



## Term Contract for Provision of Sampling and Analyzing of Samples for Various Sewage Treatment Facilities in Urban Area, Lantau and Outlying Islands to the Drainage Service Department

### **Provision of Routine Marine Water Quality Monitoring Services Report for the Month of Oct 2022**

Contract No. : DE/2020/02

Applicant : SEWAGE TREATMENT DIVISION 2  
ELECTRICAL AND MECHANICAL BRANCH  
DRAINAGE SERVICES DEPARTMENT

Address : STONECUTTERS ISLAND SEWAGE TREATMENT WORKS.,  
NGONG SHUNG ROAD, NGONG SHUEN CHAU,  
KOWLOON, HONG KONG

Application Number : LB028478(7)

Report Number : AB0049127(1)

Report Issued Date : 18 Nov 2022

*For and on behalf of*  
CMA Industrial Development Foundation Limited

A handwritten signature in black ink, appearing to read "Lau Yan Kin".

Authorized Signature : \_\_\_\_\_

Lau Yan Kin  
Senior Manager  
Environmental Division

The conformity statement stated in Conclusion above is based on the decision rule agreed with applicant and listed in [www.cmatesting.org/qac/statement-of-conformity.pdf](http://www.cmatesting.org/qac/statement-of-conformity.pdf).  
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This document shall not be reproduced except in full or with written approval by CMA Testing. The observations and test results in this report are relevant only to the sample tested.

CMA Industrial Development Foundation Limited

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St., Fo Tan, Shatin, N.T., Hong Kong.

Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: [info@cmatesting.org](mailto:info@cmatesting.org) Web Site: <http://www.cmatesting.org>



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## EXECUTIVE SUMMARY

1. This is the water quality monitoring report prepared by CMA Testing for Contract No. DE/2020/02 “Term Contract for Provision of Sampling and Analysing of Samples for Various Sewage Treatment Facilities in Urban Area, Lantau and Outlying Islands to the Drainage Services Department”. This report documented the results and findings of Operation Phase Environmental Monitoring works conducted for Routine Marine Water Quality Monitoring (rMWQM) of Project.
2. In accordance with the Final EM&A Manual, environmental monitoring has been conducted in the reporting month with a Quarterly Basis for various parameters as summarized in **Table I**.

**Table I      Summary Table for Environmental Monitoring Works Conducted in the Reporting Month**

Monitoring Parameters	Monitoring Date	Laboratory Testing Parameters
Marine Water Quality	28 Oct 2022	E.coli, Total Residual Chlorine (TRC), Chlorination by-products (CBPs) and Contaminants of Concern (COCs)



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## 1. INTRODUCTION

- 1.1. CMA Testing was commissioned by Drainage Services Department (DSD) to undertake the operation phase environmental monitoring for Advance Disinfection Facilities (ADF) at Stonecutters Island Sewage Treatment Works (SCISTW) (hereafter called the “the Services”).
- 1.2. The operation phase monitoring, which includes effluent quality monitoring, marine water quality monitoring and emergency discharge monitoring, is to monitor the effluent and marine water quality impact of ADF during its operation phase.
- 1.3. This is the water quality monitoring report prepared by CMA Testing that documented the results and findings of Operation Phase Water Quality Monitoring works conducted for Routine Marine Water Quality Monitoring (rMWQM) of Project.



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### 2. MARINE WATER QUALITY MONITORING

#### Monitoring Requirements

- 2.1. Monitoring was taken at three water depths, namely, 1m below water surface, mid-depth and 1m above sea bed, except where the water depth is less than 6m, in which case the mid-depth station may be omitted. If the water depth be less than 3m, only the mid-depth station will be monitored.
- 2.2. Six samples (replicates) at each monitoring stations were collected by collecting the same amount of water sample at each depth.
- 2.3. One grab sample was collected at each water depth for E.coli analysis.

#### Monitoring Locations

- 2.4. Six monitoring stations were designated for the marine water quality monitoring programme. The locations are summarized in Table 2.1 and shown on **Appendix I**.

**Table 2.1 Proposed Marine Water Quality Monitoring Stations**

Station	Description	Coordinates	
		Easting	Northing
1	Edge of Mixing Zone (northwest of effluent diffuser)	829762.00	819604.47
2	Edge of ZID (northwest of effluent diffuser)	830117.99	819251.93
3	Edge of ZID (southeast of effluent diffuser)	830186.21	819184.37
4	Edge of Mixing Zone (southeast of effluent diffuser)	830525.00	818848.87
SM6	Control Station	826179.81	805902.89
SM12	Control Station	819524.19	808420.40

#### Monitoring Schedule

- 2.5. The marine water quality monitoring was conducted coincide with effluent quality monitoring on monitoring date.

#### Monitoring Equipment

- 2.6. The equipment used in the marine water quality monitoring in the reporting month is summarized in Table 2.2. Copies of calibration certificates are shown in **Appendix II**.

**Table 2.2 Marine Water Quality Monitoring Equipment**

Equipment	Model and Make	Qty
Water Sampler	Kahlsico Water Sampler	1
Water Depth Detector	Garmin Striker 4 or equivalent	1
Positioning System	Global Positioning System (GPS)	1
Chlorine Meter	HACH Pocket Colorimeter II or equivalent	1
Turbidimeter	HACH 2100Q or equivalent	1
Multi-parameter Water Quality System	YSI Professional Plus (Pro Plus) or equivalent	1



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**Monitoring Parameters and Frequency**

- 2.7. Marine Water sampling on E.coli, Total Residual Chlorine (TRC), Chlorination By-Products (CBPs) and the Contaminants of Concern (COCs) shall be performed quarterly throughout the contract period.
- 2.8. The list of parameters to be analysed as well as the corresponding analytical methods and lowest reportable value are listed in Table 2.3

**Table 2.3 Analytical Methods for Laboratory Analysis for Marine Water Samples**

Parameters	Analytical Method	Lowest Reportable Value ( $\mu\text{g/L}$ )
<b>TRC and Potential CBPs</b>		
Total Residual Chlorine	APHA 23ed 4500 Cl G	10
Bromoform	Tri-halomethanes (THMs)	0.1
Bromodichloromethane		0.1
Chloroform		0.1
Dibromochloromethane		5
Bromoacetic acid	Haloacetic Acids (HAAs)	2
Chloroacetic acid		2
Dibromoacetic acid		2
Dichloroacetic acid		2
Trichloroacetic acid		2
<b>Bacteria</b>		
E.coli	Environmental Monitoring Laboratory Test Method Manual TM09/EC/10/098 Issue 3, Environmental Protection Department, HK.	1 cfu/100mL
<b>Contaminants of Concern (COCs)</b>		
Methylene chloride	Halogenated Aliphatics	20
Carbon tetrachloride		0.5
1,1-dichloroethane		0.5
1,2-dichloroethane		0.5
1,1-dichloroethylene		0.5
1,2-dichloropropane		0.5
Tetrachloroethylene		0.5
1,1,1-trichloroethane	Halogenated Aliphatics	0.5
1,1,2-trichloroethane		0.5
Trichloroethylene		0.5



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Term Contract for Provision of Sampling and Analyzing of Samples for Various Sewage Treatment Facilities in Urban Area, Lantau and Outlying Islands to the Drainage Services Department

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Parameters	Analytical Method	Lowest Reportable Value (µg/L)
<b>Contaminants of Concern (COCs)</b>		
2-chlorophenol	In house method TG-ENV-WW-80, 84 & 86 (by GC-MSD)	0.5
2,4-dichlorophenol		0.5
p-chloro-m-cresol		0.5
Pentachlorophenol		0.5
2,4,6-trichlorophenol		0.5
Bis(2-chloroethoxy) methane		0.5
Chlorobenzene	In house method TG-ENV-WW-78 (by Headspace GC/MSD)  &  In house method TG-ENV-WW-86 (by GC-MSD)	0.5
1,4-dichlorobenzene		0.5
Hexachlorobenzene		0.01
Hexachlorocyclopentadiene		2.5
Hexachloroethane		0.5
1,2,4-trichlorobenzene		0.5
Alpha-BHC		0.01
Beta-BHC		0.01
Gamma-BHC		0.01

### 3. RESULTS AND OBSERVATIONS

#### Weather and Sea Condition

- 3.1. The weather condition was Fine while the sea condition was moderate during the sampling period on the monitoring date

#### Marine Water Quality

- 3.2. The in-situ measurement results include dissolved oxygen, turbidity, salinity, pH and temperature of the marine water monitoring. Also, the results of marine water quality monitoring conducted on the monitoring date and QC report are shown in **Appendix II**.



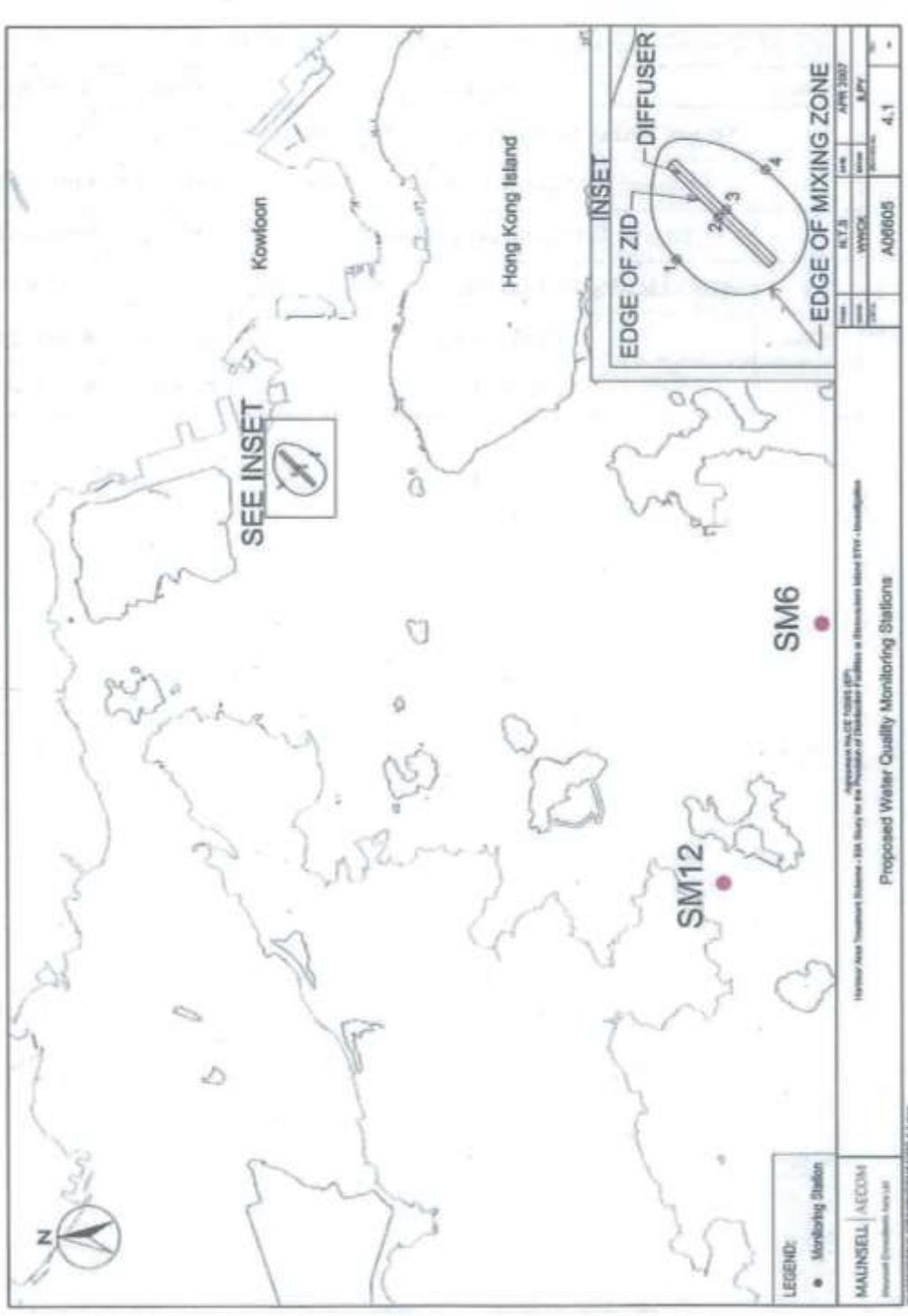
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**Appendix I - Location of Monitoring Stations**

# CMA TESTING

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Term Contract for Provision of Sampling and Analyzing of Samples for Various Sewage Treatment Facilities in Urban Area, Lantau and Outlying Islands to the Drainage Services Department

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**Appendix II - Report for Laboratory Test(s)**

## TEST REPORT

Report No. : AB0049128(2) Date: 16 Nov 2022

Application No. : LB028478(7)

Applicant : SEWAGE TREATMENT DIVISION 2  
ELECTRICAL AND MECHANICAL BRANCH  
DRAINAGE SERVICES DEPARTMENT  
STONECUTTERS ISLAND SEWAGE TREATMENT WORKS,  
NGONG SHUNG ROAD, NGONG SHUEN CHAU,  
KOWLOON, HONG KONG

Contract No. : DE/2020/02

Project Name : Term Contract for Provision of Sampling and Analyzing of Samples for Various Sewage Treatment Facilities in Urban Area, Lantau and Outlying Islands to the Drainage Services Department

Sample Description : Six (6) marine sampling point, Eighteen (18) marine water samples sampled by the staff of CMA Industrial Development Foundation Limited.  
Samples were refrigerated during delivery.

Sample ID : Refer to Sample ID on page 4 to 10.

Sampling Location	Station	Description	Coordinates	
			Easting	Northing
	1	Edge of Mixing Zone (northwest of effluent diffuser)	829762.00	819604.47
	2	Edge of ZID (northwest of effluent diffuser)	830117.99	819251.93
	3	Edge of ZID (southeast of effluent diffuser)	830186.21	819184.37
	4	Edge of Mixing Zone (southeast of effluent diffuser)	830525.00	818848.87
	SM6	Control Station	826179.81	805902.89
	SM12	Control Station	819524.19	808420.40

For and on behalf of  
CMA Industrial Development Foundation Limited



Authorized Signature : \_\_\_\_\_

Lau Yan Kin  
Senior Manager  
Environmental Division

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This document shall not be reproduced except in full or with written approval by CMA Testing. The observations and test results in this report are relevant only to the sample tested.

## **TEST REPORT**

Report No. : AB0049128(2) Date: 16 Nov 2022

Application No. : LB028478(7)

Sampling Date : 28 Oct 2022

Date Received : 28 Oct 2022

Test Period : 01 Nov 2022 to 08 Nov 2022

Test Requested :  
1. Temperature (on-site measurement)  
2. pH (on-site measurement)  
3. Salinity (on-site measurement)  
4. Dissolved Oxygen (DO) (mg/L) (on-site measurement)  
5. Dissolved Oxygen (DOS) (% saturation) (on-site measurement)  
6. Turbidity (on-site measurement)  
7. Total Residual Chlorine (on-site measurement)  
8. E. coli count  
9. Bromoform  
10. Bromodichloromethane  
11. Chloroform  
12. Dibromochloromethane  
13. Bromoacetic acid  
14. Chlороacetic acid  
15. Dibromoacetic acid  
16. Dichloroacetic acid  
17. Trichloroacetic acid  
18. Methylene chloride  
19. Carbon tetrachloride  
20. 1,1-dichloroethane  
21. 1,2-dichloroethane  
22. 1,1-dichloroethylene  
23. 1,2-dichloropropane  
24. Tetrachloroethylene  
25. 1,1,1-trichloroethane  
26. 1,1,2-trichloroethane  
27. Trichloroethylene  
28. 2-chlorophenol  
29. 2,4-dichlorophenol  
30. p-chloro-m-cresol  
31. Pentachlorophenol  
32. 2,4,6-trichlorophenol  
33. Bis(2-chloroethoxy) methane  
34. Chlorobenzene  
35. 1,4-dichlorobenzene  
36. Hexachlorobenzene  
37. Hexachlorocyclopentadiene  
38. Hexachloroethane  
39. 1,2,4-trichlorobenzene  
40. Alpha-BHC  
41. Beta-BHC  
42. Gamma-BHC



## TEST REPORT

Report No. : AB0049128(2)

Date: 16 Nov 2022

Application No. : LB028478(7)

Test Method : 1-5. In house method (by multimeter)  
6. APHA 23ed 2130 B  
7. APHA 23ed 4500 Cl G  
8. Environmental Monitoring Laboratory Test Method Manual  
TM09/EC/10/098 Issue 3, Environmental Protection  
Department, HK.  
9-12. USEPA 8260B  
13-17. In house method TG-ENV-WW-79 (by GC-MSD)  
18-27. ISO 17943:2016 & USEPA 8260B  
28-33. In house method TG-ENV-WW-80, 84 & 86 (by GC-MSD)  
34-42. In house method TG-ENV-WW-78 (by Headspace GC-MSD) &  
In house method TG-ENV-WW-86 (by GC-MSD)

Test Result : Refer to results on page 4 to 10.

## TEST REPORT

Report No. : AB0049128(2)

Date: 16 Nov 2022

Application No. : LB028478(7)

### Marine Water Quality

Sampling Date 28-Oct-2022

Monitoring Location	Time	Water Depth (m)	Sampling Depth (m)	E.coli (cfu/100mL)	Temperature (°C)	Salinity (ppt)		pH		DO (mg/L)		DOS (%)		Turbidity (NTU)		TRC (mg/L)		
1	06:45 -06:50	9.6	1.0	820	25.7	25.7	28.9	28.9	8.9	8.9	6.2	6.2	89.5	89.5	3.2	3.2	0.01	0.01
			4.8	1100	25.6	25.6	31.4	31.4	8.8	8.8	6.2	6.2	89.4	89.4	3.2	3.2	0.01	0.01
			8.6	1200	25.5	25.5	32.0	32.0	8.8	8.8	6.1	6.1	88.8	88.8	3.2	3.2	0.01	0.01
2	06:53 - 06:58	9.8	1.0	840	25.6	25.6	28.9	28.9	8.6	8.6	6.2	6.2	89.5	89.5	3.3	3.3	0.01	0.01
			4.9	540	25.6	25.6	31.3	31.3	8.7	8.7	6.1	6.1	88.8	88.8	3.3	3.3	0.01	0.01
			8.8	640	25.6	25.6	31.9	31.9	8.7	8.7	6.0	6.0	87.6	87.6	3.3	3.3	0.01	0.01
3	07:01-07:06	9.8	1.0	120	25.6	25.6	29.5	29.5	8.8	8.8	6.2	6.2	89.4	89.4	2.8	2.8	0.01	0.01
			4.9	200	25.6	25.6	30.0	30.0	8.8	8.8	6.0	6.0	86.4	86.4	3.2	3.2	0.01	0.01
			8.8	280	25.5	25.5	31.8	31.8	8.8	8.8	6.0	6.0	86.8	86.8	3.4	3.4	0.01	0.01
4	07:09 - 07:14	9.7	1.0	300	25.7	25.7	29.5	29.5	8.7	8.7	6.2	6.2	89.3	89.3	3.1	3.1	0.01	0.01
			4.9	110	25.6	25.6	30.0	30.0	8.8	8.8	6.0	6.0	87.2	87.2	3.1	3.1	0.01	0.01
			8.7	84	25.5	25.5	31.8	31.8	8.8	8.8	6.0	6.0	86.9	86.9	3.2	3.2	0.01	0.01
SM6	09:22-09:25	15.4	1.0	12	25.9	25.9	28.5	28.5	8.8	8.8	6.1	6.1	88.4	88.4	2.9	2.9	0.01	0.01
			7.7	8	25.9	25.9	28.8	28.8	8.7	8.7	6.1	6.1	88.5	88.5	3.0	3.0	0.02	0.02
			14.4	19	25.8	25.8	29.0	29.0	8.8	8.8	6.0	6.0	87.9	87.9	3.0	3.0	0.01	0.01
SM12	09:56-10:00	9.6	1.0	33	25.8	25.8	28.5	28.5	8.9	8.9	6.2	6.2	89.1	89.1	2.9	2.9	0.01	0.01
			4.8	20	25.7	25.7	28.7	28.7	8.9	8.9	6.1	6.1	89.4	89.4	2.9	2.9	0.02	0.02
			8.6	42	25.5	25.5	28.9	28.9	8.8	8.8	6.1	6.1	87.3	87.3	2.9	2.9	0.02	0.02
			LRV	1 cfu/100ml	0.1 °C		1 ppt		0.1		0.5 mg/L		-		1 NTU		0.01 mg/L	

## TEST REPORT

Report No. : AB0049128(2)

Date: 16 Nov 2022

Application No. : LB028478(7)

### Marine Water Quality

Sampling Date 28-Oct-2022

Monitoring Location	Time	Water Depth (m)	Sampling Depth (m)	Bromoform (µg/L)		Bromodichloromethane (µg/L)		Chloroform (µg/L)		Dibromochloromethane (µg/L)		Bromoacetic acid (µg/L)	
1	06:45 -06:50	9.6	1.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
			4.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
			8.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
2	06:53 - 06:58	9.8	1.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
			4.9	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
			8.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
3	07:01-07:06	9.8	1.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
			4.9	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
			8.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
4	07:09 - 07:14	9.7	1.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
			4.9	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
			8.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
SM6	09:22-09:25	15.4	1.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
			7.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
			14.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
SM12	09:56-10:00	9.6	1.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
			4.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
			8.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 5	< 2	< 2
			LRV	0.1 µg/L		0.1 µg/L		0.1 µg/L		5 µg/L		2 µg/L	

## TEST REPORT

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Application No. : LB028478(7)

### Marine Water Quality

Sampling Date 28-Oct-2022

Monitoring Location	Time	Water Depth (m)	Sampling Depth (m)	Chloroacetic acid ( $\mu\text{g/L}$ )	Dibromoacetic acid ( $\mu\text{g/L}$ )	Dichloroacetic acid ( $\mu\text{g/L}$ )	Trichloroacetic acid ( $\mu\text{g/L}$ )
1	06:45 - 06:50	9.6	1.0	< 2	< 2	< 2	< 2
			4.8	< 2	< 2	< 2	< 2
			8.6	< 2	< 2	< 2	< 2
2	06:53 - 06:58	9.8	1.0	< 2	< 2	< 2	< 2
			4.9	< 2	< 2	< 2	< 2
			8.8	< 2	< 2	< 2	< 2
3	07:01-07:06	9.8	1.0	< 2	< 2	< 2	< 2
			4.9	< 2	< 2	< 2	< 2
			8.8	< 2	< 2	< 2	< 2
4	07:09 - 07:14	9.7	1.0	< 2	< 2	< 2	< 2
			4.9	< 2	< 2	< 2	< 2
			8.7	< 2	< 2	< 2	< 2
SM6	09:22-09:25	15.4	1.0	< 2	< 2	< 2	< 2
			7.7	< 2	< 2	< 2	< 2
			14.4	< 2	< 2	< 2	< 2
SM12	09:56-10:00	9.6	1.0	< 2	< 2	< 2	< 2
			4.8	< 2	< 2	< 2	< 2
			8.6	< 2	< 2	< 2	< 2
			LRV	2 $\mu\text{g/L}$	2 $\mu\text{g/L}$	2 $\mu\text{g/L}$	2 $\mu\text{g/L}$

## TEST REPORT

Report No. : AB0049128(2)

Date: 16 Nov 2022

Application No. : LB028478(7)

### Marine Water Quality

Sampling Date 28-Oct-2022

Monitoring Location	Time	Water Depth (m)	Sampling Depth (m)	Methylene chloride (µg/L)	Carbon tetrachloride (µg/L)	1,1-dichloroethane (µg/L)	1,2-dichloroethane (µg/L)	1,1-dichloroethylene (µg/L)	1,2-dichloropropane (µg/L)
1	06:45 -06:50	9.6	1.0	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
			4.8	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
			8.6	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
2	06:53 - 06:58	9.8	1.0	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
			4.9	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
			8.8	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
3	07:01-07:06	9.8	1.0	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
			4.9	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
			8.8	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
4	07:09 - 07:14	9.7	1.0	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
			4.9	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
			8.7	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
SM6	09:22-09:25	15.4	1.0	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
			7.7	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
			14.4	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
SM12	09:56-10:00	9.6	1.0	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
			4.8	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
			8.6	< 20	< 20	< 0.5	< 0.5	< 0.5	< 0.5
			LRV	20 µg/L	0.5 µg/L	0.5 µg/L	0.5 µg/L	0.5 µg/L	0.5 µg/L

## TEST REPORT

Report No. : AB0049128(2)

Date: 16 Nov 2022

Application No. : LB028478(7)

### Marine Water Quality

Sampling Date 28-Oct-2022

Monitoring Location	Time	Water Depth (m)	Sampling Depth (m)	Tetrachloroethylene (µg/L)	1,1,1-trichloroethane (µg/L)	1,1,2-trichloroethane (µg/L)	Trichloroethylene (µg/L)	2-chlorophenol (µg/L)	2,4-dichlorophenol (µg/L)
1	06:45 -06:50	9.6	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			4.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			8.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2	06:53 - 06:58	9.8	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			4.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			8.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
3	07:01-07:06	9.8	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			4.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			8.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4	07:09 - 07:14	9.7	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			4.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			8.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SM6	09:22-09:25	15.4	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			7.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			14.4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SM12	09:56-10:00	9.6	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			4.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			8.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			LRV	0.5 µg/L	0.5 µg/L	0.5 µg/L	0.5 µg/L	0.5 µg/L	0.5 µg/L

## TEST REPORT

Report No. : AB0049128(2)

Date: 16 Nov 2022

Application No. : LB028478(7)

### Marine Water Quality

Sampling Date 28-Oct-2022

Monitoring Location	Time	Water Depth (m)	Sampling Depth (m)	p-chloro-m-cresol (µg/L)	Pentachlorophenol (µg/L)	2,4,6-trichlorophenol (µg/L)	Bis(2-chloroethoxy) methane (µg/L)	Chlorobenzene (µg/L)	1,4-dichlorobenzene (µg/L)
1	06:45 -06:50	9.6	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			4.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			8.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2	06:53 - 06:58	9.8	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			4.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			8.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
3	07:01-07:06	9.8	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			4.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			8.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
4	07:09 - 07:14	9.7	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			4.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			8.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SM6	09:22-09:25	15.4	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			7.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			14.4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SM12	09:56-10:00	9.6	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			4.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			8.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			LRV	0.5 µg/L	0.5 µg/L	0.5 µg/L	0.5 µg/L	0.5 µg/L	0.5 µg/L

## TEST REPORT

Report No. : AB0049128(2)

Date: 16 Nov 2022

Application No. : LB028478(7)

### Marine Water Quality

Sampling Date 28-Oct-2022

Monitoring Location	Time	Water Depth (m)	Sampling Depth (m)	Hexachlorobenzene (µg/L)	Hexachlorocyclopentadiene (µg/L)	Hexachloroethane (µg/L)	1,2,4-trichlorobenzene (µg/L)	Alpha-BHC (µg/L)	Beta-BHC (µg/L)	Gamma-BHC (µg/L)
1	06:45 - 06:50	9.6	1.0	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
			4.8	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
			8.6	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
2	06:53 - 06:58	9.8	1.0	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
			4.9	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
			8.8	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
3	07:01-07:06	9.8	1.0	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
			4.9	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
			8.8	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
4	07:09 - 07:14	9.7	1.0	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
			4.9	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
			8.7	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
SM6	09:22-09:25	15.4	1.0	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
			7.7	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
			14.4	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
SM12	09:56-10:00	9.6	1.0	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
			4.8	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
			8.6	< 0.01	< 0.01	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
			LRV	0.01 µg/L	2.5 µg/L	0.5 µg/L	0.5 µg/L	0.01 µg/L	0.01 µg/L	0.01 µg/L



## TEST REPORT

Report No. : AB0049128(2)

Date: 16 Nov 2022

Application No. : LB028478(7)

### QC Report

Parameter	Method Blank	Acceptance Criteria	QC Recovery	Acceptance Criteria	Spike Recovery	Acceptance Criteria	Duplicate (RPD)	Acceptance Criteria
	(mg/L)	(mg/L)	(%)	(%)	(%)	(%)	(%)	(%)
Total Residual Chlorine	<0.01	<0.01	105	85-115	101	85-115	<1	≤20
Parameter	Method Blank	Acceptance Criteria	QC Recovery	Acceptance Criteria	Spike Recovery	Acceptance Criteria	Duplicate (RPD)	Acceptance Criteria
	(μg/L)	(μg/L)	(%)	(%)	(%)	(%)	(%)	(%)
Bromoform	<0.02	<0.02	95	80-120	99	70-130	13	≤20
Bromodichloromethane	<0.02	<0.02	92	80-120	95	70-130	8	≤20
Chloroform	<0.02	<0.02	100	80-120	103	70-130	10	≤20
Dibromochloromethane	<1	<1	87	80-120	91	70-130	9	≤20
Bromoacetic acid	<0.4	<0.4	93	80-120	96	70-130	11	≤20
Chloroacetic acid	<0.4	<0.4	89	80-120	99	70-130	13	≤20
Dibromoacetic acid	<0.4	<0.4	102	80-120	104	70-130	15	≤20
Dichloroacetic acid	<0.4	<0.4	100	80-120	105	70-130	9	≤20
Trichloroacetic acid	<0.4	<0.4	100	80-120	98	70-130	10	≤20



## TEST REPORT

Report No. : AB0049128(2)

Date: 16 Nov 2022

Application No. : LB028478(7)

### QC Report

Parameter	Method Blank	Acceptance Criteria	QC Recovery	Acceptance Criteria	Spike Recovery	Acceptance Criteria	Duplicate (RPD)	Acceptance Criteria
	(µg/L)	(µg/L)	(%)	(%)	(%)	(%)	(%)	(%)
Methylene chloride	<4	<4	101	80-120	100	70-130	12	≤20
Carbon tetrachloride	<0.1	<0.1	104	80-120	109	70-130	10	≤20
1,1-dichloroethane	<0.1	<0.1	97	80-120	95	70-130	10	≤20
1,2-dichloroethane	<0.1	<0.1	90	80-120	84	70-130	7	≤20
1,1-dichloroethylene	<0.1	<0.1	93	80-120	90	70-130	11	≤20
1,2-dichloropropane	<0.1	<0.1	101	80-120	95	70-130	14	≤20
Tetrachloroethylene	<0.1	<0.1	103	80-120	100	70-130	10	≤20
1,1,1-trichloroethane	<0.1	<0.1	98	80-120	91	70-130	10	≤20
1,1,2-trichloroethane	<0.1	<0.1	100	80-120	96	70-130	12	≤20
Trichloroethylene	<0.1	<0.1	101	80-120	110	70-130	9	≤20
2-chlorophenol	<0.1	<0.1	104	80-120	115	70-130	13	≤20
2,4-dichlorophenol	<0.1	<0.1	107	80-120	97	70-130	16	≤20
p-chloro-m-cresol	<0.1	<0.1	99	80-120	89	70-130	10	≤20
Pentachlorophenol	<0.1	<0.1	105	80-120	94	70-130	8	≤20
2,4,6-trichlorophenol	<0.1	<0.1	103	80-120	101	70-130	13	≤20
Bis(2-chloroethoxy) methane	<0.1	<0.1	106	80-120	113	70-130	11	≤20
Chlorobenzene	<0.1	<0.1	99	80-120	92	70-130	13	≤20
1,4-dichlorobenzene	<0.1	<0.1	92	80-120	98	70-130	14	≤20
Hexachlorobenzene	<0.005	<0.005	97	80-120	89	70-130	11	≤20
Hexachlorocyclopentadiene	<0.5	<0.5	88	80-120	91	70-130	14	≤20
Hexachloroethane	<0.1	<0.1	95	80-120	99	70-130	12	≤20
1,2,4-trichlorobenzene	<0.1	<0.1	90	80-120	85	70-130	8	≤20
Alpha-BHC	<0.005	<0.005	96	80-120	90	70-130	10	≤20
Beta-BHC	<0.005	<0.005	102	80-120	93	70-130	13	≤20
Gamma-BHC	<0.005	<0.005	98	80-120	104	70-130	12	≤20

## TEST REPORT

Report No. : AB0049128(2)

Date: 16 Nov 2022

Application No. : LB028478(7)

### Calibration Certificate



**Cal Lab Limited 校正實驗室有限公司**  
Room 2103, Technology Plaza, 29-35 Sha Tsui Road,  
Tsuen Wan, NT, Hong Kong  
Tel: +852 25680106 Email: info@callab.com.hk  
Fax: +852 30116194 Website: www.callab.com.hk

Calibration Certificate No.: CC0622209

#### Customer Information

Customer: CMA Testing and Certification Laboratories  
Address: Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, NT, Hong Kong

#### Equipment Identification

Equipment Description	Manufacturer	Model No.	Serial No.	Assigned equipment No.:
Multiparameter Instrument	YSI	Professional Plus	Meter: 11J100821	N/A

#### Certificate Information

Date of Receipt:	1 September 2022	Calibration Condition:	18-25°C, <75%RH
Date of Calibration:	5 September 2022	Adjustment:	N/A
Due Date of Calibration:	5 December 2022	Appearance:	Good
Calibration Procedure:	APHA 21e 4500-H B ,APHA 21e 4500-O G, APHA 21e 2510 B, JIG 130-2011, APHA 21e 2520 B, APHA 21e 2580 B	Remark:	N/A

- Note1: The estimated expanded uncertainties have been calculated in "Evaluation and expression of uncertainty in measurement" and give an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.  
Note2: The standard(s) and instrument used in the calibration are traceable to national or international recognized standard and are calibrated on a schedule to maintain the accuracy and good condition.  
Note3: The result reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long term stability of the instrument.  
Note4: The result shown in this calibration certificate relate only to the item calibrated, and the result only applies to the calibration item as measured.

Approved By:

Sherry Cheung

Company Chop:



Certificate Issue Date: 6 September 2022

CC0622209

Page 1 of 2

- The certificate shall not be reproduced except in full, without written approval of Cal Lab Calibration.
- The certificate is issued subject to the latest Terms and Conditions, available at our web site.

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TESTING

## TEST REPORT

Report No. : AB0049128(2)

Date: 16 Nov 2022

Application No. : LB028478(7)



**Cal Lab Limited 校正實驗室有限公司**  
Room 2103, Technology Plaza, 29-35 Sha Tsui Road,  
Tsuen Wan, NT, Hong Kong  
Tel: +852 25680106 Email: info@callab.com.hk  
Fax: +852 30116194 Website: www.callab.com.hk

**Result of Calibration**

a) Temperature

Reference reading (°C)	Display Reading (°C)	Error of indication (°C)
14.87	15.0	0.1
24.87	25.2	0.3
35.16	35.2	0.0

b) Dissolved Oxygen

Reference reading (mg/L)	Display Reading (mg/L)	Error of indication (mg/L)
0.00	0.00	0.00
4.02	3.99	-0.03
8.06	8.01	-0.05

c) Conductivity at 25°C

Reference reading (µS/cm)	Display Reading (µS/cm)	Error of indication (%)
147.4	167.2	13.4
1411	1423	0.9
12846	13409	4.4
111310	109884	-1.3

d) Salinity

Reference reading (ppt)	Display Reading (ppt)	Error of indication (%)
10	10.08	0.8
20	19.82	-0.9
30	30.17	0.6

e) Oxidation-Reduction Potential (ORP)

Reference reading (mV)	Display Reading (mV)	Error of indication (mV)
+230	+298	-2

f) pH at 25°C

Reference reading	Display Reading	Error of indication
4.00	3.90	-0.10
6.86	6.76	-0.10
9.18	9.27	0.09
10.01	10.06	0.05

\*\*\* End of Certificate \*\*\*

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CC0622209  
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## TEST REPORT

Report No. : AB0049128(2)

Date: 16 Nov 2022

Application No. : LB028478(7)

 <b>Cal Lab Limited 校正實驗室有限公司</b> Room 2103, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, NT, Hong Kong Tel: +852 25680106 Email: info@callab.com.hk Fax: +852 30116194 Website: www.callab.com.hk	<p><b>Calibration Certificate No.: CC0652210</b></p> <p><b>Customer Information</b></p> <p>Customer: CMA Testing and Certification Laboratories            Address: Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fo Tan, Shatin, NT, Hong Kong</p> <p><b>Equipment Identification</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Equipment Description</th> <th>Manufacturer</th> <th>Model No.</th> <th>Serial No.</th> <th>Assigned equipment No.</th> </tr> <tr> <td>Portable Turbidimeter</td> <td>Hach</td> <td>2100Q</td> <td>13070C026697</td> <td>N/A</td> </tr> </table> <p><b>Certificate Information</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Date of Receipt:</td> <td>3 October 2022</td> <td>Calibration Condition:</td> <td>18-25°C, &lt;75%RH</td> </tr> <tr> <td>Date of Calibration:</td> <td>3 October 2022</td> <td>Adjustment:</td> <td>N/A</td> </tr> <tr> <td>Due Date of Calibration:</td> <td>3 January 2023</td> <td>Appearance:</td> <td>Good</td> </tr> <tr> <td>Calibration Procedure:</td> <td>APHA 21e 2130B</td> <td>Remark:</td> <td>N/A</td> </tr> </table> <p><b>Result of Calibration</b></p> <p><b>Turbidity</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Reference reading (NTU)</th> <th>Display Reading (NTU)</th> <th>Error of indication (%)</th> </tr> </thead> <tbody> <tr> <td>Blank</td> <td>0.00</td> <td>0.0</td> </tr> <tr> <td>10</td> <td>9.92</td> <td>-0.8</td> </tr> <tr> <td>20</td> <td>19.7</td> <td>-1.5</td> </tr> <tr> <td>100</td> <td>104</td> <td>4.0</td> </tr> <tr> <td>800</td> <td>803</td> <td>0.4</td> </tr> </tbody> </table> <p><b>Note2:</b> The estimated expanded uncertainties have been calculated in "Evaluation and expression of uncertainty in measurement" and give an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.  <b>Note3:</b> The standard(s) and instrument used in the calibration are traceable to national or international recognised standard and are calibrated on a schedule to maintain the accuracy and good condition.  <b>Note4:</b> The result reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long term stability of the instrument.  <b>Note5:</b> The result shown in this calibration certificate relate only to the item calibrated, and the result only applies to the calibration item as received.</p> <p>Approved By: </p> <p>Sherry Cheung</p> <p>Company Chop: </p> <p>Certificate Issue Date: 6 October 2022</p> <p>CC-0652210</p> <p>*** End of Certificate ***</p> <p>1. The certificate shall not be reproduced except in full, without written approval of Cal Lab Calibration            2. The certificate is issued subject to the latest Terms and Conditions, available at our web site</p> <p>CC0652210            Page 1 of 1</p>	Equipment Description	Manufacturer	Model No.	Serial No.	Assigned equipment No.	Portable Turbidimeter	Hach	2100Q	13070C026697	N/A	Date of Receipt:	3 October 2022	Calibration Condition:	18-25°C, <75%RH	Date of Calibration:	3 October 2022	Adjustment:	N/A	Due Date of Calibration:	3 January 2023	Appearance:	Good	Calibration Procedure:	APHA 21e 2130B	Remark:	N/A	Reference reading (NTU)	Display Reading (NTU)	Error of indication (%)	Blank	0.00	0.0	10	9.92	-0.8	20	19.7	-1.5	100	104	4.0	800	803	0.4
Equipment Description	Manufacturer	Model No.	Serial No.	Assigned equipment No.																																									
Portable Turbidimeter	Hach	2100Q	13070C026697	N/A																																									
Date of Receipt:	3 October 2022	Calibration Condition:	18-25°C, <75%RH																																										
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Reference reading (NTU)	Display Reading (NTU)	Error of indication (%)																																											
Blank	0.00	0.0																																											
10	9.92	-0.8																																											
20	19.7	-1.5																																											
100	104	4.0																																											
800	803	0.4																																											



## TEST REPORT

Report No. : AB0049128(2)

Date: 16 Nov 2022

Application No. : LB028478(7)

<b><u>TEST REPORT</u></b>		
Report No.	: AB0058032(7)	Date : 16 Nov 2022
Application No.	: LA031475(9)	
Applicant	CMA INDUSTRIAL DEVELOPMENT FOUNDATION LIMITED ROOM 1302, YAN HING CENTRE, 9-13 WONG CHUK YEUNG STREET, FO TAN, SHATIN, N.T., HONG KONG.	
Instrument	HACH Portable Colorimeter (DR300)	
Serial No.	19030A000277	
Date Received	09 Sep 2022.	
Test Period	09 Sep 2022 to 13 Sep 2022.	
Date of next checking	08 Dec 2022	
Test Method	APHA 23e 4500Cl-G	
Test Result	Refer to the results on page 2.	

*For and on behalf of*  
CMA Industrial Development Foundation Limited

Authorized Signature : \_\_\_\_\_

Lee Hoi Yung, Benson  
Deputy Manager

CMA Industrial Development Foundation Limited  
Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St., Fo Tan, Shatin, N.T., Hong Kong.  
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: [info@cmatesting.org](mailto:info@cmatesting.org) Web Site: <http://www.cmatesting.org>

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## TEST REPORT

Report No. : AB0049128(2)

Date: 16 Nov 2022

Application No. : LB028478(7)

**CMA**  
TESTING

**TEST REPORT**

Report No. :	AB0058032(7)	Date : 16 Nov 2022
Application No. :	LA031475(9)	
Test Result :		

Test Item	Reference reading (mg/L)	Display Reading (mg/L)	Error of indication (%)
Chlorine	1.00	1.02	2

\*\*\*\*\* End of Report \*\*\*\*\*

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CMA Industrial Development Foundation Limited  
Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St., Fo Tan, Shatin, N.T., Hong Kong.  
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: [info@cmatesting.org](mailto:info@cmatesting.org) Web Site: <http://www.cmatesting.org>

\*\*\*\*\* End of Report \*\*\*\*\*

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