 A7272 A7280_NC A7282 A7312 A7312 A7322 U 1R Adergrour 8930 | Installation test, leakage test & megger test for DOU1PS Performance Test of the DOU1 wet scrubber Function test of DOU1PS Hardware, point/end to point/end, interlock, simulation & interface test for PLC, SCADA & DCS for DOU polishing syste Calibration and function test of kiosks and flourencent type sensor Reliability test of the polishing system of DOU1 Performance test of building service for DOU polishing system, MCC room and NaOH bulk storage compound Performance test of fire service for DOU polishing system, MCC room and NaOH bulk storage compound | 0% 12% 0% 0% 0% | 37 80 74 75 17 91 | 8 11-Oct-21* 50 02-Aug-21 A 10 02-Sep-21 5 11-Oct-21* 36 08-Nov-21* 31 31-Aug-21* | 18-Oct-21 08-Oct-21 12-Sep-21 15-Oct-21 13-Dec-21 30-Sep-21 29-Sep-21 | Performance test of building service for DOU polishing Performance test of fire service for DOU polishing Submit WW046 Part 4&5 for WSD inspection |
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| x7152 x7262 x7272 x7272 x7280_NC x7282 x7312 x7312 x7322 U 1R mdergrour x8930 SM install x7311 x7315_EV | Installation test, leakage test & megger test for DOU1PS Performance Test of the DOU1 wet scrubber Function test of DOU1PS Hardware, point/end to point/end, interlock, simulation & interface test for PLC, SCADA & DCS for DOU polishing syste Calibration and function test of kiosks and flourencent type sensor Reliability test of the polishing system of DOU1 Performance test of building service for DOU polishing system, MCC room and NaOH bulk storage compound Performance test of fire service for DOU polishing system, MCC room and NaOH bulk storage compound Reliability test of the service for DOU polishing system, MCC room and NaOH bulk storage compound Reliability test of fire service for DOU polishing system, MCC room and NaOH bulk storage compound Reliability test of the service for DOU polishing system, MCC room and NaOH bulk storage compound Reliability test of fire service for DOU polishing system, MCC room and NaOH bulk storage compound Reliability test of the service for DOU polishing system, MCC room and NaOH bulk storage compound Reliability test of the service for DOU polishing system, MCC room and NaOH bulk storage compound Reliability test of fire service for DOU polishing system, MCC room and NaOH bulk storage compound Reliability test of the service for DOU polishing system, MCC room and NaOH bulk storage compound Reliability test of the service for DOU polishing system, MCC room and NaOH bulk storage compound Reliability test of the service for DOU polishing system, MCC room and NaOH bulk storage compound Reliability test of the service for DOU polishing system, MCC room and NaOH bulk storage compound Reliability test of the service for DOU polishing system, MCC room and NaOH bulk storage compound Reliability test of the service for DOU polishing system, MCC room and NaOH bulk storage compound Reliability test of the service for DOU polishing system, MCC room and NaOH bulk storage compound Reliability test of the service for DOU polishing system service for DOU polishing system, MCC room and NaOH bu | 0% 12% 0% 0% 0% 29.73% 50% | 37 80 74 75 17 91 92 56 56 | 8 11-Oct-21* 50 02-Aug-21 A 10 02-Sep-21 5 11-Oct-21* 36 08-Nov-21* 31 31-Aug-21* 30 31-Aug-21 74 19-Jul-21 A 30 02-Jun-21 A | 18-Oct-21 08-Oct-21 12-Sep-21 15-Oct-21 13-Dec-21 30-Sep-21 29-Sep-21 30-Sep-21 26-Aug-21 10-Sep-21 | Performance test of building service for DOU polishing Output and cabling Submit WW 046 Part 485 for WSD Inspection 24-Sep-21, E&M installation |
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Critical Remaining Work

3 Month Rolling Programme (Sep 2021 to Nov 2021)

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| DOU polish in test of kios ystem, MCC MCC room a r meter conn | ng system ks and flourer noom and NaQ nd NaOH bulk | cent type ► H bulk s storage | storage compound compound | |
| DOU polish in test of kios ystem, MCC MCC room a r meter conn r meter conn | ng system ks and flourer nd NaOH bulk ection | cent type ► H bulk s storage | storage compound compound | 22-Nov-21, Tes |
| DOU polish in test of kios ystem, MCC MCC room a r meter conn | ng system ks and flourer nd NaOH bulk ection | cent type ► H bulk s storage | storage compound compound | 22-Nov-21, Tes |
| DOU polish in test of kios ystem, MCC MCC room a r meter conn r meter conn | ng system ks and flourer nd NaOH bulk ection | cent type ► H bulk s storage | storage compound compound | 22-Nov-21, Tes |
| DOU polish in test of kios ystem, MCC MCC room a r meter conn r meter conn | ng system ks and flourer nd NaOH bulk ection | cent type ► H bulk s storage | storage compound compound | 22-Nov-21, Tes |
| DOU polish in test of kios ystem, MCC MCC room a r meter conn r meter conn connection r meter connection r m | ng system ks and flourer nd NaOH bulk ection ection | cent type | storage compound compound ition & interface test fo | 22-Nov-21, Tes |
| DOU polish in test of kios ystem, MCC MCC room a r meter conn r meter conn connection r meter connection r m | ng system ks and flourer nd NaOH bulk ection | cent type | storage compound compound ition & interface test fo | 22-Nov-21, Tes |
| DOU polish in test of kios ystem, MCC MCC room a r meter conn r meter conn | ng system ks and flourer noom and NaQ nd NaOH bulk ection fend, interlock nsor | cent type H bulk s storage simulal | storage compound compound ition & interface test fo | 22-Nov-21, Tes |
| DOU polish in test of kios wstem, MCC MCC room a r meter conn r meter | ng system ks and flourer noom and NaQ nd NaOH bulk ection fend, interlock nsor | cent type | storage compound compound tion & interface test fo ge compound | 22-Nov-21, Tes |
| DOU polish in test of kios wstem, MCC MCC room a r meter conn r meter | ng system ks and flourer noom and NaQ nd NaOH bulk ection fend, interlock nsor | cent type | storage compound compound ition & interface test fo | 22-Nov-21, Tes |
| DOU polish in test of kios wstem, MCC MCC room a r meter conn r meter | ng system ks and flourer noom and NaQ nd NaOH bulk ection fend, interlock nsor | cent type | storage compound compound tion & interface test fo ge compound | 22-Nov-21, Tes |
| DOU polish in test of kios wstem, MCC MCC room a r meter conn r meter | ng system ks and flourer noom and NaQ nd NaOH bulk ection fend, interlock nsor | cent type | storage compound compound tion & interface test fo ge compound | 22-Nov-21, Tes |
| DOU polish in test of kios wstem, MCC MCC room a r meter conn r meter | ng system ks and flourer noom and NaQ nd NaOH bulk ection fend, interlock nsor | cent type | storage compound compound tion & interface test fo ge compound meter connection | 22-Nov-21, Tes or PLC, SCADA & DCS Reliability test |
| DOU polish in test of kios ystem, MCC MCC room a r meter conn r meter | ng system ks and flourer room and NaQ and NaOH bulk ection ection ection ection and naOH bulk and cabling wo inspection an | cent type H bulk s storage simulal | storage compound compound tion & interface test fo ge compound meter connection | 22-Nov-21, Tes or PLC, SCADA & DCS Reliability test |
| DOU polish in test of kios ystem, MCC MCC room a r meter conn r meter | ng system ks and flourer room and NaQ and NaOH bulk ection ection ection ection and naOH bulk and cabling wo inspection an | cent type H bulk s storage simulal | storage compound compound tion & interface test fo ge compound meter connection | 22-Nov-21, Tes or PLC, SCADA & DCS Reliability test |
| DOU polish in test of kios ystem, MCC MCC room a r meter conn r meter conn a conn scent type se n, MCC roor d Drainage 4&5 for WS | ng system ks and flourer room and NaQ nd NaOH bulk ection ection ection end, interlock nsor and NaOH bulk and cabling wo pinspection at polishing sys | cent type H bulk s storage simulal | storage compound compound tion & interface test fo ge compound meter connection | 22-Nov-21, Tes or PLC, SCADA & DCS Reliability test |
| DOU polish in test of kios ystem, MCC MCC room a r meter conn r meter | ng system ks and flourer room and NaQ nd NaOH bulk ection ection ection end, interlock nsor and NaOH bulk and cabling wo pinspection at polishing sys | cent type H bulk s storage simulal | storage compound compound tion & interface test fo ge compound meter connection | 22-Nov-21, Tes or PLC, SCADA & DCS Reliability test |
| DOU polish in test of kios ystem, MCC MCC room a r meter conn r meter conn a conn scent type se n, MCC roor d Drainage 4&5 for WS | ng system ks and flourer room and NaQ nd NaOH bulk ection ection ection end, interlock nsor and NaOH bulk and cabling wo pinspection at polishing sys | cent type H bulk s storage simulal | storage compound compound tion & interface test fo ge compound meter connection | 22-Nov-21, Tes or PLC, SCADA & DCS Reliability test |
| DOU polish in test of kios ystem, MCC MCC room a r meter conn r meter conn a Drainage 4&5 for WS stem for DOI rer supply sy | ng system ks and flourer room and NaQ and NaOH bulk ection ection ection ection ection and cabling wo prolishing sys tem | cent type H bulk s storage simulal ilk stora, d water | storage compound compound tion & interface test fo ge compound meter connection | r PLC, SCADA & DCS Reliability test nstallation of air ducts f bling works) |
| DOU polish in test of kios ystem, MCC MCC room a r meter conn r meter conn scent type se n, MCC roor nd Drainage 4&5 for WS stem for DOI rer supply sy se, earthing a | ng system ks and flourer room and NaQ nd NaOH bulk ection ection ection end, interlock nsor and NaOH bulk nsor and cabling wo pinspection an polishing sys stem hd lightning pr | cent type → H bulk s storage simulal simulal k stora, d water d water d water d water | storage compound compound tion & interface test fo ge compound meter connection holuding panel and ca for DOU polishing sy | 22-Nov-21, Tes or PLC, SCADA & DCS Reliability test installation of air ducts fo bling works) stem, MCC room |
| DOU polish in test of kios MCC room a r meter conn r meter conn r meter conn r meter conn r meter conn r meter conn r meter conn scent type se n, MCC roor d Drainage 4&5 for WS stem for DOI rer supply sy se, earthing a Date | ng system ks and flourer noom and NaQ nd NaOH bulk ection ection end, interlock nsor and cabling wo polishing sys tem hd lightning pr Revisio | cent type → H bulk s storage simulal simulal k stora, d water d water d water d water | storage compound compound tion & interface test fo ge compound meter connection | 22-Nov-21, Tes or PLC, SCADA & DCS Reliability test nstallation of air ducts fo bling works) |
| DOU polish in test of kios ystem, MCC MCC room a r meter conn r meter conn scent type se n, MCC roor nd Drainage 4&5 for WS stem for DOI rer supply sy se, earthing a | ng system ks and flourer room and NaQ nd NaOH bulk ection ection ection end, interlock nsor and NaOH bulk nsor and cabling wo pinspection an polishing sys stem hd lightning pr | cent type → H bulk s storage simulal simulal k stora, d water d water d water d water | storage compound compound tion & interface test fo ge compound meter connection holuding panel and ca for DOU polishing sy | 22-Nov-21, Tes or PLC, SCADA & DCS Reliability test installation of air ducts fo bling works) stem, MCC room |
| DOU polish in test of kios MCC room a r meter conn r meter conn r meter conn r meter conn r meter conn r meter conn r meter conn scent type se n, MCC roor d Drainage 4&5 for WS stem for DOI rer supply sy se, earthing a Date | ng system ks and flourer noom and NaQ nd NaOH bulk ection ection end, interlock nsor and cabling wo polishing sys tem hd lightning pr Revisio | cent type → H bulk s storage simulal simulal k stora, d water d water d water d water | storage compound compound tion & interface test fo ge compound meter connection holuding panel and ca for DOU polishing sy | 22-Nov-21, Tes or PLC, SCADA & DCS Reliability test installation of air ducts fo bling works) stem, MCC room |
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| DOU polish in test of kios MCC room a r meter conn r meter conn r meter conn r meter conn r meter conn r meter conn r meter conn scent type se n, MCC roor d Drainage 4&5 for WS stem for DOI rer supply sy se, earthing a Date | ng system ks and flourer noom and NaQ nd NaOH bulk ection ection end, interlock nsor and cabling wo polishing sys tem hd lightning pr Revisio | cent type → H bulk s storage simulal simulal k stora, d water d water d water d water | storage compound compound tion & interface test fo ge compound meter connection holuding panel and ca for DOU polishing sy | 22-Nov-21, Tes or PLC, SCADA & DCS Reliability test nstallation of air ducts f bling works) stem, MCC room |

| ivity ID | Activity Name | Activity % Complete | Total Float | Original Duration | Start | Finish | | 2021 | |
|--|--|---|---|--|---|--|--|--|---|
| A7490 | Installation of Fire services for DOU polishing system & MCC room | 0% | 67 | 24 | 13-Aug-21* | 10-Sen-21 | Q3 Installation of Fire services for DOU polishing sy | ustem & MCC room | |
| A8400 | Software developement for new DOU polishing stage | 30% | 26 | | 03-May-21 | 06-Dec-21 | Installation of the services for DOO polisinity s | | |
| A8420 N | Installation of kiosk and flourescent type sensor (SS316) | 0% | 50 | | | 19-Nov-21 | | | |
| the second s | d commissioning | | | | | | | | |
| A6850 | Installation test, leakage test and megger test | 0% | 55 | 41 | 17-Sep-21* | 12-Nov-21 | | and the second | |
| A6910 | Function test of DOU2PS | 0% | 50 | 37 3 | 30-Sep-21* | 19-Nov-21 | | | |
| A7590 | Hardware, point/end to point/end, interlock, simulation & interface test for PLC, SCADA & DCS for DOU polishing syste | 0% | 30 | 13 | 19-Oct-21 | 31-Oct-21 | | | > |
| A7630 | Performance test of building service for DOU polishing system and MCC room | 0% | 48 | 31 | 13-Oct-21* | 12-Nov-21 | | | |
| A7640 | Performance test of fire service for DOU polishing system and MCC room | 0% | 80 | 31 | 11-Sep-21* | 11-Oct-21 | ↓ → | Performanc | e test of fire service fo |
| DOU 4 | | | and the second second | the second second | | Long Training | | | |
| A7208 CF | RC footing for air duct support (10nr) | EC 670/ | 62 | CO (| 05 Max 04 A | 00.0 01 | 09-Sep-21, RC works | | |
| | nd Drainage and cabling works | 56,67% | 62 | 60 | 25-Mar-21 A | 09-Sep-21 | RC footing for air duct support (10nr) | | |
| A9110 | Submit WWO46 Part 4&5 for WSD inspection and water meter connection | 0% | 39 | 74 1 | 10-Aug-21* | 22-Oct-21 | | | 22-Oct-2 Submit |
| E&M insta | • | 0,0 | | 11 | To ridg 21 | 22-001-21 | | | 22-Oct-2 |
| A6700 | Installation of the DOU4 polishing Unit and air duct connection for DOU4 | 61.33% | 30 | 150 (| 03-Dec-20 A | 18-Oct-21 | | | Installation of the |
| A6710_N0 | Installation of NaOCI feed pipe (upgrading) | 0% | 100 | 21 1 | 13-Aug-21* | 10-Sep-21 | Installation of NaOCI feed pipe (upgrading) | | |
| A7421 | Wiring works for PLC for DOU equipments | 56% | 56 | 45 (| 05-May-21 | 16-Sep-21 | Wiring works for PLC for DOU equ | uipments | |
| A8420 | Software developement for new DOU polishing stage | 70% | 59 | | - | 17-Sep-21 | Software developement for new | | |
| A8425_NC | Installation of kiosks and flourescent type sensor (SS314) | 0% | 70 | | 10-Sep-21* | | | | Installati |
| Testing an | d comissioning | | | | | | | | |
| A6705 | Installation check, leakage test & megger test | 0% | 64 | 44 (| 01-Sep-21* | 01-Nov-21 | | | |
| A6710 | Performance Test of the DOU4 polishing Unit | 0% | 22 | 8 (| 01-Nov-21* | 08-Nov-21 | | | |
| A6740 | Function test of DOU4PS | 0% | 64 | 32 1 | 17-Sep-21* | 01-Nov-21 | | | |
| A7650 | Hardware, point/end to point/end, interlock, simulation & interface test for PLC, SCADA & DCS for DOU polishing syste | 0% | 22 | 18 2 | 22-Oct-21* | 08-Nov-21 | | | |
| A7660_NC | Calibration and function test of kiosks and fluorescent type sensor | 0% | 63 | 8 2 | 22-Oct-21* | 02-Nov-21 | | | |
| A7670 | Reliability test of the polishing system of DOU4 | 0% | 22 | 30 0 | 9-Nov-21 | 08-Dec-21 | | | |
| A7680 | Reliability test of NaOH bulk Storage and transfer system | 15% | 88 | 30 1 | 8-Apr-21 A | 04-Sep-21 | Reliability test of NaOH bulk Storage and transfer system | | 1 |
| | | 0% | 91 | 31 3 | 81-Aug-21* | 30-Sep-21 | Pe | erformance test of building service f | for DOU polishing syst |
| A7690 | Performance test of building service for DOU polishing system and MCC room | | | | | | | | |
| A7700 | Perform ance test of building service for DOU polishing system and MCC room Perform ance test of fire service for DOU polishing system and MCC room | 0% | 91 | 31 3 | 81-Aug-21* | 30-Sep-21 | Pe | erformance test of fire service for D | OU polishing system a |
| A7700 DOU 5 | Performance test of fire service for DOU polishing system and MCC room | | 91 | 31 3 | 31-Aug-21* | 30-Sep-21 | | | |
| A7700 DOU 5 Undergrou | Performance test of fire service for DOU polishing system and MCC room nd Drainage and cabling works | 0% | | | | | | ▼ 15- | Oct-21, Underground I |
| A7700 DOU 5 Undergrou A9200 | Performance test of fire service for DOU polishing system and MCC room Ind Drainage and cabling works Submit WW 046 Part 4&5 for WSD inspection and water meter connection | | 91 43 | | 81-Aug-21* 80-Aug-21* | | | ▼ 15- | Oct-21, Underground I |
| A7700 DOU 5 Undergrou A9200 E&M instal | Performance test of fire service for DOU polishing system and MCC room Ind Drainage and cabling works Submit WW046 Part 4&5 for WSD inspection and water meter connection Intion | 0% 0% | 43 | 47 3 | 0-Aug-21* | 15-Oct-21 | | ▼ 15- | Oct-21, Underground |
| A7700 DOU 5 Undergrou A9200 E&M instal A7070_CE | Performance test of fire service for DOU polishing system and MCC room Ind Drainage and cabling works Submit WW046 Part 4&5 for WSD inspection and water meter connection Installation of cable containment and power cable of DOU5 PS | 0% 0% 46.67% | 43 1 | 47 3 30 1 | 0-Aug-21* 5-Mar-21 A | 15-Oct-21 27-Aug-21 | on of cable containment and power cable of DOU5 PS | ✓ 15- Sul | Oct-21, Underground omit WWO46 Part 4& |
| A7700 DOU 5 Undergrou A9200 E&M instal A7070_CE A7070_NC | Performance test of fire service for DOU polishing system and MCC room Ind Drainage and cabling works Submit WW 046 Part 4&5 for WSD inspection and water meter connection Installation of cable containment and power cable of DOU5 PS Installation of air ducts for connection of DOU5 | 0% 0% 46.67% 36.67% | 43 | 47 3 30 1 60 1 | 0-Aug-21* 5-Mar-21 A 6-Apr-21 A | 15-Oct-21 27-Aug-21 30-Sep-21 | on of cable containment and power cable of DOU5 PS | ↓ 15- Sul stallation of air ducts for connection | Oct-21, Underground mit WWO46 Part 4& of DOU5 |
| A7700 DOU 5 Undergrou A9200 E&M instal A7070_CE A7070_NC | Performance test of fire service for DOU polishing system and MCC room Ind Drainage and cabling works Submit WW046 Part 4&5 for WSD inspection and water meter connection Installation of cable containment and power cable of DOU5 PS | 0% 0% 46.67% 36.67% 87.69% | 43 1 36 8 | 47 3 30 1 60 1 130 1 | 0-Aug-21* 5-Mar-21 A 6-Apr-21 A 9-Nov-20 A | 15-Oct-21 27-Aug-21 30-Sep-21 27-Aug-21 | on of cable containment and power cable of DOU5 PS | ↓ 15- Sul stallation of air ducts for connection | Oct-21, Underground mit WWO46 Part 4& of DOU5 |
| A7700 DOU 5 Undergrou A9200 E&M instal A7070_CE A7070_NC A7345_NC | Performance test of fire service for DOU polishing system and MCC room Ind Drainage and cabling works Submit WW046 Part 4&5 for WSD inspection and water meter connection Installation of cable containment and power cable of DOU5 PS Installation of air ducts for connection of DOU5 Installation of Power supply and disturbution system for DOU polishing systems (including panel and cabling works) | 0% 0% 46.67% 36.67% | 43 1 36 | 47 3 30 1 60 1 130 1 45 0 | 0-Aug-21* 5-Mar-21 A 6-Apr-21 A 9-Nov-20 A 8-May-21 | 15-Oct-21 27-Aug-21 30-Sep-21 27-Aug-21 23-Aug-21 | on of cable containment and power cable of DOU5 PS on of Cable containment and power cable of DOU5 PS no of Power supply and disturbution system for DOU polishing systems PLC of DOU equipments | stallation of air ducts for connection (including panel and cabling works | Oct-21, Underground mit WWO46 Part 4& of DOU5 |
| A7700 DOU 5 Undergrou A9200 E&M instal A7070_CE A7070_NC A7345_NC A7366 | Performance test of fire service for DOU polishing system and MCC room Ind Drainage and cabling works Submit WW046 Part 4&5 for WSD inspection and water meter connection Installation of cable containment and power cable of DOU5 PS Installation of air ducts for connection of DOU5 Installation of Power supply and disturbution system for DOU polishing systems (including panel and cabling works) Wiring works for PLC of DOU equipments | 0% 0% 46.67% 36.67% 87.69% 73.33% | 43 1 36 8 5 | 47 3 30 1 60 1 130 1 45 0 120 1 | 0-Aug-21* 5-Mar-21 A 6-Apr-21 A 9-Nov-20 A 13-May-21. 9-Nov-20 A | 15-Oct-21 27-Aug-21 30-Sep-21 27-Aug-21 23-Aug-21 03-Sep-21 | on of cable containment and power cable of DOU5 PS Ins on of Power supply and disturbution system for DOU polishing systems PLC of DOU equipments Installation of Building Service, earthing and lightning protection | stallation of air ducts for connection (including panel and cabling works for DOU polishing system, MCC ro | Oct-21, Underground mit WWO46 Part 4& of DOU5 |
| A7700 DOU 5 Undergrou A9200 E&M instal A7070_CE A7070_NC A7345_NC A7366 A7375 A7385 | Performance test of fire service for DOU polishing system and MCC room Ind Drainage and cabling works Submit WW046 Part 4&5 for WSD inspection and water meter connection Installation of cable containment and power cable of DOU5 PS Installation of air ducts for connection of DOU5 Installation of Power supply and disturbution system for DOU polishing systems (including panel and cabling works) Wiring works for PLC of DOU equipments Installation of Building Service, earthing and lightning protection for DOU polishing system, MCC room | 0% 0% 46.67% 36.67% 87.69% 73.33% 82.5% | 43 1 36 8 5 73 | 47 3 30 1 60 1 130 1 45 0 120 1 120 2 | 0-Aug-21* 5-Mar-21 A 6-Apr-21 A 9-Nov-20 A 13-May-21 9-Nov-20 A 16-Dec-20 A | 15-Oct-21 27-Aug-21 30-Sep-21 27-Aug-21 23-Aug-21 03-Sep-21 20-Aug-21 | on of cable containment and power cable of DOU5 PS on of Cable containment and power cable of DOU5 PS no of Power supply and disturbution system for DOU polishing systems PLC of DOU equipments | stallation of air ducts for connection (including panel and cabling works for DOU polishing system, MCC ro | Oct-21, Underground mit WWO46 Part 4& of DOU5 |
| A7700 DOU 5 Undergrou A9200 E&M instal A7070_CE A7070_NC A7345_NC A7366 A7375 A7385 | Performance test of fire service for DOU polishing system and MCC room Ind Drainage and cabling works Submit WWO46 Part 4&5 for WSD inspection and water meter connection Installation of cable containment and power cable of DOU5 PS Installation of air ducts for connection of DOU5 Installation of Power supply and disturbution system for DOU polishing systems (including panel and cabling works) Wiring works for PLC of DOU equipments Installation of Building Service, earthing and lightning protection for DOU polishing system, MCC room Installation of Fire services for DOU polishing system, MCC room and NaOH bulk storage compound | 0% 0% 46.67% 36.67% 87.69% 73.33% 82.5% 91.67% | 43 1 36 8 5 73 84 | 47 3 30 1 60 1 130 1 45 0 120 1 120 2 41 1 | 0-Aug-21* 5-Mar-21 A 6-Apr-21 A 9-Nov-20 A 13-May-21 9-Nov-20 A 16-Dec-20 A 0-Sep-21* | 15-Oct-21 27-Aug-21 30-Sep-21 27-Aug-21 23-Aug-21 03-Sep-21 20-Aug-21 05-Nov-21 | on of cable containment and power cable of DOU5 PS Ins on of Power supply and disturbution system for DOU polishing systems PLC of DOU equipments Installation of Building Service, earthing and lightning protection | stallation of air ducts for connection (including panel and cabling works for DOU polishing system, MCC ro | Oct-21, Underground mit WWO46 Part 4& of DOU5 |
| A7700 DOU 5 Undergrou A9200 E&M instal A7070_CC A7345_NC A7345_NC A7366 A7375 A7385 A7395_NC A8440 | Perform ance test of fire service for DOU polishing system and MCC room Ind Drainage and cabling works Submit WW046 Part 4&5 for WSD inspection and water meter connection Installation of cable containment and power cable of DOU5 PS Installation of air ducts for connection of DOU5 Installation of Power supply and disturbution system for DOU polishing systems (including panel and cabling works) Wiring works for PLC of DOU equipments Installation of Fire service, earthing and lightning protection for DOU polishing system, MCC room Installation of Fire services for DOU polishing system, MCC room and NaOH bulk storage compound Installation of kiosk and fluorescent type sensor | 0% 0% 46.67% 36.67% 87.69% 73.33% 82.5% 91.67% 0% | 43 1 36 8 5 73 84 60 | 47 3 30 1 60 1 130 1 45 0 120 1 120 2 41 1 65 0 | 0-Aug-21* 5-Mar-21 A 6-Apr-21 A 9-Nov-20 A 13-May-21 9-Nov-20 A 16-Dec-20 A 0-Sep-21* 17-Apr-21 A | 15-Oct-21 27-Aug-21 30-Sep-21 27-Aug-21 23-Aug-21 03-Sep-21 20-Aug-21 05-Nov-21 30-Oct-21 | on of cable containment and power cable of DOU5 PS Inson of Power supply and disturbution system for DOU polishing systems PLC of DOU equipments Installation of Building Service, earthing and lightning protection es for DOU polishing system, MCC room and NaOH bulk storage compo | stallation of air ducts for connection (including panel and cabling works for DOU polishing system, MCC ro ound | Oct-21, Underground amit WWO46 Part 4& of DOU5 |
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Actual Work

Critical Remaining Work

Milestone

Remaining Work

Contract No. DE/2018/17 Enhancement of Deodourization System at Stonecutter Island Sewage Treatment Works 3 Month Rolling Programme (Sep 2021 to Nov 2021) Sheet 2 of 2 04-Sep-21

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| Installation of kiosk |
| 19-Nov-21, Testing a |
| Installation test, leakage test and me |
| Function test of DOL |
| Hardware, point/end to point/end, interlock, simulation & interfac |
| Performance test of building service |
| for DOU polishing system and MCC room |
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| t-21, Underground Drainage and cabling works |
| it WW046 Part 4&5 for W\$D inspection and water meter connection |
| t-21, E&M installation |
| e DOU4 polishing Unit and air duct connection for DOU4 |
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| ation of kiosks and flourescent type sensor (SS314) |
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| Installation check, leakage test & megger test |
| Performance Test of the DOU4 polishing Unit |
| Function test of DOU4PS |
| Hardware, point/end to point/end, interlock, sin |
| Calibration and function test of kiosks and fluorescent type |
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| untern and MCC seem |
| ystem and MCC room |
| n and MCC room |
| d Drainage and cabling works |
| 4&5 for WSD inspection and water meter connection |
| 05-Nov-21, E&M installation |
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| Installation of kiosk and fluorescent type sensor |
| Software development for new DOU polishing stage |
| ng li |
| 26-N |
| Installation test, leakage test & megger test |
| Function test of DOU |
| Hard |
| lishing system and MCC room |
| n and MCC room |
| S1 SYSCON, MPS2 and slugge Dewatering Bldg (SDB) |
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| ks for MPS1 SYSCON and MPS2 |
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| ✓ 12-Nov-21, Statutary Inspection by FS |
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| DG inspection by FSD |
| Submission of Application for FS ins |
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| Submission of O&M manual, Training manual, |
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