

Monthly EM&A Report (September 2022)

Contract No. : DPW 01/2020

Contract Name : Environmental Team for Drainage

Improvement Works at Ngong Ping

(Contract No. DC/2019/06)

Report No. : 0118/20/ED/0525A

EP No. : EP-456/2013/B

Prepared by : Roy Cheung

Reviewed by : Rex Chow

Certified by : Calvin M.P. Leung

Environmental Team Leader





Our Ref: PL-202210021

Drainage Services Department 45/F, Revenue Tower, 5 Gloucester Road, Wan Chai, Hong Kong

Attention: Mr. Dave CHOI (Engineer/ Drainage Projects 14)

14 October 2022

Dear Dave,

Drainage Improvement Works at Ngong Ping Monthly EM&A Report for September 2022

I refer to the email dated 14 October 2022 from the Environmental Team concerning the captioned. I have no adverse comment on the Monthly Environmental Monitoring and Audit Report for September 2022 with report number 0118/20/ED/0525A and verify the report according to Conditions 1.9 and 4.4 of Environmental Permit with permit number EP-456/2013/A.

Yours faithfully,

F.C. Tsang

Independent Environmental Checker

ETL – Calvin Leung

Tour Faulberg

Document Control

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Client Contact	Mr. Dave Choi

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EXECUTIVE SUMMARY

i. This is the 21st monthly EM&A Report which summaries the results and findings of the EM&A programme required for the Project from 1 September to 30 September 2022.

Breaches of Action and Limit Levels

Noise

ii. No Action or Limit Level Exceedance of monitoring was recorded in the reporting period.

Water Quality

iii. No Action or Limit Level Exceedance of monitoring was recorded in the reporting period.

Complaint log

iv. No Complaint was recorded in the reporting period.

Notifications of Summons and Successful Prosecutions

v. No notifications of Summon and Successful Prosecution was recorded in the reporting period.

Reporting Change

vi. There was no reporting change required in the reporting period.

Future Key Issues

vii. During the next three month reporting period, the principal work activities within the site included:

Portion A

- Receiving Pit excavation
- TBM operation

Portion B

- Excavation of box culvert
- Launching pit excavation
- TBM operation
- viii. The ET will continue to implement the environmental monitoring & audit programme in accordance with the EM&A Manual and Environmental Permit requirements. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

1. INTRODUCTION

1.1 Background

- 1.1.1 To enhance the capacity of the trunk drainage system and reduce the flood risk in Ngong Ping, long term drainage improvement works are proposed to be implemented under "PWP Item No. 4163CD Drainage Improvement Works at Ngong Ping" (hereafter referred to as "the Project").
- 1.1.2 The Project is a designated project under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap.499). An Environmental Impact Assessment (EIA) Report together with an Environmental Monitoring and Audit (EM&A) Manual (hereafter referred to as the "approved EM&A Manual") (Register No. AEIAR-169/2013 was prepared for the Project and approved by Environmental Protection Department (EPD) on 21 April 2013. A Variation of an Environmental Permit (Application No. VEP-599/2021) EP-456/2013/B was issued on 26 August 2021 and it is the current permit for the Project. These documents are available through the EIAO Register.
- 1.1.3 Fugro Technical Services Limited (FTS) has been appointed as the Environmental Team (ET) by Drainage Services Department (DSD) to implement the EM&A programme in accordance with the EP No. EP-456/2013/B and the approved EM&A Manual.
- 1.1.4 The construction phase and EM&A programme of the Project commenced on 2 January 2021.
- 1.1.5 This is the 21st monthly EM&A Report which summaries the results and findings of the EM&A programme required for the Project from 1 September to 30 September 2022.

1.2 Project Organization and Management Structure

1.2.1 The environmental Project Organization and Management Structure is shown in Appendix A.

The key personnel contact names and numbers are summarized in Table 1.1.

Table 1.1 Contact Information of Key Personne	nel
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Party	Position	Name	Telephone
Drainage Services Department, HKSAR (DSD)	Engineer	Mr. Dave Choi	2594 7348
Acuity Sustainability Consulting Limited (ASC)	IEC	Mr. F.C. Tsang	2698 8060
Contractor (Ming Hing)	Environmental Officer	Mr. Martin Cheng	9449 8621
Fugro Technical Services Limited (FTS)	ET Leader	Mr. Calvin Leung	3565 4441

1.3 Construction Programme and Activities

- 1.3.1 The construction phase of the Project under the EP commenced on 2 January 2021.
- 1.3.2 The construction programme of the Project is shown in Appendix B1.

1.4 Works Undertaken During the Month

1.4.1 During this reporting period, the principal work activities within the site included:

Portion A

- Receiving Pit excavation
- TBM operation

Portion B

- Excavation of box culvert
- Launching pit excavation
- TBM operation
- 1.4.2 Illustrations of works undertaken during the reporting period are shown in Appendix B2.
 - 1.5 Waste Management Status
- 1.5.1 The amount of wastes generated within the Project during the reporting period is shown in Appendix B4.

2. ENVIRONMENTAL STATUS

EP No. EP-456/2013/B Conditions

2.1.1 Status of EP No. EP-456/2013/B Conditions are summarized in Appendix C1.

Mitigation Measures Implementation

2.1.2 Implementation of environmental mitigation measures are summarized in Appendix C2.

Environmental Licences, Notification and Permits

2.1.3 A summary of the relevant permits, licences and/or notifications on environmental protection for this Contract is presented in Table 2.1.

Table 2.1 Environmental Licences, Notification and Permits Summary

Permit / Notification / License	Ref No	Valid From	Valid Till
Environmental Permit	EP-456/2013/B	26/08/2021	N/A
Wastewater Discharge License	EP/RS0000458474	23/9/2022	30/9/2027
Notification pursuant to Air Pollution (Construction Dust) Regulation	462432	01/12/2020	N/A
Billing Account	7038098	26/08/2020	N/A
Chemical Waste Producer	5213-941-M2935-04	05/05/2021	N/A

Project Area, Environmental Sensitive Receivers and Locations of Monitoring and Control Stations

2.1.4 Project location, Environmental sensitive receivers and locations of the monitoring and control stations are shown in Figure 1, 2a-2c.

3. SUMMARY OF EM&A REQUIREMENTS

- 3.1 Monitoring Parameters
- 3.1.1 Detailed of monitoring parameters are shown in Section 5.3.
 - 3.2 Environmental Quality Performance Limits (Action and Limit Levels)
- 3.2.1 The monitoring parameters action and limit levels are shown in Appendix D.
 - 3.3 Event and Action Plans
- 3.3.1 The Event and Action Plans are shown in Appendix E.
- 3.4 Environmental Mitigation Measures as Recommended in the EIA Report
- 3.4.1 Implementation of environmental mitigation measures are summarized in Appendix C2.
 - 3.5 Environmental Requirements in Contract Documents
- 3.5.1 In order to ensure the works are in compliance with the contractual requirements, all method statements of major works should be submitted by the Contractor to the Engineer and the ET for vetting so as to ensure whether sufficient environmental protection and pollution control measures have been incorporated. Detailed ET's vetting contract documents in reporting period are summarized in Table 3.1:

Table 3.1 ET's vetting Contract Documents Summary

ET's vetting Contract Documents

Status

NIL

3.6 Site Inspection

- 3.6.1 Site inspections should be conducted regularly to ensure that appropriate environmental protection and pollution control mitigation measures are properly implemented for the construction works activities associated with the drainage improvement works at Ngong Ping.
- 3.6.2 A summary of the ET's site inspection in the reporting period is presented in Table 3.2.

Table 3.2 Site Inspection Date Summary

Inspection Date
Weekly Site Inspection
06/09/2022
13/09/2022
20/09/2022
27/09/2022
Landscape and Visual
06/09/2022
20/09/2022
Cultural Heritage
20/09/2022
Post-transplantation Works
06/09/2022
Floral Protection Measures
06/09/2022

3.6.3 Detailed site inspections summary is presented in Appendix C3.

3.7 Ecology

- 3.7.1 The EIA has recommended that an EM&A for ecology is undertaken during the construction and operational / post-construction phases of the project. Certain construction phase mitigation measures and EM&A, such as surveys and subsequent transplantation of floral species would need to be undertaken in the pre-construction phase, or baseline phase of the works.
- 3.7.2 The construction phase ecological audit is concerned with checking the effectiveness of the implementation of the ecology transplantation/translocation and protection measures, together with auditing the effectiveness of the overall ecological site mitigation.
- 3.7.3 Refer to the EM&A Manual Table 5.2, the EM&A requirement in construction phase are summarized as below:
 - ~ Weekly audit of Enhancement planting and construction run-off.
 - \sim Monthly audit of the implementation of Floral Protection Plan.
 - ~ Monthly audit of the transplanted species for the first 12 months after the transplantation.
 - ~ Quarterly audit the transplanted species between months 12 to 24 after the transplantation.

- 3.7.4 A summary of the ET's site inspection in the reporting period is presented in Table 3.2 and the detailed site inspections is presented in Appendix C3.
- 3.7.5 To avoid uprooting and washing away of remaining transplanted floral species of conservation importance during adverse weather, preventive measure such as enhanced visual checking of the soil stability during advance notice of adverse weather conditions (i.e. Typhoon Signal Nos. 8 to 10 and Black, Red, and Yellow Rainstorm) is recommended.
- 3.7.6 Implementation of environmental mitigation measures are summarized in Appendix C2.

3.8 Landscape and Visual Impact

- 3.8.1 The EIA has recommended that EM&A for landscape and visual resources is undertaken during the construction and operational phases of the project. The design, implementation and maintenance of landscape mitigation measures is a key aspect of this and should be checked to ensure that they are fully realised and that potential conflicts between the proposed landscape measures and any other project works and operational requirements are resolved at the earliest possible date and without compromise to the intention of the mitigation measures. In addition, the implementation of the mitigation measures recommended by the EIA will be monitored through the site audit programme.
- 3.8.2 Site inspections should be undertaken at least once every two weeks throughout the construction period and once every two months during the operational phase.
- 3.8.3 A summary of the ET's site inspection in the reporting period is presented in Table 3.2 and the detailed site inspections is presented in Appendix C3.
- 3.8.4 Implementation of environmental mitigation measures are summarized in Appendix C2.

3.9 Cultural Heritage

- 3.9.1 The EIA has recommended that the EM&A for cultural heritage resources is undertaken during the construction phase of the project. Implementation of the mitigation measures recommended by the EIA will be monitored through the site audit programme.
- 3.9.2 All measures undertaken by the Contractor during the construction phase in the vicinity of the six heritage resources shall be audited by a qualified building surveyor, as a member of the Environmental Team (ET), on a monthly basis to ensure compliance with the intended aims of the recommended mitigation measures.
- 3.9.3 A summary of the ET's site inspection in the reporting period is presented in Table 3.2 and the detailed site inspections is presented in Appendix C3.
- 3.9.4 Crack monitoring devices was installed at NP-10 and NP-11.
- 3.9.5 Implementation of environmental mitigation measures are summarized in Appendix C2.

3.10 Waste Management

- 3.10.1 With the proper handling, storage and disposal of wastes arising from the construction works as recommended in the Environmental Mitigation Implementation Schedule in Appendix A of this EM&A Manual, the potential for adverse environmental impacts would be minimised. During site inspections, the Engineer and ET should pay special attention to the issues relating to the waste management and check whether the Contractor has implemented the recommended good site practices and other mitigation measures.
- 3.10.2 The amount of wastes generated within the Project during the reporting period is shown in Appendix B4.
- 3.10.3 A summary of the ET's site inspection in the reporting period is presented in Table 3.2 and the detailed site inspections is presented in Appendix C3.
- 3.10.4 Implementation of environmental mitigation measures are summarized in Appendix C2.

4. IMPLEMENTATION STATUS

4.1.1 The implementation status of environmental protection and pollution control/ mitigation measures as recommended in the EIA report/ EM&A Manual in the reporting period were updated and shown in Appendix C2.

MONITORING RESULTS

5.1 Monitoring Methodology

Noise

- 5.1.1 The monitoring methodology and the QA/QC procedures are as follows:
 - The monitoring station will set at a point 1m from the exterior of the sensitive receivers building façade and set at a position 1.2m above the ground.
 - The battery condition will check to ensure good functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the measurement time will set as follows:
 - frequency weighting : A
 - time weighting : Fast
 - measurement time : continue 5 minutes interval
 - Prior to and after noise measurement, the meter will be calibrated using the calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement will be considered invalid and repeat of noise measurement is required after re-calibration or repair of the equipment.
 - The wind speed at the monitoring station will check with the portable wind meter. Noise monitoring shall be 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.
 - Noise measurement shall be paused during periods of high intrusive noise if possible and observation shall be recorded when intrusive noise is not avoided.
 - The supplementary information for data auditing and statistical results (e.g. L10 and L90), shall be obtained for reference.

Maintenance / Calibration

- The microphone head of the sound level meter and calibrator should be cleaned with a soft cloth at quarterly intervals.
- The sound level meter and calibrator should be calibrated annually by a HOKLAS laboratory or the manufacturer.
- 5.1.2 The weather conditions during the reporting period are shown in Appendix J.

Water Quality

- 5.1.3 In accordance with the recommendations of the EIA, construction phase water quality EM&A is required. Water quality parameters comprising: (i) suspended solids (SS); (ii) turbidity in Nephelometric Turbidity Units (NTU); (iii) dissolved oxygen (DO) in mg/L; and (iv) pH, shall be measured by the Environmental Team (ET) at locations which are within the potential influence of construction works at least three times per week to ensure that any deteriorating water quality could be readily detected and timely action be taken to rectify the situation. The first parameter, SS, shall be determined in the laboratory, with the other parameters measured insitu using direct reading instrumentation.
- 5.1.4 In association with the water quality parameter measurements, relevant data shall also be measured, including the monitoring location/position, time, water depth, water temperature, salinity, DO saturation, weather conditions if appropriate, and any special phenomena and work underway at the construction site.
- 5.1.5 Only one sampling depth will be required for the streams, which shall be collected at mid depth. Replicates (2 samples) in-situ from each independent sampling event are required for all parameters to ensure a robust statistically interpretable data set.
- 5.1.6 In addition, duplicated water samples for suspended solid analysis shall be collected at all the above stations and delivered to the HOKLAS accredited laboratory for analysis. Results for suspended solids shall be received back from the laboratory within 24hour of the receipt of the samples.
- 5.1.7 The Impact Monitoring shall be taken at the designated monitoring stations when construction works in the relevant Works Sections, designated working area (WA) and stockpiling area (SA) is ongoing. The monitoring shall be conducted at least 3 times a week and the interval between two sets of monitoring shall not be less than 36 hours. The parameters to be monitored, the monitoring procedures and equipment shall be the same as the Baseline Monitoring. The Impact Monitoring at a particular Works Section shall not be ceased with the ER, IEC and EPD agreement.
- 5.1.8 The weather conditions during the reporting period are shown in Appendix J.
 - 5.2 Laboratory and Equipment Used and Calibration

Noise

5.2.1 Table 5.1a summarizes the noise monitoring equipment model used for this project.

Table 5.1a Noise Monitoring Equipment

Manufacturer/ Brand	Model	Equipment	Quantity
Casella	CEL-63X Series	Sound Level Meter	3
	CEL-120/1	Sound Calibrator	2

5.2.2 Relevant calibration certificates are provided in Appendix F1.

Water Quality

- 5.2.3 Analysis of suspended solids was carried out in HOKLAS environmental testing laboratory (Registration No.: HOKLAS 015) to this parameter.
- 5.2.4 Table 5.1b summarizes the water quality monitoring equipment model used for this project.

Table 5.1b Water Quality Monitoring Equipment

Manufacturer/ Brand	Model	Equipment	Quantity
In-Situ	YSI EXO-3	Multi-parameter Water Quality Meter	2

5.2.5 Relevant calibration certificates are provided in Appendix F2.

5.3 Parameters, Monitoring Date, Time, Frequency and Duration

Noise

5.3.1 Table 5.2 presents the noise monitoring parameters, frequencies and period.

Table 5.2 Monitoring Parameters and Frequencies of Noise Monitoring

Parameter	Frequency and Period
LAeq (30 min) in normal weekdays and	0700-1900 on normal weekdays at a frequency of once
(L ₁₀ and L ₉₀ will be recorded for reference)	a week

5.3.2 The schedule of noise monitoring in reporting period is provided in Appendix G.

Water Quality

- 5.3.3 In accordance with the recommendations of the EIA, water quality parameters comprising: (i) suspended solids (SS); (ii) turbidity in Nephelometric Turbidity Units (NTU); (iii) dissolved oxygen (DO) in mg/L; and (iv) pH, shall be measured by the Environmental Team (ET).
- 5.3.4 In association with the water quality parameter measurements, relevant data shall also be measured, including the monitoring location/position, time, water depth, water temperature, salinity, DO saturation, weather conditions if appropriate, and any special phenomena and work underway at the construction site.
- 5.3.5 The Impact Monitoring shall be taken at the designated monitoring stations when construction works in the relevant Works Sections, designated working area (WA) and stockpiling area (SA) is ongoing. The monitoring shall be conducted at least 3 times a week and the interval between two sets of monitoring shall not be less than 36 hours. The parameters to be monitored, the monitoring procedures and equipment shall be the same as the Baseline Monitoring. The Impact Monitoring at a particular Works Section shall not be ceased with the ER, IEC and EPD agreement.
- 5.3.6 The schedule of water quality monitoring in reporting period is provided in Appendix G.

5.4 Monitoring Locations

Noise

5.4.1 The noise monitoring locations are summarised in Table 5.3 and shown in Figure 2a-2b.

Table 5.3 Noise Monitoring Locations and Type of Measurement

NSRs*	Monitoring Location	Type of Measurement#
NSR1	Columbarium of Po Lin Monastery	Free-field
NSR5	Village House No. 49A	Free-field
NSR8	Village House No. 34	Façade

^{*} NSRs: Noise Sensitive Receivers

Water Quality

5.4.2 The water quality monitoring locations are shown in Table 5.4 and Figure 2c.

Table 5.4 Water Quality Monitoring Locations

				Relevant Works	
Station	Туре	Easting	Northing	Section*	Remark
WS1-R1	Upstream reference	808664	813130	WS1/SA1	R2 in EIA
WS1-I1	Downstream impact	808535	813094	WS1/SA1	
WS1-R2	Upstream reference	808524	813134	WS1	W2 in EIA
WS1-I2	Downstream impact	808528	813101	WS1	
WS4-R3	Upstream reference	808214	813003	WS4/SA2	
WS4-I3	Downstream impact	808196	813042	WS4/SA2	
WS5-R4	Upstream reference	808096	813076	WS5/SA3	
WS5-I4	Downstream impact	808055	813115	WS5/SA3	
WS6-R5	Upstream reference	807983	813158	WS6/WA3	
WS6-15	Downstream impact	807919	813155	WS6/WA3	
WS6-C1	Intermediate Control	807813	813214	WS6/SA4	W8 in EIA
WS6-R6	Upstream reference	807727	813249	WS6/WA4	
WS6-I6	Downstream impact	807762	813285	WS6/WA4	W9 in EIA

^{*} Please refer to Figures 2.9a-2.9g of the EIA Report for the relevant Works Section (WS), and/or designated works area (WA) and stockpiling area (SA).

[#]For Free-field measurement, +3dB(A) should be added to the measured results.

5.5 Results and Observations

Noise

5.5.1 The monitoring data are summarized in Table 5.5. Detailed monitoring data and graphical presentations are shown in Appendix H1.

Table 5.5 Summary of Noise Monitoring Results

NSR	М		toring R lange) ⁽²		Action Level	Limit Level ⁽¹⁾
NSR1 Columbarium of Po Lin Monastery	51.9	-	68.9	dB(A)		70 dB(A)
NSR5 Village House No. 49A	55.5	-	60.4	dB(A)	When one documented complaint is received.	75 dB(A)
NSR8 Village House No. 34	51.8	-	59.3	dB(A)	_	75 dB(A)

Note:

Water Quality

5.5.2 The monitoring data are summarized in Table 5.6. Detailed monitoring data and graphical presentations are shown in Appendix H2.

Table 5.6 Summary of Water Quality Monitoring Results

Parameter(s))		DO in	mg/	L				Turbidity	/ in M	NTU				pl	Н				Susp	ended Sc	olids	in mg/L	
Station(s)	Min	-	Max	(Mean)	Min	-	Max	(Mean)	Min	-	Max	(Mean)	Min	-	Max	(Mean)
WS1-R1	7.38	-	7.57	(7.45)	1.79	-	7.75	(3.60)	6.60	-	6.90	(6.75)	1.00	-	12.50	(5.00)
WS1-I1	7.37	-	7.63	(7.49)	1.80	-	8.00	(3.19)	6.60	-	6.90	(6.76)	1.00	-	5.50	(2.92)
WS1-R2	7.50	-	7.79	(7.59)	1.06	-	3.41	(2.11)	6.50	-	6.90	(6.80)	1.00	-	4.00	(1.96)
WS1-I2	7.28	-	7.73	(7.56)	1.00	-	3.60	(1.98)	6.60	-	6.80	(6.75)	1.00	-	3.50	(2.18)
WS4-R3																								
WS4-I3																								
WS5-R4	6.81	-	7.48	(7.19)	1.90	-	17.00	(4.45)	6.70	-	7.10	(6.91)	1.00	-	3.00	(1.54)
WS5-I4	6.77	-	7.45	(7.18)	2.00	-	17.10	(4.52)	6.70	-	7.00	(6.91)	1.00	-	7.50	(1.88)
WS6-R5	6.82	-	7.57	(7.24)	2.40	-	12.30	(4.63)	6.70	-	7.00	(6.88)	1.00	-	7.00	(2.15)
WS6-I5	6.72	-	7.52	(7.21)	2.40	-	11.90	(4.54)	6.70	-	7.00	(6.87)	1.00	-	7.50	(2.50)
WS6-C1	6.44	-	7.13	(6.81)	2.00	-	7.30	(3.19)	6.30	-	8.00	(6.92)	1.00	-	6.50	(1.96)
WS6-R6	6.58	-	7.46	(7.07)	1.80	-	7.80	(4.50)	6.90	-	7.00	(6.95)	1.00	-	5.50	(2.08)
WS6-I6	6.66	-	7.43	(7.05)	1.90	-	7.70	(4.41)	6.90	-	7.00	(6.95)	1.00	-	8.00	(2.46)

Remark:

1) Monitoring location dried up and detailed refer to Appendix H2.

^{(1) 75} dB(A) for residential premises and 70 dB(A) for educational institutions, kindergartens, nurseries and all others where voice communication.

⁽²⁾ Leq_(30min) in dB(A), 0700-1900 hrs in normal weekdays.

⁽³⁾ Free-field correction applied at NSR1 & NSR5.

Other factor influencing the monitoring results

Noise

5.5.3 There were no other noticeable external factors generally affecting the monitoring results in this reporting period.

Water Quality

- 5.5.4 The monitoring results may influence by the vicinity of the monitoring station or changes in the ambient conditions (e.g. rainstorms in the wet season).
- 5.6 Comparisons of Monthly EM&A Data with the EIA Predictions

Noise

5.6.1 The EM&A data was compared with the EIA predictions as summarized in Tables 5.7.

Table 5.7 Comparison of Noise Monitoring Data with EIA Predictions

NSR	Predicted Mi Construction Noi	-	Мс	Monitoring Results (Range)						
NSR1 Columbarium of Po Lin Monastery	55 - 70	dB(A)	51.9	- 68.9	dB(A)					
NSR5 Village House No. 49A	48 - 86	dB(A)	55.5	- 60.4	dB(A)					
NSR8 Village House No. 34	51 - 73	dB(A)	51.8	- 59.3	dB(A)					

Note

5.6.2 The monitoring results in the reporting period in NSR1, NSR5 and NSR8 were within or below the ranges of the predicted mitigated construction noise levels in the EIA Report.

Water Quality

As no water quality prediction in EIA report, the ET will continue to implement the environmental monitoring & audit programme in accordance with the EM&A Manual and Environmental Permit requirements. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

⁽¹⁾ Predicted Mitigated Construction Noise Levels refer to EIA Report Table 4.11.

6. NON-COMPLIANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

6.1 Non-compliance (Exceedances)

Noise

6.1.1 No Action or Limit Level Exceedance of monitoring was recorded in the reporting period.

Water Quality

- 6.1.2 No Action or Limit Level Exceedance of monitoring was recorded in the reporting period.
- 6.2 Complaints Received
- 6.2.1 No complaints, were received in the reporting period.
- 6.3 Notification of Summons and Successful Prosecution
- 6.3.1 No notification of summons or successful prosecutions were received in the reporting period.
- 6.3.2 The Cumulative exceedances, complaint log, notification of summons and successful prosecutions are presented in Appendix I.

7. FUTURE KEY ISSUES

- 7.1 Construction Works for Next Three Month
- 7.1.1 During the next three month reporting period, the principal work activities within the site included:

Portion A

- Receiving Pit excavation
- TBM operation

Portion B

- Excavation of box culvert
- Launching pit excavation
- TBM operation
- 7.1.2 The anticipated impact of principal work activities within the site and the recommended mitigation measures are shown in Appendix B3.
- 7.2 Monitoring Schedules for Next Three Month
- 7.2.1 The tentative schedules for environmental monitoring for next three month are provided in Appendix G.

8. COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

Effectiveness and Efficiency of Mitigation Measures

8.1.1 The regularly site inspections and environmental impact monitoring ensured that all the environmental mitigation measures recommended in EM&A Manual were effectively implemented. Despite the deficiencies found during site audits, the Contractor had taken appropriate actions to rectify deficiencies within a reasonable timeframe, and no exceedance related to the project was observed. Therefore, the effectiveness and efficiency of the mitigation measures were considered satisfactory for most of the time.

Improvement in the EM&A Programme

8.1.2 The EM&A programme was considered successfully and adequately conducted in the reporting period.

Conclusions

8.1.3 This is the 21st monthly EM&A Report which summaries the results and findings of the EM&A programme required for the Project from 1 September and 30 September 2022.

Noise

8.1.4 No Action or Limit Level Exceedance of monitoring was recorded in the reporting period.

Water Quality

8.1.5 No Action or Limit Level Exceedance of monitoring was recorded in the reporting period.

Complaint, Notifications of Summons and Successful Prosecutions

- 8.1.6 No complaints were received in the reporting period.
- 8.1.7 No notification of summons or successful prosecutions were received in the reporting period.
- 8.1.8 There was no reporting change required in the reporting period.
- 8.1.9 Potential environmental impacts due to the construction activities will be monitored or reviewed. The ET will continue to implement the environmental monitoring & audit programme in accordance with the EM&A Manual and Environmental Permit requirements. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

Figure 1 Project Location

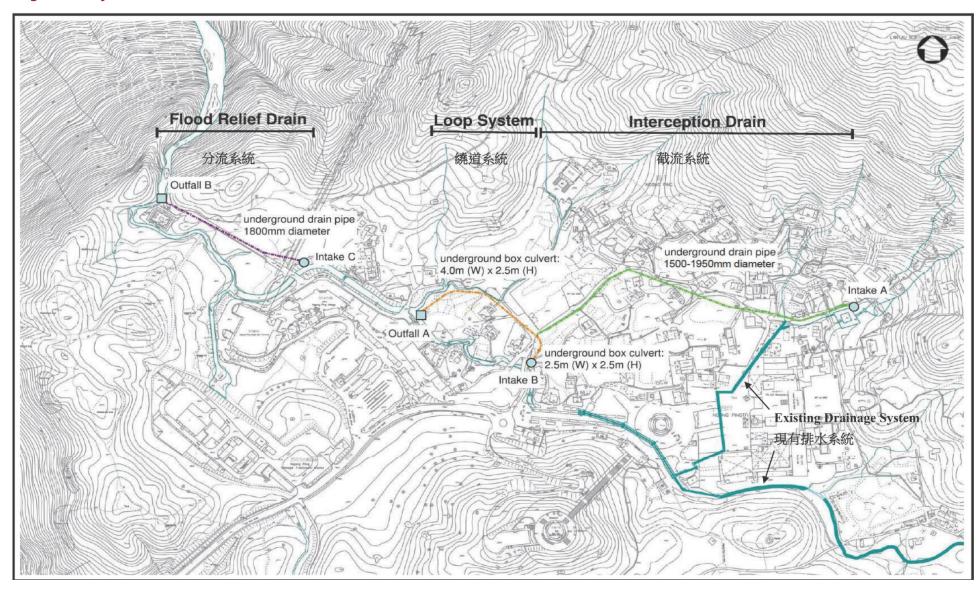


Figure 2a Noise Monitoring Locations (Part 1)

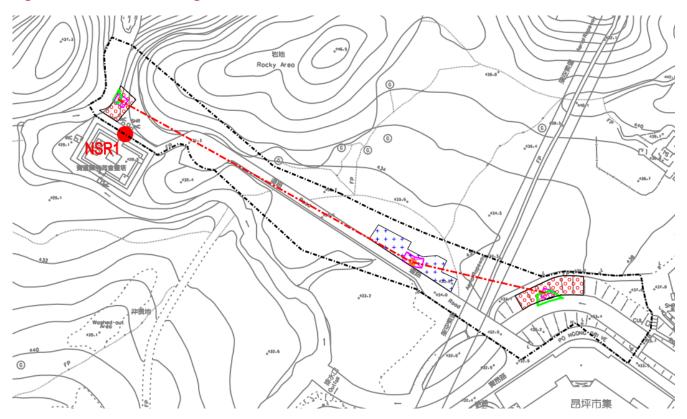
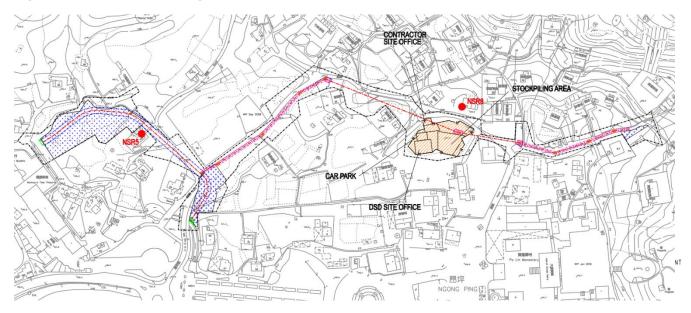


Figure 2b Noise Monitoring Locations (Part 2)

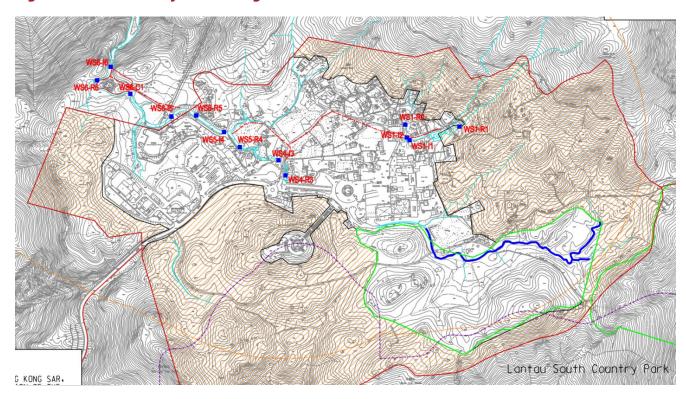


NSRs*	Monitoring Location	Type of Measurement#	
NSR1	Columbarium of Po Lin Monastery	Free-field	
NSR5	Village House No. 49A	Free-field	
NSR8	Village House No. 34	Façade	

^{*} NSRs: Noise Sensitive Receivers

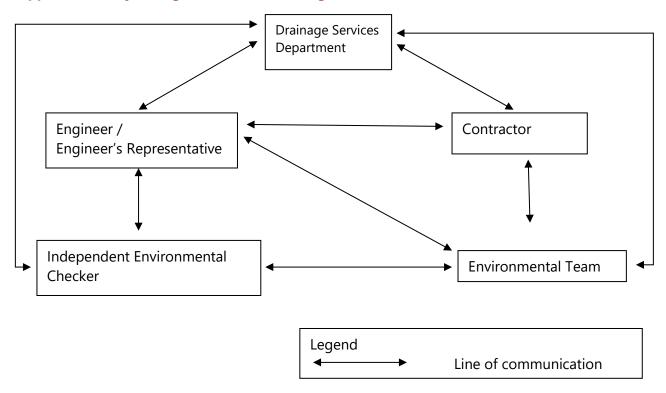
[#] For Free-field measurement, +3dB(A) should be added to the measured results.

Figure 2c Water Quality Monitoring Locations



Station	Туре
WS1-R1	Upstream reference
WS1-I1	Downstream impact
WS1-R2	Upstream reference
WS1-I2	Downstream impact
WS4-R3	Upstream reference
WS4-I3	Downstream impact
WS5-R4	Upstream reference
WS5-I4	Downstream impact
WS6-R5	Upstream reference
WS6-15	Downstream impact
WS6-C1	Intermediate Control
WS6-R6	Upstream reference
WS6-I6	Downstream impact

Appendix A Project Organization and Management Structure



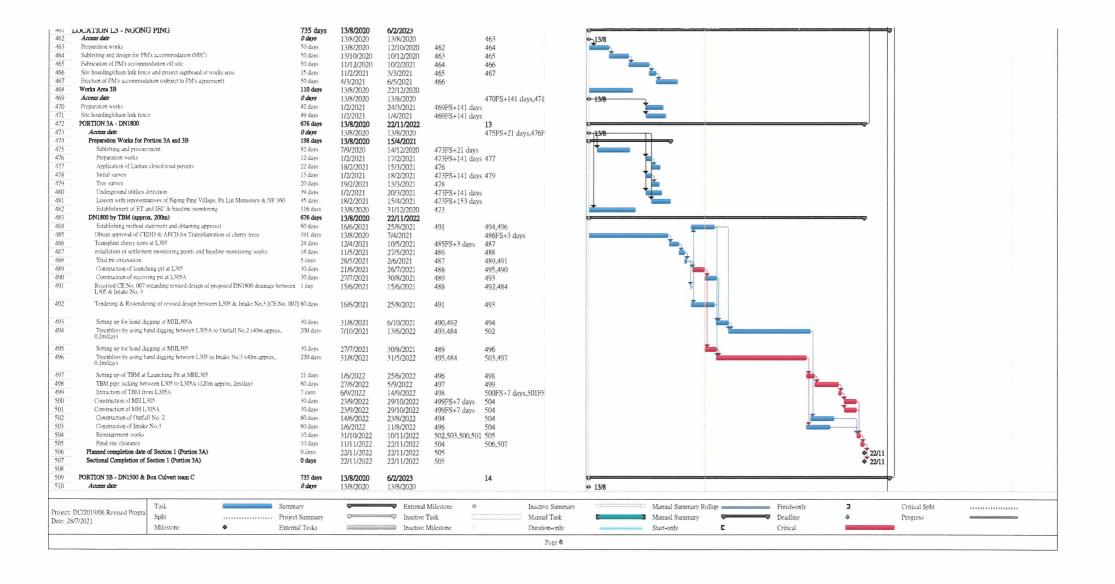
Note: Detailed key personnel contact names and telephone numbers refer to Table 1.1.

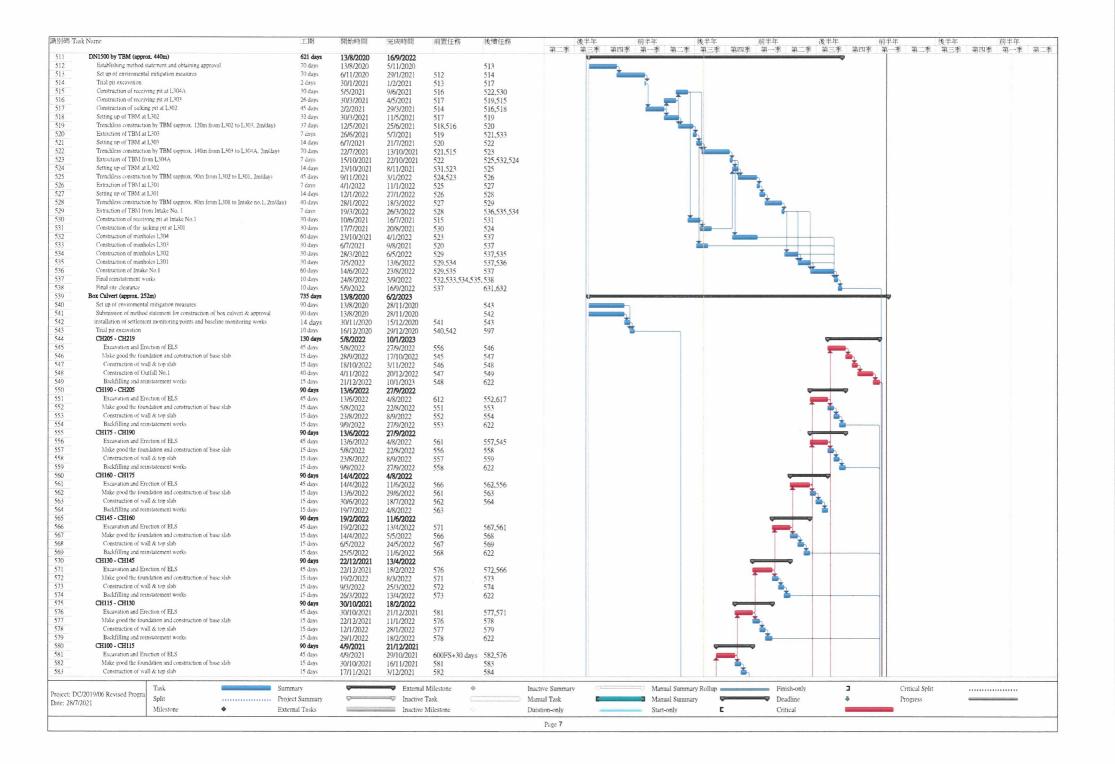
Drainage Improvement Works at Ngong Ping Monthly EM&A Report

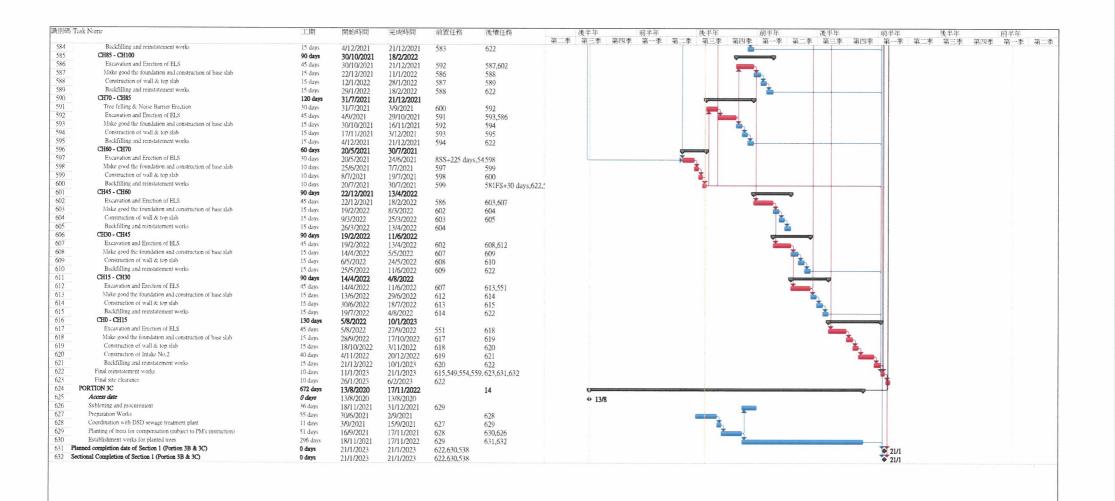
Appendix B1 Construction Programme

識別碼 Task	Name	工期	開始時間	完成時間	前置任務	後續任務	*** (#:	後半年第三季		前半年 第一季	第二季	後半年	*ttrm €	前半年	物一条	後半年 第三季	物m未	前半年	常一条	後半年	'Yarm ≄a	前半年 第一季	***一条
1 DC/	2019/06 Revised Programme of 13 Apr 2021 (Submitted DSD)	1038 days	13/8/2020	11/2/2024			弗—李	来二字	来四字	弗一芋	- 第一字	弗二字	来四字	第一字	粉一芋	- 第二子	第四字	- 第一子	90-3-	- 第二子	第四子		カーチ
	ONTRACT KEY DATES Clause X5 Sectional Completion Date Data DC/2019/06 Starting Date Duration of Sectional Works in Calendar Days After Starting Date	1038 days 1038 days 0 days 1038 days	13/8/2020 13/8/2020 13/8/2020 13/8/2020	11/2/2024 11/2/2024 13/8/2020 11/2/2024				♦ 13/8															
7	Works Duration of Section 1 (Portion 3A) Works Duration of Section 2 (Portion 3B & 3C)	520 days 672 days	13/8/2020 13/8/2020	18/5/2022 17/11/2022		597SS+225 days																	
9	Works Duration of Section 2 (Portion 1C, 1D, 1E & 1F)	593 days	13/8/2020	13/8/2022		39733+223 uays		MATERIAL STATES															
10	Works Duration of Section 4 (Portion 1A & 1B)	445 days	13/8/2020	12/2/2022				1000															
11	Works Duration of Section 5 (Portion 2A & 2B)	1038 days	13/8/2020	11/2/2024					STATE OF THE PERSON	Name and Address of	Name and Post of	and the same of	-	and the state of	Name and Address of the	CANADA TORONTO	and the second second	AND DESCRIPTIONS AND	AND DESCRIPTION OF THE PERSON NAMED IN	The Real Property lies	Contract of the Parket	and the same of	
12 13 14	Completion Date of Sectional Works	588 days	18/2/2022	11/2/2024				1						-					Andrew Management		*****		
13	Date of Completion of Works under Section 1 (Portion 3A)	0 days	22/11/2022	22/11/2022	472	19											4 2						
14	Date of Completion of Works under Section 2 (Portion 3B & 3C)	0 days	6/2/2023	6/2/2023	509.624	20											. 1	6/2					
15	Date of Completion of Works under Section 3 (Portion 1C, 1D, 1E & 1F)	0 days	13/8/2022	13/8/2022	204,274,289,29	06 21										* 13	/8						
16	Date of Completion of Works under Section 4 (Portion 1A & 1B)	0 days	18/2/2022	18/2/2022	124	22		1						\$_18	V2								
17	Date of Completion of Works under Section 5 (Portion 2A & 2B)	0 days	11/2/2024	11/2/2024	306,453	23								Т								4 11/2	Ł
18	Project Completion Date	588 days	19/2/2022	11/2/2024																	eriori, Mila Citibari de Casa	— 7	

識別碼 Task Name	丁 ##8	BHACACTERI	今世世中	治行 523 / 工 327	66.681T Z2	546 NE CE	state and after	54. M. tr.	100 Me for	56. M4 CH	100 Mc 610	64. M6 /m	前半年
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ject: DC/2019/06 Revised Progra	Task	Service of the Servic	Summary	~	External Milestone	\$	Inactive Summary		Manual Summary Rollup		Finish-only	3	Critical Split	
e: 28/7/2021	Split		Project Summary	\Diamond	Inactive Task		Manual Task		Manual Summary	-	Deadline	4	Progress	
C. 20 112021	Milestone	•	External Tasks		Inactive Milestone		Duration-only	where the same state of the sa	Start-only	С	Critical			

Appendix B2 Works Undertaken Illustrations

Portion B - TBM operation (L305A) Portion C - Excavation Works (Bay 9) - Excavation Works (Intake No. 1)

Appendix B3 Proactive Environmental Protection or Control Measures for Next Three Month

Activity Impact	Excavation of Trench or Pit	Pipe Lining	Installation of Drainage Pipe	Box culvert	ТВМ	Control Measures
Air Pollution Nuisance	1	1	1	1	1	Use of regular watering to reduce dust emissions Open stockpiles shall be avoided or covered.
Noise Nuisance	1	1	,		,	Use of quieter plant (QPME) Use suitable acoustic enclosure. Installation of a fixed noise barrier.
Water Nuisance		1		1	1	- Intercept the surface runoff by sand bag or etc Treat the wastewater before discharge.
Waste Nuisance		1	,		,	The site and surroundings shall be kept tidy and litter free. General refuse arising on-site should be stored in enclosed bins separately from C&D and chemical wastes Recycle as many C&D materials as possible on-site
Ecology	,	1	,	1		- avoid damage and disturbance to the remaining and surrounding natural habitat - construction activities should be restricted to the proposed works boundary

Moreover, the ET will continue to implement the environmental monitoring & audit programme in accordance with the EM&A Manual and Environmental Permit requirements. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

Appendix B4 Waste Flow Table

Name of Department: DSD Contract No.: DC/2019/06

Monthly Summary Waste Flow Table for 2022

Contract Title: Drainage Improvement Works in Northern Territories (remaining works), Southern Hong Kong Island & Ngong Ping Location: L3 - Ngong Ping

LUCATION.	L3 - Ngung ring											
Month	Quantities of Inert C&D Materials Generated							Quantities of Non-inert C&D Materials Generated				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastic (see Note 3)	Chemical Waste	Other, e.g. General Refuse	
	(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)	
January	1555.34	0.00	0.00	0.00	1554.33	0.00	0.00	0.00	0.00	0.00	1.01	
February	554.11	0.00	0.00	0.00	554.11	0.00	0.00	0.00	0.00	0.00	0.00	
March	2300.12	0.00	0.00	0.00	2295.71	0.00	0.00	0.00	0.00	0.00	4.41	
April	2501.62	0.00	0.00	0.00	2501.62	0.00	0.00	0.00	0.00	0.00	0.00	
May	923.81	0.00	0.00	0.00	919.56	0.00	0.00	0.00	0.00	0.00	4.25	
June	592.48	0.00	0.00	0.00	590.04	0.00	0.00	0.00	0.00	0.00	2.44	
Sub-total	8427.48	0.00	0.00	0.00	8415.37	0.00	0.00	0.00	0.00	0.00	12.11	
July	578.54	0.00	0.00	0.00	575.81	0.00	0.00	0.00	0.00	0.00	2.73	
August	1224.84	0.00	0.00	0.00	1222.98	0.00	0.00	0.00	0.00	0.00	1.86	
September	2065.04	0.00	0.00	0.00	2061.14	0.00	0.00	0.00	0.00	0.00	3.90	
October	0.00											
November	0.00											
December	0.00											
Yearly Total	12295.90	0.00	0.00	0.00	12275.30	0.00	0.00	0.00	0.00	0.00	20.60	

Monthly Forecast of Total Quantities of C&D Materials to be Generated from the Contract (for October 2022)										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastic (see Note 3)	Chemical Waste	Other, e.g. General Refuse
(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)	(0.00tonne)
1510.00	0.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	10.00

Notes: (1) The performance targets are given in PS Clause 1.104(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

Appendix C1 EP-456/2013/B Conditions

Summary Table for Status of Compliance / Required Submission

Submission(s)	Submission Date	Approval Status	
		Approved	
Landscape Plan (Rev. G)	02/03/2021	on	
		23/03/2021	
	At least one month		
Landscape as-built drawing(s)	before the Project	*	
	commences operation		
Updated Baseline Vegetation Survey Report (Rev. E)	19/02/2021	*	
Floral Protection Plan (Rev. J)	04/04/2021	*	
Floral Transplantation Plan (Rev. E)	11/12/2020	*	
Aquatic Fauna Translocation Plan (Rev. H)	24/12/2020	*	
Aquatic Fauna Translocation	02/02/2021	*	
Survey Report (Rev. B)	02/03/2021		
Noise Baseline Monitoring Report (Rev. A)	30/10/2020	*	
Water Quality Baseline Monitoring Report (Rev. D)	29/01/2021	*	
Monthly EM&A Report (August 2022)	16/09/2022	*	
	Landscape Plan (Rev. G) Landscape as-built drawing(s) Updated Baseline Vegetation Survey Report (Rev. E) Floral Protection Plan (Rev. J) Floral Transplantation Plan (Rev. E) Aquatic Fauna Translocation Plan (Rev. H) Aquatic Fauna Translocation Survey Report (Rev. B) Noise Baseline Monitoring Report (Rev. A) Water Quality Baseline Monitoring Report (Rev. D)	Landscape Plan (Rev. G) At least one month before the Project commences operation Updated Baseline Vegetation Survey Report (Rev. E) Floral Protection Plan (Rev. J) Floral Transplantation Plan (Rev. E) Aquatic Fauna Translocation Plan (Rev. H) Aquatic Fauna Translocation Survey Report (Rev. B) Noise Baseline Monitoring Report (Rev. D) O2/03/2021 At least one month before the Project commences operation 19/02/2021 19/02/2021 11/12/2020 24/12/2020 24/12/2020 30/10/2021	

Remarks: * Approval not required in EP-456/2013/B

Appendix C2 Mitigation Measures Implementation (Construction Phase)

	Status
A) Air Quality Watering once per hour for 12 hours a day at exposed soil in all active works areas and paved haul roads to reduce dust emissions	
by 91.7%. The amount of water to be applied would be 0.25L/m² for the respective watering frequency.	٨
Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices:	
 Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather; 	۸
 Use of frequent watering for particularly dusty construction areas and areas close to ASRs; 	^
 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;	٨
 Open stockpiles shall be avoided or covered. Prevent placing dusty material storage piles near ASRs; 	۸
■ Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations;	۸
 Establishment and use of vehicle wheel and body washing facilities at the exit points of the site; 	٨
 Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit; 	^
Routing of vehicles and position of construction plant should be at the maximum possible distance from ASRs;	^
 Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting 	
or placed in an area sheltered on the top and the 3 sides;	^
 Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked 	N/A
with the material filling line and no overfilling is allowed; and	11//
■ Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system	N/A
or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.	11/71
B) Noise	
The use of quieter plant (QPME) is specified for the list of equipment:	
■ Tracked excavator fitted with hydraulic rock breaker; ■ Concrete lorry mixer; ■ Tracked mobile crane (132kW, 55t);	
■ Dump Truck; ■ Tracked excavator (14t); ■ Generator, Super Silenced, 70 dB(A) at 7m; ■ Poker vibratory;	٨
■ Hand Held Electric Circular Saw, 150mm Blade with SWL of 103dB(A) or less;	^
■ Electric Chain-Saw, Hand-held; and ■ Water Pump, Submersible (Electric).	
For the Columbarium (NSR1), the vertical gaps along of edge of the solid boundary wall facing the works area WA4 should be	NI /A
covered with acoustic fabric or small barrier for noise screening.	N/A
The use of temporary noise barrier / enclosure are specified for the list of equipment:	
■ Bar Bender and Cutter (Electric) - Noise Enclosure	
■ Tracked excavator fitted with hydraulic rock breaker - Temporary Noise barrier;	
■ Tracked excavator (14t) - Temporary Noise barrier	^
■ Generator, Super Silenced, 70 dB(A) at 7m - Noise Enclosure; and	
■ Hand Held Electric Circular Saw, 150mm Blade - Noise Enclosure.	
Installation of a fixed noise barrier of 3m in height between the NSR5 and the open cut trench (Activities 4 and 4+ at Works	N/A
Section 5)	
Implementation of further good site practices:	
■ Only well-maintained plant should be operated on- site and PME should be serviced regularly during the construction	^
programme;	
■ Silencers or mufflers on construction equipment should be utilised and properly maintained throughout the construction	^
programme;	
Any mobile PME should be sited as far from NSRs as possible;	^
Machines and PME that may be in intermittent use should be shut down between work periods or should be throttled down to	٨
	^
PME known to emit noise strongly in one direction should be orientated to direct away from the nearby NSRs;	
■ Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site	^
construction activities;	^
■ Use of acoustic enclosure, in accordance with EPD's A Practical Guide for the Reduction of Noise from Construction Works; and	
Re-scheduling of works should be considered to ameliorate the residual impact.	
C) Water Quality	
In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94), construction phase mitigation measures shall include the following:	۸
■ At the establishment of Site Office (SO), works area (WA1 and WA2) and stockpiling areas (SA1, SA2, SA3 and SA4 ; (see Figures 2.9a-2.9g), perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided to divert the stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the Contractor prior to the commencement of construction;	٨
■ Dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary	

Environmental Protection Measures (Construction Phase) (1) Status ■ While ProPECC PN 1/94 requires construction works should be programmed to minimise surface excavation works during rainy seasons (April to September). By the nature of the pipe laying works, it is considered not practicable to avoid excavation works in the wet season as this would substantially affect the overall construction programme. However, for works at areas that directly interface with the existing watercourses, excavation works shall avoid the rainy season as far as possible. These include Intake A interfacing the stream, Intake B interfacing the U channel, Outfall A interfacing the gabion channel, Intake C/RP3 interfacing the gabion channel and Outfall B/RP4 interfacing Ngong Ping Stream (see Figures 2.9a-2.9g). For the works in the above listed areas, an impermeable cofferdam or similar barrier to the level above the stream bank shall be erected to completely enclose these areas before any works are undertaken. This will ensure that any contaminated runoff from the works areas will not get into the ambient watercourses. These barriers shall not be removed until the interfacing works and the relevant upstream connected drains have been completed. All exposed earth areas should be completed and vegetated as soon as possible after the earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable; ■ Exposed slope surfaces should be covered by tarpaulin or other means during the rainy season; ■ The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps should be 5 minutes under maximum flow conditions. The sizes may vary depending upon the flow rate, but for a flow rate of 0.1m³/s, a sedimentation basin of 30m³ would be required and for a flow rate of 0.5m³/s the basin would be 150m³. The detailed design of the sand/silt traps should be undertaken by the contractor prior to the commencement of construction; The overall slope of works sites should be kept to a minimum to reduce the erosive potential of surface water flows, and all trafficked areas and access roads should be protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during the prolonged periods of inclement weather and the reduction of surface sheet flows: All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure their proper and efficient operation at all times particularly following rainstorms. Deposited silts and grits should be removed regularly and disposed of proper waste receiving facilities. As the area is within the water gathering grounds, on-site disposal of silts/grits shall not be allowed; ■ Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet season is inevitable, they should be dug and backfilled in short sections wherever practicable. The water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers; Precautions to be taken at any time of the year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted and during or after rainstorms, are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes; ■ All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facilities should be provided at the exit of every construction site where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel- washing bay to public roads should be paved with sufficient backfall toward the wheel-washing bay to prevent vehicle tracking of soil and silty water to public roads and drains; ■ Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources. Oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental N/O spillage. A bypass should be provided for oil interceptors to prevent flushing during heavy rain; Stockpiled material shall be covered by tarpaulin and /or watered as appropriate to prevent windblown dust and surface run off. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system; ■ Major stockpiled areas shall be sited outside of the country parks area (Works Section 6) and away from stream courses as far as practicable. For the stockpiling area SA4 within the country park area, stockpiling of earthed material shall be minimised and excavated soil from Works Section 6 shall be delivered to the Site Office as soon as possible. Similarly, overnight stockpiling of earthed material along the exposed trench shall be minimised as far as possible and the excavated soil shall be transferred to the designated stockpiling area as soon as possible; ■ The Contractor shall comply with WSD's General Conditions for Working within Water Gathering Grounds as applicable; The construction solid waste, debris and rubbish on-site should be collected, handled and disposed of properly to avoid causing any water quality impacts. The requirements for solid waste management are detailed in Section 9 of this EIA report; and All fuel tanks and chemical and bentonite storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching the nearby WSRs. There is a need to apply to the 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. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. It should particularly noted that the TM-DSS specifically **prohibits** the discharge of the following substances into the inland waters: N/A ■ polychlorinated biphenyls (PCB); ■ polyaromatic hydrocarbon (PAH); ■ fumigant, pesticide or toxicant; ■ radioactive substances; ■ chlorinated hydrocarbons; ■ flammable or toxic solvents; ■ petroleum oil or tar; ■ calcium carbide; ■ wastes liable to form scum, deposits or discoloration; ■ sludge or solid refuse of any kind; and ■ detergents in Group A inland waters only. The beneficial uses of the treated effluent for other on- site activities such as dust suppression, wheel washing and general cleaning etc, can minimise water consumption and reduce the effluent discharge volume and shall be encouraged. If monitoring of

	Status
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. In addition to compliance with the discharge licence requirement, to prevent bank side erosion, the discharge of site effluents shall	
be either at existing storm drains or artificial channels. No effluent or treated surface runoff shall be allowed to discharge at	N/A
natural stream course.	
The use of bentonite slurries shall be minimised as far as possible. In addition to the requirement of a peripheral bunds and	
drainage system for the WA4 and SO, where the bentonite slurries will be used, to prevent any accidental release of bentonite	
slurry from getting into the surrounding environment, the following specific control measures shall be followed to reduce the risk	
and impacts of accidental spillage: All bentonite slurry should be stored in a container that resistant to corrosion, maintained in good conditions and securely	
closed;	^
■ The container should be labelled in English and Chinese and note that the container is for storage of bentonite slurry only;	^
■ The storage container should be placed on an area of impermeable flooring and bunded with capacity to accommodate 110%	^
of the volume of the container size or 20% by volume stored in the area and enclosed with at least 3 sides; and	
Sufficiently covered to prevent rainfall entering the container or bunded area (water collected within the bund must be tested	٨
and disposed of as chemical waste, if necessary). In order to reduce the possibility of frac-out, detailed ground investigation shall be undertaken to evaluate the likelihood of frac-	
out and if necessary advanced ground treatment applied before the commencement of the pipe jacking works. A member of the	
Contractor's site staff shall, also, be dedicated to closely monitor the ground surface above the pipe jacking head for any frac-outs	
release. The pipe jacking works and application of bentonite shall immediately stop if frac- outs are observed. Any frac-out shall be	^
immediately cleaned or bunded to prevent spreading of the bentonite slurry. The Contractor shall immediately notify the Engineer	
and propose rectification measures to prevent further frac-out to the satisfaction of the Engineer before pipe jacking works resume. An emergency clean up kit shall be readily available at Works Section 2 and 6 where pipe jacking will be undertaken.	
The handling and disposal of bentonite slurries should be undertaken in accordance within ProPECC PN 1/94. Surplus bentonite	
slurries used in construction works shall be reconditioned and reused wherever practicable. Residual bentonite slurry shall be	
disposed of from the site as soon as possible as stipulated in Clause 8.56 of the General Specification for Civil Engineering Works.	٨
The Contractor should explore alternative disposal outlets for the residual bentonite slurry (dewatered bentonite slurry to be	
disposed to a public filling area and liquid bentonite slurry if mixed with inert fill material to be disposed to a public filling area) and disposal at landfill should be the last resort.	
The 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)	٨
Regulation should be observed and complied with for control of chemical wastes.	
Any maintenance facilities should be located outside Works Section 6 in the Lantau North Country Park. Such 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. All maintenance activities which may generate chemical waste shall be undertaken in the Site	^
Office area, as far as possible.	
Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Waste Disposal Ordinance	
(Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed	
and complied with for control of chemical wastes. 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	٨
transport;	
■ Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid	٨
accidents; and	
Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.	^
In order to minimise the risk of accidental spillage, the use and storage of oils/chemicals/waste should be limited to absolute	^
minimum volume and are to be removed from sites at the earliest opportunity. However, all chemical waste, fuels and oils shall be stored at the Site Office (SO), to minimise impact to the Lantau North Country Park and water gathering grounds.	
In order to protect against an accidental spillage of fuel or oil, the Contractor will be required to prepare a spill response plan to	٨
the satisfaction of AFCD, EPD, FSD, HyD, Police, TD and WSD to define procedures for the control, containment and clean-up of any	
spillage that could occur on the construction site.	
At all times, the Contractor shall comply with WSD's General Conditions for Working within Water Gathering Grounds as applicable.	^
The sewage of the site office will be connected the existing sewer networks and be treated at the Ngong Ping STW. Portable	^
chemical toilets and sewage holding tanks are recommended for the handling of the construction sewage generated by the workforce at other works area. The use of temporary toilets within the water gathering ground, however, is also subject to the	
approval of Water Services Department. A licensed contractor should be employed to provide appropriate and adequate	
portable toilets and be responsible for appropriate disposal and maintenance	
The Outfall A and Intake C and associated works areas are within the gabion channel, the construction and operation of which was	
previously governed by the Environmental Permit EP-192/2004. While the EP was surrendered in May 2007, the currently proposed	
works at these locations shall, also, comply with the specific conditions of the EP (see Section 2.7 of this Report) as far as possible	٨
and in particular avoid works in the rainy period between April and September so as to minimise potential water quality pollution to the lowest possible.	
to the lowest possible.	

	Status
D) Ecology	
Good construction practice measures which should be implemented and should include:	
avoid damage and disturbance to the remaining and surrounding natural habitat;	^
placement of equipment in designated areas within the existing disturbed land;	^
spoil heaps should be covered at all times;	^
 construction activities should be restricted to the proposed works boundary; and 	^
disturbed areas to be reinstated immediately after completion of the works.	٨
Landscape compensatory planting is recommended as mitigation for the loss of landscape and habitat. Recommended Planting Species included:	
Tree	
Cinnamomum burmannii,	
Elaeocarpus sylvestris	
Ficus microcarpa	N1 / A
Pongamia pinnata	N/A
Schefflera heptaphylla	
Sapium discolor	
Minimisation mitigation measures required to protect water quality and the three aquatic faunal species of conservation would comprise controlling surface runoff:	
 All works on the banks of the natural stream should be undertaken within the dry season, where practical; 	N/A
 Perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion 	
and sedimentation control facilities implemented;	N/A
 Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided to 	
divert the stormwater to silt removal facilities;	٨
Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources;	N/A
 Stockpiled material shall be covered by tarpaulin and /or watered as appropriate to prevent windblown dust and surface run off; 	٨
 Overnight stockpiling of earthed material along the exposed trench shall be minimised as far as possible and excavated soil shall 	
be transferred to the designated stockpiling area as soon as possible;	٨
 All bentonite slurry shall be suitably stored in accordance with Section 5.8.8 of this EIA Report to minimise the chance of spillage; 	٨
110% of the storage capacity of the largest tank to prevent spilled fuel oils; and	٨
■ Pipe jacking areas shall be closely monitored for frac-outs release of bentonite and frac-out area immediately cleaned if they	^
occur.	
The particular measures to protect the ecology of the Lantau North Country Park are summarised below:	
Major stockpiled areas shall be sited outside of the country parks area (Works Section 6) and away from stream courses as far as	٨
practicable;	
■ All backfilling material and cement required for this Works Section 6 shall be delivered daily and only the quantity required;	٨
■ No storage of chemicals and waste in Works Section 6; and	٨
■ No construction plant maintenance facilities in Works Section 6.	^
Treated site drainage shall be discharged via the existing drainage system or diverted to the artificial channel to prevent stream bank	^
erosion and directly affect the stream ecology. No site drainage shall be allowed to be discharged at the natural stream bank.	
E) Landscape and Visual	
To maximize protection of existing resources including watercourses existing trees, ground vegetation and the associated understory	
habitats a "No-intrusion Zone" will be designated to various areas within and along the site boundary with rigid and durable fencing	٨
for each individual no-intrusion zone. Regular checks will be carried out to ensure that the work site boundaries are not exceeded,	
hoarding is properly maintained and that no damage is being caused to these protected areas.	
A temporary screen hoarding shall be erected around the north side of the Site Office (SO) area to screen activities from local	^
receivers. It shall be designed and to be compatible with the existing rural context, with visually unobtrusive design and colours	
where appropriate.	
No night time work shall be programmed avoiding light pollution to visual receivers.	^
F) Cultural Heritage	
Four built heritage resources have been identified as being located in close proximity to the proposed works areas, namely, NP-19,	
NP-20, NP-21 and NP-26, as detailed in Appendix G1 and shown in Figures 8.12, 8.13 and 8.15 of the EIA Report. The structures may	
be damaged by contact with machinery and equipment. The recommended mitigation measures for each resource are as follows:	
■ A buffer zone of a minimum of 5 metres in size (or if due to site/engineering constraints, as large as possible buffer zone should be provided) should be marked out for NP-19, NP-20, NP-21 and NP-26 by temporary fencing and placed around the structures 2	٨
weeks prior to the construction works commencing.	
Three built heritage resources have been identified as being in close proximity to an excavation area (NP-10, NP-11 and NP-19), a	
condition survey must be carried out by a qualified building surveyor or engineer one month in advance of works commencing near	
the buildings that may be affected by ground borne vibration. The Condition Survey Report should contain descriptions of the	
	٨
structure, identification of fragile elements, an appraisal of the condition and working methods for any proposed monitoring	
structure, identification of fragile elements, an appraisal of the condition and working methods for any proposed monitoring (including frequency of monitoring) and precautionary measures that are recommended. The Contractor must implement the	

Environmental Protection Measures (Construction Phase) (1)	Status
■ Vibration monitoring should be undertaken for the duration of the construction works based upon the recommendations of the approved Condition Survey Report, which will also define the frequency of monitoring required. The maximum acceptable level of	
vibration will be set at 15 mm/s. Based upon the findings of the condition survey, this limit may be revised for sensitive structures.	
The location of monitoring points should be situated on the structure closest to the construction works, unless the maximum level is set lower than the standard 15 mm/s, in which case monitoring points should be located on each affected structure. Installation	^
of monitoring points must not damage the historic building fabric. The location of monitoring points (and access to the property	
for purposes of measurement) must be agreed with the property owner prior to installation.	
G) Waste Management	
The requirements as stipulated in the ETWB TC(W) No.19/2005 Environmental Management on Construction Sites and the other	
relevant guidelines should be included in the Particular Specification for the Contractor as appropriate.	
The future Contractor should be requested to submit a Waste Management Plan (WMP), which becomes part of the Environmental Management Plan (EMP), prior to the commencement of construction work, in accordance with the ETWB TC(W) No.19/2005 so as	^
to provide an overall framework of waste management and reduction. The WMP should include:	
■ Waste management policy; ■ Record of generated waste; ■ Waste reduction target; ■ Waste reduction programme;	
Role and responsibility of waste management team; Benefit of waste management; Analysis of waste materials; Role and responsibility of waste management team; Role and responsibility of waste management; Analysis of waste materials;	
Reuse, recycling and disposal plans; Transportation process of waste products; and Monitoring and action plan.	
A trip-ticket system should be established in accordance with DevB TC(W) No. 6/2010 and Waste Disposal (Charges for Disposal of Construction Waste) Population to monitor the disposal of public fill and solid wastes at public filling facilities and landfills and to	
Construction Waste) Regulation to monitor the disposal of public fill and solid wastes at public filling facilities and landfills, and to	٨
control fly-tipping. A trip-ticket system would be included as one of the contractual requirements for the Contractor to strictly	
implement. The Engineer would also regularly audit the effectiveness of the system.	
A recording system for the amount of waste generated regulad and disposed (legations) should be established. The fitting	
A recording system for the amount of waste generated, recycled and disposed (locations) should be established. The future Contractor should also provide proper training to workers regarding the appropriate concepts of site cleanliness and waste	^
	,,
management procedures, e.g. waste reduction, reuse and recycling all the time.	
The CEDD should be timely notified of the estimated volumes of excavated materials to be generated and the Public Fill	
Committee should be notified and agreement sort on the disposal of surplus inert C&D materials. Wherever practicable, C&D	^
materials should be segregated from other wastes to avoid contamination and to ensure acceptability at public filling areas or reclamation sites.	
Recommendations for good site practices:	
The site and surroundings shall be kept tidy and litter free;	
No waste shall be burnt on-site;	^
■ Make provisions in contract documents to allow and promote the use of recycled aggregates where appropriate;	^
■ The Contractor will be prohibited to dispose of C&D materials within the proposed site and at any sensitive locations including	^
Lantau North Country Park, the Lantau South Country Park, the Ngong Ping Site of Special Scientific Interest, the Lantau Peak Special	
Area and Site of Special Scientific Interest and the Conservation Area, etc. The Contractor should propose the final disposal sites in	
the EMP and WMP for approval before implementation;	
Stockpiled material shall be covered by tarpaulin and /or watered as appropriate to prevent windblown dust and surface run off;	^
■ Major stockpiled areas shall be sited outside of the country parks area (Works Section 6) and away from stream courses as far as	
practicable. For the stockpiling area SA4 within the country park area, stockpiling of earthed material shall be minimised and	
excavated soil from Works Section 6 shall be delivered to the Site Office as soon as possible. Similarly, overnight stockpiling of	^
earthed material along the exposed trench shall be minimised as far as possible and the excavated soil shall be transferred to the	
designated stockpiling area as soon as possible;	
Excavated material in trucks shall be covered by tarpaulins to reduce the potential for spillage and dust generation;	^
■ Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads;	۸
■ Standard formwork or pre-fabrication should be used as far as practicable so as to minimise the C&D materials arising. The use	
of more durable formwork or plastic facing for construction works should also be considered. The use of wooden hoardings should	^
be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should be carefully	,
planned in order to avoid over-ordering and wastage;	
■ The Contractor should recycle as many C&D materials as possible on-site. The public fill and C&D waste should be segregated	
and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable,	^
the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap	
steel mills. Different areas of the sites should be considered for segregation and storage activities; and	
■ Subject to agreement with Water Service Department, adequate numbers of portable toilets should be provided for on-site	
workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them. Night soil	^
should be regularly collected by licensed collectors.	
Recommendations for waste reduction measures:	
■ General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes.	^
General refuse shall be removed from Works Section 6 within the country park on the regular basis. Sufficient dustbins shall be	
provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws. In addition, general	
refuse shall be cleared regularly and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse	
on construction sites is prohibited;	
■ All waste containers shall be in a secure area on hardstanding;	۸

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Environmental Protection Measures (Construction Phase) (1)	Status
■ Aluminium cans are usually collected and recovered from the waste stream by individual collectors if they are segregated and	۸
easily accessible. Separately labelled bins for their deposition should be provided as far as practicable;	
■ Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a	
local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles,	^
etc should be provided on- site; and	
■ Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedure,	^
including waste reduction, reuse and recycling.	
Chemical waste producers should register with the EPD. Chemical waste should be handled in accordance with the Code of	
Practice on the Packaging, Handling and Storage of Chemical Wastes as follows:	
■ Suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed;	^
■ Having a capacity of <450L unless the specifications have been approved by the EPD;	N/A
■ Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations;	۸
■ Clearly labelled and used solely for the storage of chemical wastes;	۸
■ Enclosed with at least 3 sides;	۸
■ Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of	۸
the chemical waste stored in the area, whichever is greatest;	
■ Adequate ventilation;	^
■ Sufficiently covered to prevent rainfall from entering (water collected within the bund must be tested and disposed of as chemical	^
waste, if necessary);	
■ Incompatible materials are adequately separated;	۸
■ All chemical waste, fuels and oils shall be stored at the Site Office area, to minimise impacts to the Country Park and water	۸
gathering grounds;	
■ All maintenance activities which may generate chemical waste shall be undertaken in Site Office area, as far as possible;	۸
■ The Contractor shall comply with WSD's General Conditions for Working within Water Gathering Grounds as applicable; and	۸
■ Waste oils, chemicals or solvents shall not be disposed of to drain.	۸
<u> </u>	

Remark:

^	Compliance of mitigation measure in the reporting period.
#	Recommendations were made in the reporting period but has not yet been improved/rectified by the Contractor.
Χ	Non-compliance of mitigation measure in the reporting period.
N/A	Not Applicable in the reporting period.
N/O	Not observed in the reporting period.
(1)	Detailed EIA report and EM&A Manual reference refer to the Appendix A of approved EM&A Manual.

Appendix C3 Summary of Site Inspection

Inspection Date	Observations/ Reminders/ Recommendations	Follow Up Action	Completion
Follow Up action(s)	Observations, Reminders, Recommendations	rollow op Action	Date
of	NIL.	N.A	N.A
last reporting month			
Weekly Site Ins	•		
06 (00 (2022	Reminder		
06/09/2022	1) Please increase the frequency of water spray for dust control. (Bay 9-10)		
	Observation		
13/09/2022	1) Sandbags should be replaced along the site boundary. (Bay 1-9)	1) Sand bag was replaced afterwards.	13/09/2022
	2) Tarpaulin sheet should be provided for covering the sands and gravels. (Bay 11)	2) Tarpaulin was provided afterwards.	13/09/2022
	Observation		
20/09/2022	Sandbags should be replaced along the site boundary. (Ba 1)	replaced aπerwards.	
, ,	2) Tarpaulin sheets should be provided under the rock breakers. (Bay 1, Bay 5))	Breaker of the excavato was covered by protection materials afterwards.	
	Observation		
	1) The retained tree should be well-maintained at the sit entrance.	e1) Tree branch was removed afterwards	06/10/2022
	2) NRMM label should be replaced on the excavator. (L304)	2) NRMM label was replaced afterwards.	03/10/2022
27/09/2022	3) Tarpaulin sheet should be provided under the rock breaker (Near L304)	r.3) Protection material was provided afterwards.	27/9/2022
	4) Sandbags should be replaced along the site boundary. (Batha 2) & outfall 1)	y4) Damaged sand bag was replaced afterwards.	03/10/2022
	5) Drip tray should be provided for the blower to prevent o leakage. (outfall 2)	il5) Drip tray was provided afterwards.	28/09/2022
Landscape and	Visual		
06/09/2022	Reminder 1) Please keep TPZ free of construction materials and avoid		
20,100,12022	hanging items on trees.		
20/09/2022			
Cultural Heritage			
	Observation		
20/09/2022	1) Tell-tales (TT1 & TT2) for crack monitoring were removed by the owner at NP-10 due to renovation works.		
	Reminder 1) Follow-up action to the crack monitoring at NP-10 will be subjected to discussion between owner and DSD.		
Quarterly Post-	transplantation Works		
06/09/2022			
-	Protection Measures		
oy i ioiui	Reminder		
06/09/2022	1)The Contractor was reminded to install the signpost on fencing properly	<u></u> _	

Monthly EM&A Report

Cultural Heritage



Contract No. DPW 01/2020 – Environmental Team for Drainage Improvement Works at Ngong Ping (DC/2019/06)

Date: 20/9/222	Weather:	Sunny/ Fine / C	Overcast / Rainy / Hazy	Wind:	Çalm / Light / Breeze / Strong
Time:	Temperature:	_27 ℃		Humidity:	High / Moderate / Low
Monthly Environmental Site Au Observations/ Reminders/ Reco Follow-up of previous of	ommendations / Follow-	up:			
Observation(s)					
	r wack monitoring were veno	wed by the owner o	t NP-10 due to renovation	works.	
9	J	7		200	*
					W Comments
Reminder(s)					
100	Wack mountains at NP-10	ill be entirected to	discussion between owner	and 1000	
THE STATE OF SECTION AS DE	C-OK MODIFIED ON 141-10 D	sii se mojeree is	discussion heusen hanes	AL VIV.	
Inspected by Qualified Building Surveyor (ET):	STEPHEN F	unG		7	20/9/2022
Acknowledged by representatives of the ER:	Chan Chun 1	Val 1459			20/9/22
Agreed with Main Contractor:	flelvin 1 E.ONL		- /b		20/9/2021

-fugeo

Photo Record (20/09/2022)



Photo 1: General View of NP-10



Photo 2: Reflective targets for settlement monitoring were installed on the fence wall at NP-10.



Photo 3: Tell-tales (TT1 & TT2) for crack monitoring were removed by the owner at NP-10 due to renovation works; Crack was repaired.



Photo 4: Renovation works were done at NP-10 except for the walls in Kitchen & Lavatory at the time of inspection.



Photo 5: General View of NP-11



Photo 6: Ground settlement marker for settlement monitoring was installed at the entrance of NP-11.

-fugeo

Photo Record (20/09/2022)



Photo 7: Tell-tale for crack monitoring was installed at NP-11.



Photo 8: NP-19 has been fenced off in accordance to EM&A Manual.



Photo 9: Construction works in close proximity of NP-19.



Photo 10: Access to NP-20 & NP-21 has been fenced off in accordance to EM&A Manual.



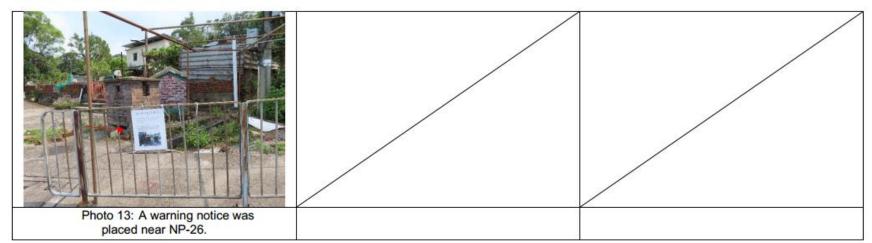
Photo 11: Access to NP-20 & NP-21 has been fenced off in accordance to EM&A Manual.



Photo 12: No temporary fence has been erected around NP-26 in mutual agreement with the villagers.

-fugeo

Photo Record (20/09/2022)



Monthly EM&A Report

Monthly Floral Protection Measures

Drainage Improvement Works at Ngong PingMonthly EM&A Report

15			/06)		
Date: 6 Septem	Weather: Temperature	Supply Fine //	Overcast / Rainy / Hazy	Wind:	HANGE CONTRACTOR
9.7	vvcaner.	Sullity/ Fille/	overcast / Rainy / Hazy	2000	(Calm)/ Light / Breeze / Str
Time: _ ~ 9 = 30 a	Temperature	e: 2+1°C		Humidity:	High / Moderate / Low
Monthly Environmental	Site Audit for Floral Protectio	n Measures			
Observations/ Deminds	/ B				2
	rs/ Recommendations / Follow vious observation(s)	v-up:			
Avord	lying the plant to the	- fencing to t	he plants and		
	The state of the s	y die	THE COURT		
Observation(s)					
Observation(s)					
Observation(s)			Actions to be Tales		-
	Location		Actions to be Taken		Remarks
Protection Measures	Location	Retain	Actions to be Taken	Repair	Remarks
Protection Measures	Location	Retain		Repair	Remarks
		Retain		Repair	Remarks
Protection Measures Post Indicating Prohibition of Access	,	Retain		Repair	
Protection Measures Post Indicating		Retain		Repair	
Protection Measures Post Indicating Prohibition of Access	West of Columburium	Retain			The post is nowhere to be y
Protection Measures Post Indicating Prohibition of Access 1	West of Columbianium	Retain			
Protection Measures Post Indicating Prohibition of Access	West of Columburium	Retain			The post is nowhere to be y The post is powhere. The post is powhere.
Protection Measures Post Indicating Prohibition of Access 1 2 Solid Fencing Around	West of Columburium	Retain			The post is nowhere to be to the the tre formation from the post is probleme. From should be petized.
Protection Measures Post Indicating Prohibition of Access 1 2 Solid Fencing Around Plant Species	West of Columburium In outfall B	Retain			The post is nowhere to be y the for its powhere The post is powhere found

Drainage Improvement Works at Ngong Ping

Reminder(s)

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-	ugro	
- 8		

Solid Fencing at Access Entrance		Retain	Replace.	papair	
1	Behind WA4 (near road to	*			Post should be installed for the
2	Behind SA4				Avoid trying the farcing to
3	Near waterfall of 594			/	for the solid town to be tier.
4		2	E	2	7
Warning Signposts/Labels					
Gleditain 1	Along Storm drain Piec alignment				Post should be nefixed.
Elipsetia 2	11	/	-		
Exetile 3	" (closer to SA4)		~		The signport is nowhere to be foundly
Ehnetra 4	1. SA4			V	Post should be metized

The Contractor V	was reminded to insta	1 de Topiace	ne ignost or	of tencing people property.
	Name		Signature	Date
Inspected by Representative from ET:	Ray Li			6 Sept. 2022
Acknowledged by representatives of the ER:	7. K. Yenry		3	6/9/2024
Agreed with Main Contractor:	Jepin CEUNA			
Checked by IEC:				

Monthly EM&A Report

Quarterly Post-transplantation Work

-	u	G	R	0
- 8				

Date: 6 Septem Time: ~9:3	per lolz	_ Weather:	Sunny Fine / Overd	ast / Rainy / Hazy	Wind:	Calm / Light / B	
	oam	Temperature:			vviild.	Caim / Light/	reeze / Stron
Monthly Environmental		romporatoro	Z+. ∘C		Humidity:	High / Moderate	e / Low
Wonthly Environmental	Cita Audit for D		WI				
	Site Audit for Po	ost-transplantatio	n Works				
Observations/ Reminder	s/ Recommend	ations / Follow-up):				
Follow-up of prev			#B				
N.A.							
Observation(s)							
Post-transplantation				Individuals			
Works	B28	B29	B30	B31	B20	Doo	DOA
1.076.07.0X.0	D20	D29	D30	B31	B32	B33	B34
Species			C	Camellia euryoides			
Growth condition			h 7	3			
Oloutin containen			The Doc	W.			
	k			*			
	Bor		Pour	Por	por	Pour	N-
Trunk/Stem	No. 10		Bor	Pon	por Por		Ar.
Trunk/Stem Branches	Poor		Poor	Por	Poor	Por	Α.
Trunk/Stem Branches Foliage	No. 10		Bor	Por Por For			Α-
Trunk/Stem Branches Foliage Root	Poor		Poor	Por	Poor	Por	
Trunk/Stem Branches Foliage	Poor		Poor	Por For	Poor	Por	4.
Trunk/Stem Branches Foliage Root Any arboricultural	Poor		Poor	Por For	Poor	Par Par	

The individual way
not found on site
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Juny the black raintiam on 28 Jan my

hot found on si

Tucko

Post-transplantation	Individuals					
Works	112	l13	114	129	131	
Species		F	Rhododendron farrerae			
Growth condition	12	ф				
Trunk/Stem	Koor	Fair	Por	Bor	Poor	
Branches	Poor	Fair	Poor	Poor	Poor	
Foliage	Par	Fair	Pur	Post	Rosz	
Root	Pur	Good,	1302	PUNT	Por	
Any arboricultural problem/s		Read branches,			0	
Remedial measure/s		weed more watering				
Injuries/damages						

Reminder(s)

Name
Signature
Date

Ray LT

Representative from ET:

Acknowledged by representatives of the ER:

Agreed with Main Contractor:

Checked by IEC:

Appendix D Monitoring Parameters Action and Limit Levels

Noise

Action and Limit Levels for Impact Monitoring

	Monitoring		
Time Period	Location No.	Action Level	Limit Level*
	NSR1	When one documented	70 dB(A)
Las alD(A)	Columbarium of Po Lin Monastery	complaint is received.	
Leq ₃ ,dB(A)	NSR5	When one documented	75 dB(A)
(0700-1900 hrs	in Village House No. 49A	complaint is received.	
normal weekdays) ⁽¹⁾	NSR8	When one documented	75 dB(A)
	Village House No. 34	complaint is received.	

Note:

Water Quality

Action and Limit Levels for Impact Monitoring

			9					
Parameter(s)	DO ir	n mg/L	Turbidit	ty in NTU	рН			ended s in mg/L
Station(s)	AL	LL	AL	LL	AL	LL	AL	LL
WS1-R1								
WS1-I1	7.36	7.32	15.8 ⁽⁵⁾	17.3 ⁽⁶⁾	$< 6.5^{(3)} \text{ or } > 6.9^{(4)}$	<6.5 or >8.5	14 ⁽⁵⁾	14 ⁽⁶⁾
WS1-R2								
WS1-I2	7.19	7.11	16.4 ⁽⁵⁾	18.4 ⁽⁶⁾	$< 6.5^{(3)} \text{ or } > 6.9^{(4)}$	<6.5 or >8.5	10 ⁽⁵⁾	14 ⁽⁶⁾
WS4-R3								
WS4-I3	7.29	7.28	22.9 ⁽⁵⁾	31.2 ⁽⁶⁾	$< 6.9^{(3)} \text{ or } > 7.2^{(4)}$	<6.5 or >8.5	13 ⁽⁵⁾	13 ⁽⁶⁾
WS5-R4								
WS5-I4	6.75	6.64	24.7(5)	28.2 ⁽⁶⁾	$< 6.6^{(3)} \text{ or } > 7.1^{(4)}$	<6.5 or >8.5	9 ⁽⁵⁾	9 ⁽⁶⁾
WS6-R5								
WS6-I5	6.31	6.23	12.6 ⁽⁵⁾	13.2 ⁽⁶⁾	$< 6.6^{(3)} \text{ or } > 7.0^{(4)}$	<6.5 or >8.5	10 ⁽⁵⁾	10 ⁽⁶⁾
WS6-C1								
WS6-R6								
WS6-I6	6.57	6.38	21.7 ⁽⁵⁾	23.7 ⁽⁶⁾	$< 6.9^{(3)} \text{or} > 7.1^{(4)}$	<6.5 or >8.5	12 ⁽⁵⁾	13 ⁽⁶⁾

Note:

AL: Action Level, LL: Limit Level

- (3) Or 80% of upstream control station.
- (4) Or 110% of upstream control station.
- (5) Or 120% of upstream control station of the same day.
- (6) Or 130% of upstream control station of the same day.

^{*75} dB(A) for residential premises and 70 dB(A) for educational institutions, kindergartens, nurseries and all others where voice communication

⁽¹⁾ Any general construction work carried out during restricted hours is controlled by Construction Noise Permit (CNP) under the NCO.

Appendix E Event and Action Plans

Event and Action Plan for Construction Noise Monitoring

ACTION

EVENT	ET ⁽¹⁾	IEC ⁽¹⁾	Engineer	Contractor	
Action Level	 Notify the IEC and Contractor. Carry out investigation. Report the results of investigation to the IEC and Contractor. Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation effectiveness. 	1. Review the analysed results submitted by the ET. 2. Review the proposed remedial measures by the Contractor and advise the Engineer accordingly. 3. Supervise the implementation of remedial measures.	 Confirm receipt of notification of failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. 	Submit noise mitigation proposals to the IEC. Implement noise mitigation proposals.	
Limit Level	 Notify the IEC, Engineer, EPD and Contractor. Identify sources. Repeat measurements to confirm findings. Increase monitoring frequency. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented. Inform the IEC, Engineer and EPD the causes and action taken for the exceedances. Assess the effectiveness of the Contractor's remedial action and keep the IEC, EPD and Engineer informed of the results. If exceedance stops, cease additional monitoring. 	Contractor on the potential remedial action. 2. Review the Contractor's remedial action whenever necessary to assure their effectiveness and advise the Engineer accordingly.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what portion of work is responsible and instruct the Contractor to stop that portion of works until the exceedance is abated.	 Take immediate action to avoid further exceedance. Submit proposals for remedial action to the IEC within 3 working days of notification. Implement the agreed proposals. Resubmit proposals if problems still not under control. Stop the relevant portion of works as 	

Note: (1) ET - Environmental Team, IEC - Independent Environmental Checker;

(2) According to EM&A Manual Table 3.4.

Event and Action Plan for Water Quality Monitoring (Part 1)

ACTION

	Action				
EVENT	ET ⁽¹⁾	IEC ⁽¹⁾	ER ⁽¹⁾	Contractor	
Action Level being exceeded by one sampling day	1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform the IEC and the Contractor; 4. Check monitoring data, all plant, equipment and the Contractor's working methods; 5. Discuss mitigation measures with the IEC and the Contractor; 6. Repeat measurement on next day of exceedance.	1. Discuss with the ET and the Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Access the effectiveness of the implemented mitigation measures	1. Discuss with the IEC on the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented.	1. Inform the ER and confirm notification of the non- compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ES and the IEC and propose mitigation measures to the IEC.	
Action Level being exceeded by more than one consecutive sampling days	 Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform the IEC and the Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with the IEC and the Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; 	1. Discuss with the ET and the Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Access the effectiveness of the implemented mitigation measures	1. Discuss with IEC on the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented; 3 Access the effectiveness of the implemented mitigation measures.	 Inform the ER and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with the ES and the IEC and propose mitigation measures to the IEC and ER within 3 working days; Implement the agreed mitigation 	

Event and Action Plan for Water Quality Monitoring (Part 2)

ACTION

EVENT	ET ⁽¹⁾	IEC ⁽¹⁾	ER ⁽¹⁾	Contractor
Limit Level being exceeded by one consecutive sampling day	1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform the IEC, the Contractor and the DEP 4. Check monitoring data, all plant, equipment and the Contractor's working methods; 5. Discuss mitigation measures with the IEC, the ER and the Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit Level.	Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Access the effectiveness of the implemented mitigation measures.	1. Discuss with the IEC, the ES and the Contractor on the proposed mitigation measures; 2. Request the Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Access the effectiveness of the implemented mitigation measures.	1. Inform the Engineer and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ES, the IEC and the ER and propose mitigation measures to the IEC and the ER within 3 working days; 6. Implement the agreed mitigation measures.
Limit Level being exceeded by more than one consecutive sampling days	 Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform the IEC, the Contractor and DEP; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with the IEC, the ER and the Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days. 	1. Discuss with ET and Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Access the effectiveness of the implemented mitigation measures.	1. Discuss with the IEC, the ES and the Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Access the effectiveness of the implemented mitigation measures; 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the works until no exceedance of Limit Level.	1. Inform the ER and confirm notification of the non- compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ES, the IEC and the ER and propose mitigation measures to the IEC and the ER within 3 working days; 6. Implement the agreed mitigation measures; 7. As directed by the ER, slow down or stop all or part of the construction activities.

Note: (1) ET - Environmental Team, IEC - Independent Environmental Checker;

(2) According to EM&A Manual Table 4.4.

Note:

Event / Action Plan for Ecological Monitoring

Action Level	ET ⁽¹⁾	IEC ⁽¹⁾	ER ⁽¹⁾	Contractor
Non-conformity on one occasion	Identify Source Inform the IEC and the ER Discuss remedial actions with the IEC, the ER and the Contractor Monitor remedial actions until rectification has been completed	Check report Check the Contractor's working method Discuss with the ET and the Contractor on possible remedial measures Advise the ER on effectiveness of proposed remedial measures. Check implementation of remedial measures.	Notify Contractor Ensure remedial measures are properly implemented Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the works in the case of a serious non-conformity until situation rectified.	Amend working methods Rectify damage and undertake any necessary replacement
Repeated Non conformity	Identify Source Inform the IC(E) and the ER Increase monitoring frequency Discuss remedial actions with the IC(E), the ER and the Contractor Monitor remedial actions until rectification has been completed If exceedance stops, cease additional monitoring	Check monitoring report Check the Contractor's working method Discuss with the ES and the Contractor on possible remedial measures Advise the ER on effectiveness of proposed remedial measures Supervise implementation of remedial measures	Notify the Contractor Ensure remedial measures are properly implemented Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the works in the case of a serious non-conformity until situation rectified.	Amend working methods Rectify damage and undertake any necessary replacement

(1) ET - Environmental Team, IEC - Independent Environmental Checker;

(2) According to EM&A Manual Table 5.4.

Event / Action Plan for Construction/Operational Phase for Ecology Issues (Landscape and Visual)

Action Level	ET ⁽¹⁾	IEC ⁽¹⁾	ER ⁽¹⁾	Contractor
Non-conformity on one occasion	Indentify Source Inform the IEC and the ER Inscription in the IEC, the ER and the Contractor Monitor remedial actions until rectification has been completed	1. Check report 2. Check the Contractor's working method 3. Discuss with the ET and the Contractor on possible remedial measures 4. Advise the ER on effectiveness of proposed remedial measures. 5. Check implementation of remedial measures.	Notify Contractor Ensure remedial measures are properly implemented	1. Amend working methods 2. Rectify damage and undertake any necessary replacement
Repeated Non- conformity	1. Identify Source 2. Inform the IEC and the ER 3. Increase monitoring frequency 4. Discuss remedial actions with the IEC, the ER and the Contractor 5. Monitor remedial actions until rectification has been completed 6. If exceedance stops, cease additional monitoring	1. Check monitoring report 2. Check the Contractor's working method 3. Discuss with the ET and the Contractor on possible remedial measures 4. Advise the ER on effectiveness of proposed remedial measures 5. Supervise implementation of remedial measures.	Notify the Contractor Ensure remedial measures are properly implemented	1. Amend working methods 2. Rectify damage and undertake any necessary replacement

Note: (1) ET - Environmental Team, IEC - Independent Environmental Checker;

(2) According to EM&A Manual Table 6.4.

Event / Action Plan for Construction Phase for Heritage Issue

Action Level	ET ⁽¹⁾	IEC ⁽¹⁾	ER ⁽¹⁾	Contractor
one occasion	2. Inform the IEC and the ER3. Discuss remedial actions with the IEC, the ER and the Contractor	 Check report Check the Contractor's working method Discuss with the ES and the Contractor on possible remedial measures Advise the ER on effectiveness of proposed remedial measures. Check implementation of remedial measures. 	Notify Contractor Ensure remedial measures are properly implemented	 Amend working methods Rectify damage and undertake any necessary replacement
Repeated Non- conformity	4. Discuss remedial actions with the IEC, the ER and the Contractor5. Monitor remedial actions until rectification has been	Check monitoring report Check the Contractor's working method Discuss with the ES and the Contractor on possible remedial measures Advise the ER on effectiveness of proposed remedial measures Supervise implementation of remedial measures.	Notify the Contractor Ensure remedial measures are properly implemented	Amend working methods Rectify damage and undertake any necessary replacement

Note: (1) ET - Environmental Team, IEC - Independent Environmental Checker;

(2) According to EM&A Manual Table 7.

Appendix F1 Equipment Calibration Certificates (Noise Monitoring)

Noise Monitoring Equipment Record

Monitoring Date	Model	Equipment	Serial No.	
06.0 2022	CEL-63X Series	Sound Level Meter	1488272	
06 Sep 2022	CEL-120/1	Sound Calibrator	2092809	
	CEL-63X Series	Sound Level Meter	1488293	
13 Sep 2022	CEL-120/1	Sound Calibrator	2383886	
00.0	CEL-63X Series	Sound Level Meter	1488272	
20 Sep 2022	CEL-120/1	Sound Calibrator	2092809	
07.0 - 7.2022	CEL-63X Series	Sound Level Meter	1488287	
27 Sep 2022	CEL-120/1	Sound Calibrator	2383886	





Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 212769CA212463(1) Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client: Fugro Technical Services Ltd.

Project: Calibration Services

Details of Unit Under Test, UUT

Description

Sound Level Meter

Manufacturer

Casella

Model No.

Serial No.

Meter Microphone Preamplifier CEL-63X CE-251 CEL-495 1488272 03876 002752

Equipment ID

N/A

Next Calibration Date

27-Oct-2022

Specification Limit

: EN 61672-1: 2003 Class 1

Laboratory Information

Details of Reference Equipment -

Description

: B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)

Equipment ID. :

R-108-1

Date of Calibration : 28-Oct-2021

Calibration Location: Calibration Laboratory of FTS Method Used

Ambient Temperature :

20±2 °C

: By direct comparison

Relative Humidity

<80% R.H.

Calibration Results:

Parameters		Mean Value (dB)	Specific	Specification Limit(dB)		
	4000Hz	1.8	2.6	to	-0.6	
A-weigthing frequency	2000Hz	1.5	2.8	to	-0.4	
	1000Hz	0.2	1.1	to	-1.1	
	500Hz	-3.2	-1.8	to	-4.6	
response	250Hz	-8.7	-7.2	to	-10.0	
	125Hz	-16.1	-14.6	to	-17.6	
	63Hz	-26.2	-24.7	to	-27.7	
Differential level	94dB-104dB	0.0		± 0.6	3	
linearity	104dB-114dB	0.0		± 0.6	3	

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
- 4. The UUT does comply with EN 61672-1: 2003 Class 1 sound level meter for the above measurement.
- The values given in this Calibration Certificate only relate to unit under test and the values measured at the time of the test. Any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of

Date : _____3 -11-2021 Certified by : ____K J- Xumq Date : ___ Checked by : _ Leung Kwok Tai (Assistant Manager) CA-R-297 (22/07/2009)

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Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong Page 1 of 1

Report no.: 212769CA221783

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client: Fugro Technical Services Ltd.

Project : Calibration Services
Details of Unit Under Test, UUT

Description : Sound Level Meter

Manufacturer : Casella

 Meter
 Microphone
 Preamplifier

 Model No.
 :
 CEL-63X
 CE-251
 CEL-495

 Serial No.
 :
 1488293
 02772
 004020

Equipment ID : N/A

Next Calibration Date : 27-Jul-2023

Specification Limit : EN 61672-1: 2003 Class 1

Laboratory Information

Details of Reference Equipment -

Description : B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)

Equipment ID. : R-108-1 Date Receipt of UUT : 27-Jul-2022 Date of Calibration : 28-Jul-2022

Calibration Location : Calibration Laboratory of FTS Ambient Temperature : 20±2 °C Method Used : By direct comparison Relative Humidity : <80% R.H.

Calibration Results:

Parameters		Mean Value (dB)	Specific	ation	Limit(dB)
	4000Hz	0.6	2.6	to	-0.6
	2000Hz	1.0	2.8	to	-0.4
A-weigthing	1000Hz	0.0	1.1	to	-1.1
frequency	500Hz	-3.3	-1.8	to	-4.6
response	250Hz	-8.6	-7.2	to	-10.0
	125Hz	-16.1	-14.6	to	-17.6
	63Hz	-26.1	-24.7	to	-27.7
Differential level	94dB-104dB	0.0		± 0.6	3
linearity	104dB-114dB	0.0		± 0.6	3

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
- 3. The mean value is the average of four measurements.
- 4 The values given in this Calibration Certificate only relate to unit under test and the values measured at the time of the test. Any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

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Page 1 of 1 Report no.: 212769CA222036

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client: Fugro Technical Services Limited

Project: Calibration Services Details of Unit Under Test, UUT

Description

: Sound Level Meter

Manufacturer

Casella

Model No. Serial No.

Meter Microphone Preamplifier CE-251 CEL-495 CEL-63X 003036 1488287 04005

Equipment ID

N/A

Next Calibration Date

29-Aug-2023

Specification Limit

Description

: EN 61672-1: 2003 Class 1

Laboratory Information

Details of Reference Equipment -

: B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)

Equipment ID. : R-108-1 Date Receipt of UUT: 27-Aug-2022 Date of Calibration : 30-Aug-2022

Calibration Location: Calibration Laboratory of FTS

Ambient Temperature :

20±2 °C

Method Used : By direct comparison

Relative Humidity

<80% R.H.

Calibration Results:

Parameters		Mean Value (dB)	Specific	ation	Limit(dB)
	4000Hz	0.8	2.6	to	-0.6
A-weigthing frequency	2000Hz	1.2	2.8	to	-0.4
	1000Hz	0.0	1.1	to	-1.1
	500Hz	-3.4	-1.8	to	-4.6
response	250Hz	-8.8	-7.2	to	-10.0
	125Hz	-16.3	-14.6	to	-17.6
	63Hz	-26.3	-24.7	to	-27.7
Differential level	94dB-104dB	0.0		± 0.6	3
linearity	104dB-114dB	0.0		± 0.6	3

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
- 3. The mean value is the average of four measurements.
- 4 The values given in this Calibration Certificate only relate to unit under test and the values measured at the time of the test. Any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

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Report no.: 212769CA221008 Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client: Fugro Technical Services Ltd.

Project: Calibration Services Client Supplied Information

Details of Unit Under Test, UUT

Description

Sound Calibrator

Manufacturer

Casella (Model CEL-120/1)

Serial No.

2092809

Equipment ID

N/A

Next Calibration Date : 18-May-2023

Specification Limit

: EN 60942: 2003 Class 1

Laboratory Information

Details of Calibration Equipment

Description

Reference Sound level meter

Equipment ID.

R-119-2

Date of Calibration: Calibration Location:

19-May-2022 Calibration Laboratory of FTS

Ambient Temperature: 20 ± 2 °C

Method Used

By direct comparison

Relative Humidity

<80% R.H.

Calibration Results:

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit
94dB	-0.1 dB	10.4dD
114dB	0.0 dB	±0.4dB

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. The unit under test complies with the specification limit.
- 4. The values given in this Calibration Certificate only relate to the unit-under-test and the values measured at the time of the test. Any uncertainties quoted will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the measurement.

_ Date: 16-5-2022 Certified by: KT Journ Date: 16-5-2021 Checked by :___ CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

** End of Report **

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Report no.: 212769CA221498 Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Casella (Model CEL-120/1)

Client: Fugro Technical Services Ltd.

Project: Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT

Description :

: Sound Calibrator

Serial No. : 2383886

Equipment ID : N/A

Next Calibration Date : 26-Jun-2023

Specification Limit : EN 60942: 2003 Class 1

Laboratory Information

Manufacturer

Details of Calibration Equipment

Description : Reference Sound level meter

Equipment ID. : R-119-2

Date of UUT receipt : 23-Jun-2022

Date of Calibration : 27-Jun-2022

Calibration Location: Calibration Laboratory of FTS Ambient Temperature: 20±2 °C

Method Used : By direct comparison Relative Humidity : <80% R.H.

Calibration Results :

oundration recourts .		
Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	-0.1 dB	10.44D
114dB	0.0 dB	±0.4dB

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. The unit under test complies with the specification limit.
- 4. A general inspection of the item has been carried out and found the item is in good working conditions.
- The result reported on this certificate apply only to the unit under test as received. Fugro has not been responsible for the sampling stage

Checked by :	Date: 12-7-2022 Certified by: F.T. Jeung Date: 12-7-2022
CA-R-297 (22/07/2009)	Leung Kwok Tai (Assistant Manager)
	** End of Report **

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Appendix F2 Equipment Calibration Certificates (Water Quality Monitoring)





Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report No.: 142626WA221212



Page 1 of 3

Report on Calibration of YSI EXO-3 Multi-parameter Water Quality Meter

Information Supplied by Client

Client

Fugro Technical Services Limited (MCL)

Client's address

13/F, Fugro House - KCC2, No. 1 Kwai On Road, Kwai Chung,

N.T., H.K.

Sample description

One YSI EXO-3 Multi-parameter Water Quality Meter

Client sample ID

Serial No. 19E100634

Test required

Calibration of the YSI EXO-3 Multi-parameter Water Quality Meter

Laboratory Information

Lab. sample ID

WA221212/1

Date sample received

14/06/2022

Date of calibration

28/06/2022

Next calibration date

27/09/2022

Test method used

In-house comparison method

Note: This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.





Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report No.: 142626WA221212

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Results:

A. pH calibration

pH reading at 25°C for Q.C. solution(6.86) and at 25°C for Q.C. solution(9.18)		
Theoretical	Measured	Deviation
9.18	9.10	-0.08
6.86	6.83	-0.03

B. Salinity calibration

Salinity, ppt			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
1	0.99	-0.01	± 0.1
10	9.98	-0.02	± 0.5
20	20.04	+0.04	± 1.0
30	29.97	-0.03	± 1.5
40	40.10	+0.10	± 2.0

C. Dissolved Oxygen calibration

Trial No.	Dissolved oxyg	en content, mg/L
Trial No.	By Titration	By D.O. meter
1	7.84	8.01
2	7.91	7.99
3	7.96	8.01
Average	7.90	8.00

Differences of D.O. Content between Wrinkler Titration and D.O. meter should be less than 0.2 mg/L.

Certified by

Approved Signatory : HO Kin Man, John Assistant General Manager – Laboratories

Date

18/7/202

Note: This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

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Results:

D. Temperature calibration

Thermometer reading, °C	Meter reading, °C
22.3	22.360

E. Turbidity calibration

	Turbidity, N.T.U.		
Theoretical	Measured	Deviation	Maximum acceptable Deviation
4	4.19	+0.19	± 0.6
8	8.35	+0.35	± 0.8
40	38.94	-1.06	± 3.0
80	81.43	+1.43	± 4.0

Certified by

Approved Signatory : HO Kin Man, John Assistant General Manager – Laboratories

Date

** End of Report **

Note: This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report No.: 142626WA221442



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Report on Calibration of YSI EXO-3 Multi-parameter Water Quality Meter

Information Supplied by Client

Client

Fugro Technical Services Limited (MCL)

Client's address

13/F, Fugro House - KCC2, No. 1 Kwai On Road, Kwai Chung,

N.T., H.K.

Sample description

One YSI EXO-3 Multi-parameter Water Quality Meter

Client sample ID

Serial No. 19E100633

Test required

Calibration of the YSI EXO-3 Multi-parameter Water Quality Meter

Laboratory Information

Lab. sample ID

WA221442/1

Date sample received

13/07/2022

Date of calibration

27/07/2022

Next calibration date

26/10/2022

Test method used

In-house comparison method

Note: This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

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Results:

A. pH calibration

pH reading at 25°C for	Q.C. solution(6.86) and at 25°	°C for Q.C. solution(9.18)
Theoretical	Measured	Deviation
9.18	9.17	-0.01
6.86	6.96	+0.10

B. Salinity calibration

	Salinity, ppt			
Theoretical	Measured	Deviation	Maximum acceptable Deviation	
1	1.00	0	± 0.1	
10	9.99	-0.01	± 0.5	
20	20.16	+0.16	± 1.0	
30	30.10	+0.10	± 1.5	
40	40.19	+0.19	± 2.0	

C. Dissolved Oxygen calibration

Trial No.	Dissolved oxygen content, mg/L		
Trial No.	By Titration	By D.O. meter	
1	7.53	7.50	
2	7.53	7.49	
3	7.53	7.49	
Average	7.53	7.49	

Differences of D.O. Content between Wrinkler Titration and D.O. meter should be less than 0.2 mg/L.

Certified by

Approved Signatory: HO Kin Man, John Assistant General Manager - Laboratories

Date

Note: This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

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FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report No.: 142626WA221442

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Results:

D. Temperature calibration

Thermometer reading, °C	Meter reading, °C
24.8	24.850

E. Turbidity calibration

Turbidity, N.T.U.									
Theoretical	Measured	Deviation	Maximum acceptable Deviation						
4	4.50	+0.50	± 0.6						
8	7.80	-0.20	± 0.8						
40	40.96	+0.96	± 3.0						
80	79.48	-0.52	± 4.0						

Certified by

Approved Signatory: HO Kin Man, John Assistant General Manager – Laboratories

Date

** End of Report **

Note: This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

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GEN01/0819



Appendix G Environmental Monitoring Schedule

Impact Monitoring Schedule (September 2022)

		_	W 1	-1		
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
				W		w
4	5	6	7	8	9	10
		W & N		w		w
11	12	13	14	15	16	17
		W & N		w		w
18	19	20	21	22	23	24
		W & N		w		w
25	26	27	28	29	30	
		W & N		w		

Tentative Impact Monitoring Schedule (October 2022)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
						w
2	3	4	5	6	7	8
		w		W & N		w
9	10	11	12	13	14	15
		W & N		w		w
16	17	18	19	20	21	22
		W & N		W		w
23	24	25	26	27	28	29
		W & N		w		w
30	31					

Tentative Impact Monitoring Schedule (November 2022)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
		W & N		W		w
6	7	8	9	10	11	12
		W & N		w		w
13	14	15	16	17	18	19
		W & N		w		w
20	21	22	23	24	25	26
		W & N		w		w
27	28	29	30			
		W & N				

Tentative Impact Monitoring Schedule (December 2022)

Tentative ii	charte impact Montoring Schedule (Beechiber 2022)													
Sun	Mon	Tue	Wed	Thu	Fri	Sat								
				1	2	3								
				w		w								
4	5	6	7	8	9	10								
		W & N		W		W								
11	12	13	14	15	16	17								
		W & N		W		W								
18	19	20	21	22	23	24								
		W & N		W		W								
25	26	27	28	29	30	31								
		w		W & N		w								

Remarks

- 1. W: Impact Water Quality Monitoring.
- 2. N: Impact Noise Monitoring.
- 3. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition, etc.



Appendix H1 Noise Monitoring Data and Graphical Presentations

Monitoring Lo	Monitoring Location: NSR1 Columbarium of Po Lin Monastery								
Date	Weather	Wind Speed	Start Time	Noise M	lonitoring (ir	dB(A))			
	vveatner	(m/s)	Start rime	Leq _(30 min)	L90 _(30 min)	L10 _(30 min)			
06-09-2022	Fine	Fine 0.4		51.9	49.5	53.5			
13-09-2022	Fine	0.7	16:04	64.4	61.5	68.0			
20-09-2022	Fine	0.4	11:08	66.7	61.0	70.5			
27-09-2022	Fine	0.8	12:06	68.9	66.5	74.0			

Monitoring Lo	cation :	NSR5 Village House No. 49A							
Date	Weather	Wind Speed	Start Time	Noise M	Noise Monitoring (in dB(A))				
	vveatrier	(m/s)	Start rime	Leq _(30 min)	L90 _(30 min)	L10 _(30 min)			
06-09-2022	Fine	0.3	10:16	60.4	59.0	62.0			
13-09-2022	Fine	0.2	14:07	58.2	56.5	60.0			
20-09-2022	Fine	0.5	10:21	55.5	52.0	47.0			
27-09-2022	Fine	0.6	10:10	59.2	55.5	61.5			

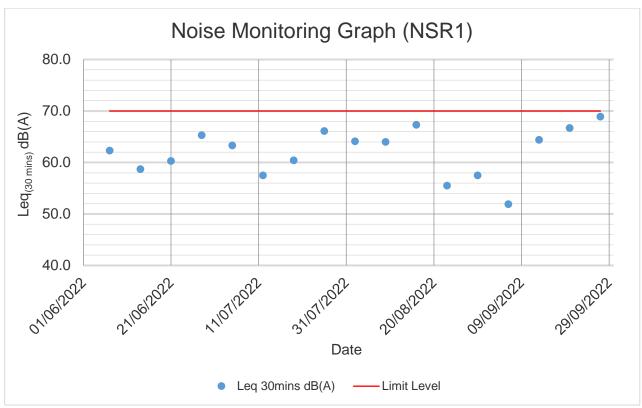
Monitoring Lo	cation :	NSR8 Village H	louse No. 34						
Date	Weather	Wind Speed	Start Time -	Noise M	Noise Monitoring (in dB(A))				
	weather	(m/s)	Start Time	Leq _(30 min)	L90 _(30 min)	L10 _(30 min)			
06-09-2022	Fine	0.5	09:17	58.6	56.0	60.5			
13-09-2022	Fine	0.4	13:20	54.2	50.0	56.0			
20-09-2022	Fine	0.3	09:24	51.8	43.5	53.5			
27-09-2022	Fine	0.3	09:02	59.3	52.5	64.5			

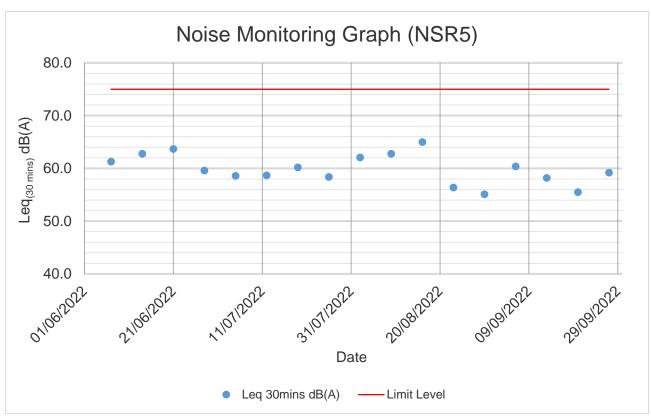
	Noise Monito	oring (in dB(A))
	Min	Max
	Leq _(30 min)	Leq _(30 min)
NSR1	51.9	68.9
NSR5	55.5	60.4
NSR8	51.8	59.3

Remarks:

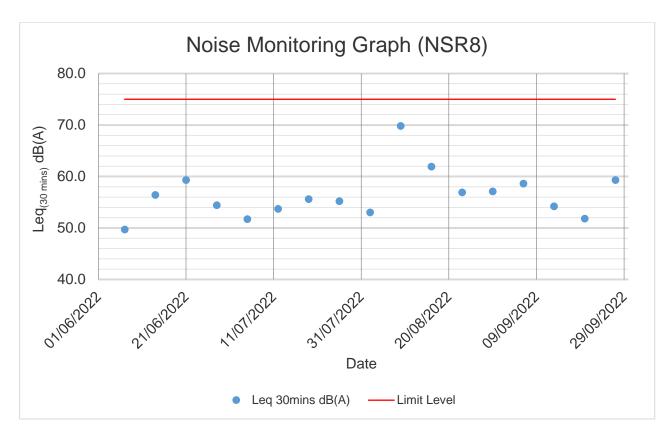
1) NSR1 & NSR5 noise results were calculated by +3 dB (A) correction for free-field measurement.











Note:

- 1) Major activities being carried out on site during the reporting period refer to section 1.4.
- 2) The other factors influencing the monitoring results refer to section 5.5.3.
- 3) The QA/QC procedures and detection Limits refer to section 5.1 and 5.2.



Appendix H2 Water Quality Monitoring Data and Graphical Presentations



Monitoring Results Summary

Parameter(s)		DO in	mg/	L		_		Turbidity	/ in I	UTU				pl	Н				Susp	ended So	olids	in mg/L	
Station(s)	Min	-	Max	(Mean)	Min	-	Max	(Mean)	Min	-	Max	(Mean)	Min	-	Max	(Mean)
WS1-R1	7.38	-	7.57	(7.45)	1.79	-	7.75	(3.60)	6.60	-	6.90	(6.75)	1.00	-	12.50	(5.00)
WS1-I1	7.37	-	7.63	(7.49)	1.80	-	8.00	(3.19)	6.60	-	6.90	(6.76)	1.00	-	5.50	(2.92)
WS1-R2	7.50	-	7.79	(7.59)	1.06	-	3.41	(2.11)	6.50	-	6.90	(6.80)	1.00	-	4.00	(1.96)
WS1-I2	7.28	-	7.73	(7.56)	1.00	-	3.60	(1.98)	6.60	-	6.80	(6.75)	1.00	-	3.50	(2.18)
WS4-R3																								
WS4-I3																								
WS5-R4	6.81	-	7.48	(7.19)	1.90	-	17.00	(4.45)	6.70	-	7.10	(6.91)	1.00	-	3.00	(1.54)
WS5-I4	6.77	-	7.45	(7.18)	2.00	-	17.10	(4.52)	6.70	-	7.00	(6.91)	1.00	-	7.50	(1.88)
WS6-R5	6.82	-	7.57	(7.24)	2.40	-	12.30	(4.63)	6.70	-	7.00	(6.88)	1.00	-	7.00	(2.15)
WS6-I5	6.72	-	7.52	(7.21)	2.40	-	11.90	(4.54)	6.70	-	7.00	(6.87)	1.00	-	7.50	(2.50)
WS6-C1	6.44	-	7.13	(6.81)	2.00	-	7.30	(3.19)	6.30	-	8.00	(6.92)	1.00	-	6.50	(1.96)
WS6-R6	6.58	-	7.46	(7.07)	1.80	-	7.80	(4.50)	6.90	-	7.00	(6.95)	1.00	-	5.50	(2.08)
WS6-I6	6.66	-	7.43	(7.05)	1.90	-	7.70	(4.41)	6.90	-	7.00	(6.95)	1.00	-	8.00	(2.46)

Laboratory Duplicate, Quality Assurance/Quality Control Summary extract form Lab test report

	_		tal suspended solids			
Sampling Date	Detection	Blank	Spike recovery	Original	Duplicate	RPD%
	Limit		(%)	result	result	
01/09/2022	1 m a /1	<1	101.00	7.94	7.26	8.95
01/09/2022	1mg/L	<u></u>	103.08	1.31	1.38	5.20
03/09/2022	1mg/l	<1	102.15	1.50	1.68	11.32
03/03/2022	1mg/L	\1	95.80	3.06	2.62	15.49
06/09/2022	1mg/L	<1	100.50	1.60	1.76	9.40
00/09/2022	IIIIg/ L	\1	98.25	1.64	1.70	3.71
08/09/2022	1mg/L	<1	99.85	1.10	0.92	17.82
08/09/2022	IIIIg/ L	\1	97.00	3.08	2.20	33.33
10/09/2022	22 1mg/L		100.50	6.50	7.22	10.50
	11116/ L	<1	100.50	6.50	7.22	10.50
13/09/2022	1mg/L	<1	96.20	4.20	3.88	7.92
13/03/2022	IIIIg/ L	1	101.95	2.32	2.42	4.22
15/09/2022	1mg/L	<1	97.33	2.18	2.33	6.65
13/03/2022	IIIIg/ L		101.80	1.54	1.54	0.00
17/09/2022	1mg/L	<1	100.90	1.14	0.98	15.09
17/03/2022	IIIIg/ L		98.45	2.12	2.02	4.83
20/09/2022	1mg/L	<1	97.30	1.98	1.78	10.64
20/03/2022	IIIIg/ L		97.02	1.38	1.57	12.88
22/09/2022	1mg/L	<1	96.40	1.72	1.84	6.74
22/09/2022	IIIIg/ L	\1	100.70	0.88	0.92	4.49
24/09/2022	1mg/L	<1	100.00	0.98	1.16	16.82
24/03/2022	TIIIK/ L		98.55	1.58	1.76	10.78
27/09/2022	1mg/L	<1	97.10	6.56	5.50	17.56
29/09/2022	1mg/L	<1	98.19	0.52	0.48	8.90



Parameter Exceedance Summary

Monitoring	Monitoring	Exceedance	Monitoring	Action	Limit	Project-
Date	Location	Parameter	Results	Level(AL)	Level(LL)	related?

Monitoring Location Dried up Summary

Date / Location	WS1-R1	WS1-R2		WS4-R3	WS4-I3	WS5-R4	WS5-I4	WS6-R5	WS6-I5	WS6-C1	WS6-R6	WS6-I6
1 Sep 2022				Dried Up	Dried Up							
3 Sep 2022				Dried Up	Dried Up							
6 Sep 2022				Dried Up	Dried Up							
8 Sep 2022				Dried Up	Dried Up							
10 Sep 2022												
13 Sep 2022												
15 Sep 2022				Dried Up	Dried Up							
17 Sep 2022				Dried Up	Dried Up							
20 Sep 2022				Dried Up	Dried Up							
22 Sep 2022				Dried Up	Dried Up							
24 Sep 2022												
27 Sep 2022	Dried Up		Dried Up	Dried Up	Dried Up							
29 Sep 2022	Dried Up		Dried Up	Dried Up	Dried Up							

Note:

- 1) Major activities being carried out on site during the reporting period refer to section 1.4.
- 2) The other factors influencing the monitoring results refer to section 5.5.4.
- 3) The QA/QC procedures and detection Limits refer to section 5.1 and 5.2.



				ے							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	Water Depth (cm)	Replicate	pl	Н	Salinit	y (ppt)	Tempera	iture (°C)	DO Satu	ration (%)	DO (ı	mg/L)	Turbidit	y (NTU)	Total suspe dried at 103 mg		Remarks
_				\$		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			10:53	23	2	6.7 6.7	6.7	0.01	0.01	23.9 23.9	23.9	87.3 87.5	87.4	7.52 7.53	7.53	2.2	2.2	1	1.0	NA
WS1-I1			11:08	20	1 2	6.8 6.7	6.8	0.01 0.01	0.01	23.9 23.9	23.9	87.8 87.6	87.7	7.62 7.64	7.63	2.1	2.1	2	1.5	NA
WS1-R2			11:23	22	1 2	6.9	6.9	0.01	0.01	23.1 23.1	23.1	87.9 88.0	88.0	7.51 7.48	7.50	2.1	2.1	<1 <1	1.0	NA
WS1-I2			11:38	18	1 2	6.8	6.8	0.01	0.01	23.1	23.1	88.3 88.5	88.4	7.62 7.66	7.64	2.1	2.1	2	2.0	NA
WS4-R3			11:53	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS4-I3			12:09	0	1	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS5-R4	1-Sep-22	Fine	13:09	18	1 2	7.0 6.9	6.9	0.04 0.04	0.04	24.4 24.4	24.4	81.7 81.9	81.8	6.82 6.86	6.84	16.9 17.1	17.0	1	1.0	NA
WS5-I4			13:24	20	1 2	6.9	6.9	0.04	0.04	24.3	24.3	82.4 82.0	82.2	6.89	6.88	17.1 17.1	17.1	8	7.5	NA
WS6-R5			13:40	19	1 2	6.9	6.9	0.04	0.04	25.1 25.1	25.1	86.0 85.8	85.9	7.03	7.06	12.5 12.1	12.3	7	7.0	NA
WS6-I5			13:55	19	1 2	6.9 6.9	6.9	0.04	0.04	25.4 25.4	25.4	86.2 85.6	85.9	7.06 7.01	7.04	11.9	11.9	8	7.5	NA
WS6-C1			12:24	22	1 2	7.0 7.1	7.0	0.05	0.05	24.8 24.8	24.8	80.4 80.1	80.3	6.68	6.67	3.5	3.5	6	6.5	NA
WS6-R6			12:39	20	1 2	7.1 7.0	7.0	0.02	0.02	24.1	24.1	85.8 85.6	85.7	7.17 7.19	7.18	7.8 7.8	7.8	2	1.5	NA
WS6-I6			12:54	20	1 2	6.9	6.9	0.02	0.02	24.1	24.1	85.2 85.4	85.3	7.21 7.26	7.24	7.7	7.7	3	3.0	NA



^{2.} NA: Not Applicable

^{3.} TBC: To Be Confirm

^{4.} Yellow Highlight equal to exceed Action Level

^{5.} Red Highlight equal to exceed Limit Level

				ے							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	/ater Depth (cm)	Replicate	pl	Н	Salinit	y (ppt)	Tempera	iture (°C)	DO Satu	ration (%)	DO (r	mg/L)	Turbidity	y (NTU)	Total suspe dried at 103 mg	, ,,	Remarks
_				≶		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			11:20	22	2	6.8 6.9	6.8	0.01	0.01	23.2 23.2	23.2	86.0 86.3	86.2	7.49 7.52	7.51	1.8 1.8	1.8	3	3.0	NA
WS1-I1			11:35	18	1 2	6.8 6.8	6.8	0.01 0.01	0.01	23.2 23.2	23.2	86.4 86.7	86.6	7.58 7.63	7.61	1.9 1.9	1.9	2 2	2.0	NA
WS1-R2			11:50	19	1 2	6.9	6.9	0.01	0.01	22.7	22.7	87.5 87.8	87.7	7.51 7.53	7.52	2.6	2.6	<1 <1	1.0	NA
WS1-I2			12:06	19	1 2	6.8	6.8	0.01	0.01	22.7	22.7	87.4 87.2	87.3	7.56 7.58	7.57	2.6	2.6	1	1.0	NA
WS4-R3			12:20	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS4-I3			12:35	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS5-R4	3-Sep-22	Fine	14:08	18	1 2	6.9 6.9	6.9	0.04	0.04	24.3 24.4	24.4	86.8 86.9	86.9	7.25 7.31	7.28	3.4 3.5	3.5	2 2	2.0	NA
WS5-I4			14:23	18	1 2	6.9 6.9	6.9	0.04 0.04	0.04	24.4 24.4	24.4	87.3 86.6	87.0	7.39 7.22	7.31	3.4 3.4	3.4	2 2	2.0	NA
WS6-R5			13:37	17	1 2	7.0 6.9	6.9	0.04 0.04	0.04	24.4 24.4	24.4	87.8 87.7	87.8	7.32 7.30	7.31	3.3 3.3	3.3	2 2	2.0	NA
WS6-I5			13:52	17	1 2	6.9 6.8	6.9	0.04 0.04	0.04	24.4 24.4	24.4	87.3 87.1	87.2	7.27 7.24	7.26	3.4 3.4	3.4	2	2.0	NA
WS6-C1			12:51	20	1 2	6.8	6.8	0.05	0.05	24.6	24.6	84.6 85.5	85.1	7.09 7.16	7.13	2.0	2.0	1	1.0	NA
WS6-R6			13:06	18	1 2	6.9 7.0	6.9	0.02	0.02	23.4 23.4	23.4	85.9 85.6	85.8	7.35 7.34	7.35	7.0 7.0	7.0	3	3.0	NA
WS6-I6			13:22	20	1 2	7.0 7.0	7.0	0.02 0.02	0.02	23.4 23.4	23.4	84.9 84.6	84.8	7.28 7.22	7.25	6.9 6.8	6.8	3	3.0	NA



^{2.} NA: Not Applicable

^{3.} TBC: To Be Confirm

^{4.} Yellow Highlight equal to exceed Action Level

^{5.} Red Highlight equal to exceed Limit Level

				ے							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	Water Depth (cm)	Replicate	pl	Н	Salinit	y (ppt)	Tempera	ture (°C)	DO Satu	ration (%)	DO (ı	mg/L)	Turbidit	y (NTU)	Total suspe dried at 103 mg		Remarks
_				\$		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			09:21	20	1	6.8	6.8	0.01	0.01	23.1	23.0	85.7	85.6	7.49	7.48	2.5	2.5	2	2.0	NA
					2	6.8		0.01		23.0		85.5		7.46		2.5		2		
WS1-I1			09:36	18	2	6.8 6.8	6.8	0.01	0.01	23.0 23.0	23.0	86.2 86.4	86.3	7.55 7.58	7.57	2.6	2.6	2	2.0	NA
					1	6.9		0.01		22.7		88.0		7.60		1.8		2		
WS1-R2			09:51	22	2	6.8	6.8	0.01	0.01	22.7	22.7	87.9	88.0	7.58	7.59	1.8	1.8	2	2.0	NA
WS1-I2			10:06	17	1	6.8	6.7	0.01	0.01	22.7	22.7	87.5	87.6	7.56	7.56	1.8	1.8	2	2.0	NA
***************************************			10.00	.,	2	6.7	0.1	0.01	0.01	22.7	22.7	87.6	07.0	7.57	7.00	1.8	1.0	2	2.0	147
WS4-R3			10:21	0	2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
					1	NA NA		NA NA		NA NA		NA NA		NA NA		NA NA		NA NA		
WS4-I3			10:36	0	2	NA	NA	NA NA	NA	NA	NA	NA NA	NA	NA NA	NA	NA	NA	NA NA	NA	Lack of Suface Runoff
WS5-R4	6-Sep-22	Fine	11:37	18	1	6.8	6.8	0.03	0.03	24.2	24.2	85.4	85.8	7.16	7.20	2.1	2.1	2	2.0	NA
W 33-K4	6-3ep-22	FILLE	11.37	10	2	6.9	0.0	0.03	0.03	24.2	24.2	86.1	03.0	7.23	7.20	2.1	2.1	2	2.0	INA
WS5-I4			11:52	20	1	6.8	6.8	0.03	0.03	24.2	24.2	86.4	86.3	7.29	7.27	2.1	2.1	1	1.0	NA
-					2	6.8 6.9		0.03		24.2 24.3		86.2 85.6		7.25 7.17		2.1 2.5		1		
WS6-R5			12:07	18	2	6.9	6.9	0.03	0.03	24.3	24.4	85.9	85.8	7.17	7.19	2.6	2.6	1	1.0	NA
WS6-I5			12:23	16	1	6.9	6.9	0.03	0.03	24.4	24.4	85.5	85.6	7.15	7.17	2.6	2.6	2	2.0	NA
W 30-13			12.23	16	2	6.9	0.9	0.03	0.03	24.4	24.4	85.7	00.0	7.18	7.17	2.6	2.0	2	2.0	NA
WS6-C1			10:52	24	2	6.7 6.7	6.7	0.04	0.04	24.2 24.2	24.2	84.4 84.6	84.5	7.04 7.09	7.07	3.2 3.1	3.2	2	2.0	NA
WS6-R6			11:07	20	1 2	6.9 6.9	6.9	0.01 0.01	0.01	24.3 24.2	24.2	85.6 85.8	85.7	7.08 7.11	7.10	3.4 3.4	3.4	2 2	2.0	NA
WS6-I6			11:22	18	1 2	7.0 6.9	6.9	0.01 0.01	0.01	24.2 24.2	24.2	86.3 86.6	86.5	7.18 7.19	7.19	3.5 3.5	3.5	2 2	2.0	NA



^{2.} NA: Not Applicable

^{3.} TBC: To Be Confirm

^{4.} Yellow Highlight equal to exceed Action Level

^{5.} Red Highlight equal to exceed Limit Level

				ے							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	Water Depth (cm)	Replicate	pl	Н	Salinit	y (ppt)	Tempera	ture (°C)	DO Satu	ration (%)	DO (ı	mg/L)	Turbidity	y (NTU)	Total suspe dried at 103 mg		Remarks
_				\$		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			09:45	16	2	6.8 6.8	6.8	0.01	0.01	23.8 23.8	23.8	86.9 86.8	86.9	7.38 7.37	7.38	3.2 3.1	3.1	2	2.0	NA
WS1-I1			10:02	15	1 2	6.8	6.9	0.01 0.01	0.01	23.5 23.4	23.5	87.2 87.0	87.1	7.44 7.40	7.42	2.9	2.9	<1 <1	1.0	NA
WS1-R2			10:22	18	1 2	6.8	6.8	0.01	0.01	23.2	23.2	88.3 88.4	88.4	7.52 7.53	7.53	1.8	1.9	<1	1.0	NA
WS1-I2			10:38	16	1 2	6.8	6.8	0.01	0.01	23.1 23.1	23.1	88.7 88.5	88.6	7.59 7.56	7.58	1.9 1.9	1.9	<1 <1	1.0	NA
WS4-R3			13:06	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS4-I3			13:21	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS5-R4	8-Sep-22	Fine	11:15	19	1 2	7.1 7.1	7.1	0.04 0.04	0.04	24.9 24.9	24.9	87.9 88.1	88.0	7.28 7.30	7.29	2.3	2.3	<1 <1	1.0	NA
WS5-I4			10:56	18	1 2	7.0 7.0	7.0	0.04 0.04	0.04	24.9 24.9	24.9	88.3 88.2	88.3	7.32 7.31	7.32	2.5 2.5	2.5	<1 <1	1.0	NA
WS6-R5			11:51	18	1 2	7.0 7.0	7.0	0.04 0.04	0.04	25.0 25.0	25.0	87.3 87.2	87.3	7.21 7.20	7.21	2.9 2.9	2.9	<1 <1	1.0	NA
WS6-I5			11:33	17	1 2	6.9 6.9	6.9	0.04 0.04	0.04	25.0 25.0	25.0	87.0 87.3	87.2	7.18 7.21	7.20	2.6 2.7	2.6	1	1.0	NA
WS6-C1			12:49	20	1 2	7.2 7.2	7.2	0.03 0.03	0.03	25.2 25.2	25.2	83.2 83.1	83.2	6.86 6.85	6.86	2.0 2.0	2.0	<1 <1	1.0	NA
WS6-R6			12:12	18	1 2	7.0 7.0	7.0	0.02 0.02	0.02	24.2 24.2	24.2	87.2 87.1	87.2	7.31 7.30	7.31	4.3 4.3	4.3	3	2.5	NA
WS6-I6			12:30	17	1 2	7.0 7.0	7.0	0.02 0.02	0.02	24.1 24.1	24.1	87.4 87.2	87.3	7.33 7.32	7.33	4.4 4.3	4.4	1 2	1.5	NA



^{2.} NA: Not Applicable

^{3.} TBC: To Be Confirm

^{4.} Yellow Highlight equal to exceed Action Level

^{5.} Red Highlight equal to exceed Limit Level

				ے							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	'ater Depth (cm)	Replicate	pl	Н	Salinit	y (ppt)	Tempera	iture (°C)	DO Satu	ration (%)	DO (r	mg/L)	Turbidity	y (NTU)	Total suspe dried at 103 mg	, ,,	Remarks
_				≶		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			09:02	18	2	6.6 6.6	6.6	0.01	0.01	22.8 22.8	22.8	86.0 85.7	85.9	7.42 7.39	7.41	4.1 4.1	4.1	4	4.0	NA
WS1-I1			09:18	16	1 2	6.8 6.8	6.8	0.01 0.01	0.01	22.8 22.8	22.8	86.2 86.5	86.4	7.43 7.46	7.45	3.7 3.7	3.7	4	4.0	NA
WS1-R2			09:40	17	1 2	6.6 6.6	6.6	0.01	0.01	22.7 22.7	22.7	88.9 88.7	88.8	7.66 7.65	7.66	1.3	1.3	4	4.0	NA
WS1-I2			09:55	17	1 2	6.7	6.7	0.01	0.01	22.6	22.6	89.3 89.5	89.4	7.72	7.73	1.0	1.0	2	2.0	NA
WS4-R3			10:12	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS4-I3			10:29	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS5-R4	10-Sep-22	Fine	10:43	19	1 2	6.7 6.7	6.7	0.04	0.04	23.7 23.7	23.7	88.6 88.2	88.4	7.49 7.46	7.48	4.3 4.2	4.3	2 2	2.0	NA
WS5-I4			10:59	18	1 2	6.7 6.7	6.7	0.04 0.04	0.04	23.7 23.7	23.7	88.1 87.7	87.9	7.46 7.44	7.45	4.1 4.2	4.2	2 2	2.0	NA
WS6-R5			11:18	18	1 2	6.6 6.7	6.7	0.04 0.05	0.05	23.8 23.8	23.8	89.3 89.8	89.6	7.55 7.58	7.57	8.2 8.2	8.2	4	4.0	NA
WS6-I5			11:37	19	1 2	6.7 6.7	6.7	0.04 0.04	0.04	23.8 23.8	23.8	89.4 88.7	89.1	7.55 7.49	7.52	8.0 8.0	8.0	7	6.5	NA
WS6-C1			11:54	21	1 2	6.8	6.8	0.04	0.04	24.3	24.4	84.5 84.2	84.4	7.07	7.06	3.1 3.1	3.1	2	2.0	NA
WS6-R6			12:10	18	1 2	7.0 7.0	7.0	0.03	0.03	23.3 23.3	23.3	87.6 87.2	87.4	7.48 7.44	7.46	3.6 3.6	3.6	2	2.0	NA
WS6-I6			12:27	17	1 2	7.0 7.0	7.0	0.03	0.03	23.3 23.3	23.3	86.2 86.1	86.2	7.43 7.41	7.42	3.4 3.4	3.4	1 2	1.5	NA



^{2.} NA: Not Applicable

^{3.} TBC: To Be Confirm

^{4.} Yellow Highlight equal to exceed Action Level

^{5.} Red Highlight equal to exceed Limit Level

				ے							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	Water Depth (cm)	Replicate	pl	Н	Salinit	y (ppt)	Tempera	iture (°C)	DO Satu	ration (%)	DO (ı	mg/L)	Turbidit	y (NTU)	Total suspe dried at 103 mg		Remarks
_				\$		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			13:26	17	2	6.6 6.6	6.6	0.01	0.01	23.4	23.4	87.8 87.7	87.8	7.45 7.44	7.45	3.0 2.9	3.0	10 9	9.5	NA
WS1-I1			13:42	16	1 2	6.6 6.6	6.6	0.01 0.01	0.01	23.4 23.4	23.4	87.0 86.8	86.9	7.40 7.37	7.39	2.9	2.9	6	5.5	NA
WS1-R2			13:59	18	1 2	6.9 6.9	6.9	0.01	0.01	23.5	23.4	91.8 91.5	91.7	7.80	7.79	3.4	3.4	3	3.0	NA
WS1-I2			14:14	16	1 2	6.8	6.8	0.01	0.01	23.4	23.4	90.7	90.5	7.62 7.60	7.61	3.6	3.6	2	2.0	NA
WS4-R3			14:30	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS4-I3			14:47	0	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
WS5-R4	13-Sep-22	Fine	15:02	19	1	7.0 7.0	7.0	NA 0.04 0.04	0.04	NA 24.9 24.9	24.9	NA 88.7 88.5	88.6	7.34 7.30	7.32	NA 5.3 5.3	5.3	NA 3 3	3.0	NA
WS5-I4			15:16	17	1 2	7.0 7.0 7.0	7.0	0.04	0.05	24.9 24.9 25.0	25.0	85.3 85.2	85.3	7.21 7.20	7.21	5.9 5.9	5.9	2	2.0	NA
WS6-R5			15:34	18	1 2	7.0 7.0 7.0	7.0	0.05 0.05 0.06	0.06	25.0 25.2 25.2	25.2	90.2 90.4	90.3	7.43 7.44	7.44	5.6 5.6	5.6	4 4	4.0	NA
WS6-I5			15:49	18	1 2	6.9 6.9	6.9	0.04	0.05	25.2 25.2 25.2	25.2	88.2 88.3	88.3	7.32 7.33	7.33	5.6 5.7	5.7	4	4.0	NA
WS6-C1			16:02	21	1 2	7.0 7.1	7.1	0.04 0.04	0.04	25.2 25.6 25.6	25.6	86.9 86.6	86.8	7.10 7.10	7.10	3.4	3.4	4 4	4.0	NA
WS6-R6			16:18	19	1 2	7.0	7.0	0.05	0.06	25.4 25.4	25.4	87.4 87.7	87.6	7.10 7.24 7.28	7.26	6.2 6.3	6.3	2	2.0	NA
WS6-I6			16:35	18	1 2	7.0	7.0	0.04 0.05	0.05	25.4 25.3	25.3	90.6 90.4	90.5	7.44 7.42	7.43	6.2 6.2	6.2	4 4	4.0	NA



^{2.} NA: Not Applicable

^{3.} TBC: To Be Confirm

^{4.} Yellow Highlight equal to exceed Action Level

^{5.} Red Highlight equal to exceed Limit Level

				ے							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	Water Depth (cm)	Replicate	pl	Н	Salinit	y (ppt)	Tempera	ture (°C)	DO Satu	ration (%)	DO (ı	mg/L)	Turbidity	/ (NTU)	Total suspe dried at 103 mg	3 - 105 (°C),	Remarks
_				\$		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			09:13	17	2	6.8 6.8	6.8	0.01	0.01	23.3 23.3	23.3	88.5 88.8	88.7	7.40 7.42	7.41	7.7 7.8	7.8	7 8	7.5	NA
WS1-I1			09:27	16	1 2	6.8 6.8	6.8	0.02	0.02	23.2 23.2	23.2	89.1 89.3	89.2	7.49 7.50	7.50	8.0 8.0	8.0	4	4.0	NA
WS1-R2			09:47	19	1 2	6.8	6.8	0.01	0.01	23.1	23.1	88.3 88.7	88.5	7.57 7.58	7.58	2.7	2.8	2	2.0	NA
WS1-I2			10:09	18	1 2	6.8	6.8	0.01	0.01	23.0	23.0	84.3 84.6	84.5	7.27 7.29	7.28	2.6	2.6	3	3.0	NA
WS4-R3			10:20	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS4-I3			10:36	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS5-R4	15-Sep-22	Fine	10:55	18	1 2	7.0	7.0	0.04	0.05	24.6	24.6	86.9 86.7	86.8	7.22	7.22	3.6	3.6	2	2.0	NA
WS5-I4			11:12	17	1 2	7.0	7.0	0.04	0.04	24.6	24.6	84.3 84.0	84.2	7.10 7.06	7.08	3.7	3.8	2	2.0	NA
WS6-R5			11:29	16	1 2	6.9	6.9	0.04	0.05	24.8	24.8	88.2 88.0	88.1	7.31 7.28	7.30	3.3	3.3	2	2.0	NA
WS6-I5			11:45	16	1 2	6.9 6.9	6.9	0.04 0.05	0.05	24.8 24.8	24.8	88.0 87.3	87.7	7.30 7.25	7.28	3.6 3.6	3.6	2	2.0	NA
WS6-C1			12:02	19	1 2	6.7 6.7	6.7	0.04 0.04	0.04	24.7 24.6	24.6	82.9 82.8	82.9	6.89 6.86	6.88	2.6 2.5	2.6	2	2.0	NA
WS6-R6			12:18	17	1 2	6.9 6.9	6.9	0.04	0.04	24.5 24.5	24.5	83.1 82.7	82.9	6.93 6.89	6.91	2.5 2.5	2.5	1 2	1.5	NA
WS6-I6			12:39	16	1 2	7.0 6.9	7.0	0.04 0.04	0.04	24.5 24.6	24.5	82.3 81.6	82.0	6.87 6.80	6.84	2.4 2.4	2.4	1	1.5	NA



^{2.} NA: Not Applicable

^{3.} TBC: To Be Confirm

^{4.} Yellow Highlight equal to exceed Action Level

^{5.} Red Highlight equal to exceed Limit Level

				ے							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	Water Depth (cm)	Replicate	р	Н	Salinit	y (ppt)	Tempera	ature (°C)	DO Satu	ration (%)	DO (r	mg/L)	Turbidit	y (NTU)	Total suspe dried at 103 mg		Remarks
_				\$		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			09:36	18	2	6.9 6.9	6.9	0.01	0.01	23.2	23.2	88.2 88.0	88.1	7.40 7.39	7.40	3.6	3.6	5 4	4.5	NA
WS1-I1			09:52	16	1	6.8	6.8	0.01	0.01	23.3	23.3	87.5	87.5	7.37	7.37	2.7	2.7	5	5.5	NA
WSI-II			09.32	10	2	6.8	0.0	0.01	0.01	23.3	23.3	87.4	07.5	7.37	1.31	2.7	2.1	6	3.3	NA .
WS1-R2			10:10	20	2	6.8	6.8	0.01	0.01	23.1 23.1	23.1	89.0 89.3	89.2	7.62 7.65	7.64	1.7	1.7	2	2.0	NA
WS1-I2			10:27	18	1	6.6	6.6	0.01	0.01	23.1	23.1	88.6	88.0	7.55	7.52	1.5	1.5	3	3.0	NA
WO1 12			10.21		2	6.6	0.0	0.01	0.01	23.1	20.1	87.4	00.0	7.48	7.02	1.5	1.0	3	0.0	177
WS4-R3			10:48	0	2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS4-I3			11:02	0	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
					2	NA o 7		NA		NA		NA		NA T.O.O.		NA		NA		
WS5-R4	17-Sep-22	Fine	11:17	19	2	6.7 6.7	6.7	0.03	0.03	24.4	24.4	87.7 87.2	87.5	7.33 7.30	7.32	2.2	2.2	<1 1	1.0	NA
WS5-I4			11:33	18	1	6.8 6.8	6.8	0.03	0.03	24.4 24.4	24.4	87.4 86.8	87.1	7.31	7.29	2.3	2.3	1	1.0	NA
					2	6.8		0.03		24.4		86.8		7.26 7.25		2.4		1		
WS6-R5			11:48	18	2	6.7	6.7	0.02	0.03	24.4	24.4	86.4	86.6	7.22	7.24	2.8	2.8	1	1.0	NA
WS6-I5			12:04	18	1 2	6.7 6.7	6.7	0.03	0.03	24.4 24.4	24.4	85.4 84.7	85.1	7.18 7.10	7.14	2.7	2.7	1 <1	1.0	NA
WS6-C1			12:20	20	1 2	6.4	6.4	0.04	0.05	24.4	24.4	77.2 77.0	77.1	6.45 6.43	6.44	2.0	2.1	1	1.0	NA
WS6-R6			12:33	18	1 2	6.9 6.9	6.9	0.04 0.05	0.05	24.4 24.4	24.4	83.6 83.5	83.6	6.98 6.97	6.98	1.8 1.8	1.8	2 2	2.0	NA
WS6-I6			12:50	17	1 2	6.9 6.9	6.9	0.04 0.04	0.04	24.4 24.4	24.4	80.5 80.1	80.3	6.75 6.70	6.73	1.9 1.9	1.9	2 1	1.5	NA



^{2.} NA: Not Applicable

^{3.} TBC: To Be Confirm

^{4.} Yellow Highlight equal to exceed Action Level

^{5.} Red Highlight equal to exceed Limit Level

				ے							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	/ater Depth (cm)	Replicate	pl	Н	Salinit	y (ppt)	Tempera	iture (°C)	DO Satu	ration (%)	DO (r	mg/L)	Turbidit	y (NTU)	Total suspe dried at 103 mg	, ,,	Remarks
_				≶		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			09:28	18	2	6.8 6.9	6.9	0.01	0.01	24.2 24.2	24.2	85.7 85.8	85.8	7.55 7.58	7.57	4.8	4.8	12 13	12.5	NA
WS1-I1			09:43	17	1 2	6.8 6.8	6.8	0.01 0.01	0.01	24.2 24.2	24.2	86.2 85.9	86.1	7.63 7.57	7.60	4.9 5.0	5.0	2 2	2.0	NA
WS1-R2			09:58	22	1 2	6.9 6.8	6.9	0.01	0.01	23.5 23.5	23.5	87.9 88.2	88.1	7.46 7.58	7.52	2.2	2.3	1	1.0	NA
WS1-I2			10:13	16	1 2	6.8	6.8	0.01	0.01	23.5	23.5	87.6 87.5	87.6	7.45 7.40	7.43	2.3	2.3	2	1.5	NA
WS4-R3			10:28	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS4-I3			10:43	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS5-R4	20-Sep-22	Fine	11:44	20	1 2	7.0 6.9	7.0	0.04 0.04	0.04	25.2 25.2	25.2	85.7 85.9	85.8	7.06 7.09	7.08	2.5 2.5	2.5	1	1.0	NA
WS5-I4			12:00	18	1 2	7.0	7.0	0.04	0.04	25.2 25.2	25.2	86.3 86.4	86.4	7.14 7.16	7.15	2.5 2.5	2.5	2	2.0	NA
WS6-R5			12:16	19	1 2	6.8	6.8	0.03	0.03	25.3 25.3	25.3	87.5 87.9	87.7	7.19 7.28	7.24	2.4	2.5	1	1.0	NA
WS6-I5			12:31	18	1 2	6.8	6.8	0.03	0.03	25.3 25.3	25.3	88.0 87.6	87.8	7.33	7.28	2.6	2.6	2	1.5	NA
WS6-C1			10:54	22	1 2	8.0 8.0	8.0	0.03	0.03	25.8 25.7	25.8	82.0 81.8	81.9	6.68	6.67	2.3	2.3	1	1.0	NA
WS6-R6			11:14	21	1 2	7.0	7.0	0.01	0.01	24.5	24.5	85.9 86.4	86.2	7.17 7.29	7.23	5.7 5.5	5.6	1	1.0	NA
WS6-I6			11:29	18	1 2	6.9 6.9	6.9	0.01	0.01	24.5 24.5	24.5	85.7 85.4	85.6	7.14 7.08	7.11	5.6 5.7	5.7	8	8.0	NA



^{2.} NA: Not Applicable

^{3.} TBC: To Be Confirm

^{4.} Yellow Highlight equal to exceed Action Level

^{5.} Red Highlight equal to exceed Limit Level

				ے							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	Water Depth (cm)	Replicate	pl	Н	Salinit	y (ppt)	Tempera	iture (°C)	DO Satu	ration (%)	DO (ı	mg/L)	Turbidity	/ (NTU)	Total suspe dried at 103 mg		Remarks
_				\$		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			09:27	14	1 2	6.6 6.6	6.6	0.01	0.01	23.3 23.3	23.3	88.0 88.5	88.3	7.39 7.42	7.41	3.1 3.1	3.1	6	6.0	NA
WS1-I1			09:42	16	1 2	6.7 6.7	6.7	0.01	0.01	23.1 23.2	23.2	88.7 88.9	88.8	7.43 7.45	7.44	2.6	2.6	4 5	4.5	NA
WS1-R2			10:03	18	1 2	6.9	6.9	0.01	0.01	22.9	22.9	88.7 89.0	88.9	7.61 7.63	7.62	1.1	1.1	2	2.0	NA
WS1-I2			10:14	15	1 2	6.8	6.8	0.01	0.01	22.9	22.9	88.5 88.2	88.4	7.60 7.58	7.59	1.1	1.1	3	3.0	NA
WS4-R3			10:29	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS4-I3			10:40	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
WS5-R4	22-Sep-22	Fine	10:56	19	1 2	6.8	6.8	0.03	0.03	24.6	24.5	87.5 87.4	87.5	7.29	7.29	1.9	1.9	2	2.0	NA
WS5-I4			11:13	17	1 2	6.9 6.9	6.9	0.02	0.02	24.6 24.6	24.6	87.2 87.0	87.1	7.26 7.25	7.26	2.0	2.0	<1 <1	1.0	NA
WS6-R5			11:27	18	1 2	7.0	7.0	0.03	0.03	24.7	24.7	88.7 88.9	88.8	7.37	7.38	2.5	2.6	2	2.0	NA
WS6-I5			11:41	18	1 2	6.8 6.9	6.9	0.03	0.03	24.7 24.7	24.7	88.5 88.8	88.7	7.36 7.38	7.37	2.5 2.6	2.6	2	2.0	NA
WS6-C1			11:57	21	1 2	6.6 6.6	6.6	0.03	0.03	24.9 25.0	24.9	84.3 84.0	84.2	6.97 6.94	6.96	2.3	2.3	2	2.0	NA
WS6-R6			12:16	20	1 2	7.0 7.0	7.0	0.04 0.03	0.04	25.0 25.0	25.0	82.8 83.0	82.9	6.84 6.87	6.86	2.9 2.9	2.9	<1 <1	1.0	NA
WS6-I6			12:29	18	1 2	7.0 7.0	7.0	0.03 0.02	0.03	24.9 25.0	24.9	82.7 83.1	82.9	6.84 6.88	6.86	2.7 2.6	2.6	1	1.0	NA



^{2.} NA: Not Applicable

^{3.} TBC: To Be Confirm

^{4.} Yellow Highlight equal to exceed Action Level

^{5.} Red Highlight equal to exceed Limit Level

				ے		In-situ Measurement													y Analysis		
Monitoring Location	Date	Weather	Time	Water Depth (cm)	Replicate	pH		Salinity (ppt)		Temperature (°C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total suspended solids dried at 103 - 105 (°C), mg/L		Remarks	
_				\$		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.		
WS1-R1			10:11	13	1	6.9	6.8	0.01	0.01	23.2	23.2	86.3	86.2	7.46	7.44	3.7	3.7	3	3.0	NA	
					2	6.7		0.01		23.2		86.0		7.42		3.7		3			
WS1-I1			10:19	17	2	6.6 6.6	6.6	0.01	0.01	23.2	23.2	85.3 85.5	85.4	7.39 7.40	7.40	2.8	2.7	4	4.0	NA	
					1	6.5		0.01		22.9		88.4		7.61		1.5		3		1	
WS1-R2			10:35	18	2	6.5	6.5	0.01	0.01	22.9	22.9	88.2	88.3	7.59	7.60	1.5	1.5	4	3.5	NA	
WS1-I2			10:52	14	1	6.7	6.7	0.01	0.01	23.0	22.9	88.6	88.6	7.61	7.60	1.3	1.3	3	3.5	NA	
WO1 12			10.02		2	6.7	0.1	0.01	0.01	22.9	22.0	88.5	00.0	7.59	7.00	1.3	1.0	4	0.0	147	
WS4-R3			13:10	0	1	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff	
					2	NA NA		NA NA		NA NA		NA NA		NA NA		NA NA		NA NA			
WS4-I3			13:25	0	2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff	
WS5-R4	24 Can 22	Fine	11:14	19	1	6.9	6.9	0.03	0.03	24.2	24.2	87.2	87.1	7.32	7.31	2.2	2.2	<1	1.0	NA	
W 55-K4	24-Sep-22	rine	11:14	19	2	6.9	6.9	0.03	0.03	24.2	24.2	87.0	67.1	7.30	7.31	2.2	2.2	<1	1.0	NA .	
WS5-I4			11:33	20	1	6.9	6.9	0.03	0.03	24.2	24.2	87.1	86.8	7.31	7.30	2.0	2.0	<1	1.0	NA	
					2	6.9		0.03		24.2		86.5		7.29		2.0		1			
WS6-R5			11:47	19	2	6.9 6.9	6.9	0.03	0.03	24.2 24.2	24.2	86.0 85.8	85.9	7.21 7.18	7.20	3.0	3.0	1	1.0	NA	
WS6-I5			12:04	40	1	6.9	6.9	0.03	0.03	24.2	24.2	86.2		7.20	7.20	2.8	2.7	1	4.0		
W 56-15			12:04	18	2	6.9	6.9	0.03	0.03	24.2	24.2	85.9	86.1	7.19	7.20	2.7	2.7	1	1.0	NA	
WS6-C1			12:20	22	1 2	6.2 6.3	6.3	0.04 0.04	0.04	24.4 24.4	24.4	78.6 78.0	78.3	6.56 6.51	6.54	3.4	3.4	1	1.0	NA	
WS6-R6			12:37	20	1 2	7.0 6.9	6.9	0.04 0.04	0.04	24.4 24.4	24.4	77.8 77.6	77.7	6.59 6.57	6.58	2.8 2.7	2.8	2 2	2.0	NA	
WS6-I6			12:51	18	1 2	6.9 6.9	6.9	0.04 0.04	0.04	24.5 24.4	24.4	79.2 79.4	79.3	6.65 6.67	6.66	2.9 2.9	2.9	2 2	2.0	NA	



^{2.} NA: Not Applicable

^{3.} TBC: To Be Confirm

^{4.} Yellow Highlight equal to exceed Action Level

^{5.} Red Highlight equal to exceed Limit Level

			Time	Water Depth (cm)		In-situ Measurement													y Analysis			
Monitoring Location	Date	Weather			Replicate	рН		Salinity (ppt)		Temperature (°C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total suspended solids dried at 103 - 105 (°C), mg/L		Remarks		
_				\$		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.			
WS1-R1			09:17	0	2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff		
WS1-I1			09:32	14	1 2	6.9 6.9	6.9	0.01 0.01	0.01	24.0 24.0	24.0	87.7 87.8	87.8	7.41 7.42	7.42	1.8 1.8	1.8	1	1.0	NA		
WS1-R2			09:46	18	1 2	6.8	6.8	0.01	0.01	23.4	23.4	88.1 88.4	88.3	7.51 7.54	7.53	2.4	2.4	2	2.0	NA		
WS1-I2			10:09	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff		
WS4-R3			10:24	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff		
WS4-I3			10:38	0	1 2	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff		
WS5-R4	27-Sep-22	Fine	10:57	17	1 2	6.9	6.9	0.04	0.04	24.3	24.3	83.9 82.6	83.3	7.02	7.01	2.4	2.4	1	1.0	NA		
WS5-I4			11:12	18	1 2	6.9	6.9	0.03	0.03	24.3	24.3	84.5 84.2	84.4	7.10 7.06	7.08	2.2	2.2	<1 <1	1.0	NA		
WS6-R5			11:28	20	1 2	6.9 6.9	6.9	0.03	0.03	24.4	24.4	85.9 85.4	85.7	7.17 7.13	7.15	2.6	2.4	<1	1.0	NA		
WS6-I5		ŀ		ŀ	11:46	18	1 2	6.9 6.9	6.9	0.03	0.03	24.5	24.5	86.4 86.9	86.7	7.20 7.25	7.23	2.4	2.4	<1	1.0	NA
WS6-C1			12:01	19	1 2	7.2	7.2	0.04	0.04	24.5 24.5	24.5	80.0 79.1	79.6	6.67	6.63	4.3	4.3	<1	1.0	NA		
WS6-R6			12:17	17	1 2	6.9	6.9	0.04	0.05	24.4	24.4	79.1 79.4	79.3	6.60 6.62	6.61	3.3	3.3	6	5.5	NA		
WS6-I6			12:36	15	1 2	7.0 7.0	7.0	0.04 0.04	0.04	24.4 24.4	24.4	80.2 79.9	80.1	6.69 6.67	6.68	2.9 2.9	2.9	2	2.0	NA		



^{2.} NA: Not Applicable

^{3.} TBC: To Be Confirm

^{4.} Yellow Highlight equal to exceed Action Level

^{5.} Red Highlight equal to exceed Limit Level

_				ے		In-situ Measurement													y Analysis	
Monitoring Location	Date	Weather	Time	Water Depth (cm)	Replicate	рН		Salinity (ppt)		Temperature (°C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total suspended solids dried at 103 - 105 (°C), mg/L		Remarks
_				\$		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			09:02	0	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
					2	NA		NA		NA		NA		NA		NA		NA		Eddit of Galace Harrer
WS1-I1			09:17	16	1	6.6	6.6	0.02	0.02	23.1	23.1	87.6	87.7	7.51	7.52	2.6	2.6	<1	1.0	NA
					2	6.6 6.8		0.02		23.1		87.7 87.8		7.52		2.6		<1		
WS1-R2			09:32	18	2	6.8	6.8	0.02	0.02	23.0 23.0	23.0	88.2	88.0	7.56 7.60	7.58	2.8	2.8	<1 <1	1.0	NA
				_	1	NA		NA		NA		NA		NA		NA		NA		
WS1-I2			09:48	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
WS4-R3			10:09	0	1	NA	NA	NA	NA	NA	NA NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
W34-K3			10.09	Ü	2	NA	INA	NA	INA	NA	INA	NA	INA	NA	INA	NA	INA	NA	INA	Edok of Galace Ration
WS4-I3		10:27	0	1	NA NA	NA	NA	NA NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff		
					2	NA		NA		NA		NA		NA		NA		NA		
WS5-R4	29-Sep-22	Cloudy	10:40	17	2	7.0 7.1	7.1	0.04	0.05	23.9	23.9	81.0 80.8	80.9	6.82 6.80	6.81	8.5 8.5	8.5	1 <1	1.0	NA
-					1	6.9		0.05		23.9		80.8		6.77		8.8		<1		
WS5-I4			10:54	16	2	7.0	7.0	0.05	0.05	23.9	23.9	80.2	80.3	6.76	6.77	8.8	8.8	<1	1.0	NA
WS6-R5			11:12	15	1	6.9	6.9	0.05	0.05	23.8	23.8	80.9	80.8	6.83	6.82	8.7	8.7	1	1.0	NA
W 20-K2			11:12	15	2	6.9	6.9	0.05	0.05	23.8	23.8	80.6	80.8	6.81	0.82	8.7	6.7	1	1.0	NA
WS6-I5	6-15		11:28	15	1	6.9	7.0	0.05	0.06	23.8	23.8	79.8	79.5	6.74	6.72	8.2	8.2	<1	1.0	NA
					2	7.0		0.06		23.8		79.2	70.0	6.70	•	8.2	0.2	<1	1.0	
WS6-C1			11:43	17	1	7.2	7.2	0.05	0.06	24.1	24.1	77.0	76.7	6.50	6.48	7.3	7.3	<1	1.0	NA
					2	7.2 7.0		0.06 0.05		24.1 24.2		76.4 84.2		6.45 7.03		7.2 7.2		<1		
WS6-R6			12:06	18	2	6.9	7.0	0.05	0.06	24.2	24.2	84.0	84.1	7.00	7.02	7.2	7.2	<1 <1	1.0	NA
W00 10			40.00	47	1	7.0	7.0	0.04	0.05	24.2	04.0	78.7	70.4	6.88	0.00	6.9	0.0	<1	4.0	
WS6-I6			12:23	17	2	7.0	7.0	0.05	0.05	24.2	24.2	79.4	79.1	6.92	6.90	6.9	6.9	<1	1.0	NA

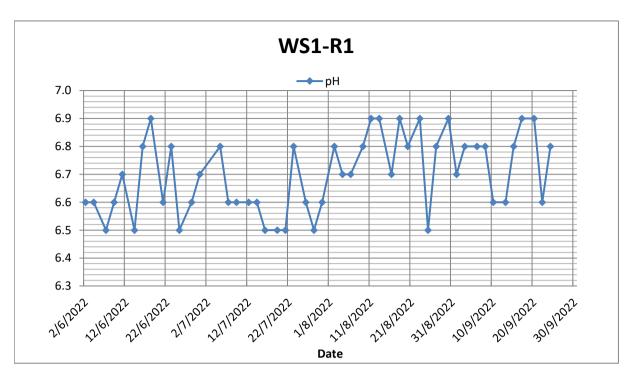


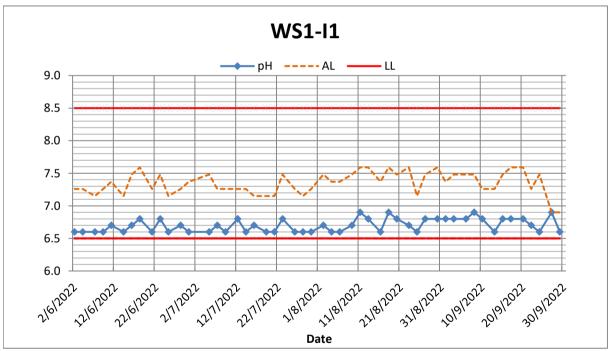
^{2.} NA: Not Applicable

^{3.} TBC: To Be Confirm

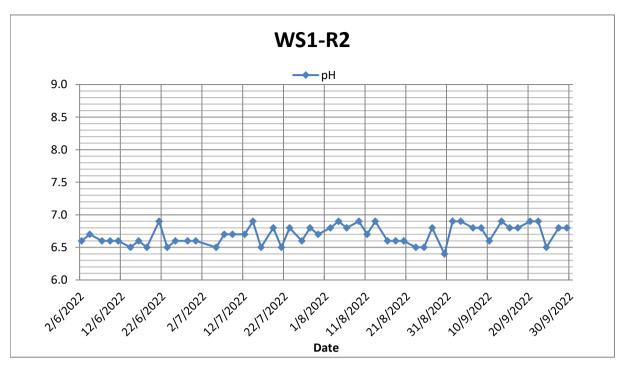
^{4.} Yellow Highlight equal to exceed Action Level

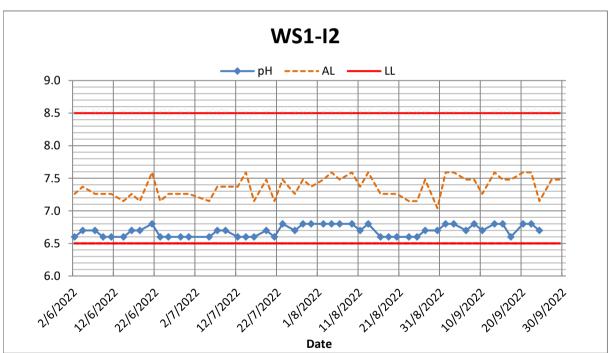
^{5.} Red Highlight equal to exceed Limit Level



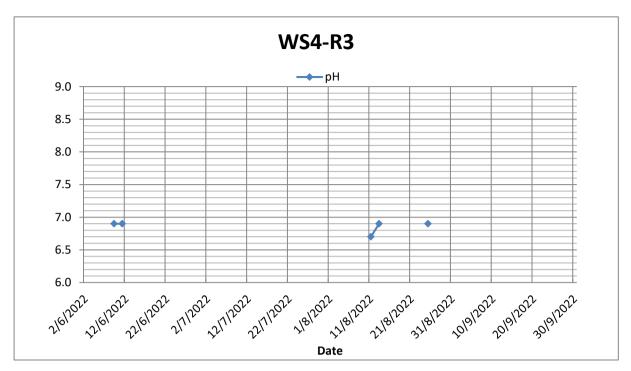


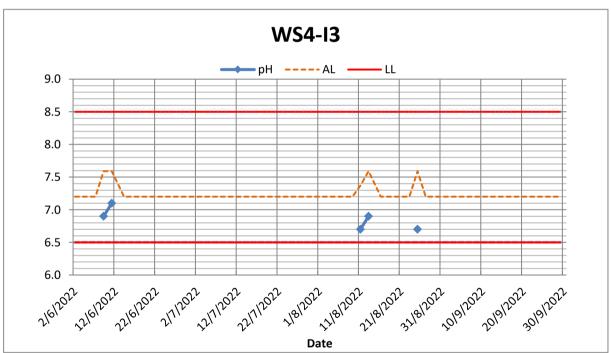




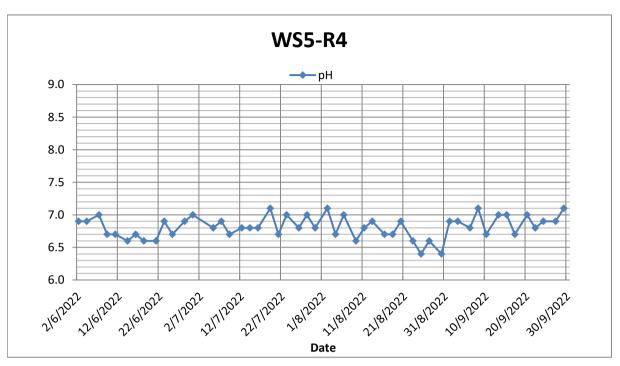


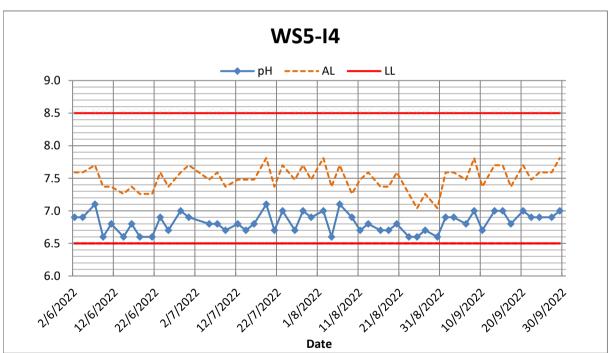




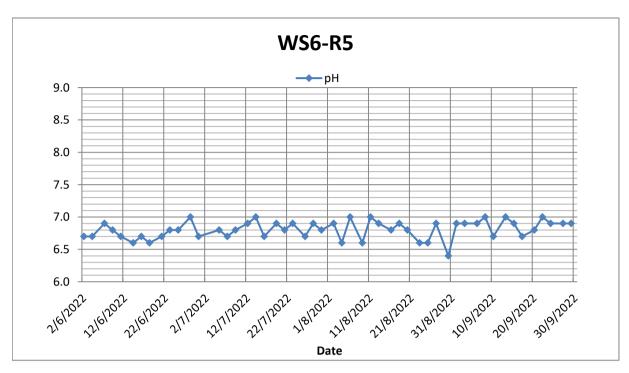


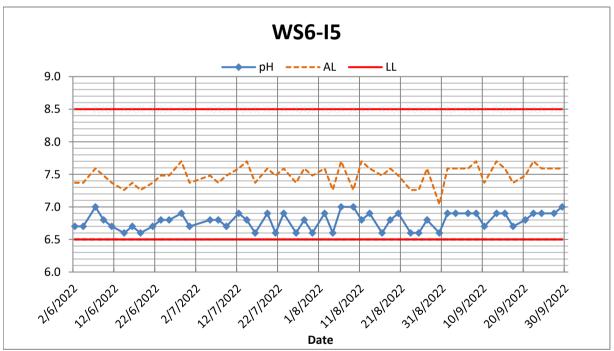




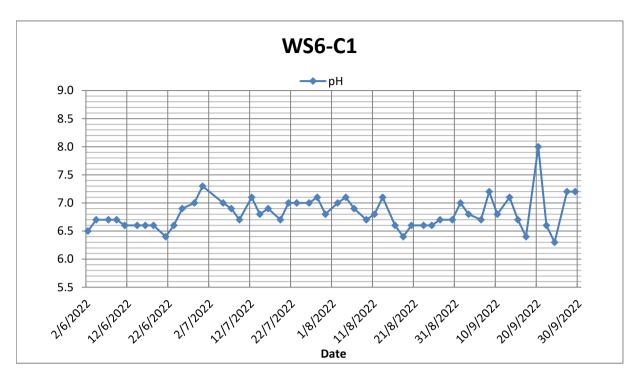


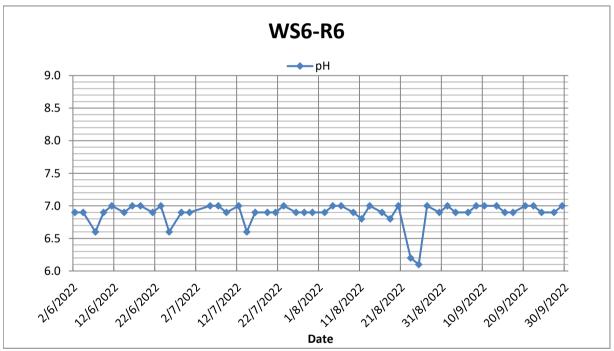




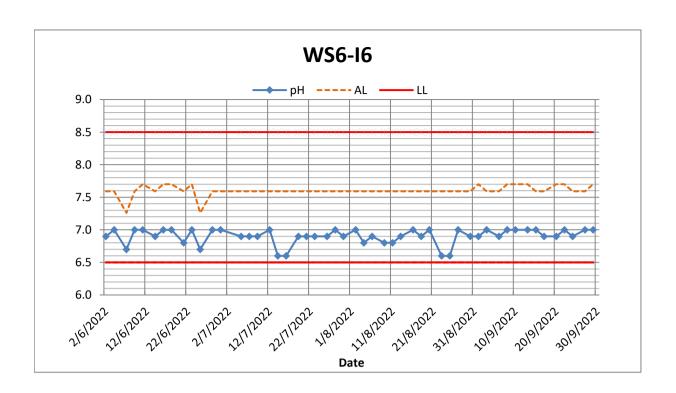




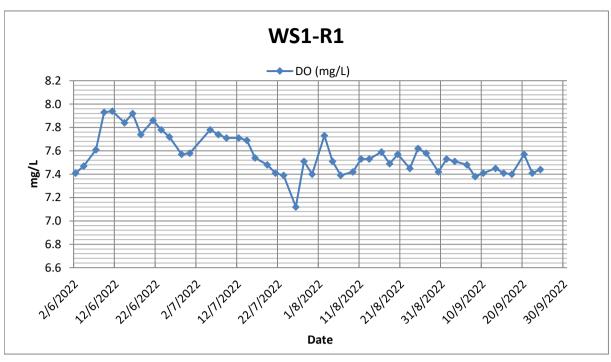


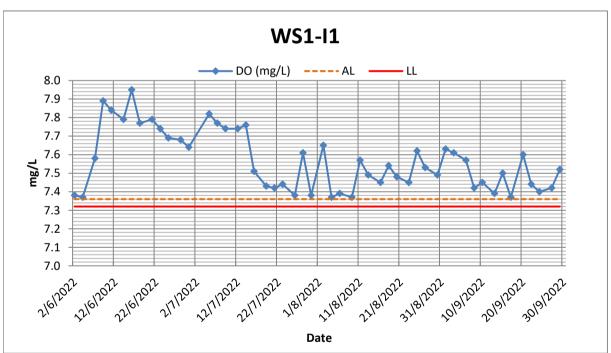






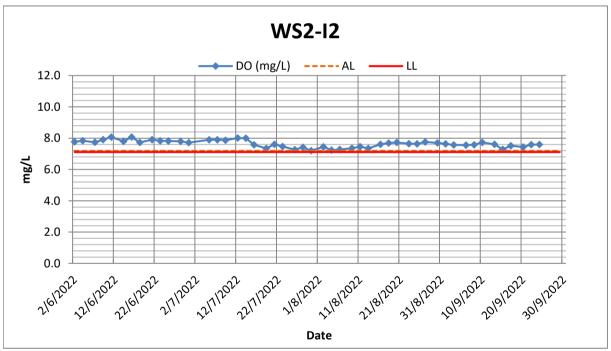




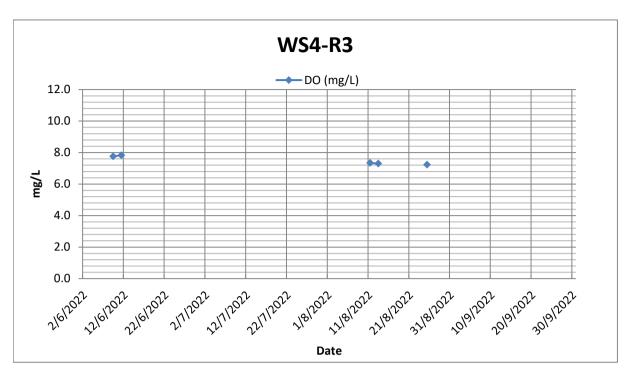


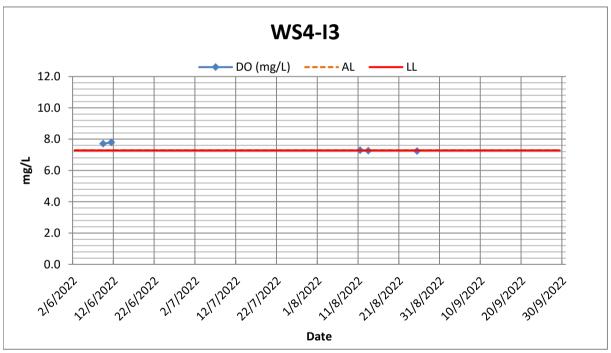




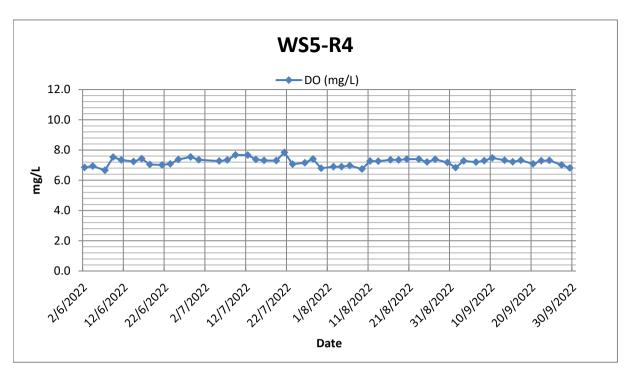


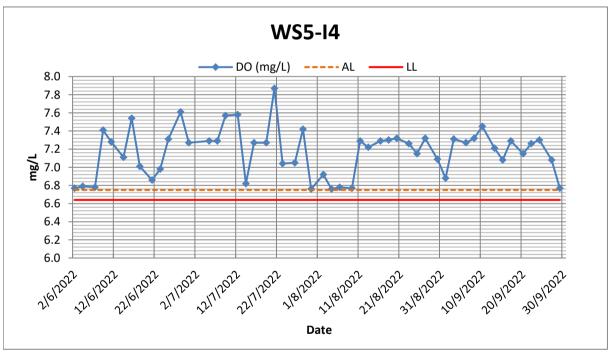




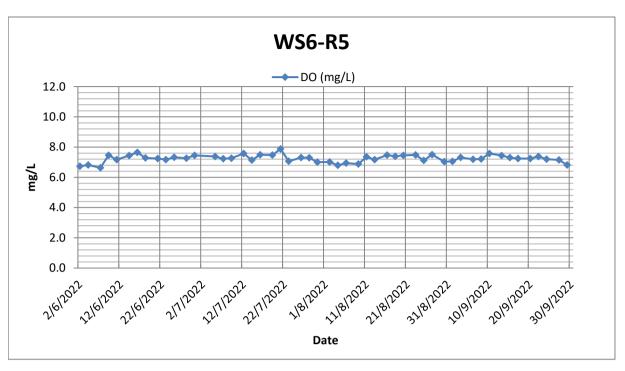


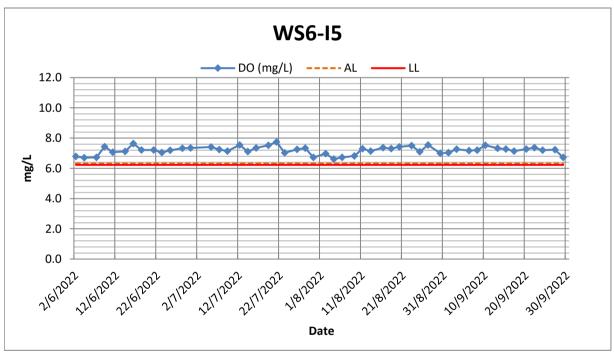




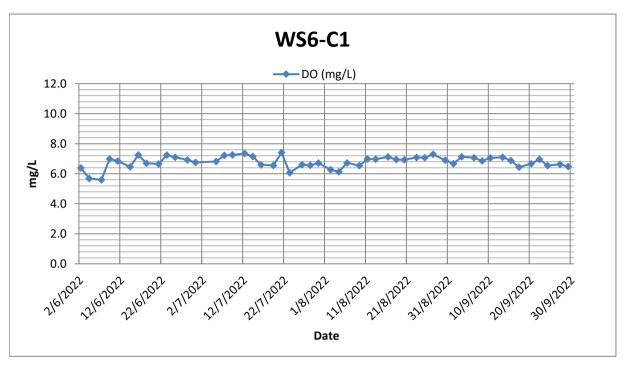


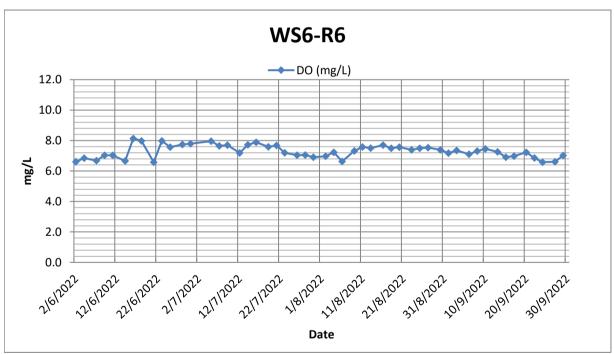




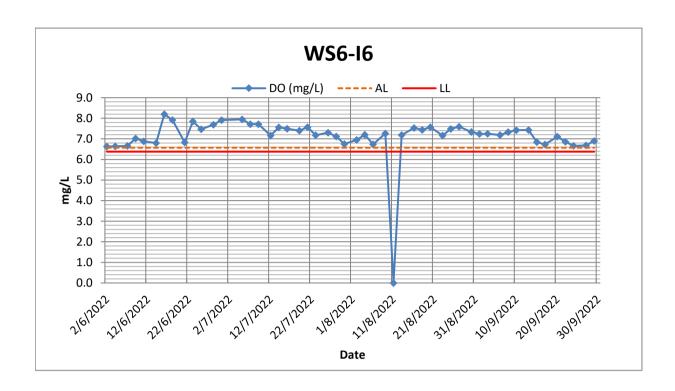




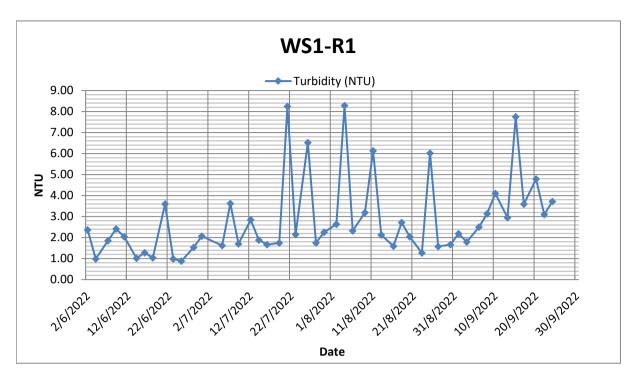


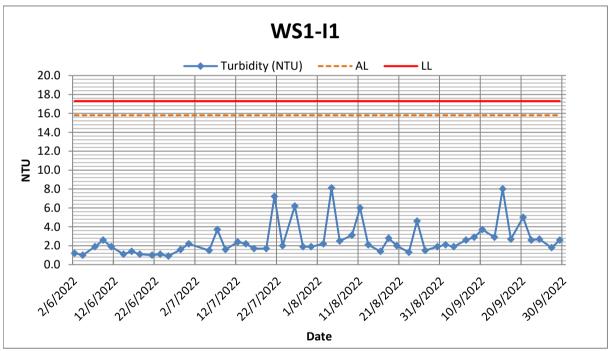




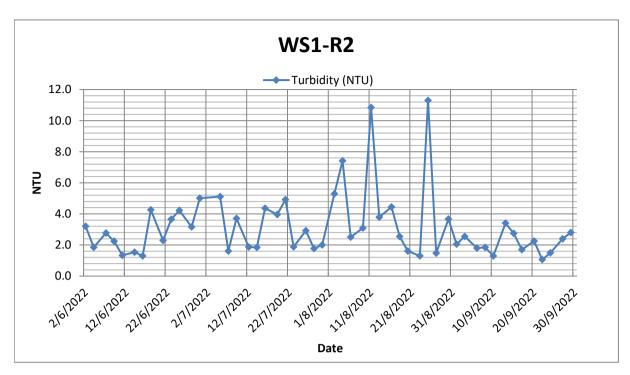


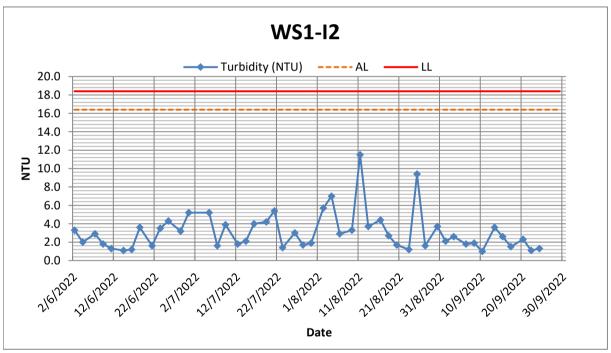




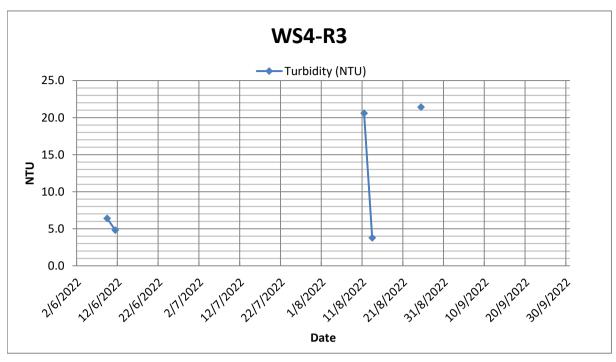


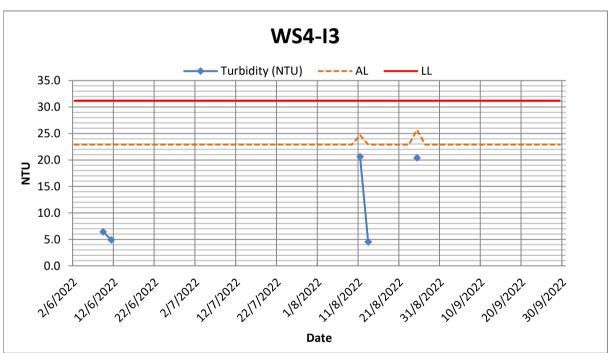




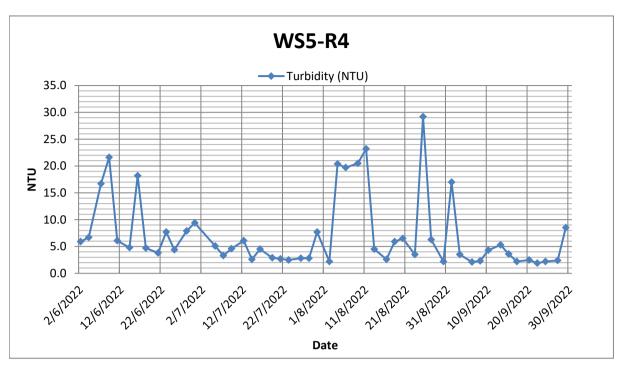


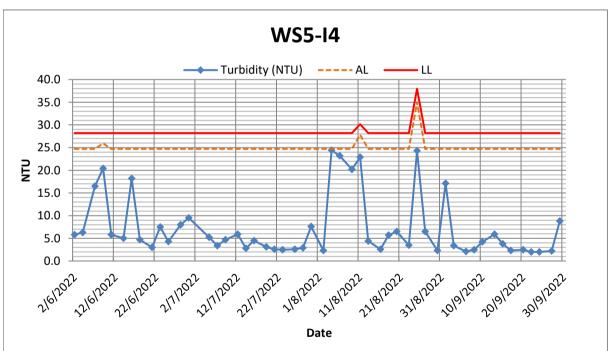




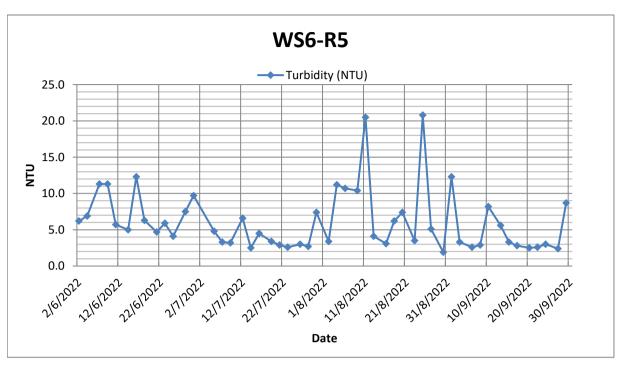


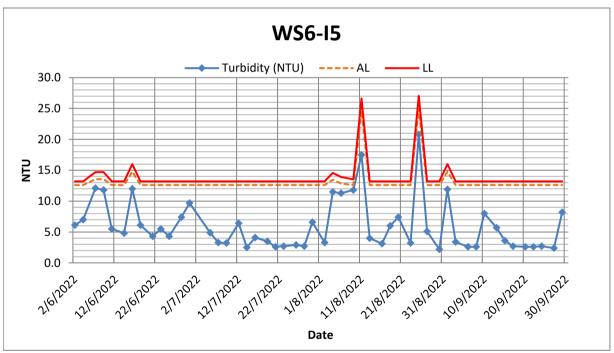




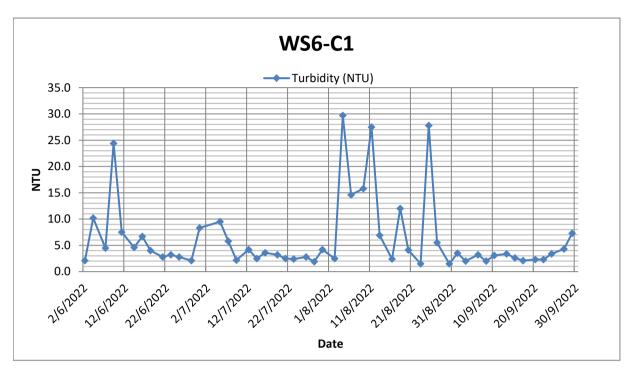


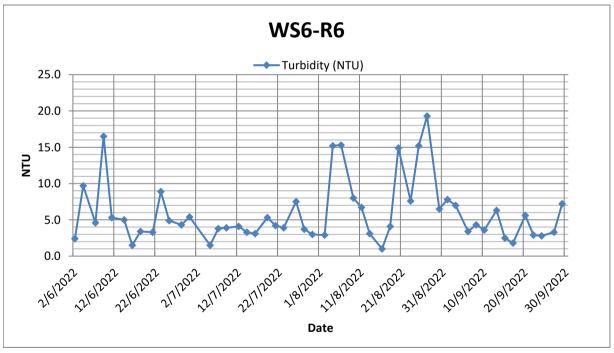




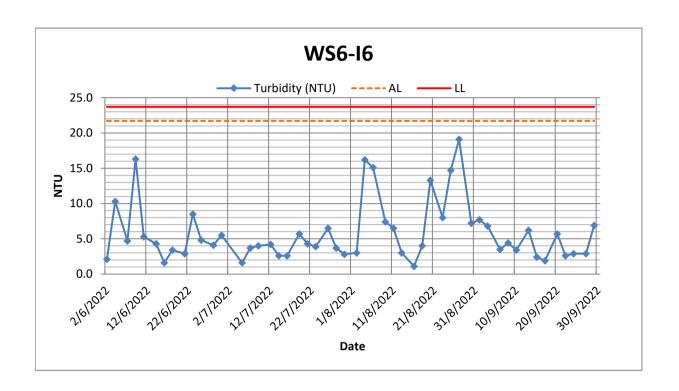




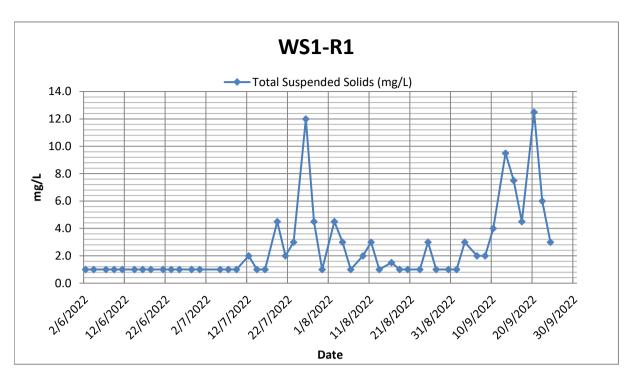


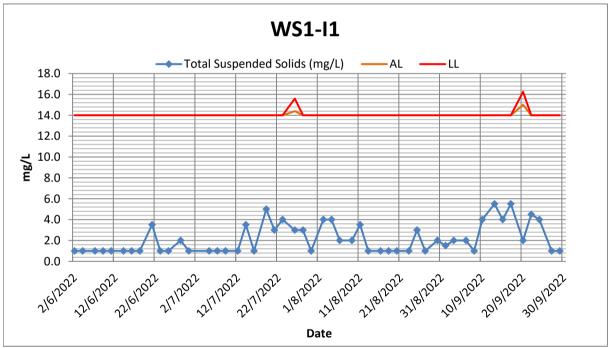




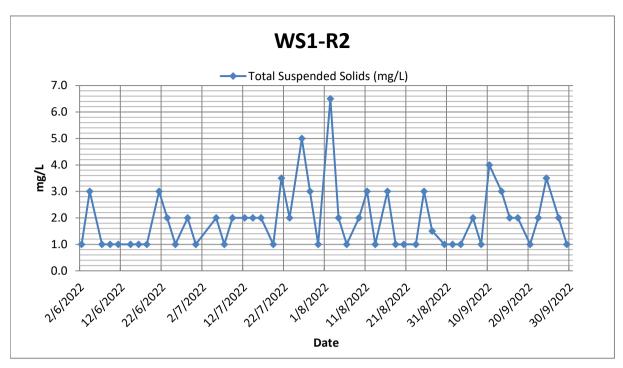


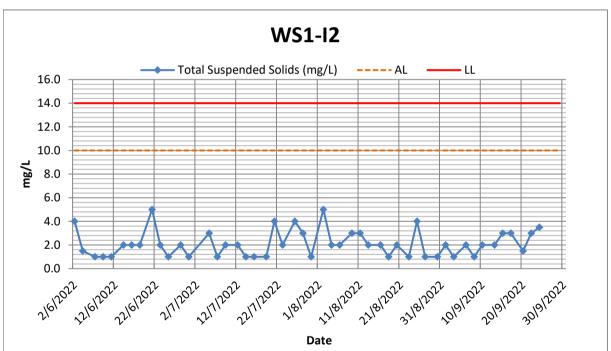




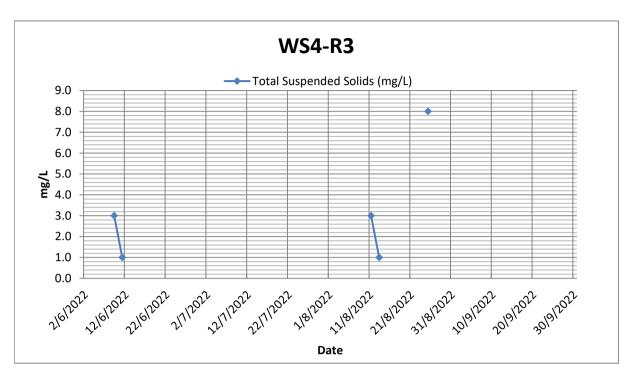


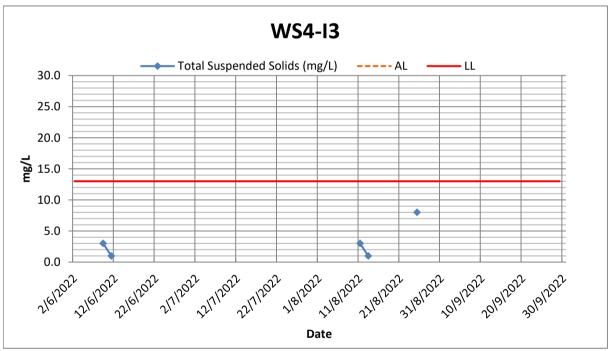




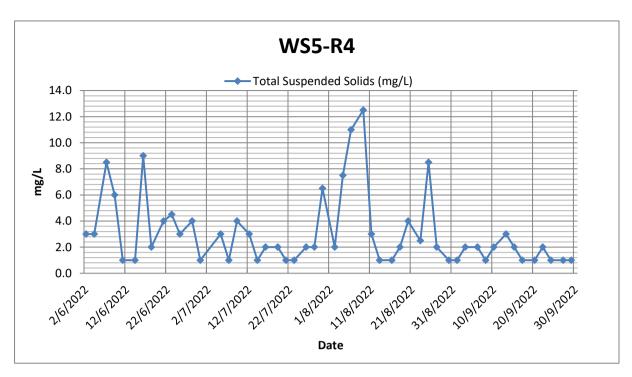


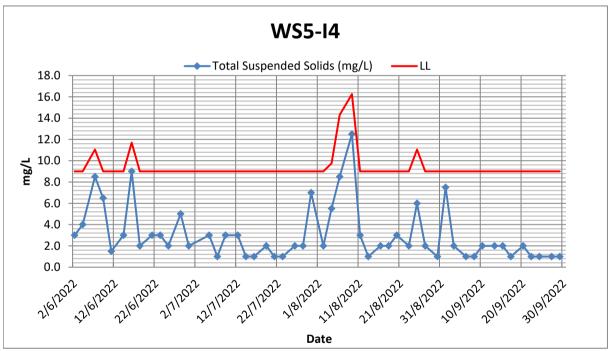




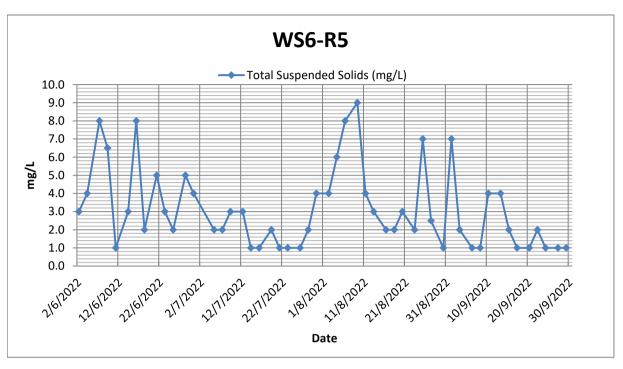


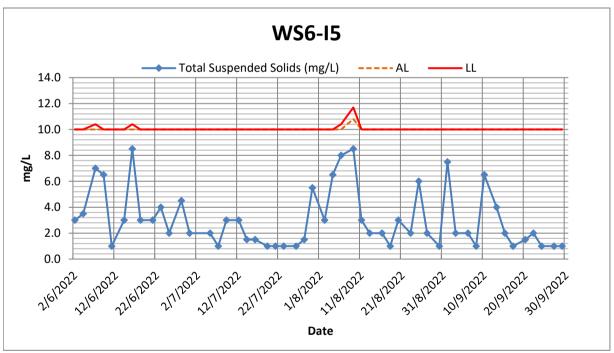




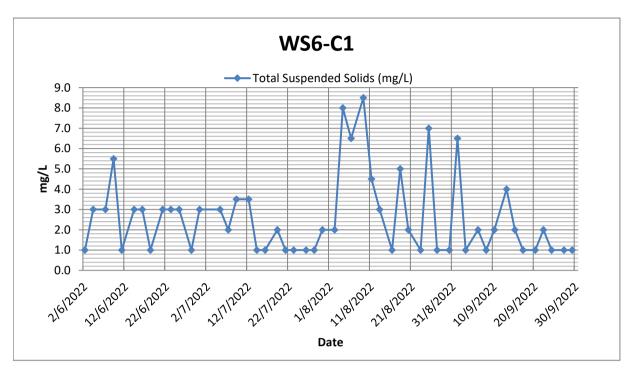


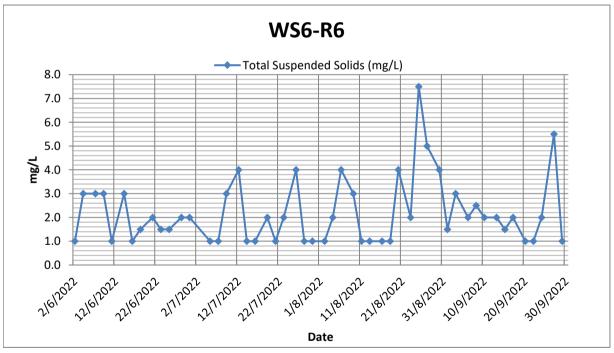




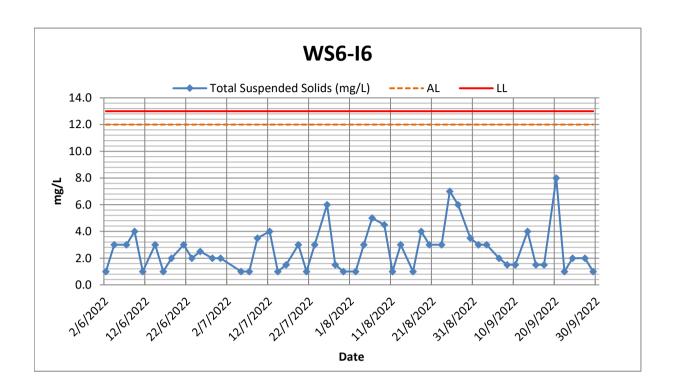














Appendix I Statistics on Exceedances, Complaints, Notifications of Summons and Prosecutions

Statistics on Monitoring Exceedance (Reporting Month)

		. •	No. of Exceedance		
	Reporting Pe	riod	AL	LL	
No. of Exceedance This	Noise		0	0	
Month	Water Quality	рН	0	0	
		DO	0	0	
		Turbidity	0	0	
		Suspended Solids	0	0	

Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	Complaints	Notifications of Summons	Successful Prosecutions
No. of Complaints , Notifications of Summons	0	0	0
and Successful Prosecutions This Month			
Cumulative Project-to-Date	0	0	0

Environmental Complaints Log

-	NIL						
	Log No.	Received	From	By	Complaint	Action	Status
	Complaint	Date of Complaint	Received	Received	Nature of	Investigation/Mitigation	

Remark:



⁽¹⁾ No Complaints, Notifications of Summons or Successful Prosecutions was received in the reporting period.

Appendix J Weather Condition

Date	Mean Pressure (hPa)	Air Temperature			Mean Dew	Mean Relative	Mean Amount To	otal Rainfall
		Absolute Daily	Mean	Absolute Daily	Point (deg. C)	Humidity (%)	of Cloud (%)	(mm)
		Max (deg. C)	(deg. C)	Min (deg. C)				
				September 2				
1	1007.9	32.9	29.4	26.9	25.0	78	71	-
2	1005.9	32.3	29.5	27.3	21.6	63	78	-
3	1002.8	33.9	30.0	26.9	19.5	54	30	-
4	1002.9	34.7	30.8	27.7	20.6	55	26	-
5	1004.4	35.3	31.1	28.8	20.1	52	38	-
6	1008.2	34.5	30.8	28.4	22.3	61	51	-
7	1013.3	29.6	28.4	26.7	24.7	81	86	8.6
8	1014.2	32.8	29.5	27.8	23.3	70	66	Trace
9	1013.1	33.3	29.6	27.5	19.4	55	44	Trace
10	1011.4	31.4	28.9	27.6	24.2	76	59	-
11	1009.1	32.1	29.4	27.4	25.0	78	43	-
12	1007.4	33.7	30.8	28.2	23.1	66	23	-
13	1007.3	35.9	31.7	28.8	21.2	56	5	-
14	1007.0	35.5	31.7	29.6	18.6	46	16	-
15	1005.9	34.5	31.3	28.7	19.9	52	10	-
16	1005.1	33.8	30.8	28.6	22.9	63	36	Trace
17	1006.0	33.9	31.1	29.1	24.4	69	23	Trace
18	1005.7	34.0	30.1	27.4	25.4	77	53	20.3
19	1005.9	32.3	28.8	25.9	24.4	77	79	3.3
20	1008.2	30.7	28.9	26.2	24.8	79	78	3.5
21	1010.7	30.4	28.1	25.8	22.6	72	71	8.5
22	1011.1	31.2	28.5	26.9	23.2	73	52	-
23	1010.8	32.1	28.5	25.6	24.0	77	53	13.4
24	1011.2	31.0	28.3	25.8	22.5	71	75	-
25	1010.4	32.7	28.8	26.9	22.8	71	39	-
26	1009.1	33.7	29.4	27.2	23.2	70	62	-
27	1007.7	32.3	29.2	28.1	23.6	72	86	Trace
28	1008.0	31.2	28.8	27.7	23.5	73	81	-
29	1010.1	29.7	28.0	25.0	24.4	81	84	8.1
30	1012.3	28.3	26.4	24.8	24.8	91	88	102.7

Trace means rainfall less than 0.05 mm

Source: Hong Kong Observatory



Rainstorm Warning Signals

Searching period: [01/09/2022 – 30/09/2022]

Signal colour: [All colours] Total number of records: [2]

Color		Start Time		Duration	
Color	hh mm	dd/mon/yyyy	hh mm	dd/mon/yyyy	hh mm
Amber	10:25	30/Sep/2022	14:15	30/Sep/2022	03 50
Amber	20:10	30/Sep/2022	21:10	30/Sep/2022	01 00

Source: Hong Kong Observatory

