

Monthly EM&A Report (October 2023)

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/0625A
EP No.	:	EP-456/2013/B

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

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

22 November 2023

Dear Dave,

Drainage Improvement Works at Ngong Ping Monthly EM&A Report for October 2023

I refer to the email concerning the captioned. I have no adverse comment on the Monthly Environmental Monitoring and Audit Report for October 2023 (Rev. A) with report number 0118/20/ED/0625A and verify the report according to Conditions 1.9 and 4.4 of Environmental Permit with permit number EP-456/2013/A.

Yours faithfully,

Toamp Jan Bearg

F.C. Tsang Independent Environmental Checker

cc. ETL - Calvin Leung

Document Control

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Client	Drainage Services Department
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Client Contact	Mr. Dave Choi

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EXECUTIVE SUMMARY

i. This is the 34th monthly EM&A Report which summaries the results and findings of the EM&A programme required for the Project from 1 October to 31 October 2023.

Breaches of Action and Limit Levels

Noise

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

<u>Water Quality</u>

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

- Reinstatement of concrete carriageway
- Shrubs planting

Portion B

- Reinstatement of concrete carriageway
- Construction of U-channel
- 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 34th monthly EM&A Report which summaries the results and findings of the EM&A programme required for the Project from 1 October to 31 October 2023.
- **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.

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. Jason Wong	9744 2390
Fugro Technical Services Limited (FTS)	ET Leader	Mr. Calvin Leung	3565 4441

 Table 1.1
 Contact Information of Key Personnel

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

- Reinstatement of concrete carriageway
- Shrubs planting

Portion B

- Reinstatement of concrete carriageway
- Construction of U-channel
- 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
06/10/2023
10/10/2023
17/10/2023
24/10/2023
31/10/2023
Landscape and Visual
06/10/2023
17/10/2023
31/10/2023
Cultural Heritage
24/10/2023
Post-transplantation Works
Floral Protection Measures
17/10/2023

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.
 - ~ 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.

5. MONITORING RESULTS

5.1 Monitoring Methodology

<u>Noise</u>

- 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 in-situ 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

<u>Noise</u>

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

	formering Equipment		
Manufacturer/ Brand	Model	Equipment	Quantity
	CEL-63X Series	Sound Level Meter	2
Casella	CEL-633C	Sound Level Meter	1
	CEL-120/1	Sound Calibrator	2

Table 5.1a Noise Monitoring Equipment

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-1	Multi-parameter Water Quality Meter	1

5.2.5 Relevant calibration certificates are provided in Appendix F2.

5.3 Parameters, Monitoring Date, Time, Frequency and Duration

<u>Noise</u>

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

<u>Noise</u>

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

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

Water Quality

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

				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	
WS4-13	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 ElA
WS6-R6	Upstream reference	807727	813249	WS6/WA4	
WS6-I6	Downstream impact	807762	813285	WS6/WA4	W9 in ElA

Table 5.4 Water Quality Monitoring Locations

* 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).

5.5 Results and Observations

<u>Noise</u>

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	Μ	oni (F	toring R Range) ⁽²	esults	Action Level	Limit Level ⁽¹⁾
NSR1 Columbarium of Po Lin Monastery	59.3	-	60.7	dB(A)		70 dB(A)
NSR5 Village House No. 49A	55.8	-	57.6	dB(A)	When one documented complaint is received.	75 dB(A)
NSR8 Village House No. 34	56.3	-	57.0	dB(A)		75 dB(A)

Note:

(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.

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.

Parameter(s)			DO in n	1g/L				Т	urbidity i	n NT	U				pН				Su	sper	ded So	lids	in mg/L	
Station(s)	Min	-	Max	(Mean)	Min	-	Max	(Mean)	Min	-	Max	(Mean)	Min	-	Max	(Mean)
WS1-R1	7.64	-	8.62	(8.14)	1.00	-	4.40	(2.39)	6.60	-	8.70	(6.9 3)	1.0 0	-	2.0 0	(1.3 6)
WS1-I1	0.00	-	0.00	(0.00)	0.00	-	0.00	(0.00)	0.00	-	0.00	(0.00)	0.0 0	-	0.0 0	(0.00)
WS1-R2	7.60	-	8.59	(8.02)	1.26	-	4.14	(2.68)	6.60	-	8.40	(6.95)	1.0 0	-	3.0 0	(1.54)
WS1-I2	7.42	-	8.60	(7.93)	1.40	-	4.20	(3.11)	6.60	-	8.40	(6.92)	1.0 0	-	3.5 0	(1.59)
WS4-R3	0.00	-	0.00	(0.00)	0.00	-	0.00	(0.00)	0.00	-	0.00	(0.00)	0.0 0	-	0.0 0	(0.00)
WS4-13	0.00	-	0.00	(0.00)	0.00	-	0.00	(0.00)	0.00	-	0.00	(0.00)	0.0 0	-	0.0 0	(0.00)
WS5-R4	6.76	-	8.47	(7.39)	1.20	-	6.40	(3.83)	6.60	-	8.10	(6.85)	1.0 0	-	6.0 0	(2.54)
WS5-14	6.76	-	8.08	(7.23)	4.20	-	5.90	(5.38)	6.60	-	6.70	(6.68)	2.0 0	-	7.0 0	(4.00)
WS6-R5	0.00	-	8.45	(7.34)	1.90	-	9.80	(4.15)	6.60	-	8.20	(6.88)	1.0 0	-	8.0 0	(3.27)
WS6-I5	6.40	-	8.40	(7.24)	2.10	-	10.1 0	(4.15)	6.60	-	8.00	(6.89)	1.0 0	-	6.0 0	(2.81)
WS6-C1	6.60	-	8.50	(7.75)	1.80	-	7.30	(4.41)	6.30	-	8.00	(6.94)	1.0 0	-	2.0 0	(1.50)
WS6-R6	6.90	-	8.60	(7.85)	1.50	-	5.00	(3.15)	6.90	-	9.00	(7.15)	1.0 0	-	3.0 0	(1.62)
WS6-I6	6.90	-	8.60	(7.78)	1.80	-	5.00	(3.11)	6.90	-	8.00	(7.05)	1.0 0	-	3.0 0	(1.62)

Table 5.6 Summary of Water Quality Monitoring Results

Remark:

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

Other factor influencing the monitoring results

<u>Noise</u>

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

<u>Noise</u>

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

NSR	Predicted M Construction No	itigated vise Levels ⁽¹⁾	Мо	nitoring Resul (Range)	ts
NSR1 Columbarium of Po Lin Monastery	55 - 70	dB(A)	59.3	- 60.7	dB(A)
NSR5 Village House No. 49A	48 - 86	dB(A)	55.8	- 57.6	dB(A)
NSR8 Village House No. 34	51 - 73	dB(A)	56.3	- 57.0	dB(A)

Table 5.7 Comparison of Noise Monitoring Data with EIA Predictions

Note

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

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

5.6.3 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.

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

6.1 Non-compliance (Exceedances)

<u>Noise</u>

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

- Reinstatement of concrete carriageway
- Shrubs planting

Portion B

- Reinstatement of concrete carriageway
- Construction of U-channel
- 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 34th monthly EM&A Report which summaries the results and findings of the EM&A programme required for the Project from 1 October to 31 October 2023.

<u>Noise</u>

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	
* NCDet N	laisa Canaitiya Dagaiyara		

* NSRs: Noise Sensitive Receivers

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

Figure 2c Water Quality Monitoring Locations



Туре
Upstream reference
Downstream impact
Intermediate Control
Upstream reference
Downstream impact





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	% completed	Time Risk	2020年	,	2021年	
							_	Allowance	前半年	後半年	前半年	侈
1	DC/2019/06 Revised Programme	1047 days	2020/8/13	2024/2/22								_
2	CONTRACT KEY DATES	1047 days	2020/8/13	2024/2/22								_
3	Clause X5 Sectional Completion Date Data	1047 days	2020/8/13	2024/2/22								_
4	DC/2019/06 Starting Date	0 days	2020/8/13	2020/8/13						13/8		
6	Revised Contract Completion Date	1047 days	2020/8/13	2024/2/22								_
7	Works Duration of Section 1 (Portion 3A)	675 days	2020/8/13	2022/11/21								
8	Works Duration of Section 2 (Portion 3B & 3C)	684 days	2020/8/13	2022/12/1								
9	Works Duration of Section 3 (Portion 1C, 1D, 1E & 1F)	620 days	2020/8/13	2022/9/15								
10	Works Duration of Section 4 (Portion 1A & 1B)	478 days	2020/8/13	2022/3/23								
11	Works Duration of Section 5 (Portion 2A & 2B)	1047 days	2020/8/13	2024/2/22								
12	Planned Completion Date (with potential CE included)	458 days	2022/4/7	2023/10/25								
13	Revised Date of Completion of Works under Section 1 (Portion 3A)	0 days	2023/2/28	2023/2/28	531,532							
14	Revised Date of Completion of Works under Section 2 (Portion 3B & 3C)	0 days	2022/12/28	2022/12/28	533,664							
15	Revised Date of Completion of Works under Section 3 (Portion 1C, 1D, 1E & 1F)	0 days	2022/12/1	2022/12/1	249,265,272,187							
16	Revised Date of Completion of Works under Section 4 (Portion 1A & 1B)	0 days	2022/4/7	2022/4/7	156							
17	Revised Date of Completion of Works under Section 5 (Portion 2A & 2B)	0 days	2023/10/25	2023/10/25	449,455,456							
18												

30 31 32 33 34 35 36 37 38 39 40 41 42 43	
$ \frac{36}{37} $ $ \frac{38}{38} $ $ \frac{39}{40} $ $ \frac{41}{42} $ $ \frac{43}{44} $	
$\frac{41}{42}$ $\frac{43}{44}$	
$\frac{45}{46}$	
$ \begin{array}{r} 52 \\ 53 \\ 54 \\ 55 \\ 56 \end{array} $	
$ \frac{57}{58} $ $ \frac{59}{60} $ $ \frac{61}{62} $	
要徑分隔 Summary Inactive Task Duration-only Inish-only J Progress Task Project Summary Project Summary Inactive Milestone ◇ Manual Summary Rollup Deadline 受 要徑 External Tasks Inactive Summary Manual Summary Critical External Tasks	
Milestone	



Cont	ract No: DC/2019/06 - 3	Drainage Improver	nent Works in Northern New	w Territories (remaining wo	rks), Southern	Hong Kong Islan	d & Ngong Ping								Date: 2023/1
別碼	Task Name			工期	開始時間	完成時間	前置任務	後續任務	% complete	d Time Risk Allowance	2020年 前半年 後半年	2021年 前半年 1	2022年 後半年 前半年		23年 前半年 後半年	2024年 前半年 後半
443	-						I					/44				
444																
445	-															
440	-															
448	-															
449 450	-															
451	-															
452	-															
454	-															
455	-															
450	LOCATION L3 - NGONG F	PING		754 da	rs 2020/8/13	2023/2/28								++		
458	Access date			0 days	2020/8/13	2020/8/13		459	100%		● _13/8					
459	Preparation works Subletting and design for	· PM's accommodation (M	(^)	50 days	2020/8/13	2020/10/12	458 459	460 461	100%	2 davs						
461	Fabrication of PM's accor	mmodation off site		50 days	2020/10/13	2020/12/10	460	462	100%	2 days						
462	Site hoarding/chain link fo	fence and project signboar	d at works area	15 days	2021/2/11	2021/3/3	461	463	100%							
463	Erection of PM's accomm Works Area 3B	nodation (subject to PM's a	agreement)	50 days	2021/3/4 s 2020/8/13	2021/5/6	462		100%							
465	Access date			0 days	2020/8/13	2020/8/13		466FS+141 days,4671	E 100%		♦ 13/8					
466	Preparation works	· · · · · ·		42 days	2021/2/1	2021/3/24	465FS+141 days		100%			-				
467	PORTION 3A - DN1800	lence		754 days	z021/2/1 s 2020/8/13	2021/4/1 2023/2/28	403FS+141 days		100%						•	
469	Access date			0 days	2020/8/13	2020/8/13		471FS+21 days,472F.	5-100%		♦ 13/8					
470	Preparation Works for	r Portion 3A and 3B		198 day	rs 2020/8/13	2021/4/15	460ES+21 dave		100%							
472	Preparation works	urement		12 days	2020/9/7	2020/12/14	469FS+141 days	473	100%			• ↓				
473	Application of Lant	tau closed road permits		22 days	2021/2/18	2021/3/15	472	195	100%			•				
474	Initial survey			13 days	2021/2/1	2021/2/18	469FS+141 days	475	100%		_					
476	Underground utitlie	es detection		39 days	2021/2/1	2021/3/20	469FS+141 days		100%			4				
477	Liaison with represe	entatives of Ngong Ping V	illage, Po Lin Monastery & NP 360	45 days	2021/2/18	2021/4/15	469FS+153 days		100%	0.1		_				
478	DN1800 (approx. 200	T and IEC & baseline mor	utoring	754 day	s 2020/8/13 s 2020/8/13	2020/12/31	469		100%	2 days						
480	Establishing method	d statement and obtaining	approval	60 days	2020/8/13	2020/10/23			100%						•	
481	Obtain approval of C	CEDD & AFCD for Trans	plantation of cherry trees	191 day	s 2020/8/13	2021/4/7	491ES 2 dovo	482FS+3 days	100%	2 days	_					
482	installation of settler	ment monitoring points an	d baseline monitoring works	14 days	2021/4/12 2021/5/11	2021/5/10	4811-5+5 days 482	485	100%							
484	Application of VEP			28 days	2021/8/18	2021/9/18		490,493	100%				-			
485	Trial pit excavation	1 (rox 120m)		5 days 372 day	2021/5/28	2021/6/2	483	487,510	100%			<u>'</u>				
487	Construction of 1	launching pit at L305		23 days	2021/6/21	2021/7/17	485	495,488	100%					•		
488	PMI 023 Incleme	ent weather (July 2021)		1 day	2021/7/19	2021/7/19	487	489	100%			5				
489	Construction of I Construction of r	receiving pit at L305		7 days 15 days	2021/7/20	2021/1/27	488	495	100%	2 days		•	1			
491	PMI 031 Incleme	ent weather (Oct 2021)		2.5 day	3 2021/10/9	2021/10/12	490	492	100%							
492	Construction of r	receiving pit at L305A	11305	15 days	2021/10/12	2021/10/30	491	504	100%		_					
494	PMI 031 Incleme	ent weather (Oct 2021)	1 L303	21 days 2 days	2021/9/20	2021/10/19	493	495	100%							
495	TBM pipe jackin	ng between L305 to L305	A (120m approx, 3m/day)	78 days	2021/10/20	2022/1/21	487,489,494	496	100%	4 days						
496 497	Work suspension Slow Progress (50	aue to changing of grindi (0%) due to Out of Tolerar	ng aise due to hard material	8 days 9 days	2022/1/22 2022/2/4	2022/1/31 2022/2/14	495 496	497	100%		_		1			
498	Work suspension	due to Covid-19		3 days	2022/2/15	2022/2/17	497	499	100%				L.			
499	Slow Progress (25	5%) due to Unexpected Pl	nyisical Condition	21 days	2022/2/18	2022/3/14	498	500	100%				•			
200	work suspension	TOT AUDITION OF JACK AT DAG	IN Supporting due to Out of Tolerance	/ days	2022/3/15	2022/3/22	477	501	100%				٣			
501	Work suspension	due to Recast of Jack Sup	oport due to Unexpected Ground Cond	dition 13 days	2022/3/23	2022/4/7	500	502	100%							
502	Work suspension	due to changing of generation	al parts	6 days	2022/4/8	2022/4/14	501	503	100%							
503	Work suspension	due to addition of jack at	TBM head due to unexpected ground	condition 5 days	2022/4/19	2022/4/23	502	504,505	100%							
		要徑分隔	Summary	-	■ Ir	active Task		Duration-only	_	Finish	-only 🛛		Progress			
		Task	Project Sum	mary 🛡	Ir	active Milestone	\diamond	Manual Summary Ro	llup 🚽	Deadl	ne 🗣		要徑			
		Split	External Tas	sks	Ir	active Summary	\bigtriangledown	Manual Summary	-	Critica	d 💻					
		Milestone	◆ External Mil	lestone 🔶	N	anual Task	Γ	Start-only	E	Critica	ıl Split					

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識別碼 Task Nam	ne		工期	開始時間	完成時間	前置任務	後續任務	% completed	Time Risk Allowance	2020年 前半年	<u>202</u> 後半年 育	21年 前半年	1
504	Setup of Launching Pit at L305A (for TBM extraction and L305A to C	Outfall)	48 days	2022/4/25	2022/6/22	492,503	506,519	100%					
505	Site Clearance of L305		25 days	2022/4/25	2022/5/25	503	514	100%					
506	Extraction of TBM from L305A by Handshield Excavation		54 days	2022/6/23	2022/8/25	504	507	100%					
507	Installation of Remaining 11m Jacking Pipe		13 days	2022/8/26	2022/9/9	506	508	100%					
508	Air Test of L305-305A		7 days	2022/9/10	2022/9/19	507	521	100%					
500 T	305 - Intake No 3 (approx 40m)		440 davs	2021/6/15	2022/12/14	507	021	10070					_
510	Received CE No. 007 regarding revised design of proposed DN1800 d	rainage between	1 day	2021/6/15	2021/6/15	185	511	100%				Ť	
510	L305 & Intake No. 3	lanage between	1 day	2021/0/15	2021/0/15	105	511	10070				· · · ·]	
511	Tendering & Re-tendering of revised design between L305 & Intake N	Jo 3 [CE No. 007]	120 days	2021/6/16	2021/11/6	510	512	100%				*	_
511	Tendering & Ne tendering of ferised design between Esos & make f	10.5 [CE 110. 007]	120 augs	2021/0/10	2021/11/0	510	512	10070					
512	Obtaining approval for award of tender for the hand-dug tuenneling w	orks	90 days	2021/11/8	2022/2/26	511	513ES-7 days	100%					
512	Setur access for Construction of receiving nit at Intake 3	ond	25 days	2022/2/19	2022/3/19	512FS-7 days	514	100%					
513	Sotting up for hand diaging launching pit		67 days	2022/2/15	2022/3/17	505 512	515	100%					
515	Treambless has using head dispine between I 205 to Intole No 2 (40m	annuar 1m/day)	50 days	2022/3/20	2022/0/15	505,515	516	100%	1 1000				
515	Trechniess by using hand digging between L505 to intake 10.5 (4011	approx, III/day)	J9 days	2022/0/15	2022/10/23	514	510	100%	4 days				
516	Dipo Installation		28 days	2022/10/26	2022/11/26	515	517	100%					
510			20 days	2022/10/20	2022/11/20	515	507.520	100%					
517	Air Test and Site Clearance		15 days	2022/11/28	2022/12/14	510	527,530	100%					
518 L	_305A - Outfall No.2 (approx. 40m)		179 days	2022/6/23	2023/1/28	7.0.1							
519	Seek local consent for access		5 days	2022/6/23	2022/6/28	504	520	100%					
520	Construction of receiving pit at Outfall No.2		59 days	2022/6/29	2022/9/6	519	522,574	100%					
521	Treenhless by using hand digging between L305A to Outfall No.2 (40 0.1m/day))m approx,	76 days	2022/9/20	2022/12/19	508	524	100%	4 days				
522	Setup of Handsheild at Outfall 2		11 days	2022/9/7	2022/9/20	520	523	100%					
523	Trechless by using hand digging between Outfall No 2 to I 305Δ (4)	Om approx	75 days	2022/9/21	2022/12/19	522	524,529	100%					
	0.2m/day)	our approve,		202217121			52,,527	10070					
524	Pipe Installation		14 days	2022/12/20	2023/1/7	521,523	525	100%					
525	Air Test and Site Clearance		15 days	2022/12/20	2023/1/28	524,525	528	100%					
525	Construction of Structures		50 down	2023/17/	2023/1/20	524	520	10070					
520	Construction of MILL 205		10 days	2022/12/15	2023/2/20	517	521 522	10007	2 dans				
527	Construction of MH L305		40 days	2022/12/15	2023/2/0	517	551,552	100%	2 days				
528	Construction of MH L305A		26 days	2023/1/30	2023/2/28	525	531,532	100%	2 days				
529	Construction of Outfall No. 2		40 days	2022/12/20	2023/2/10	523	531,532	100%	2 days				
530	Construction of Intake No.3		40 days	2022/12/15	2023/2/6	517	531,532	100%	2 days				
531 Plar	nned completion date of Section 1 (Portion 3A)		0 days	2023/2/28	2023/2/28	527,528,529,530	13	100%					
532 Sect	tional Completion of Section 1 (Portion 3A)		0 days	2023/2/28	2023/2/28	527,528,529,530	13	100%					
533 PORT	ION 3B - DN1500 & Box Culvert team C		705 days	2020/8/13	2022/12/28		14			, e			_
534 Ac	rcess date		0 days	2020/8/13	2020/8/13						13/8		
535 DN	V1500 by TBM (approx. 440m)		705 days	2020/8/13	2022/12/28					e e	·		_
536	Establishing method statement and obtaining approval		70 days	2020/8/13	2020/11/5		537	100%					
537	Set up of environmental mitigation measures		70 days	2020/11/6	2021/1/29	536	538	100%					
538	Trial nit excavation		2 days	2021/1/30	2021/2/1	537	541	100%				r	
530	Construction of recouving pit at I 201A		2 days	2021/1/50	2021/2/1	540	551 563	100%	1 dava		1		
540	Construction of receiving pit at L204A		26 dovo	2021/3/3	2021/0/9	541	542 520	10070	4 days				
540	Construction of federating pit at L303		20 days	2021/3/30	2021/3/4	520	545,559	100%	4 days		1 ±		
541	Construction of jacking pit at L502		45 days	2021/2/2	2021/5/29	558	540,542	100%			-	━ <u>↓</u>	
542	Setting up of TBM at L302		32 days	2021/3/30	2021/5/11	541	543	100%					
543	Trenchless construction by TBM (approx. 120m from L302 to L303, 2m	/day)	30 days	2021/5/12	2021/6/17	542,540	544	100%					
544 F	PMI 020 Inclement weather (June 2021)		6.5 days	2021/6/18	2021/6/25	543	545	100%				- 6	
545	Trenchless construction by TBM (approx. 120m from L302 to L303, 2m	/day)	7 days	2021/6/25	2021/7/5	544	546	100%	4 days			. E	
546 F	PMI 023 Inclement weather (July 2021)		0.5 days	2021/7/5	2021/7/5	545	547	100%				-	1
547	Extraction of TBM at L303		7 days	2021/7/6	2021/7/13	546	548	100%					1
548	Setting up of TBM at L303		4 days	2021/7/14	2021/7/17	547	549	100%				- i	
549 F	PMI 023 Inclement weather (July 2021)		1 day	2021/7/19	2021/7/19	548	550	100%					ľ
550	Setting up of TBM at L303		10 days	2021/7/20	2021/7/30	549	551	100%					t
551	Trenchless construction by TBM (approx 140m from L303 to L304A 2)	m/dav)	20 days	2021/7/31	2021/8/23	539,550	552	100%	4 days			•	ų,
552 E	2011 024 Inclement weather (Aug 2021)		05 dave	2021/8/24	2021/8/24	551	553	100%					-
553	Trenchless construction by TRM (approx 1/0m from I 202 to I 20/ A 2)	m/dav)	50 dave	2021/0/24	2021/0/24	552	554	100%					
554 -	MI 021 Incloment weather (Oct 2021)	inday)	25 dore	2021/0/24	2021/10/23	552	555	100%					
334 F	Fini 051 Inclement weather (Oct 2021)		5.5 days	2021/10/25	2021/10/28	555	333	100%					
222	Extraction of TBM from L304A		/ days	2021/10/29	2021/11/5	224	357,356	100%					
556	Setting up of TBM at L302		14 days	2021/11/6	2021/11/22	555,567	557	100%					
557	Trenchless construction by TBM (approx. 90m from L302 to L301, 2m/c	day)	45 days	2021/11/23	2022/1/17	556,555	558	100%	4 days				
558	Extraction of TBM at L301		7 days	2022/1/18	2022/1/25	557	559	100%					
559	Setting up of TBM at L301		14 days	2022/1/26	2022/2/14	558	560	100%					
560	Trenchless construction by TBM (approx. 80m from L301 to Intake no.1	, 2m/day)	40 days	2022/2/15	2022/4/1	559	561	100%					
	Extraction of TBM from Intake No. 1		40 days	2022/4/2	2022/5/25	560	562,572	100%					
561	Deck over L301 for Treatment Work Access		115 days	2022/5/26	2022/10/12	561		100%					
561 . 562 I			5 davs	2021/6/10	2021/6/16	539	564	100%				*	
561 562 I 563	Construction of receiving pit at Intake No.1		<i>j</i> ~						1			•	_
561 562 563	Construction of receiving pit at Intake No.1		_				D 1 1		E. 1		-		-
561 562 563	Construction of receiving pit at Intake No.1 要徑分隔 St	ummary	-	Inact	ive Task		Duration-only		Finish-0	only	3]
561 562 I 563 0	Construction of receiving pit at Intake No.1 要徑分隔	ummary roject Summary		Inact	ive Task ive Milestone	↓	Duration-only Manual Summarv	Rollup	Deadline	>nly	4]
561 562 I 563 0	Construction of receiving pit at Intake No.1 要徑分隔	ummary roject Summary	-	Inact	ive Task ive Milestone	¢	Manual Summary	Rollup	Deadline	nly ?	↓ ↓		ļ
561 562 I 563	Construction of receiving pit at Intake No.1 要徑分隔 Stark Pr Split Example Stark Example Stark Example Stark Example Stark Star	ummary roject Summary xternal Tasks		Inact Inact Inact	ive Task ive Milestone ive Summary	¢	Duration-only Manual Summary Manual Summary	Rollup	Deadline Critical	nly e			ļ
561 562 I 563	Construction of receiving pit at Intake No.1 要徑分隔 Stark Pr Split Ez Milestone ◆ Ez	ummary roject Summary xternal Tasks xternal Milestone	*	Inact Inact Inact Manu	ive Task ive Milestone ive Summary ıal Task	¢ V C	Duration-only Manual Summary Manual Summary Start-only	Rollup C	Critical	e Split	↓ ↓]



⑮ I ash	x Name				工期	開始時間	完成時間	前置任務	後續任務	% completed	Time Risk Allowance	2020年 前半年 後	<u>2021</u> 年 学生在前半
4	PMI 020 Inclement	weather (June 2021)			6.5 days	2021/6/17	2021/6/24	563	565	100%			
5	Construction of rec	eiving pit at Intake No.1			25 days	2021/6/24	2021/7/24	564	566	100%			
5	Construction of the	jacking pit at L301			30 days	2021/7/24	2021/8/28	565	567	100%			
7	PMI 024 Inclement	weather (Aug 2021)			0.5 days	2021/8/28	2021/8/28	566	556	100%			
	Construction of Str	ictures			165 days	2022/5/26	2022/12/9						
	Construction of	manholes L304			55 days	2022/10/6	2022/12/8	574SS+22 days	575	100%	4 days		
	Construction of	manholes L303			54 days	2022/10/6	2022/12/7	574SS+22 days	575	100%	4 days		
	Construction of	manholes L302			77 days	2022/9/8	2022/12/9	601	575	100%	4 days		
_	Deck over time o	f I 301			118 days	2022/5/26	2022/10/15	561		100%			
	Construction of	manholes I 301			29 days	2022/11/7	2022/12/9	574SS+49 days	575	100%	4 days		
	Construction of	Intaka No 1			18 days	2022/11/7	2022/12/7	520	575 57288 10 dove 56	100%	1 days		
_	Doinstatement work				14 days	2022/9/1	2022/11/4	560 570 571 572 57	662	100%	4 uays		
_		S 050 \			14 days	2022/12/10	2022/12/28	509,570,571,575,57	4003	100%			
	Box Culvert (approx.	252m)			705 days	2020/8/13	2022/12/28			100 7		Y	
	Preliminary Works				208 days	2020/8/13	2021/4/27			100%			
	Set up of environ	nental mitigation measur	es		90 days	2020/8/13	2020/11/28			100%	4 days	-	
	Submission of m	ethod statement for cons	truction of box culvert &	k approval	90 days	2020/8/13	2020/11/28		580	100%			
	installation of set	tlement monitoring point	s and baseline monitorin	ig works	90 days	2020/11/30	2021/3/20	579	581	100%			
	Trial pit excavat	ion			28 days	2021/3/22	2021/4/27	580	631,650	100%			-
	Bay 18 CH200 - CH	1212			42 days	2021/11/15	2022/1/5		,				_
	Excavation and	Frection of FLS			20 days	2021/11/15	2021/12/7	627	584	100%	4 days		
	Make good the fo	undation and construction	n of been clob		11 days	2021/11/15	2021/12/7	583	595	100%	- uays		
	Canata good the IC	undation and construction	II UI UASC SIAU		11 uays	2021/12/0	2021/12/20	505	505	100/0			
	Construction of	wall & lop slab			11 days	2021/12/21	2022/1/5	384	201	100%			
	Bay 17 CH188 - C	H200			53 days	2022/1/6	2022/3/11						
	Excavation and	Erection of ELS			20 days	2022/1/6	2022/1/28	585	588	100%	4 days		
	Make good the fo	oundation and construction	n of base slab		24 days	2022/1/29	2022/3/1	587	589	100%			
	Construction of	wall & top slab			9 days	2022/3/2	2022/3/11	588	591,621,660	100%			
	Bay 16 CH176 - CH	- 			32 days	2022/3/12	2022/4/22						
	Excavation and	Frection of FLS			12 days	2022/3/12	2022/3/25	589	592	100%	4 days		
	Make good the fo	undation and construction	n of base slab		12 days	2022/3/12	2022/3/23	501	503	100%	+ days		
	Construction of		II OI DASC SIAD		12 uays	2022/3/20	2022/4/9	502	595	100%			
	Construction of	wall & top slab			8 days	2022/4/11	2022/4/22	592	295	100%			
	Bay 15 CH162 - Ch	1176			65 days	2022/4/23	2022/1/12						
	Excavation and I	Erection of ELS			30 days	2022/4/23	2022/5/30	593	596	100%	4 days		
	Make good the f	oundation and construction	on of base slab		20 days	2022/5/31	2022/6/23	595	597	100%			
	Construction of	wall & top slab			15 days	2022/6/24	2022/7/12	596	599	100%			
	Bay 14 CH147 - C	H162			49 days	2022/7/13	2022/9/7						
	Excavation and	Frection of FLS			24 days	2022/7/13	2022/8/9	597	600	100%			
	Make good the f	oundation and constructi	on of base slab		16 days	2022/1/15	2022/0/2	500	601	100%			
	Wake good the I		on or base shab		10 uays	2022/0/10	2022/0/27	J99 (00	001	100%			
					9 days	2022/8/29	2022/9/7	000	005,571	100%			
	Bay 13 CH132 - C	H14/			41 days	2022/9/8	2022/10/28						
	Excavation and	Erection of ELS			19 days	2022/9/8	2022/9/30	601	604	100%	4 days		
	Make good the fo	oundation and construction	n of base slab		13 days	2022/10/3	2022/10/18	603	605	100%			
	Construction of	wall & top slab			9 days	2022/10/19	2022/10/28	604	607	100%			
	Bay 12 CH132 - C	H120			36 days	2022/10/29	2022/12/9						
	Excavation and	Erection of ELS			8 days	2022/10/29	2022/11/7	605	608 611	100%	4 days		
	Make good the fo	undation and construction	n of base slab		14 days	2022/10/22	2022/11/7	607	600	100%	1 dujo		
	Construction of		11 01 0430 3140		14 days	2022/11/0	2022/11/25	609	610	100%			
	Construction of				14 days	2022/11/24	2022/12/9	008	012	100%			
	ыау 11 CH120 - Cl	110/			42 days	2022/11/8	2022/12/28	(07	(10	1000	4.1		
	Excavation and I	Erection of ELS			19 days	2022/11/8	2022/11/29	607	612	100%	4 days		
	Make good the fo	oundation and construction	n of base slab		2 days	2022/12/10	2022/12/12	609,611	613	100%			
	Construction of	wall & top slab			7 days	2022/12/13	2022/12/20	612	614	100%			
	Backfilling and	einstatement works			5 days	2022/12/21	2022/12/28	613	663	100%			
	Bay 10 CH95 - CH	107			95 days	2022/3/30	2022/7/27						
	Excavation and	Frection of FLS			27 days	2022/3/30	2022/5/5	621	617	100%	4 days		
	Maka good the f	undation and construction	n of base clob		21 days	2022/5/50	20221313	624 616	618	100%	raayo		
	Make good the IC	undation and construction	II UI UASE SIAU		21 uays	2022/0/11	2022/1/0	617	610	100%			
	Construction of	wall & top slab			11 days	2022/1/1	2022/7/19	617	019	100%			
	Backfilling and	einstatement works			/ days	2022/7/20	2022/7/27	618	663	100%			
	Bay 9 CH83 - CH9	5			71 days	2022/3/12	2022/6/10						
	Tree felling & No	oise Barrier Erection			15 days	2022/3/12	2022/3/29	589	622,616	100%			
	Excavation and	Erection of ELS			27 days	2022/3/30	2022/5/5	621	623	100%	4 days		
	Make good the fo	oundation and construction	n of base slab		17 days	2022/5/6	2022/5/26	622	624	100%			
	Construction of	wall & ton slab			12 days	2022/5/27	2022/6/10	623	617	100%			
	Bay 8 (471 - (100	3			88 dave	2021/0/2	2021/12/16			20070			
		Fraction of ELC			10 days	2021/0/2	2021/10/21	634	607	10007	1 days		
	Excavation and	Election of ELS			40 days	2021/9/2	2021/10/21	004	027	100%	4 days		
	Make good the fo	oundation and construction	n of base slab		20 days	2021/10/22	2021/11/13	626	028,583	100%			
				2			.: m :		D .: 1			,	
		要徑分隔		Summary	-	Inac	ctive Task		Duration-only		Finish-o	nly	2
		Task		Project Summarv		Inac	tive Milestone	\diamond	Manual Summary Rol	lup	Deadline	2	+
		Calit		Extornal Test-		T.a.	tivo Cumero		Manual Cumunitary real				
				External Tasks		Inac	uve Summary	\sim	ivianual Summary	-	Critical		
		Spiit							-				



識別碼	Task Name	工期	開始時間	完成時間	前置任務	後續任務	% completed	Time Risk	2020年		2021年
670	Construction of well b top alab	10 dava	2021/11/15	2021/12/4	607	620 645	1000%	Allowance	前半年	後半年	前半年
620	Peakfilling and reinstatement works	10 days	2021/11/15	2021/12/4	628	663	100%				
630	Boy 7 CH63 to CH71	10 days	2021/12/0	2021/12/10	020	005	10070				
631	Excavation and Erection of ELS	40 days	2021/4/28	2021/6/16	581	632	100%	4 days			
632	Make good the foundation and construction of base slab	25 days	2021/6/17	2021/7/16	631	633	100%	+ days	_		
633	Construction of wall & top slab	25 days	2021/7/17	2021/8/14	632	634	100%				
634	Backfilling and reinstatement works	15 days	2021/8/16	2021/9/1	633	626	100%				
635	Bay 5.6 CH45 - CH63	148 days	2022/6/25	2022/12/19	000	020	10070				
636	Road Diversion	43 days	2022/6/25	2022/8/15	648	637	100%				
637	Coordinate with locals for starting of excavation	18 days	2022/8/16	2022/9/5	636	638	100%				
638	Excavation and Erection of ELS	39 days	2022/9/6	2022/10/24	637	639	100%	4 days			
639	Make good the foundation and construction of base slab (Bay 6)	9 days	2022/10/25	2022/11/3	638	640	100%				
640	Construction of wall & top slab (Bay 6)	9 days	2022/11/4	2022/11/14	639	641	100%				
641	Make good the foundation and construction of base slab (Bay 5)	9 days	2022/11/15	2022/11/24	640	642	100%				
642	Construction of wall & top slab (Bay 5)	11 days	2022/11/25	2022/12/7	641	643	100%				
643	Backfilling and reinstatement works	10 days	2022/12/8	2022/12/19	642	663,672	100%				
644	Bay 2,3,4 CH12 - CH45	160 days	2021/12/6	2022/6/24							
645	Excavation and Erection of ELS	45 days	2021/12/6	2022/1/29	628	646	100%	4 days			
646	Make good the foundation and construction of base slab	45 days	2022/1/31	2022/3/26	645	647,656	100%				
647	Construction of wall & top slab	45 days	2022/3/28	2022/5/25	646	648	100%				
648	Backfilling and reinstatement works	25 days	2022/5/26	2022/6/24	647	636	100%				
649	Bay 1 CH0 - CH12	427 days	2021/4/28	2022/10/5							
650	Relocation of Electric Post	360 days	2021/4/28	2022/7/15	581	651					
651	Excavation and Erection of ELS	28 days	2022/7/16	2022/8/17	650	652	100%	4 days			
652	Make good the foundation and construction of base slab	15 days	2022/8/18	2022/9/3	651	653	100%				
653	Construction of wall & top slab	9 days	2022/9/5	2022/9/15	652	654	100%				
654	Backfilling and reinstatement works	15 days	2022/9/16	2022/10/5	653	663	100%				
655	Intake 2	66 days	2022/3/28	2022/6/20							
656	Excavation and Erection of ELS	15 days	2022/3/28	2022/4/14	646	657	100%				
657	Formwork, Steel Fixing and Concreting	44 days	2022/4/19	2022/6/11	656	658	100%				
658	Backfilling and reinstatement works	7 days	2022/6/13	2022/6/20	657	663	100%				
659	Outfall 1	108 days	2022/3/12	2022/7/25							
660	Excavation and Erection of ELS	44 days	2022/3/12	2022/5/7	589	661	100%				
661	Formwork, Steel Fixing and Concreting	57 days	2022/5/10	2022/7/16	660	662	100%				
662	Backfilling and reinstatement works	7 days	2022/7/18	2022/7/25	661	663	100%				
663	Planned completion date of Portion 3B	0 days	2022/12/28	2022/12/28	662,658,654,619,62	\$669,670					
664	PORTION 3C	450 days	2020/8/13	2022/2/18		14				v —	
665	Access date	0 days	2020/8/13	2020/8/13						13/8	
666	Subletting and procurement	36 days	2021/9/1	2021/10/15			100%				
667	Preparation Works	180 days	2021/6/30	2022/2/5		668,684	100%		_		
668	Coordination with DSD sewage treatment plant	11 days	2022/2/7	2022/2/18	667	669	100%				
669	Planned completion date of Section 1 (Portion 3B & 3C)	0 days	2022/12/28	2022/12/28	663,668		100%				
670	Sectional Completion of Section 1 (Portion 3B & 3C)	0 days	2022/12/28	2022/12/28	663		100%				
6/1	PORTION 3B - Outstanding Works	215 days	2022/11/5	2023/1/29	(12)	(02	500				
6/2	3000C and L311 Construction	170 days	2022/12/20	2023/7/21	643	682	50%				
6/3	Intake I Foul water Mannoles Construction	1/5 days	2022/11/5	2023/6/10	571	(75	1000/				
6/4	Material Ordering	145 days	2022/11/5	2023/5/5	5/4	0/5	100%				
0/5	Construction works	50 days	2023/3/0	2023/6/10	0/4	079,080	100%				
6/6	Bay 12 to Bay 10 Foul water Manhole Construction	1/5 days	2022/11/5	2023/6/10	571	(70	1000/				
670	Ivialerial Ordening	145 days	2022/11/3	2022/2/2/2	574	691	100%		_		
670	CONSTRUCTION WORKS	50 days	2023/3/0	2025/0/10	675	691	100%		_		
600	6001/C at L202	25 days	2023/0/12	2023/7/12	675	691	40%		_		
601	00000 at L303	25 days	2023/0/12	2023/7/12	013	692	0%				
692	Final reinstatement works of all Mannoles and Box Culvert	15 days	2023/7/13	2025/1129	0/8,0/9,080	082	40%				
602	DOUTION 2C Outstanding Works	U days	2023/1129	2023/1129	081,072		13%		_		
604	Dianting of trace for comparation (which to DM//s instruction)	105 days	2022/2/1	2024/0/22	667	605	1000		_		
605	Finding of nees for compensation (subject to PNI's instruction)	407 days	2022/2/1	2023/0/23	684	686	100%		_		
606	Outstanding works of Dartion 2C Complete	298 days	2023/0/24	2024/0/22	685	000	500/		_		
080	Outstanding works of Portion of Complete	0 days	2024/0/22	2024/0/22	000		50%				

	要徑分隔		Summary	 Inactive Task		Duration-only		Finish-only	C	ł
	Task		Project Summary	 Inactive Milestone	\diamondsuit	Manual Summary Rollu)	Deadline	÷	Ē
	Split		External Tasks	Inactive Summary	\bigtriangledown	Manual Summary	—	Critical		
	Milestone	♦	External Milestone	\$ Manual Task	C	Start-only	C	Critical Split		
					I	age 11				
 1										



Appendix B2 Works Undertaken Illustrations



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	J.	1	1	1	1	 Use of regular watering to reduce dust emissions Open stockpiles shall be avoided or covered.
Noise Nuisance	1	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	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	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 2023

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

		Quantities of	f Inert C&D N	Aaterials Gen	Quantities of Non-inert C&D Materials Generated						
Month	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	84.83	0.00	0.00	0.00	74.60	0.00	0.00	0.00	0.00	0.00	10.23
February	254.73	0.00	0.00	0.00	247.49	0.00	0.00	0.00	0.00	0.00	7.24
March	266.08	0.00	0.00	0.00	245.02	0.00	0.00	0.00	0.00	0.00	21.06
April	106.76	0.00	0.00	0.00	99.38	0.00	0.00	0.00	0.00	0.00	7.38
May	171.61	0.00	0.00	0.00	167.46	0.00	0.00	0.00	0.00	0.00	4.15
June	135.11	0.00	0.00	0.00	114.94	0.00	0.00	0.00	0.00	0.00	20.17
Sub-total	1019.12	0.00	0.00	0.00	948.89	0.00	0.00	0.00	0.00	0.00	70.23
July	239.57	0.00	0.00	0.00	232.13	0.00	0.00	0.00	0.00	0.00	7.44
August	495.32	0.00	0.00	0.00	489.34	0.00	0.00	0.00	0.00	0.00	5.98
September	136.68	0.00	0.00	0.00	133.85	0.00	0.00	0.00	0.00	0.00	2.83
October	36.58	0.00	0.00	0.00	34.24	0.00	0.00	0.00	0.00	0.00	2.34
November											
December											
Yearly Total	1927.27	0.00	0.00	0.00	1838.45	0.00	0.00	0.00	0.00	0.00	88.82

Mont	Monthly Forecast of Total Quantities of C&D Materials to be Generated from the Contract (for November 2023)												
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)			
35.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	5.00			

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

EP Conditions	Submission(s)	Submission Date	Approval Status
			Approved
2.6	Landscape Plan (Rev. G)	02/03/2021	on
			23/03/2021
		At least one month	
2.7	Landscape as-built drawing(s)	before the Project	*
		commences operation	
	Updated Baseline Vegetation Survey Report (Rev. E)	19/02/2021	*
2.8	Floral Protection Plan (Rev. J)	04/04/2021	*
	Floral Transplantation Plan (Rev. E)	11/12/2020	*
2.10	Aquatic Fauna Translocation Plan (Rev. H)	24/12/2020	*
2.1.1	Aquatic Fauna Translocation	02/02/2021	4
2.11	Survey Report (Rev. B)	02/03/2021	^
4.2	Noise Baseline Monitoring Report (Rev. A)	30/10/2020	*
4.3	Water Quality Baseline Monitoring Report (Rev. D)	29/01/2021	*
4.4	Monthly EM&A Report (September 2023) (Rev. 0)	19/10/2023	*

Summary Table for Status of Compliance / Required Submission

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

Appendix C2 Mitigation Measures Implementation (Construction Phase)

Environmental Protection Measures (Construction Phase) ⁽¹⁾	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	۸
by 91.7%. The amount of water to be applied would be 0.25L/m ² for the respective watering frequency.	X
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;	۸
■ 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;	Χ
Open stockpiles shall be avoided or covered. Prevent placing dusty material storage piles near ASRs;	^
Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations;	^
Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;	^
Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit;	۸
Routing of vehicles and position of construction plant should be at the maximum possible distance from ASRs;	۸
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;	Χ
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	-
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.	
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;	Λ
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	^
covered with acoustic fabric or small barrier for noise screening.	
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.	
	N/A
Installation of a fixed noise barrier of 3m in height between the NSR5 and the open cut trench (Activities 4 and 4+ at Works	(works
Section 5)	s ended
	In that
	section)
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;	۸
Machines and PME that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum:	^
PME known to emit noise strongly in one direction should be orientated to direct away from the nearby NSRs:	٨
Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site	
construction activities;	Λ
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.	۸
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:	^
■ 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;

Environmental Protection Measures (Construction Phase) (1)	Status
Dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a site/sediment trap.	^
Sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates; 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 important state of the stream bank chall be created to completely and so these areas	۸
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:	^
 Exposed slope surfaces should be covered by talpating of other means during the family 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 0.1m ³ /s, a sedimentation basin of 30m ³ would be required and for a flow rate of 0.5m ³ /s the basin would be 150m ³ . 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:	۸
 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;	۸
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:	۸
■ 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 are the storm water drainage system after accidentater are the storm water drainage system after accidentater are the storm water drainage system after accidentater are the storm water drainage sy	N/O
 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 derivative decignated technicity area as soon as possible.	۸
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	
of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching the nearby WSRs.	^
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; 	

Environmental Protection Measures (Construction Phase) ⁽¹⁾	Status
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	۸
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	
siurry from getting into the surrounding environment, the following specific control measures shall be followed to reduce the risk	
All hentenite clure cheuld be stored in a container that resistant to correction maintained in good conditions and cosurely.	
■ An bencome signing should be stored in a container that resistant to corrosion, maintained in good conditions and securely closed:	^
Lioseu, The container should be labelled in English and Chinese and note that the container is for storage of bentanite slurg, only	^
The container should be labeled in English and Chinese and note that the container is for storage or bencome stury only, The storage container should be placed on an area of importmential floating and bunded with consolity to accommedate 1100/	
■ The storage container should be placed on an area or impermeable nooning and builded with capacity to accommodate 110%	^
Sufficiently covered to prevent rainfall entering the container or hunded area (water collected within the hund must be tested	
■ Sunciently covered to prevent familiar entering the container of builded area (water collected within the build must be tested and disposed of as chemical waster if pecessan)	^
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 nine jacking works. A member of the	
Contractor's site staff shall also be dedicated to closely monitor the ground surface above the pipe jacking works. A member of the	
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.	^
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)	^
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 compiled with for control of chemical wastes. The Code of Practice on the Packaging, Labeling and Storage of Chemical wastes	
given as follows:	
Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and	^
■ Suitable containers should be used to hold the chemical wastes to avoid leakage of spinage during storage, nandling and transport.	
Chemical waste containers should be suitably labelled to notify and warn the personnel who are bandling the wastes to avoid	^
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	^
the satisfaction of AFCD, EPD, FSD, HvD, 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	٨
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	~

Environmental Protection Measures (Construction Phase)⁽¹⁾

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 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.

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.	^
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	Ν/Δ
Pongamia pinnata	11/ 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	NI / A
and sedimentation control facilities implemented;	IN/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;	
 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;	^
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;	

All bentonite slurry shall be suitably stored in accordance with Section 5.8.8 of this EIA Report to minimise the chance of spillage;
 All fuel tanks and 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; and
 Pipe jacking areas shall be closely monitored for frac-outs release of bentonite and frac-out area immediately cleaned if they

Pipe jacking areas shall be closely monitored for frac-outs release of benconte 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:
--Main stackelled errors shall be sited outside of the sound stackelle area (Marke Section C).

Major stockpiled areas shall be sited outside of the country parks area (Works Section 6) and away from stream courses as far as practicable;
 All backfilling material and cement required for this Works Section 6 shall be delivered daily and only the quantity required;

■ No storage of chemicals and waste in Works Section 6; and

■ 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 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

A burlet zone of a minimum of 5 metres in size (of 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
 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 structure, identification of fragile elements, an appraisal of the condition and working methods for any proposed monitoring

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Environmental Protection Measures (Construction Phase) ⁽¹⁾

(including frequency of monitoring) and precautionary measures that are recommended. The Contractor must implement the approved monitoring and precautionary measures.

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;

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) Regulation to monitor the disposal of public fill and solid wastes at public filling facilities and landfills, and to 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, 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;	۸
Make provisions in contract documents to allow and promote the use of recycled aggregates where appropriate;	۸
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;	۸
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	۸
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.	٨
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 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

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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;	^
Aluminium cans are usually collected and recovered from the waste stream by individual collectors if they are segregated and	^
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,	۸
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;	^
Clearly labelled and used solely for the storage of chemical wastes;	^
■ Enclosed with at least 3 sides;	^
■ Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest;	٨
Adequate ventilation;	^
Sufficiently covered to prevent rainfall from entering (water collected within the bund must be tested and disposed of as chemical waste, if pecessary):	^
Incompatible materials are adequately separated:	^
 All chemical waster fuels and oils shall be stored at the Site Office area to minimise impacts to the Country Park and water 	۸
athering arounds:	
autoring grounds,	^

All maintenance activities which may generate chemical waste shall be undertaken in Site Office area, as far as possible;
 The Contractor shall comply with WSD's General Conditions for Working within Water Gathering Grounds as applicable; and

■ Waste oils, chemicals or solvents shall not be disposed of to drain.

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.
Х	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 / Perminders / Percommondations	Follow Up Action	Completion
Follow Up action(s)	Observations/ Reminders/ Recommendations	Follow Op Action	Date
of	NIL.	N.A	N.A
Wookly Site Inc	nection		
weekly Site ins	Reminder		
	1) The Contractor was reminded to regularly clear up general	1) Maaterials were	06/10/2023
	refuse to prevent accumulated.	removed (near Bay 9 &	
06/10/2023		L301)	
	2) The Contractor was reminded to provide a drip tray with	2) Drip tray was provided	06/10/2023
	chemical containers or storage in the designated area to		
	prevent chemical leakage. (Site Office)		
	Reminder		
10/10/2023	1) The Contractor was reminded to regularly clear up the	1) Materials were removed	10/10/2023
	construction waste to prevent accumulated. (Bay 4)	at Bay 4	
17/10/2022	Reminder	1) Concrete was removed	17/10/2022
17/10/2023	1) Concrete should be removed in bay 4.	1) Concrete was removed	17/10/2023
	Observation	fiedi bay 4 box cuivert	
		1) Construction waste was	24/10/2023
	1) Construction waste should be cleared regularly (Bay 9)	removed	21,10,2020
24/10/2023	Reminder		
		2) Stagnant water in the	24/10/2023
	1) Stagnant water should be cleared (Bay 4)	container was removed at	
		Bay 4	
	Reminder		
31/10/2023	1) NRMM label should be provided on the generator (Near	1) Added a NRMM label	03/11/2023
	L301)	on the generator near	
		L301	
Landscape and	Visual		
06 110 12022	Recommendation		
06/10/2023	1) Please keep tree protection zone clear of construction	1)Materials were removed	06/10/2023
	materials	near the tree hear L301	
	Recommendation		
17/10/2023	1) Please check leaning tree (T339) dor safety and provide		
	necessary tree maintainace as required		
31/10/2023			
Cultural Herita	ge		
24/10/2023	Observation		
	1) All monitoring devices were found installed at appropriate		
Quartarly Pact	transplantation Works		
Quarterly Post-			
Monthly Floral	Protection Measures		
inonuny rioral	Pominder	<u>.</u>	
	1) Recommendations should be followed: post should be		
17/10/2023	replaced and repaired/fixed		
,,	2) Replace the posts that can't be found		
	3) Repair / Fix the posts that have fallen down		

Cultural Heritage

te:	24 /10 /2023	Weather:	Sunn	y / Fine Over	rcast / Rainy / Ha	azy Wi	ind:	calm / Light / Breeze / Strong
ne:	9:30 am	Tempera	ture:	<u>} °C</u>		Hu	imidity:	High / Moderate / Low
ervatie Fol	ons/ Reminders/ Reco llow-up of previous ob N_{1}^{+}	mmendations / Fo servation(s)	low-up:					
Oh								
00	All servation(s)	deres 10-	4 \		ek es		6.0	
	All monitority	devices. Uere	Found	mHaller	nt app	epriate. 1	scations	
	All Monitority	devices. Jere	found	nHallel	nt app	spriate. 1	scations.	
 Rer	minder(s)	devices. Jere	Found	nHaller	nt app	opriate!	scations	
 	Mil wonitority minder(s)	dences Jere	Found	nHallez	nt app	<u>opriote</u>	scations	
Rer Rer 	by Building Surveyor (ET):	dences Jere	Found	nHallel	nt app	eprinte 1	2-,-	24 -10 -2
Rer Pected I alified B knowled	Minder(s)	dences Jere STEPHE (dojn (Found J Fung ELNG	nHaller	- AL - APPA	opriote 1	Z	

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Photo Record (24/10/2023)





Photo Record (24/10/2023)



-FUGRO

Photo Record (24/10/2023)



-FUGRO

No.	Environmental Protection Measures (Construction Phase) ^[1]	Location & (Implementation Agent)	Yes (√),No (×) N/A, N/O	Remark(s)
	F) Cultural Heritage			
1	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 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 have been carried out by a qualified building surveyor 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 structure, identification of fragile elements, an apprisal 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 approved monitoring and precautionary measures.	All relevant built heritage resources (Contractor and Sub- contractors)	J	MrI
	 Vfbration 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 15mm/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. 		\checkmark	Νī

Note:

(1) Detailed EIA report and EM&A Manual reference refer to the Appendix A of approved EM&A Manual. N/A: Not Available, N/O: Not Observed.

Monthly Floral Protection Measures



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

Date:	17 /10/2023	Weather:	Sunny / Fine / Overcast / Rainy / Hazy	Wind:	Calm / Light / Breeze / Strong
Time:	9:30 am	Temperature:	28 .	Humidity:	High / Moderate / Low

Monthly Environmental Site Audit for Floral Protection Measures

Observations/ Reminders/ Recommendations / Follow-up:

Follow-up of previous observation(s)

be followed, post should be replaced Should repaired / fixed Reacomend of 1013 and

Observation(s)

Protection Measures	Location	Actions to be Taken			Pomerke	
Protection measures	Location	Retain Replace		Repair	Nemarks	
Post Indicating Prohibition of Access						
1	West of columbarium		1		Post care be found	
2	In outful B		J		pust const be found	
Solid Fencing Around Plant Species						
1	New Outfull B				pust should be fixed	

-Fugro

Solid Fencing at Access Entrance		RETAIN	REPLACE	REPAIR	
1	behind WA4 (hear had of)			\checkmark	Solid ten (his) mult be installed to the the original met property
2	Behind SA4	V			Avoid tying net to the plant
3	Near Jotor Auli op SA4			1	solid throng posit he antilitid to the the broning het pronochs
Warning Signposts/Labels					,,,,,
6 Politsia 1	Along Horm drain pipe atonment				Post spould be reported
Ehretia 2	Q .				post should be repaired
Ehretia 3	V (14A to 5A4)		\sim		post is nowhere to be find
Chretion 4	in sa4				post should be repaired

Reminder(s)

Perioce	posts	th of	CON	ť be	found	
Repair	/ t·x	po sts	that	hae	tallen	abirh

	Name	Signature	Date
Inspected by Representative from ET:	Andy iven	Alton	17/10/2023
Acknowledged by representatives of the ER:		A	
Agreed with Main Contractor:	Esther Pau	B	1+110/2025
Checked by IEC:			

Appendix D Monitoring Parameters Action and Limit Levels

<u>Noise</u>

Action and Limit Levels for Impact Monitoring

	Monitoring		
Time Period	Location No.	Action Level	Limit Level*
	NSR1	When one documented	70 dB(A)
	Columbarium of Po Lin Monastery	complaint is received.	
Leq), dB(A)	NSR5	When one documented	75 dB(A)
$(0700-1900 \text{ mrs})^{(1)}$	^{III} _Village House No. 49A	complaint is received.	
normal weekdays)	NSR8	When one documented	75 dB(A)
	Village House No. 34	complaint is received.	

Note:

*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.

Water Quality

Action and Limit Levels for Impact Monitoring

							Sus	pended
Parameter(s)	DO ir	n mg/L	Turbidit	y in NTU	рН		Solic	ls 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								
WS4-13	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								
WS6-15	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.

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. 	 Review the analysed results submitted by the ET. Review the proposed remedial measures by the Contractor and advise the Engineer accordingly. 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. 	 Discuss amongst the Engineer, ET an Contractor on the potential remedial action. Review the Contractor's remedial action whenever necessary to assure their effectiveness and advise the Engineer accordingly. 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. 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 determined by the Engineer until the exceedance is abated. 			

Note: (1) ET - Environmental Team, IEC - Independent Environmental Checker; (2) According to EM&A Manual Table 3.4.

Drainage Improvement Works at Ngong Ping Monthly EM&A Report

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

	ACTION						
EVENT	ET ⁽¹⁾	IEC ⁽¹⁾	ER ⁽¹⁾	Contractor			
Action Level being exceeded by one sampling day	 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 the Contractor's working methods; Discuss mitigation measures with the IEC and the Contractor; Repeat measurement on next day of exceedance. 	 Discuss with the ET and the Contractor on the mitigation measures; Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; Access the effectiveness of the implemented mitigation measures 	 Discuss with the IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. 	 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 			
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; 	 Discuss with the ET and the Contractor on the mitigation measures; Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; Access the effectiveness of the implemented mitigation measures 	 Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; 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 			

ACTION

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	 Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform the IEC, the Contractor and the DEP Check monitoring data, all plant, equipment and the 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. 	 7. Discuss with the ES 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. 	 Discuss with the IEC, the ES and the Contractor on the proposed mitigation ; measures; Request the Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Access the effectiveness of the implemented mitigation measures. 	 Inform the Engineer 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, the IEC and the ER and propose mitigation measures to the IEC and the ER within 3 working days; 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. 	 Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; Access the effectiveness of the implemented mitigation measures. 	 Discuss with the IEC, the ES and the Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Access the effectiveness of the implemented mitigation measures; 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. 	 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, the IEC and the ER and propose mitigation measures to the IEC and the ER within 3 working days; Implement the agreed mitigation measures; As directed by the ER, slow down or stop all or part of the construction activities 			

ACTION

Note: (1) ET - Environmental Team, IEC - Independent Environmental Checker; (2) According to EM&A Manual Table 4.4.

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

Note: (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	 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. 	 Notify Contractor Ensure remedial measures are properly implemented 	 Amend working methods Rectify damage and undertake any necessary replacement
Repeated Non- conformity	 Identify Source Inform the IEC and the ER Increase monitoring frequency Discuss remedial actions with the IEC, the ER and the Contractor Monitor remedial actions until rectification has been completed If exceedance stops, cease additional monitoring 	 Check implementation of remedial measures. 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 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 6.4.

Event / Action Plan for Construction Phase for Heritage Issue

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 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	 Identify Source Inform the IEC and the ER Increase monitoring frequency Discuss remedial actions with the IEC, 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 	 Amend working methods Rectify damage and undertake any necessary replacement

(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.
02.0-# 2022	CEL-63X Series	Sound Level Meter	1488269
03 Oct 2023	CEL-120/1	Sound Calibrator	2092809
10.0-+ 2022	CEL-633X Series	Sound Level Meter	1488269
10 Oct 2023	CEL-120/1	Sound Calibrator	2092809
17.0-+ 2022	CEL-63X Series	Sound Level Meter	1488272
17 Oct 2023	CEL-120/1	Sound Calibrator	5230758
24.0-+ 2022	CEL-63X Series	Sound Level Meter	1488269
24 Oct 2023	CEL-120/1	Sound Calibrator	2092809
24.0-+ 2022	CEL-633C	Sound Level Meter	2425371
31 Oct 2023	CEL-120/1	Sound Calibrator	5230758



FUGRO TECHNICAL SERVICES LIMITED

CEL-495

003984

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

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information Client : Fugro Technical Services Ltd. Project : Calibration Services

Report no.: 212769CA222607

Details of Unit Under Test, UUT -: Sound Level Meter Description Manufacturer Casella Preamplifier Meter Microphone Model No. CEL-63X CE-251 Serial No. 1488269 03914 Equipment ID : N/A

Next Calibration Date 06-Nov-2023 Specification Limit EN 61672-1: 2003 Class 1

Laboratory Information

Details of Reference	e E	quipment -			
Description	*	B & K Acoustic Multifunction Call	brator 4226 (Traditional fi	ree	field setting)
Equipment ID.	÷	R-108-1			
Date of Receipt	:	03-Nov-2022			
Date of Calibration	1	07-Nov-2022			
Calibration Location	12	Calibration Laboratory of FTS	Ambient Temperature	а.	20±2 °C
Method Used	÷	By direct comparison	Relative Humidity	10	<80% R.H.

Calibration Results :

Parameters		Mean Value (dB)		Specification Limit(dB)			
	4000Hz	1.0	2.6	to	-0.6		
	2000Hz	1.2	2.8	to	-0.4		
A-weigthing	1000Hz	-0.1	1.1	to	-1.1		
frequency	500Hz	-3.4	-1.8	to	-4.6		
response	250Hz	-8.8	-7.2	to	-10.0		
	125Hz	-16.2	-14.6	to	-17.6		
	63Hz	-26.3	-24.7	to	-27.7		
Differential level linearity	94dB-104dB	0.0		± 0.6	5		
	104dB-114dB	0.0		± 0.6	i.		

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.
- 5 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.

Date : 10-11-2022 Certified by : K. I. Young Date : 10-11-2022 Leung Kwok Tai (Assistant Manager) Checked by : CA-R-297 (22/07/2009) ** End of Report **

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GEN01/0819

F R A



FUGRO TECHNICAL SERVICES LIMITED

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

Page 1 of 1

Report no.: 212769CA222627 Pa 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

Dependent		000110 8010101010101		
Manufacturer	:	Casella		
		Meter	Microphone	Preamplifier
Model No.	:	CEL-63X	CE-251	CEL-495
Serial No.	:	1488272	01163	004064
Equipment ID	:	N/A		
Next Calibration Date	:	08-Nov-2023		
Specification Limit	:	EN 61672-1: 2003 Clas	s 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	;	08-Nov-2022				
Date of Calibration	-	U9-N0V-2U22			00.0	00
Calibration Location	2	Calibration Laboratory of FTS	Ambient Temperature	-	20±2	-0
Method Used	:	By direct comparison	Relative Humidity	2	<80% F	R.H.

Calibration Results :

Parameters		Mean Value (dB)	Specification Limit(dB		Limit(dB)
	4000Hz	2.5	2.6	to	-0.6
	2000Hz	1.6	2.8	to	-0.4
A-weigthing	1000Hz	0.0	1.1	to	-1.1
frequency	500Hz	-3.5	-1.8	to	-4.6
response	250Hz	-8.9	-7.2	to	-10.0
	125Hz	-16.3	-14.6	to	-17.6
	63Hz	-26.3	-24.7	to	-27.7
Differential level linearity	94dB-104dB	0.0		± 0.6	6
	104dB-114dB	0.0		± 0.6	6

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.

5. 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.

Checked by : _____ Date : 10-11-2022 Certified by : 07. Jung Date : 10-11-2022 Leung Kwok Tai (Assistant Manager) CA-R-297 (22/07/2009) ** End of Report **

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GEN01/0819



www.casellasolutions.com



1-83

Certificate of Conformity and Calibration

Instrument Model:-	CEL-633C
Serial Number	2425371
Firmware revision	V006-05
Microphone Type:-	CEL-251
Serial Number	2824

Instrument Class/Type:-

Applicable standards:-

371 -05 51

IEC 60651 1979 (Sound Level Meters), ANSI S1.4: 1983 (Specifications For Sound Level Meters) Note:- The test sequences performed in this report are in accordance with the current Sound level meter Standard - IEC81672. The combination of tests performed are considered to confirm the products electro-acoustic performance to all applicable standards including superceeded Sound Level Meter

1

30 °с 71 %RH

IEC 61672: 2002 / EN 60651 (Electroacoustics - Sound Level Meters)

Preamplifier Type:-Serial Number

Nicola Cartwright

November 4, 2022

CEL-495 005521



1000 mBar

Declaration of conformity:-

Standards - IEC60651 and IEC60804

This test certificate confirms that the instrument specified above has been successfully tested to comply with the manufacturer's published specifications. Tests are performed using equipment traceable to national standards in accordance with Casella's ISO 9001:2008 quality procedures. This product is certified as being compliant to the requirements of the CE Directive.

Test Engineer:-

Date of Issue:-

Test Summary:-

Test Conditions:-

Self Generated Noise Test	All Tests Pass
Electrical Signal Test Of Frequency Weightings	All Tests Pass
Frequency & Time Weightings At 1 kHz	All Tests Pass
Level Linearity On The Reference Level Range	All Tests Pass
Toneburst Response Test	All Tests Pass
C-peak Sound Levels	All Tests Pass
Overload Indication	All Tests Pass
Acoustic Tests	All Tests Pass

Combined Electro-Acoustic Frequency Response - A Weighted

Combined Electro-Acoustic Frequency Response - A Weighted (IEC 61672-3:2005)

The following A-Weighted frequency response graph shows this instruments overall frequency response based upon the application of multi-frequency pressure field calibrations. The microphones Pressure to Free field correction coefficients are applied to pressure response. Reference level taken at 1kHz.



Casella UK	Casella USA	Casella India	Casella China	Casella Australia
Regent House, Wolweley Road, Kampolon, Badford MARCE JAY	415 Lawrence Bell Deve, Unit 4 Bullate, NY 14221, USA	ideal Industries India Pril.10 129-330, Spezolópi, Tarve - 5 Rohmi Haad, Sector 47, Guagaco (12901, Herywox, India	Ideal Industries China Room 305, Balchig 1, Ma. 1279, Chuanajas Rd. Padong New Dated. Sharota China	ideal Industries (Aus), PTY, LTD Unit 17, 38 Dunito Fid, Malgrave Vic. 2178, Australia.
Tel: +44 (0) 1234 844190 Fai: +44(0) 1234 04 1468 B. mail: schedulest dates own	Tel: +1 (/16) 275 3040 E-mail: info@nessilouna.com	Tec +91 124 4485108 E-mail: canolis salan@ichol/industion.in	Tel +06-21-31/202188 Pax +66-21-61605808 Email: MicCoseAssociations.cn	Email autolis@caselusolutions.com

Texted to CEL-63X text sheet TP444 nevision 01-00

Page 1 of 1





FUGRO TECHNICAL SERVICES LIMITED

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

Report no.: 212769CA233276(1)

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client : Materialab Consultants Ltd.

Project : Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT -

Description		:	Sound Calibrator
Manufacturer		; 1	Casella (Model CEL-120/1)
Serial No.		: 3	5230758
Equipment ID		: 1	N/A
Next Calibration Date	;	14-,	Jul-2024
Specification Limit	;	ΕN	60942: 2003 Class 1

Laboratory Information

Setails of Calibration Equipment -					
Description	;	Reference Sound level meter			
Equipment ID.	:	R-119-2			
Date of Receipt	5	13-Jul-2023			
Date of Calibration	;	15-Jul-2023			
Calibration Location	11	Calibration Laboratory of FTS	Ambient Temperature :	20 ± 2 °C	
Method Used	;	By direct comparison	Relative Humidity :	< 80 %RH	

Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)	
94dB	-0.1 dB	+0.4dB	
114dB	-0.1 dB	±0.40B	

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: 2/-7-2073 Certified by: <u>C.J. Juliu 9</u> Date: <u>27-7-2073</u> Leung Kwok Tal (Assistant Manager) Checked by :_ CA-R-297 (22/07/2009)

** End of Report **

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GEN01/0819





FUGRO TECHNICAL SERVICES LIMITED

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

Report no.: 212769CA233154(1)

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client Supplied Information

Client : Materialab Consultants Ltd.

Project : Calibration Services
Details of Linit Linder Test LILIT

Details of Unit Under	Test, OOT -
Description	: Sound Calibrator
Manufacturer	: Casella (Model CEL-120/1)
Serial No.	: 2092809
Equipment ID	: N/A
Next Calibration Date	: 29-May-2024
Specification Limit	: EN 60942: 2003 Class 1
Laboratory Informati	on
Details of Calibration E	quipment
Description :	Reference Sound level meter
Equipment ID. :	R-119-2
Date of Receipt UUT	17-May-2023
Date of Calibration :	30-May-2023
Calibration Location :	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(dB)	
94dB	-0.1 dB		
114dB	-0.2 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 equipment under test does comply 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 : 66202 Certified by : 07 Juli Date : 6-6-7073 Leung Kwok Tai (Assistant/Manager) Checked by :____ CA-R-297 (22/07/2009)

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GEN01/0819



Appendix F2 Equipment Calibration Certificates (Water Quality Monitoring)



Report No.: 142626WA231922(1)

Page 1 of 3

Report on Calibration of YSI EXO-1 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-1 Multi-parameter Water Quality Meter	
Client sample ID	:	Serial No. 22M102330	
Test required	:	Calibration of the YSI EXO-1 Multi-parameter Water Quality Meter	
Laboratory Information			
Lab. sample ID	:	WA231922/2	
Date sample received	:	25/08/2023	
Date of calibration	:	31/08/2023	
Next calibration date	:	30/11/2023	
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.



		FUGROTECHNICAL SERVICES LTD.	
		PRELIMINARY TEST RESULT	
Report No. :	142626WA231922(1)	This report is released for information only and is not a formal report. Please note that the contents of this report may be revised.	
Results :		Released by: P.I.Leung	

Page 2 of 3

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	Theoretical Measured Deviation			
9.18	9.10	-0.08		
6.86	6.93	+0.07		

B. Salinity calibration

Salinity, ppt			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
1	1.02	+0.02	± 0.1
10	10.23	+0.23	± 0.5
20	19.71	-0.29	± 1.0
30	30.02	+0.02	± 1.5
40	40.92	+0.92	± 2.0

C. Dissolved Oxygen calibration

Trial No.	Dissolved oxygen content, mg/L		
marno.	By Titration	By D.O. meter	
1	8.09	8.10	
2	8.04	8.06	
3	8.09	8.05	
Average	8.07	8.07	

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

Certified by : Approved Signatory : CHAN Hoi Yan, Winnie Assistant Manager

2

Date

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



	142626WA231922(1)	FUGROTECHNICAL SERVICES LTD.	
Report No. :		PRELIMINARY TEST RESULT This report is released for information only and is not a formal report. Please note that the contents of	
Results :		Released by: P.I.Leung	

D. Temperature calibration

Thermometer reading, °C	Meter reading, °C	
23.0	23.2	

E. Turbidity calibration

Turbidity, N.T.U.			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
4	4.50	+0.50	± 0.6
8	8.06	+0.06	± 0.8
40	38.64	-1.36	± 3.0
80	78.72	-1.28	± 4.0

F. Conductivity calibration

Conductivity, µS/cm						
Theoretical	Maximum acceptable Deviation (%)					
1408	1443	+2.5				
6668	6643	-0.38	+10.0			
12860	12890	+0.23	10.0			
24820	24456	-1.5				

Certified by : ______ Approved Signatory : CHAN Hoi Yan, Winnie Assistant Manager

Page 3 of 3

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.



Appendix G Environmental Monitoring Schedule

Tentative Impact Monitoring Schedule (October 2023)

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

Tentative Impact Monitoring Schedule (November 2023)

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

Tentative Impact Monitoring Schedule (December 2023)

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

Tentative Impact Monitoring Schedule (January 2024)

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

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.



Drainage Improvement Works at Ngong Ping Monthly EM&A Report

Monitoring Lo	cation .				y	
Data Waathar		Wind Speed	Ctart Times	Noise Monitoring (in dB(A))		
Date	weather	(m/s)		Leq _(30 min)	L90 _(30 min)	L10 _(30 min)
03-10-2023	Fine	0.5	10:58	59.4	58.0	60.5
10-10-2023	Fine	0.4	11:19	59.3	58.0	60.5
17-10-2023	Fine	0.2	10:27	60.7	54.0	62.5
24-10-2023	Fine	0.4	11:05	59.6	58.5	61.0
31-10-2023	Fine	0.2	10:32	60.1	55.8	62.3
Monitoring Lo	cation :	NSR5 Village H	louse No. 49	Α		
Data	Weather	Wind Speed	Ctart Times	Noise M	lonitoring (ir	n dB(A))
Date	weather	(m/s)	(m/s)	Leq _(30 min)	L90 _(30 min)	L10 _(30 min)
03-10-2023	Fine	0.1	10:10	56.1	54.5	57.0
10-10-2023	Fine	0.3	10:40	55.9	54.5	57.5
17-10-2023	Fine	0.3	11:10	57.6	51.5	59.0
24-10-2023	Fine	0.2	10:42	55.8	55.0	57.0
31-10-2023	Fine	0.2	11:12	56.5	52.1	58.4
Monitoring Lo	cation :	NSR8 Village F	louse No. 34			
Data	Weather	Wind Speed	Start Time	Noise M	lonitoring (ir	n dB(A))
Date	weather	(m/s)	Start Time	Leq(30 min)	L90 _(30 min)	L10 _(30 min)
03-10-2023	Fine	0.3	09:30	56.8	55.5	58.0
10-10-2023	Fine	0.4	09:25	56.7	55.0	58.0
17-10-2023	Fine	0.4	09:36	56.3	54.7	58.2
24-10-2023	Fine	0.2	09:33	56.7	55.5	58.0
31-10-2023	Fine	0.3	09:25	57.0	55.8	59.2

Appendix H1 Noise Monitoring Data and Graphical Presentations Monitoring Location : NSR1 Columbarium of Po Lin Monastery

	Noise Monito	Noise Monitoring (in dB(A))		
	Min	Max		
	Leq(30 min)	Leq(30 min)		
NSR1	59.3	60.7		
NSR5	55.8	57.6		
NSR8	56.3	57.0		

Remarks:

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

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Note:

1) Major activities being carried out on site during the reporting period refer to section 1.4.

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- 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



Drainage Improvement Works at Ngong Ping Monthly EM&A Report

Monitoring Results Summary

Parameter(s)			DO in mg	g/L				Tu	rbidity ir	NT	U				рН				9	Susp	ended Soli	ds in	mg/L	
Station(s)	Min	-	Max	(Mean)	Min	-	Max	(Mean)	Min	-	Max	(Mean)	Min	-	Max	(Mean)
WS1-R1	7.64	-	8.62	(8.14)	1.00	-	4.40	(2.39)	6.60	-	8.70	(6.93)	1.00	-	2.00	(1.36)
WS1-I1	0.00	-	0.00	(0.00)	0.00	-	0.00	(0.00)	0.00	-	0.00	(0.00)	0.00	-	0.00	(0.00)
WS1-R2	7.60	-	8.59	(8.02)	1.26	-	4.14	(2.68)	6.60	-	8.40	(6.95)	1.00	-	3.00	(1.54)
WS1-I2	7.42	-	8.60	(7.93)	1.40	-	4.20	(3.11)	6.60	-	8.40	(6.92)	1.00	-	3.50	(1.59)
WS4-R3	0.00	-	0.00	(0.00)	0.00	-	0.00	(0.00)	0.00	-	0.00	(0.00)	0.00	-	0.00	(0.00)
WS4-I3	0.00	-	0.00	(0.00)	0.00	-	0.00	(0.00)	0.00	-	0.00	(0.00)	0.00	-	0.00	(0.00)
WS5-R4	6.76	-	8.47	(7.39)	1.20	-	6.40	(3.83)	6.60	-	8.10	(6.85)	1.00	-	6.00	(2.54)
WS5-I4	6.76	-	8.08	(7.23)	4.20	-	5.90	(5.38)	6.60	-	6.70	(6.68)	2.00	-	7.00	(4.00)
WS6-R5	0.00	-	8.45	(7.34)	1.90	-	9.80	(4.15)	6.60	-	8.20	(6.88)	1.00	-	8.00	(3.27)
WS6-I5	6.40	-	8.40	(7.24)	2.10	-	10.10	(4.15)	6.60	-	8.00	(6.89)	1.00	-	6.00	(2.81)
WS6-C1	6.60	-	8.50	(7.75)	1.80	-	7.30	(4.41)	6.30	-	8.00	(6.94)	1.00	-	2.00	(1.50)
WS6-R6	6.90	-	8.60	(7.85)	1.50	-	5.00	(3.15)	6.90	-	9.00	(7.15)	1.00	-	3.00	(1.62)
WS6-I6	6.90	-	8.60	(7.78)	1.80	-	5.00	(3.11)	6.90	-	8.00	(7.05)	1.00	-	3.00	(1.62)

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

		То	tal suspended solids	dried at 103°C -	- 105°C	
Sampling Date	Detection	Blank	Spike recovery	Original	Duplicate	RPD%
	Limit		(%)	result	result	
03/10/2023	1mg/L	<1	98.21	1.53	1.42	7.44
05/10/2023	1mg/L	<1	101.68	0.94	1.07	13.24
07/10/2023	1mg/L	<1	100.29	1.75	1.58	10.31
10/10/2023	1mg/L	<1	96.32	1.94	2.14	9.72
12/10/2023	1mg/L	<1	98.71	1.54	1.41	8.40
14/10/2023	1mg/L	<1	98.88	2.04	1.94	5.02
17/10/2023	1mg/L	<1	101.20	1.57	1.74	10.27
19/10/2023	1mg/L	<1	100.35	1.32	1.45	9.26
21/10/2023	1mg/L	<1	99.43	1.40	1.33	5.27
24/10/2023	1mg/L	<1	101.56	1.09	1.06	2.79
26/10/2023	1mg/L	<1	99.32	1.26	1.40	10.23
28/10/2023	1mg/L	<1	89.49	1.40	1.43	2.26
31/10/2023	1mg/L	<1	98.91	1.70	1.80	5.26



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-I1	WS1-R2	WS1-I2	WS4-R3	WS4-I3	WS5-R4	WS5-I4	WS6-R5	WS6-I5	WS6-C1	WS6-R6	WS6-I6
3 Oct		Dried		Dried	Dried	Dried		Dried					
2023		Up		Up	Up	Up		Up					
5 Oct		Dried		Dried	Dried	Dried		Dried					
2023		Up		Up	Up	Up		Up					
7 Oct		Dried			Dried	Dried		Dried					
2023		Up			Up	Up		Up					
10 Oct		Dried			Dried	Dried							
2023		Up			Up	Up							
12 Oct		Dried			Dried	Dried							
2023		Up			Up	Up							
14 Oct		Dried			Dried	Dried							
2023		Up			Up	Up							
17 Oct		Dried			Dried	Dried		Dried					
2023		Up			Up	Up		Up					
19 Oct		Dried			Dried	Dried							
2023		Up			Up	Up							
21 Oct		Dried			Dried	Dried		Dried					
2023		Up			Up	Up		Up					
24 Oct		Dried			Dried	Dried		Dried					
2023		Up			Up	Up		Up					
26 Oct		Dried			Dried	Dried		Dried					
2023		Up			Up	Up		Up					
28 Oct	Dried	Dried			Dried	Dried		Dried					
2023	Up	Up			Up	Up		Up					
31 Oct	Dried	Dried			Dried	Dried		Dried					
2023	Up	Up			Up	Up		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	/ater Dept (cm)	Replicate	p	н	Salinit	y (ppt)	Tempera	ture (ºC)	DO Satu	ation (%)	DO (r	ng/L)	Turbidit	y (NTU)	Total sus solids drie 105 (ºC	spended ed at 103 - C), mg/L	Remarks
				\$		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			09:20	16	1	6.88	6.9	0.01	0.01	22.78	22.8	96.6	96.8	8.32	8.33	1.62	1.7	1	1.0	NA
					2	6.88		0.01		22.79		96.9		8.33		1.69		1		
WS1-I1			09:28	0	1		NA		NA		NA		NA		NA		NA		NA	Lack of Suface Runoff
					 1	7.50		0.02		22.78		96.0		8 20		1 58		1		
WS1-R2			09:47	15	2	7.51	7.5	0.02	0.02	22.70	22.8	96.2	96.1	8.30	8.30	1.53	1.6	1	1.0	NA
14/04 10			00-40	0	1	NA	NIA	NA		NA	NIA	NA	NIA	NA	NIA	NA	NIA	NA		Lock of Oxford Dynaff
WS1-I2			09:40	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
W/S4-R3			09.20	0	1	NA	NΔ	NA	NΔ	NA	NΔ	NA	ΝΔ	NA	NΔ	NA	NΔ	NA	ΝΔ	Lack of Suface Runoff
00410			00.00	Ŭ	2	NA		NA	117	NA	INA.	NA		NA	INA.	NA	INA.	NA		
WS4-I3			10:05	0	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
					2	NA		NA 0.01		NA 04.00		NA 00.5		NA 0.70		NA 2.02		NA		
WS5-R4	03-10-23	Fine	11:21	14	2	0.83 6.82	6.8	0.01	0.01	24.20	24.2	80.5	80.4	6.76 6.75	6.76	2.03	2.0	2	2.0	NA
					1	0.02 NA		NA		24.20 NA		NA		NA		2.04 NA		NA		
WS5-14			11:15	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
			10.55	15	1	6.81	6.9	0.02	0.02	24.28	04.0	81.4	01.4	6.81	6.94	2.00	2.0	1	1.0	ΝΑ
W 30-R3			10.55	15	2	6.81	0.0	0.02	0.02	24.30	24.3	81.3	01.4	6.80	0.01	1.98	2.0	1	1.0	NA
WS6-15			11:08	13	1	6.78	6.8	0.02	0.02	24.30	24.3	81.1	81.0	6.79	6.78	2.07	2.1	1	1.0	NA
					2	6.78	0.0	0.02		24.30	20	80.8		6.77	0.1.0	2.11		1		
WS6-C1			10:42	16	1	7.48	7.5	0.02	0.02	22.80	22.8	97.3	97.4	8.36	8.36	2.33	2.4	1	1.0	NA
					2	7.48		0.02		22.81		97.4		8.36		2.39		1		
WS6-R6			10:17	12	2	7.00	7.0	0.02	0.02	22.50	22.6	96.3	96.4	8.31	8.32	1.54	1.5	1	1.0	NA
14/00 10			10.00	4.2	1	7.07		0.02	0.00	22.70		96.0	05.0	8.29	0.00	1.79	4.5	1		
WS6-16			10:30	12	2	7.06	7.1	0.02	0.02	22.69	22.7	95.8	95.9	8.28	8.29	1.83	1.8	1	1.0	NA

2. NA: Not Applicable

3. TBC: To Be Confirm

4. Yellow Highlight equal to exceed Action Level



				د							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	/ater Dept (cm)	Replicate	р	Н	Salinit	y (ppt)	Tempera	ture (⁰C)	DO Satu	ation (%)	DO (r	ng/L)	Turbidit	y (NTU)	Total sus solids drie 105 (ºC	spended ed at 103 - C), mg/L	Remarks
				5		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			09:13	15	1	6.82	6.8	0.01	0.01	22.68	22.7	96.3	96.2	8.31 8.20	8.30	0.99	1.0	<1	1.0	NA
					1	NA		NA		22.03 NA		NA		NA		NA		NA		
WS1-I1			09:20	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
W61 D2			00.21	14	1	6.80	6.0	0.01	0.01	22.78	22.0	95.8	05.9	8.26	0.06	1.30	1 0	<1	1.0	NIA
W31-RZ			09.31	14	2	6.81	0.0	0.01	0.01	22.77	22.0	95.7	95.6	8.26	0.20	1.32	1.5	<1	1.0	NA
WS1-12			09.39	0	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
			00.00	Ŭ	2	NA		NA		NA		NA		NA		NA		NA		
WS4-R3			09:51	0	1	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		
WS4-I3			09:58	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
	05 10 22	Fine	11:05	12	1	6.73	67	0.01	0.01	24.20	24.2	81.3	01.2	6.80	6 70	1.98	2.0	<1	1.0	NIA
VV 55-R4	05-10-23	Fille	11.05	15	2	6.74	0.7	0.01	0.01	24.19	24.2	81.2	01.3	6.78	0.79	1.97	2.0	<1	1.0	NA
WS5-14			10:56	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		
WS6-R5			11:23	15	1	6.91 6.91	6.9	0.01	0.01	23.98	24.0	77.3	77.5	6.47 6.48	6.48	1.86	1.9	<1 1	1.0	NA
					1	6.84		0.01		24.03		76.5		6.43		2.11		2		
WS6-I5			11:36	13	2	6.83	6.8	0.01	0.01	24.02	24.0	76.2	76.4	6.42	6.43	2.13	2.1	2	2.0	NA
WS6-C1			10.40	16	1	7.49	75	0.01	0.01	22.77	22.8	97.1	97.2	8.34	8 35	2.47	2.5	1	1.0	ΝΔ
W30-C1			10.40	10	2	7.50	7.5	0.01	0.01	22.80	22.0	97.2	97.2	8.35	0.35	2.52	2.5	<1	1.0	
WS6-R6			10:15	14	1	7.02	7.0	0.01	0.01	22.60	22.6	94.9	94.9	8.20	8.20	1.66	1.7	<1	1.0	NA
					2	7.03		0.01		22.62		94.8		8.20		1.69		<1		
WS6-I6			10:28	14	1	7.00	7.0	0.01	0.01	22.70	22.7	93.9	93.8	8.15 8.14	8.15	1.89	1.9	<1 1	1.0	NA
					_									.						

2. NA: Not Applicable

3. TBC: To Be Confirm

4. Yellow Highlight equal to exceed Action Level



				د							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	/ater Dept (cm)	Replicate	pl	Н	Salinit	y (ppt)	Tempera	ture (ºC)	DO Satur	ation (%)	DO (I	mg/L)	Turbidit	y (NTU)	Total su solids drie 105 (ºC	spended ed at 103 - C), mg/L	Remarks
				5		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			10:10	13	1	8.65 8.66	8.7	0.01	0.01	23.23 23.24	23.2	91.0 91.1	91.1	7.70 7.70	7.70	1.89 1.99	1.9	<1 <1	1.0	NA
W/S1 11			10:25	0	1	NA	NIA	NA	ΝΙΑ	NA	ΝΑ	NA	NIA	NA	ΝΙΑ	NA	NIA	NA	ΝΙΔ	Look of Suface Dunoff
W31-II			10.25	0	2	NA	INA	NA	NA	NA	ΝA	NA	INA	NA	INA	NA	INA	NA	NA NA	Lack of Sulace Runon
WS1-R2			10.39	12	1	8.38	84	0.01	0.01	23.22	23.2	92.4	92.5	7.76	7 74	2.18	22	<1	10	NA
W011(2			10.00	12	2	8.39	0.4	0.01	0.01	23.21	20.2	92.6	52.5	7.71	1.14	2.19	2.2	<1	1.0	
WS1-I2			10:53	13	1	8.41	8.4	0.01	0.01	23.15	23.2	92.1	92.1	7.71	7.73	2.34	2.3	<1	1.0	NA
					2	8.40		0.01		23.16		92.0		7.74		2.33		1		
WS4-R3			11:03	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
W64 12			11.12	0	1	NA	ΝΙΔ	NA	ΝΑ	NA	ΝΛ	NA	ΝΙΔ	NA	ΝΙΔ	NA	ΝΙΔ	NA	ΝΑ	Look of Suface Bunoff
VV 34-13			11.15	0	2	NA	INA	NA	NA	NA	NA	NA	INA	NA	INA	NA	INA	NA	INA	
WS5-R4	07-10-23	Fine	12:12	11	1	8.15	8.1	0.03	0.03	23.11	23.1	85.8	85.9	7.10	7.11	4.12	4.1	<1	1.0	NA
					2	8.13		0.02		23.12		85.9		7.11		4.11		<1		
WS5-I4			12:28	0	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
					1					NA 22.29		NA 94.1				NA 2.09		NA 2		
WS6-R5			12:39	13	2	8.21	8.2	0.02	0.02	23.20	23.3	84.0	84.1	6.94	6.94	3.09	3.1	2	2.0	NA
			10.50	10	1	8.03		0.02		23.25		83.5		6.90		3.14	<u> </u>	2		
WS6-15			12:53	12	2	8.04	8.0	0.02	0.02	23.26	23.3	83.2	83.4	6.98	6.94	3.15	3.1	2	2.0	NA
WS6-C1			11.55	14	1	8.04	8.0	0.03	0.03	23.22	23.2	85.0	85.1	7.04	7.05	5.18	52	<1	1.0	NA
W 30-C 1			11.55	14	2	8.05	0.0	0.03	0.05	23.20	23.2	85.2	00.1	7.05	7.00	5.19	5.2	<1	1.0	
WS6-R6			11:23	12	1	8.98	9.0	0.01	0.02	23.22	23.2	83.5	83.6	6.90	6.90	2.48	2.5	<1	1.0	NA
					2	8.99		0.02		23.23	_	83.6		6.90		2.49	_	<1	_	
WS6-16			11:40	10	1 2	8.03 8.02	8.0	0.02	0.02	23.28	23.3	83.1 83.2	83.2	6.87 6.88	6.88	2.58	2.6	<1 <1	1.0	NA

2. NA: Not Applicable

3. TBC: To Be Confirm

4. Yellow Highlight equal to exceed Action Level



				Ę							In-situ Mea	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	/ater Dept (cm)	Replicate	pl	Н	Salinit	y (ppt)	Tempera	ture (⁰C)	DO Satur	ation (%)	DO (r	mg/L)	Turbidit	y (NTU)	Total sus solids drie 105 (ºC	spended ed at 103 - C), mg/L	Remarks
_				5		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			09:20	14	1	7.05	7.0	0.02	0.02	22.15 22.15	22.2	98.9 99.2	99.1	8.61 8.62	8.62	1.20	1.2	<1 <1	1.0	NA
		·			1	NA		NA		NA		NA		NA		NA		NA		
WS1-I1			09:32	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
			00.44	10	1	6.97	7.0	0.02	0.00	22.14	00.4	98.6	00.0	8.59	0.50	1.26	4.0	1	1.0	NA
W51-R2			09:41	13	2	6.98	7.0	0.02	0.02	22.14	22.1	98.5	98.6	8.58	8.59	1.25	1.3	1	1.0	NA
WS1-12			09.55	11	1	6.88	69	0.02	0.02	22.30	22.3	98.7	98.6	8.60	8 60	1.38	14	2	2.0	NA
			00.00		2	6.86	0.0	0.02	0.02	22.28	22.0	98.5	00.0	8.59	0.00	1.44	1.4	2	2.0	
WS4-R3			10:07	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				
WS4-I3			10:18	0	2	NΑ	NA		NA	NA NA	NA		NA		NA		NA	NA NA	NA	Lack of Suface Runoff
					1	6.60		0.02		23.28		84.9		7.13		5.62		6		
WS5-R4	10-11-23	Fine	10:59	15	2	6.61	6.6	0.02	0.02	23.29	23.3	84.8	84.9	7.12	7.13	5.63	5.6	6	6.0	NA
			11.10	16	1	6.65	67	0.02	0.02	23.28	22.2	82.6	007	7.05	7.06	5.79	E 9	6	7.0	NA
VV 35-14			11.10	10	2	6.65	0.7	0.02	0.02	23.26	23.3	82.8	02.1	7.06	7.00	5.83	5.0	8	7.0	NA
WS6-R5			11:23	15	1	6.72	6.7	0.02	0.02	23.30	23.3	82.5	82.3	7.02	7.01	5.77	5.8	5	5.0	NA
					2	6.73		0.02		23.31	20.0	82.0		7.00		5.78	0.0	5	0.0	
WS6-15			11:30	15	1	6.64	6.6	0.02	0.02	23.62	23.4	80.0	79.9	6.90	6.89	5.80	5.8	6	6.0	NA
						0.01		0.02		23.10		79.7		0.88		5.82 1.07		6		
WS6-C1			10:48	13	2	7.18	7.2	0.02	0.02	22.19	22.2	98.0	97.9	8.53	8.54	2.04	2.0	2	2.0	NA
WS6 D6			10.25	12	1	7.22	7.2	0.02	0.02	22.10	22.1	99.0	08.0	8.59	9 50	1.81	1 0	2	2.0	NA
VV 50-RO			10:25	13	2	7.20	1.2	0.02	0.02	22.08	22.1	98.7	98.9	8.58	8.59	1.82	1.8	2	2.0	NA
WS6-I6			10:34	12	1 2	7.02 7.03	7.0	0.02	0.02	22.11 22.14	22.1	98.3 98.0	98.2	8.57 8.55	8.56	1.78 1.89	1.8	1 <1	1.0	NA

2. NA: Not Applicable

3. TBC: To Be Confirm

4. Yellow Highlight equal to exceed Action Level



_				Ę							In-situ Mea	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	/ater Dept (cm)	Replicate	pl	Н	Salinit	y (ppt)	Tempera	ture (⁰C)	DO Satur	ation (%)	DO (r	mg/L)	Turbidit	y (NTU)	Total sus solids drie 105 (ºC	spended ed at 103 - C), mg/L	Remarks
_				5		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			10:05	15	1	6.94 6.92	6.9	0.02	0.02	22.40 22.42	22.4	96.5 96.4	96.5	8.37 8.36	8.37	4.40	4.4	2	2.0	NA
			10-10	0	1	NA	NIA	NA	NIA	NA	NIA	NA	NIA	NA	NIA	NA	NLA	NA	NIA	
WS1-I1			10:18	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
WS1-R2			10.27	14	1	6.76	68	0.02	0.02	22.44	22.5	96.3	96.5	8.35	8.36	3.95	39	3	30	NA
W01-112			10.27	1.4	2	6.76	0.0	0.02	0.02	22.46	22.0	96.7	50.5	8.36	0.00	3.94	0.0	3	0.0	
WS1-I2			10:50	11	1	6.70	6.7	0.02	0.02	22.45	22.5	96.0	95.9	8.34	8.34	4.06	4.1	3	3.5	NA
					2	6.69		0.02		22.47		95.8		8.33		4.07		4		
WS4-R3			10:46	0	2	NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA	NA	Lack of Suface Runoff
W64 12			10.56	0	1	NA	ΝΛ	NA	ΝΑ	NA	ΝΙΔ	NA	ΝΙΔ	NA	ΝΙΔ	NA	ΝΙΔ	NA	ΝΙΔ	Look of Suface Bunoff
VV 34-13			10.50	0	2	NA	NA	NA	INA	NA	NA	NA	INA	NA	INA	NA	INA	NA		
WS5-R4	12-10-23	Fine	11:30	16	1	6.65	6.7	0.02	0.02	23.26	23.3	83.6	83.6	7.09	7.10	5.75	5.8	2	2.0	NA
					2	6.65		0.02		23.26	20.0	83.5		7.10		5.77		2		
WS5-I4			11:43	13	1	6.70	6.7	0.02	0.02	23.27	23.3	82.5	82.4	7.02	7.02	5.90	5.9	2	2.0	NA
					2	6.68 6.77		0.02		23.27		82.3		7.01		5.92		2		
WS6-R5			11:57	16	2	6.78	6.8	0.04	0.04	22.90	23.0	88.5	88.6	7.30	7.32	9.78	9.8	3	3.0	NA
14/00 15			40.40	4.5	1	6.66	0.7	0.04	0.04	23.10	00.4	85.5	05.0	7.18	7.40	10.13	40.4	2		
W S6-15			12:10	15	2	6.66	6.7	0.04	0.04	23.08	23.1	85.6	85.6	7.19	7.19	10.15	10.1	2	2.0	NA
WS6-C1			11.28	17	1	6.66	67	0.02	0.02	22.45	22.4	95.8	95 9	8.32	8.32	3.77	3.8	2	15	NA
000-01			11.20	17	2	6.67	0.7	0.02	0.02	22.40	22.4	95.9	30.3	8.32	0.52	3.78	5.0	1	1.5	
WS6-R6			11:05	16	1	6.90	6.9	0.02	0.02	22.45	22.5	96.1	96.1	8.34	8.34	3.89	3.9	3	3.0	NA
					1	6.91		0.02		22.47		96.0		8.34		3.90		3		
WS6-I6			11:19	15	2	6.95	6.9	0.02	0.02	22.50	22.5	95.0	95.1	8.31	8.31	4.20	4.2	2	2.0	NA

2. NA: Not Applicable

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4. Yellow Highlight equal to exceed Action Level



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Monitoring Location	Date	Weather	Time	/ater Dept (cm)	Replicate	pl	Η	Salinit	y (ppt)	Tempera	ture (⁰C)	DO Satur	ation (%)	DO (r	mg/L)	Turbidit	y (NTU)	Total sus solids drie 105 (ºC	spended ed at 103 - C), mg/L	Remarks
_				5		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			08:41	14	1	6.72	6.7	0.03	0.03	22.14	22.3	94.8	94.6	8.25	8.26	4.44	4.4	2	2.0	NA
					2 1	0.74 NA		0.02 NA		22.39 NA		94.4 NA		0.20 NA		4.41 NA				
WS1-I1			08:52	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
			00.57	0.4	1	6.64	0.0	0.01	0.00	22.04	00.4	89.2	00.0	7.81	7.00	3.24	0.0	2	0.0	NA
WS1-R2			08:57	21	2	6.62	6.6	0.02	0.02	22.06	22.1	89.3	89.3	7.83	7.82	3.22	3.2	2	2.0	NA
WS1-12			09.14	12	1	6.69	67	0.01	0.01	22.87	22.8	88.4	88 5	7.79	7.80	3.47	34	1	1.0	ΝΔ
VV01-12			03.14	12	2	6.68	0.7	0.01	0.01	22.81	22.0	88.6	00.0	7.81	7.00	3.41	5.4	1	1.0	
WS4-R3			09:28	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		
WS4-I3			09:35	0	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
					2	NA C.C.1		NA 0.01		NA		NA 02.4		NA C.04		NA 5.02		NA		
WS5-R4	14-10-23	Fine	11:50	26	2	0.04 6.61	6.6	0.01	0.02	23.41	23.4	83.4	83.5	6.88	6.86	5.92	6.0	2	2.0	NA
					1	6.62		0.02		23.44		82.7		6.73		5.64		2		
WS5-I4			12:19	18	2	6.67	6.6	0.02	0.02	23.06	23.1	82.7	82.7	6.79	6.76	5.62	5.6	2	2.0	NA
		·	40.50	10	1	6.79	0.0	0.02	0.00	22.46	00.5	79.4	70.0	7.82	7 70	4.32	1.0	2		
WS6-R5			10:59	12	2	6.81	6.8	0.02	0.02	22.44	22.5	78.9	79.2	7.74	1.78	4.33	4.3	2	2.0	NA
WS6-15			11.27	14	1	6.83	6.8	0.01	0.01	22.67	22.7	77.4	77 /	7.63	7.62	4.17	4.2	1	1.0	NΔ
VV00-10			11.21	14	2	6.84	0.0	0.01	0.01	22.69	22.1	77.3	77.4	7.61	7.02	4.16	7.2	1	1.0	
WS6-C1			10:39	18	1	6.84	6.9	0.07	0.07	23.85	23.7	79.2	79.3	7.71	7.75	6.42	6.4	2	2.0	NA
					2	6.88		0.06		23.49		79.4		7.79		6.44 5.01		2		
WS6-R6			09:47	19	2	6.94	7.0	0.02	0.03	21.74	21.8	92.4	92.4	8.04	8.04	5.01	5.0	3	3.0	NA
WS6-I6			10:13	17	1 2	7.03 7.01	7.0	0.02	0.02	22.86 22.88	22.9	91.7 91.8	91.8	7.94 7.99	7.97	4.97 4.99	5.0	3	3.0	NA

2. NA: Not Applicable

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4. Yellow Highlight equal to exceed Action Level



				Ę							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	/ater Dept (cm)	Replicate	pl	Н	Salinit	y (ppt)	Tempera	ture (⁰C)	DO Satur	ation (%)	DO (r	mg/L)	Turbidit	y (NTU)	Total sus solids drie 105 (ºC	spended ed at 103 - C), mg/L	Remarks
_				5		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			09:40	15	1	6.65 6.63	6.6	0.02	0.02	22.32 22.32	22.3	92.8 92.9	92.9	7.98	7.99	3.29	3.3	1	1.0	NA
		·			1	NA		NA		NA		NA		NA		NA		NA		
WS1-I1			09:50	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
			10.10	16	1	6.61	6.6	0.02	0.00	22.32	22.2	93.6	02.6	8.13	0.10	3.46	2.4	1	1.0	NIA
VV51-RZ			10.12	10	2	6.62	0.0	0.02	0.02	22.32	22.3	93.5	93.6	8.13	0.13	3.42	3.4	1	1.0	NA
WS1-I2			09:55	14	1	6.66	6.6	0.02	0.02	22.31	22.3	93.2	93.3	8.11	8.12	3.36	3.3	2	2.0	NA
			00.00		2	6.63	0.0	0.02	0.02	22.31	22.0	93.4	00.0	8.12	0.12	3.32	0.0	2	2.0	
WS4-R3			10:23	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
					1	NA		NA		NA		NA		NA		NA		NA		
WS4-I3			10:32	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
	17 10 02	Fina	11.51	10	1	6.62	6.6	0.04	0.04	22.84	22.0	95.7	05.9	8.23	0.24	3.71	27	2	2.0	NA
VV 30-R4	17-10-23	Fille	11.54	13	2	6.62	0.0	0.04	0.04	22.84	22.0	95.9	95.6	8.25	0.24	3.67	3.7	2	2.0	NA
WS5-14			11:42	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		
WS6-R5			11:36	18	1	6.64 6.64	6.6	0.04	0.04	22.85 22.86	22.9	97.8 97.5	97.7	8.41 8.39	8.40	3.22	3.2	9	8.0	NA
				10	1	6.65		0.05		22.83		96.0		8.25		2.96		5		
WS6-15			11:21	16	2	6.65	6.7	0.05	0.05	22.84	22.8	96.4	96.2	8.29	8.27	2.95	3.0	6	5.5	NA
WS6-C1			11.05	15	1	6.60	6.6	0.02	0.02	22.85	22.8	97.0	96.9	8.34	8.33	3.27	33	2	2.0	NA
woo-o1			11.00	10	2	6.59	0.0	0.02	0.02	22.85	22.0	96.7	50.5	8.31	0.00	3.23	0.0	2	2.0	
WS6-R6			10:30	16	1	6.96 6.96	7.0	0.02	0.02	22.31 22.31	22.3	92.8 92.4	92.6	7.98	7.96	3.55	3.5	2	2.0	NA
					1	6.93		0.02		22.32		92.1		7.92		3.48		1		
WS6-I6			10:46	13	2	6.93	6.9	0.02	0.02	22.32	22.3	92.2	92.2	7.93	7.93	3.47	3.5	1	1.0	NA

2. NA: Not Applicable

3. TBC: To Be Confirm

4. Yellow Highlight equal to exceed Action Level



				Ę							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	/ater Dept (cm)	Replicate	pl	Н	Salinit	y (ppt)	Tempera	ture (⁰C)	DO Satur	ation (%)	DO (r	mg/L)	Turbidit	y (NTU)	Total su solids drie 105 (ºC	spended ed at 103 - c), mg/L	Remarks
_				5		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			09:17	21	1	6.59 6.54	6.6	0.02	0.02	21.74 21.77	21.8	96.2 96.4	96.3	8.43 8.49	8.46	1.71	1.7	2	2.0	NA
					1	NA		NA		NA		NA		NA		NA		NA		
WS1-I1			09:30	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
			00.40	22	1	6.81	6.0	0.01	0.01	21.64	01.7	89.2	00.4	7.81	7.04	2.64	0.7	2	2.0	NIA
W31-K2			09.42	22	2	6.84	0.0	0.01	0.01	21.66	21.7	89.6	69.4	7.87	7.04	2.66	2.7	2	2.0	NA
WS1-12			10.18	16	1	6.72	67	0.01	0.01	21.68	21 7	87.4	87 4	7.72	7 73	2.59	26	1	10	NA
			10.10	10	2	6.72	0.1	0.01	0.01	21.72	21.7	87.3	07.1	7.73	1.10	2.56	2.0	1	1.0	
WS4-R3			10:30	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
		·			1	NA		NA		NA		NA		NA		NA		NA		
WS4-13			10:39	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
	10 10 22	Fino	10.50	16	1	6.87	60	0.01	0.01	22.46	22.5	97.2	07.4	8.31	0 22	3.92	4.0	6	6.0	NA
W 35-K4	19-10-23	Fille	10.50	10	2	6.88	0.9	0.01	0.01	22.44	22.5	97.6	97.4	8.35	0.33	3.99	4.0	6	0.0	NA
WS5-14			11:13	20	1	6.74	6.7	0.02	0.02	22.09	22.1	96.1	96.2	8.07	8.08	4.17	4.2	5	5.0	NA
					2	6.72		0.01		22.07		96.3		8.09	0.00	4.16		5		
WS6-R5			11:48	16	1	6.84 6.85	6.8	0.01	0.01	23.81 23.82	23.8	86.3 86.4	86.4	7.46	7.47	6.08 6.09	6.1	6	6.5	NA
			(0.00	10	1	6.79		0.01		23.84		85.2		7.32		6.46		5		
WS6-15			12:09	18	2	6.80	6.8	0.02	0.02	23.79	23.8	85.1	85.2	7.30	7.31	6.41	6.4	5	5.0	NA
WS6-C1			12.36	26	1	6.73	67	0.07	0.07	24.61	24.6	88.3	88.2	7.69	7.67	6.81	6.8	1	1.0	NA
W30-C1			12.30	20	2	6.72	0.7	0.06	0.07	24.62	24.0	88.1	00.2	7.64	7.07	6.83	0.0	1	1.0	
WS6-R6			12:30	22	1	6.98	7.0	0.01	0.01	21.36	21.3	88.4	88.5	7.42	7.44	3.54	3.6	2	2.0	NA
					<u> </u>	7.04		0.01		21.55		87.1		7.45		3.57		2		
WS6-I6			12:46	18	2	7.03	7.0	0.02	0.02	21.68	21.7	87.3	87.2	7.39	7.38	3.43	3.5	2	2.0	NA

2. NA: Not Applicable

3. TBC: To Be Confirm

4. Yellow Highlight equal to exceed Action Level



				۲							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	/ater Dept (cm)	Replicate	pl	Н	Salinity (ppt)		Tempera	ture (⁰C)	DO Satur	ation (%)	DO (I	mg/L)	Turbidity (NTU)		Total suspended solids dried at 103 - 105 (°C), mg/L		Remarks
_				5		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			08:47	16	1	6.64 6.66	6.7	0.02	0.03	21.74	21.8	86.2 86.4	86.3	7.61	7.64	1.47	1.5	1	1.0	NA
					1	0.00 NA		NA		NA		NA		7.00 NA		NA		NA		
WS1-I1			09:00	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
W/S1 P2			00:16	20	1	6.63	6.6	0.01	0.01	23.27	22.2	86.2	96 F	7.57	7.60	1.74	1 0	1	1.0	NIA
VV31-RZ			09.16	20	2	6.64	0.0	0.01	0.01	23.11	23.2	86.8	00.0	7.63	7.60	1.77	1.0	1	1.0	
WS1-I2			09:47	14	1	6.87	6.9	0.02	0.02	22.46	22.4	84.1	84.4	7.39	7.42	1.92	2.0	1	1.0	NA
					2	6.88		0.02		22.41		84.7		7.44		1.99		1		
WS4-R3			09:57	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
M/04.10			10.00	0	1	NA	NIA	NA	NIA	NA	NIA	NA	NIA	NA	NIA	NA	NIA	NA	NIA	Lock of Outcos Duringt
VV 54-13			10:08	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
WS5-R4	21-10-23	Fine	10.14	11	1	6.91	6.9	0.03	0.03	21.84	21.9	69.4	69.7	7.19	7.18	1.24	12	2	2.0	NA
	21 10 20	1 110			2	6.94	0.0	0.02		21.88	21.0	69.9		7.17		1.22		2	2.0	
WS5-I4			10:47	0	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
					2	NA 6.73		NA 0.01		NA 21.67		NA 77.2		NA 6.01		NA 2.07		NA 5		
WS6-R5			11:21	11	2	6.77	6.8	0.01	0.01	21.69	21.7	77.4	77.3	6.90	6.91	3.07	3.1	5	5.0	NA
			44.47	10	1	6.91	0.0	0.02	0.00	22.37	00.4	75.3	75.0	6.72	0.70	2.83	0.0	5	5.0	N14
VV 56-15			11:47	16	2	6.92	6.9	0.04	0.03	22.34	22.4	75.1	75.2	6.71	6.72	2.82	2.8	5	5.0	NA
WS6-C1			12:37	13	1	6.61	6.6	0.01	0.01	21.75	21.7	68.2	68.5	7.04	7.06	5.43	5.4	2	2.0	NA
			12.07	10	2	6.67	0.0	0.01	0.01	21.64	2	68.8		7.07		5.44	0.1	2	2.0	
WS6-R6			12:58	24	1	6.93	6.9	0.01	0.02	21.36	21.4	75.9	75.9	7.46	7.45	2.73	2.8	1	1.0	NA
					2	6.94		0.02		21.39		75.9		7.44		2.77		1		
WS6-I6			13:19	20	2	6.93	6.9	0.01	0.01	21.17	21.1	75.9	75.6	7.32	7.26	2.66	2.6	2	2.0	NA

2. NA: Not Applicable

3. TBC: To Be Confirm

4. Yellow Highlight equal to exceed Action Level



				Ę							In-situ Mea	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	Vater Dep (cm)	Replicate	pН		Salinit	Salinity (ppt)		ture (⁰C)	DO Satur	ation (%)	DO (r	mg/L)	Turbidity (NTU)		Total suspended solids dried at 103 - 105 (°C), mg/L		Remarks
				5		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			09:17	14	1	6.59 6.60	6.6	0.02	0.02	21.90 21.92	21.9	88.2 88.3	88.3	7.74	7.74	2.00	2.0	2	2.0	NA
					1	NA		NA		NA		NA		NA		NA		NA		
WS1-I1			09:28	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
W/S1 D2			00:42	10	1	6.88	6.0	0.02	0.02	22.02	22.0	89.2	90.1	7.79	7 70	2.33	2.2	2	2.0	NIA
W31-R2			09.42	10	2	6.88	6.9	0.02	0.02	22.02	22.0	89.0	69.1	7.78	1.19	2.28	2.3	2	2.0	NA
WS1-I2			09:55	15	1	6.79	6.8	0.02	0.02	22.11	22.1	88.6	88.5	7.76	7.76	4.18	4.2	1	1.0	NA
			00.00	10	2	6.79	0.0	0.02	0.02	22.09		88.4		7.75		4.20		1		
WS4-R3			11:22	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
					1	NA		NA		NA		NA		NA		NA		NA		
WS4-I3			11:15	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
	24 40 22	Fina	10.50	14	1	6.81	6.0	0.02	0.00	22.33	22.2	92.9	02.0	8.06	0.07	3.19	2.2	3	2.0	
VV 55-R4	24-10-23	Fine	10:59	14	2	6.80	0.8	0.02	0.02	22.30	22.3	93.1	93.0	8.07	8.07	3.23	3.2	3	3.0	NA
WS5-14			10:50	0	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
			10.00	Ŭ	2	NA		NA		NA	101	NA		NA		NA		NA		
WS6-R5			10:48	15	1	6.78 6.70	6.8	0.02	0.02	22.08	22.1	92.8	92.8	8.07	8.07	3.10	3.1	3	3.0	NA
					1	6.78		0.02		22.07		92.0		8.03		3.54		2		
WS6-I5			10:35	14	2	6.96	6.9	0.02	0.02	22.20	22.2	92.1	92.1	8.03	8.03	3.58	3.6	2	2.0	NA
WSG C1			10:25	16	1	6.48	6 F	0.02	0.02	22.00	22.0	88.9	00 0	7.78	7 70	4.09	1 1	2	2.0	NA
WS6-C1			10:25	16	2	6.47	6.5	0.02	0.02	21.99	22.0	88.6	88.8	7.77	1.18	4.13	4.1	2	2.0	NA
WS6-R6			09:57	16	1	7.00	7.0	0.02	0.02	21.99	22.0	89.7	89.7	7.82	7.82	4.33	4.4	1	1.0	NA
					2	7.02		0.02		22.02		89.6		7.82		4.38		1		
WS6-I6			10:11	13	1 2	7.00 6.98	7.0	0.02	0.02	22.13 22.14	22.1	88.9 88.8	88.9	7.77 7.76	7.77	4.17 4.20	4.2	3	3.0	NA

2. NA: Not Applicable

3. TBC: To Be Confirm

4. Yellow Highlight equal to exceed Action Level



				Ę							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date		Time	Vater Dept (cm)	Replicate	рН		Salinity (ppt)		Temperature (ºC)		DO Satu	DO Saturation (%)		mg/L)	Turbidity (NTU)		Total suspended solids dried at 103 - 105 (°C), mg/L		Remarks
				5		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			10:04	19	1	6.69	6.7	0.02	0.02	22.89	22.9	93.9	93.9	8.08	8.08	3.21	3.2	1	1.0	NA
					2 1	0.69 NA		0.02 NA		22.90 NA		93.8 NA		8.07 NA		3.19 NA		NIA		
WS1-I1			10:14	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
			40.40	10	1	6.67	0.7	0.02	0.00	22.90		94.2		8.10	0.44	3.08	0.1	2		
WS1-R2			10:18	16	2	6.67	6.7	0.02	0.02	22.89	22.9	94.2	94.2	8.11	8.11	3.13	3.1	2	2.0	NA
WS1-12			10.33	14	1	6.69	6.7	0.02	0.02	22.90	22.9	93.6	93.8	8.06	8.08	3.19	3.2	2	2.0	NA
			10.00		2	6.69	0.1	0.02	0.02	22.89	22.0	94.0		8.09	0.00	3.20	0.2	2	2.0	
WS4-R3			10:39	0	1	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA		NA	Lack of Suface Runoff
					2 1	NA NA		NA NA		NA NA		NA NA		NA NA		NA NA		NA NA		
WS4-I3			10:44	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
	26 10 22	Fina	10.00	10	1	6.87	6.0	0.04	0.04	23.91	22.0	90.4	00.4	8.47	0.47	2.38	2.4	2	2.0	
VV 55-R4	20-10-23	Fine	12.22	13	2	6.87	6.9	0.04	0.04	23.90	23.9	90.3	90.4	8.46	0.47	2.33	2.4	2	2.0	NA
WS5-14			12:15	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		
WS6-R5			11:47	16	1	6.84 6.84	6.8	0.04	0.04	23.86	23.9	100.0	100.0	8.44	8.45	2.40	2.4	2	2.0	NA
					1	6.79		0.40		23.85		99.7		8.42		2.19		2		
WS6-I5			12:05	15	2	6.78	6.8	0.04	0.22	23.84	23.8	99.9	99.8	8.44	8.43	2.14	2.2	2	2.0	NA
WS6-C1			11.25	15	1	7.02	7.0	0.03	0.03	23.91	23.0	96.6	96.4	8.15	8 1 /	1.84	1.8	1	1.0	ΝΔ
W30-C1			11.25	15	2	7.02	7.0	0.03	0.03	23.90	23.9	96.2	90.4	8.12	0.14	1.85	1.0	1	1.0	
WS6-R6			11:05	14	1	6.93	6.9	0.02	0.02	23.90	23.9	98.2	98.3	8.29	8.30	3.54	3.5	1	1.0	NA
					2	6.93		0.02		23.90		98.4		8.30		3.48		1		
WS6-I6			10:49	12	2	6.93	6.9	0.02	0.02	23.87	23.9	98.8	98.8	8.34 8.33	8.34	3.46	3.5	<1	1.0	NA
					2	0.35		0.02		20.00		30.7		0.00		0.40				,

2. NA: Not Applicable

3. TBC: To Be Confirm

4. Yellow Highlight equal to exceed Action Level



				Ę							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date		Time	/ater Dept (cm)	Replicate	рН		Salinity (ppt)		Tempera	ture (⁰C)	DO Satu	ation (%)	DO (I	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			09:05	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		
WS1-I1			09:12	0	1	NA	NA	NA	NA		NA		NA		NA	NA	NA	NA	NA	Lack of Suface Runoff
					2			NA 0.02				NA PC 4				NA 2.01		NA 1		
WS1-R2			09:27	19		6.77 6.8	0.03	0.04	22.00	22.88 22.9	00.4 86.6	86.5	7.00	7.79	3.91	3.9	1	1.0	NA	
					1	6.89		0.04		21.74		84.10		7.64		3.64		1		
WS1-I2			09:56	10	2	6.88	6.9	0.02	0.02	21.76	21.8	84.70	84.4	7.63	7.64	3.66	3.7	1	1.0	NA
			10.10	0	1	NA	NIA	NA	NIA	NA	NIA	NA	NIA	NA	NIA	NA	NLA	NA	NIA	Lock of Suface Duroff
VV 54-R3			10:10	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Surace Runon
WS4-13			10:11	0	1	NA NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
			10.11	Ű	2	NA	1.07.1	NA	147.	NA		NA		NA		NA		NA		
WS5-R4	28-10-23	Fine	10:27	16	1	6.63	6.6	0.02	0.02	23.57	24.1	73.8	73.7	6.92	6.93	6.46	6.4	2	2.0	NA
					2	6.64		0.01		24.56		73.6		6.94		6.41		2		
WS5-I4			10:40	0	1		NA		NA		NA		NA		NA		NA	NA	NA	Lack of Suface Runoff
					2 1	NA 6.76				NA 21.04		1NA 70.6		6.07		6.01				
WS6-R5			10:50	23	2	6.73	6.7	0.03	0.03	21.94	22.0	78.3	79.0	6.84	6.91	7.04	7.0	2	2.0	NA
			44.00		1	6.84		0.01		22.47		75.4		6.72	0 = 1	6.26		2		
WS6-15			11:08	24	2	6.81	6.8	0.01	0.01	22.46	22.5	75.1	75.3	6.70	6.71	6.22	6.2	2	2.0	NA
WS6-C1			11.40	16	1	6.34	63	0.06	0.07	25.18	25.1	78.3	79.3	6.89	6 80	7.31	73	1	1.0	NA
000-01			11.40	10	2	6.33	0.5	0.07	0.07	25.07	25.1	78.2	70.5	6.88	0.09	7.34	7.5	1	1.0	
WS6-R6			11:34	23	1	6.94	7.0	0.01	0.01	22.83	22.8	89.2	89.3	7.46	7.45	3.91	3.9	2	2.0	NA
					2	6.99		0.01		22.76		89.3		7.44		3.87		2		
WS6-I6			11:56	24	1	6.91 6.92	6.9	0.02	0.03	22.49	22.5	88.1 88.7	88.4	7.32	7.34	3.64	3.7	2	2.0	NA
					2	0.92		0.05		22.40		00.7		1.50		3.00		2		

2. NA: Not Applicable

3. TBC: To Be Confirm

4. Yellow Highlight equal to exceed Action Level



_				Ę							In-situ Me	asurement						Laborator	y Analysis	
Monitoring Location	Date	Weather	Time	/ater Dept (cm)	Replicate	рН		Salinity (ppt)		Tempera	ture (⁰C)	DO Satur	ation (%)	DO (r	mg/L)	Turbidity (NTU)		Total suspended solids dried at 103 - 105 (°C), mg/L		Remarks
_				5		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	
WS1-R1			09:20	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		
WS1-I1			09:32	0	1		NA	NA NA	NA		NA		NA		NA		NA		NA	Lack of Suface Runoff
					1	6.74		0.01		26.14		98.2		7.87		4 11		2		
WS1-R2			09:47	16	2	6.77	6.8	0.01	0.01	26.11	26.1	98.4	98.3	7.89	7.88	4.16	4.1	2	2.0	NA
W/S1 12			00.20	14	1	6.82	6 9	0.02	0.02	24.57	24.6	96.2	06.2	7.94	7.07	3.92	4.0	2	2.0	NIA
VV 51-12			09.39	14	2	6.83	0.0	0.02	0.02	24.69	24.0	96.3	90.3	7.99	7.97	3.99	4.0	2	2.0	NA
WS4-R3			09.58	0	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
				, , , , , , , , , , , , , , , , , , ,	2	NA	101	NA		NA	101	NA		NA		NA		NA		
WS4-I3			10:07	0	1	NA NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
		·			2	NA 6.82		NA 0.01		NA 22.26		NA 70.2		NA 7 1 1		NA 2.41		NA 2		
WS5-R4	31-10-23	Fine	10:17	14	2	6.88	6.9	0.01	0.02	23.20	22.8	79.2	79.3	7.11	7.15	3.41	3.4	2	2.0	NA
		·	10.00		1	NA		NA		NA		NA		NA		NA		NA		
WS5-14			10:28	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Lack of Suface Runoff
WS6-P5			10.30	16	1	6.72	67	0.01	0.02	22.81	22.0	86.4	86.3	6.91	6.03	2.04	2.1	2	2.0	ΝΔ
W30-I13			10.59	10	2	6.73	0.7	0.02	0.02	22.94	22.5	86.2	00.5	6.94	0.95	2.09	2.1	2	2.0	
WS6-15			10:58	18	1	6.91	7.0	0.01	0.01	21.73	21.8	88.7	88.8	6.83	6.85	2.36	2.4	1	1.0	NA
					2	6.99		0.01		21.77		88.9		6.87		2.38		1		
WS6-C1			11:27	19	1	6.69	6.7	0.03	0.04	21.73	21.8	80.4 81.2	80.8	6.58 6.57	6.58	6.23	6.3	2	2.0	NA
					1	6.98		0.04		21.94		78.4		7.15		2.72		1		
WS6-R6			11:47	22	2	6.92	7.0	0.01	0.01	21.99	22.0	78.3	78.4	7.16	7.16	2.78	2.8	1	1.0	NA
WS6-I6			12:18	24	1 2	7.04 7.05	7.0	0.01 0.02	0.02	22.47 22.46	22.5	77.9 77.8	77.9	7.04 7.05	7.05	2.11 2.14	2.1	1 1	1.0	NA

2. NA: Not Applicable

3. TBC: To Be Confirm

4. Yellow Highlight equal to exceed Action Level
























































































































































Date







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

Statistics on Monitoring Exceedance (Reporting Month)

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

Environmental Complaints Log

Complaint	plaint Date of Complaint		Received Received N		Investigation/Mitigation	
Log No.	Received	From	Ву	Complaint	Action	Status
NIL						

UGRO

Remark:

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



Appendix J Weather Condition

Data	Mean Pressure (hPa)	Air	Temperat	ture	Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount Total Rainfa		
Date		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)			of Cloud (%)	(mm)	
October 2023									
1	1009.8	34.0	30.0	28.0	25.4	77.0	68.0	0.0	
2	1011.3	32.3	29.5	27.9	24.7	76.0	64.0	0.4	
3	1010.6	31.4	29.3	27.7	25.1	78.0	61.0	Trace	
4	1009.0	34.6	30.8	28.3	25.1	73.0	74.0	0.0	
5	1007.3	34.1	30.5	28.5	21.4	58.0	82.0	0.0	
6	1008.3	32.2	28.3	26.7	20.3	62.0	88.0	Trace	
7	1008.1	27.2	25.1	23.5	20.2	74.0	88.0	1.9	
8	1008.1	25.1	24.2	22.7	21.9	87.0	95.0	92.2	
9	1013.2	25.0	24.5	23.4	23.4	94.0	100.0	369.7	
10	1015.6	26.9	25.3	23.8	22.1	83.0	91.0	2.3	
11	1016.9	29.2	25.6	23.7	20.7	75.0	83.0	0.0	
12	1017.6	29.2	25.7	23.5	20.3	72.0	79.0	0.0	
13	1015.5	30.2	26.7	24.8	20.0	67.0	81.0	0.0	
14	1013.2	30.0	26.6	24.7	19.6	66.0	70.0	0.0	
15	1013.3	29.9	26.9	25.1	21.4	72.0	86.0	0.1	
16	1014.9	28.9	26.5	25.4	20.6	70.0	88.0	0.0	
17	1015.4	28.2	25.8	24.5	17.7	61.0	88.0	Trace	
18	1015.2	25.4	24.6	23.4	21.8	85.0	95.0	38.3	
19	1014.7	26.0	25.3	24.6	23.7	91.0	96.0	27.9	
20	1015.2	27.6	25.9	24.6	22.6	82.0	88.0	0.2	
21	1018.4	25.4	23.3	22.0	18.8	76.0	88.0	Trace	
22	1018.8	27.8	24.5	22.4	18.8	71.0	88.0	Trace	
23	1017.4	29.4	26.0	23.8	21.5	77.0	74.0	Trace	
24	1016.3	30.1	26.8	24.8	22.2	76.0	50.0	0.0	
25	1015.5	29.7	26.6	25.3	22.8	80.0	57.0	0.0	
26	1014.6	29.2	26.2	24.8	22.1	78.0	59.0	0.0	
27	1014.0	29.6	26.6	24.9	23.0	81.0	74.0	0.0	
28	1014.8	27.7	25.8	24.2	23.1	85.0	87.0	9.5	
29	1016.1	27.1	25.3	24.1	21.3	79.0	84.0	3.5	
30	1017.1	29.3	26.1	24.6	21.7	77.0	73.0	Trace	
31	1018.4	28.6	25.8	24.1	19.9	70.0	54.0	0.0	

Trace means rainfall less than 0.05 mm

Source: Hong Kong Observatory

