



**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 Jul 2021

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 : LA019477(6)

Report Number : AA0044707(0)

Report Issued Date : 01 Sep 2021

Remark : This report supersedes the report no. AA0035111(0) issued on 10 Aug 2021.

For and on behalf of
CMA Industrial Development Foundation Limited

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.cmateesting.org/qac/statement-of-conformity.pdf
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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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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 Analyzing 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	15 Jul 2021	E.coli, Total Residual Chlorine (TRC), Chlorination by-products (CBPs) and Contaminants of Concern (COCs)

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

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) (thereafter 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 detection limit are listed in Table 2.3

Table 2.3 Analytical Methods for Laboratory Analysis for Marine Water Samples

Parameters		Analytical Method	Limit of Reporting (µg/L)
TRC and Potential CBPs			
Total Residual Chlorine		APHA 23ed 4500 Cl G	10
Bromoform	Tri-halomethanes (THMs)	USEPA 8260B	0.1
Bromodichloromethane			0.1
Chloroform			0.1
Dibromochloromethane			5
Bromoacetic acid	Haloacetic Acids (HAAs)	In house method TG-ENV-WW-79 (by GC-ECD)	2
Chloroacetic acid			2
Dibromoacetic acid			2
Dichloroacetic acid			2
Trichloroacetic acid			2
Bacteria			
E.coli		Environmental Monitoring Laboratory Test Method Manual TM09/EC/10/098 Issue 3, Environmental Protection Department, HK.	1 cfu/100ml
Contaminants of Concern (COCs)			
Methylene chloride	Halogenated Aliphatics	ISO 17943:2016 & USEPA 8206B	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
2-chlorophenol	Phenols & Haloethers	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

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Pentachlorophenol			0.5
2,4,6-trichlorophenol			0.5
Bis(2-chloroethoxy) methane			0.5
Chlorobenzene	Chlorinated Hydrocarbons & Organochlorine Pesticides	In house method TG-ENV-WW-78 (by Headspace GC/MSD) &	0.5
1,4-dichlorobenzene			0.5
Hexachlorobenzene			0.01
Hexachlorocyclopentadiene			2.5
Hexachloroethane			0.5
1,2,4-trichlorobenzene		In house method	
Alpha-BHC		TG-ENV-WW-86	
Beta-BHC		(by GC-MSD)	
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

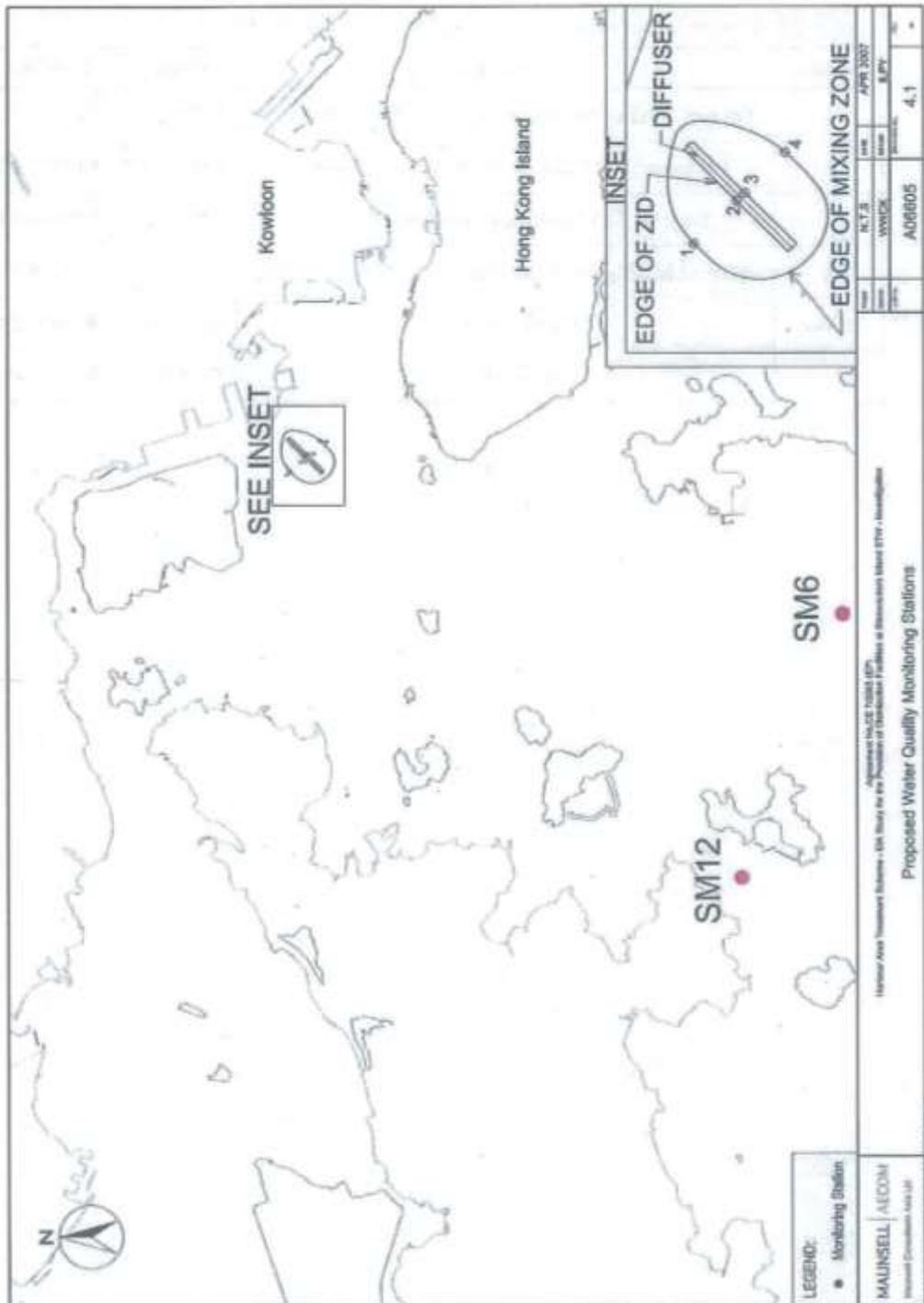
- 3.2. The in-situ measurement results include dissolved oxygen, turbidity, salinity, pH and temperature of the marine water monitoring. Also, the results of marine water quality monitoring conducted on the monitoring date and QC report are shown in **Appendix II**.



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

Appendix I - Location of Monitoring Stations

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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

Appendix II - Report for Laboratory Test(s)

TEST REPORT

Report No. : AA0044844(2) Date: 01 Sep 2021
 Application No. : LA019477(6)
 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.

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
 Senior Manager

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TEST REPORT

Report No. : AA0044844(2) Date: 01 Sep 2021

Application No. : LA019477(6)

Sampling Date : 15 Jul 2021.

Date Received : 15 Jul 2021.

Test Period : 15 Jul 2021 to 09 Aug 2021.

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. Chloroacetic 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. : AA0044844(2)

Date: 01 Sep 2021

Application No. : LA019477(6)

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 12.

Remark : This report supersedes the report AA0035112(1) issued on 10 Aug 2021.

TEST REPORT

Report No. : AA0044844(2)

Date: 01 Sep 2021

Application No. : LA019477(6)

Marine Water Quality

Sampling Date 15-Jul-2021

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	16:51-16:55	9.8	1.0	20	29.4	29.4	25.5	25.5	8.6	8.6	8.3	8.3	125.3	125.3	3.1	3.1	0.04	0.04
			5.0	16	28.6	28.6	26.2	26.2	8.6	8.6	8.3	8.3	123.5	123.5	3.0	3.0	0.02	0.02
			8.8	22	28.0	28.0	26.8	26.8	8.5	8.5	7.4	7.4	109.0	109.0	3.7	3.7	0.03	0.03
2	16:58-17:02	10.8	1.0	20	28.8	28.8	26.1	26.1	8.6	8.6	7.0	7.0	104.8	104.8	2.8	2.8	0.02	0.02
			5.4	14	27.9	27.9	27.0	27.0	8.5	8.5	6.5	6.5	96.0	96.0	2.9	2.9	0.03	0.03
			9.8	8	27.5	27.5	27.6	27.6	8.4	8.4	5.0	5.0	73.6	73.6	3.3	3.3	0.02	0.02
3	17:04-17:08	10.5	1.0	26	28.6	28.6	26.3	26.3	8.6	8.6	6.3	6.3	93.8	93.8	2.5	2.5	0.04	0.04
			5.3	10	27.7	27.7	27.5	27.5	8.5	8.5	5.8	5.8	85.4	85.4	2.0	2.0	0.04	0.04
			9.5	10	27.3	27.3	28.0	28.0	8.9	8.9	4.7	4.7	69.7	69.7	5.2	5.2	0.03	0.03
4	17:12-17:16	10.1	1.0	16	28.5	28.5	26.4	26.4	9.0	9.0	5.3	5.3	79.6	79.6	2.2	2.2	0.03	0.03
			5.1	8	27.9	27.9	26.9	26.9	9.0	9.0	5.9	5.9	87.4	87.4	2.8	2.8	0.03	0.03
			9.1	16	27.8	27.8	27.1	27.1	8.9	8.9	5.2	5.2	77.1	77.1	2.8	2.8	0.02	0.02
SM6	15:41-15:45	15.4	1.0	4	28.2	28.2	28.6	28.6	8.7	8.7	5.9	5.9	88.6	88.6	1.7	1.7	0.01	0.01
			7.7	6	28.1	28.1	29.0	29.0	8.7	8.7	5.8	5.8	87.3	87.3	3.3	3.3	0.03	0.03
			14.4	12	28.0	28.0	29.3	29.3	8.6	8.6	5.7	5.7	85.6	85.6	3.3	3.3	0.03	0.03
SM12	15:03-15:08	8.9	1.0	4	28.2	28.2	28.4	28.4	8.7	8.7	5.9	5.9	87.2	87.2	1.6	1.6	0.04	0.04
			4.5	5	28.2	28.2	28.9	28.9	8.6	8.6	5.7	5.7	85.9	85.9	3.2	3.2	0.02	0.02
			7.9	7	28.0	28.0	29.2	29.2	8.6	8.6	5.6	5.6	84.7	84.7	3.2	3.2	0.02	0.02
			LRV	1	0.1		1		0.1		0.5 mg/L		-		1		0.01 mg/L	

TEST REPORT

Report No. : AA0044844(2)

Date: 01 Sep 2021

Application No. : LA019477(6)

Marine Water Quality

Sampling Date 15-Jul-2021

Monitoring Location	Time	Water Depth (m)	Sampling Depth (m)	Bromoform (µg/L)		Bromodichloromethane (µg/L)		Chloroform (µg/L)		Dibromochloromethane (µg/L)		Bromacetic acid (µg/L)		
1	16:51-16:55	9.8	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5	<5	<2	<2	
			5.0	<0.1	<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	<0.1	<0.1	<5	<5	<2
2	16:58-17:02	10.8	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5	<5	<2	<2	
			5.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5	<5	<2	<2
			9.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5	<5	<2
3	17:04-17:08	10.5	1.0	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<5	<5	<2	<2	
			5.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5	<5	<2	<2
			9.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5	<5	<2	<2
4	17:12-17:16	10.1	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5	<5	<2	<2	
			5.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5	<5	<2	<2
			9.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5	<5	<2	<2
SM6	15:41-15:45	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	<0.1	<5	<5	<2	<2
			14.4	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5	<5	<2	<2
SM12	15:03-15:08	8.9	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5	<5	<2	<2	
			4.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5	<5	<2	<2
			7.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5	<5	<2	<2
			LRV	0.1		0.1		0.1		5		2		



TEST REPORT

Report No. : AA0044844(2)

Date: 01 Sep 2021

Application No. : LA019477(6)

Marine Water Quality

Sampling Date 15-Jul-2021

Monitoring Location	Time	Water Depth (m)	Sampling Depth (m)	Chloroacetic acid (µg/L)		Dibromoacetic acid (µg/L)		Dichloroacetic acid (µg/L)		Trichloroacetic acid (µg/L)	
1	16:51-16:55	9.8	1.0	<2	<2	<2	<2	<2	<2	<2	<2
			5.0	<2	<2	<2	<2	<2	<2	<2	<2
			8.8	<2	<2	<2	<2	<2	<2	<2	<2
2	16:58-17:02	10.8	1.0	<2	<2	<2	<2	<2	<2	<2	<2
			5.4	<2	<2	<2	<2	<2	<2	<2	<2
			9.8	<2	<2	<2	<2	<2	<2	<2	<2
3	17:04-17:08	10.5	1.0	<2	<2	<2	<2	<2	<2	<2	<2
			5.3	<2	<2	<2	<2	<2	<2	<2	<2
			9.5	<2	<2	<2	<2	<2	<2	<2	<2
4	17:12-17:16	10.1	1.0	<2	<2	<2	<2	<2	<2	<2	<2
			5.1	<2	<2	<2	<2	<2	<2	<2	<2
			9.1	<2	<2	<2	<2	<2	<2	<2	<2
SM6	15:41-15:45	15.4	1.0	<2	<2	<2	<2	<2	<2	<2	<2
			7.7	<2	<2	<2	<2	<2	<2	<2	<2
			14.4	<2	<2	<2	<2	<2	<2	<2	<2
SM12	15:03-15:08	8.9	1.0	<2	<2	<2	<2	<2	<2	<2	<2
			4.5	<2	<2	<2	<2	<2	<2	<2	<2
			7.9	<2	<2	<2	<2	<2	<2	<2	<2
			LRV	2	2	2	2	2	2	2	



TEST REPORT

Report No. : AA0044844(2)

Date: 01 Sep 2021

Application No. : LA019477(6)

Marine Water Quality

Sampling Date 15-Jul-2021

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	16:51-16:55	9.8	1.0	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			5.0	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
			8.8	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2	16:58-17:02	10.8	1.0	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			5.4	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			9.8	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3	17:04-17:08	10.5	1.0	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			5.3	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			9.5	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4	17:12-17:16	10.1	1.0	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			5.1	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			9.1	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
SM6	15:41-15:45	15.4	1.0	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			7.7	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			14.4	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
SM12	15:03-15:08	8.9	1.0	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			4.5	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			7.9	<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			LRV	20		0.5		0.5		0.5		0.5		0.5		

TEST REPORT

Report No. : AA0044844(2)

Date: 01 Sep 2021

Application No. : LA019477(6)

Marine Water Quality

Sampling Date 15-Jul-2021

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	16:51-16:55	9.8	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2	16:58-17:02	10.8	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			5.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			9.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3	17:04-17:08	10.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			5.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			9.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4	17:12-17:16	10.1	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			5.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			9.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
SM6	15:41-15:45	15.4	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
SM12	15:03-15:08	8.9	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			4.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			7.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			LRV	0.5		0.5		0.5		0.5		0.5		0.5		



TEST REPORT

Report No. : AA0044844(2)

Date: 01 Sep 2021

Application No. : LA019477(6)

Marine Water Quality

Sampling Date 15-Jul-2021

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	16:51-16:55	9.8	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2	16:58-17:02	10.8	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			5.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			9.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3	17:04-17:08	10.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			5.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			9.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4	17:12-17:16	10.1	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			5.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			9.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
SM6	15:41-15:45	15.4	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
SM12	15:03-15:08	8.9	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			4.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			7.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
			LRV	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		



TEST REPORT

Report No. : AA0044844(2)

Date: 01 Sep 2021

Application No. : LA019477(6)

Marine Water Quality

Sampling Date 15-Jul-2021

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	16:51-16:55	9.8	1.0	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
			5.0	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
			8.8	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2	16:58-17:02	10.8	1.0	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
			5.4	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
			9.8	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3	17:04-17:08	10.5	1.0	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
			5.3	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
			9.5	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
4	17:12-17:16	10.1	1.0	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
			5.1	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
			9.1	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
SM6	15:41-15:45	15.4	1.0	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
			7.7	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
			14.4	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
SM12	15:03-15:08	8.9	1.0	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
			4.5	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
			7.9	<0.01	<0.01	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
			LRV	0.01		2.5		0.5		0.5		0.01		0.01		0.01		



TEST REPORT

Report No. : AA0044844(2)

Date: 01 Sep 2021

Application No. : LA019477(6)

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	112	85-115	97	85-115	<1	≤20
Parameter	Method Blank	Acceptance Criteria	QC Recoery	Acceptance Criteria	Spike Recovery	Acceptance Criteria	Duplicate (RPD)	Acceptance Criteria
	(µg/L)	(µg/L)	(%)	(%)	(%)	(%)	(%)	(%)
Bromoform	<0.02	<0.02	105	80-120	109	70-130	8	≤20
Bromodichloromethane	<0.02	<0.02	105	80-120	87	70-130	11	≤20
Chloroform	<0.02	<0.02	92	80-120	82	70-130	4	≤20
Dibromochloromethane	<1	<1	113	80-120	113	70-130	17	≤20
Bromoacetic acid	<0.4	<0.4	86	80-120	86	70-130	9	≤20
Chloroacetic acid	<0.4	<0.4	92	80-120	97	70-130	7	≤20
Dibromoacetic acid	<0.4	<0.4	103	80-120	78	70-130	15	≤20
Dichloroacetic acid	<0.4	<0.4	87	80-120	92	70-130	13	≤20
Trichloroacetic acid	<0.4	<0.4	91	80-120	83	70-130	15	≤20



TEST REPORT

Report No. : AA0044844(2)

Date: 01 Sep 2021

Application No. : LA019477(6)

QC Report

Parameter	Method Blank (mg/L)	Acceptance Criteria (mg/L)	QC Recovery (%)	Acceptance Criteria (%)	Spike Recovery (%)	Acceptance Criteria (%)	Duplicate (RPD) (%)	Acceptance Criteria (%)
Methylene chloride	<4	<4	102	80-120	104	70-130	7	≤20
Carbon tetrachloride	<0.1	<0.1	106	80-120	98	70-130	9	≤20
1,1-dichloroethane	<0.1	<0.1	113	80-120	108	70-130	8	≤20
1,2-dichloroethane	<0.1	<0.1	87	80-120	106	70-130	5	≤20
1,1-dichloroethylene	<0.1	<0.1	95	80-120	84	70-130	12	≤20
1,2-dichloropropane	<0.1	<0.1	95	80-120	92	70-130	9	≤20
Tetrachloroethylene	<0.1	<0.1	103	80-120	88	70-130	14	≤20
1,1,1-trichloroethane	<0.1	<0.1	89	80-120	81	70-130	14	≤20
1,1,2-trichloroethane	<0.1	<0.1	96	80-120	113	70-130	10	≤20
Trichloroethylene	<0.1	<0.1	103	80-120	98	70-130	5	≤20
2-chlorophenol	<0.1	<0.1	88	80-120	95	70-130	11	≤20
2,4-dichlorophenol	<0.1	<0.1	106	80-120	96	70-130	7	≤20
p-chloro-m-cresol	<0.1	<0.1	115	80-120	92	70-130	9	≤20
Pentachlorophenol	<0.1	<0.1	112	80-120	104	70-130	13	≤20
2,4,6-trichlorophenol	<0.1	<0.1	104	80-120	98	70-130	14	≤20
Bis(2-chloroethoxy) methane	<0.1	<0.1	97	80-120	110	70-130	14	≤20
Chlorobenzene	<0.1	<0.1	93	80-120	116	70-130	5	≤20
1,4-dichlorobenzene	<0.1	<0.1	102	80-120	107	70-130	7	≤20
Hexachlorobenzene	<0.005	<0.005	85	80-120	86	70-130	9	≤20
Hexachlorocyclopentadiene	<0.5	<0.5	94	80-120	107	70-130	11	≤20
Hexachloroethane	<0.1	<0.1	116	80-120	95	70-130	6	≤20
1,2,4-trichlorobenzene	<0.1	<0.1	108	80-120	84	70-130	8	≤20
Alpha-BHC	<0.005	<0.005	112	80-120	117	70-130	7	≤20
Beta-BHC	<0.005	<0.005	97	80-120	112	70-130	9	≤20
Gamma-BHC	<0.005	<0.005	87	80-120	89	70-130	15	≤20

TEST REPORT

Report No. : AA0044844(2)

Date: 01 Sep 2021

Application No. : LA019477(6)

Calibration Certificate



Calibration Certificate

Certificate No.: CC0312106

1. Description

Calibration item :	a) pH at 25°C b) Temperature c) Dissolve Oxygen d) Conductivity at 25°C e) Salinity f) Oxidation-Reduction Potential (ORP)
Equipment description :	Multiparameter Instrument
Manufacturer :	YSI
Type / Model No. :	Professional Plus
Serial No. :	Meter: 111100821
Assigned equipment no. :	N/A
Adjustment :	N/A
Remark :	Received with good condition

2. Customer information

Customer :	CMA Testing and Certification Laboratories
Address :	Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fotan, Shatin, NT, Hong Kong
Date of receipt :	11 June 2021

3. Date of performance of the calibration

Date of calibration :	21 June 2021
Next Calibration date :	21 September 2021

Authorized Signatory
Warren Yeung 

Company Chop: 
Certificate issue date: 22 June 2021

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Cal Lab Limited
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 Tel: (852) 2698 8198 Fax: (852) 2611 2194 Email: info@calab.com.hk Website: calab.com.hk

TEST REPORT

Report No. : AA0044844(2)
 Application No. : LA019477(6)

Date: 01 Sep 2021



4. Result of Calibration

a) Temperature

Reference reading (°C)	Display Reading (°C)	Error of indication (°C)
15.15	14.8	-0.4
25.12	24.9	-0.2
35.08	35.1	0.0

b) Dissolved Oxygen

Reference reading (mg/L)	Display Reading (mg/L)	Error of indication
0.00	0.00	0.00
4.02	4.01	-0.01
8.06	8.08	0.02

c) Conductivity at 25°C

Reference reading (uS/cm)	Display Reading (uS/cm)	Error of indication (%)
147.4	141.5	-4.0
1431	1506	6.7
12846	13484	5.0
111310	114392	2.8

d) Salinity

Reference reading (ppt)	Display Reading (ppt)	Error of indication (%)
10	9.85	-1.5
20	20.06	0.3
30	30.13	0.4

Oxidation-Reduction Potential (ORP)

Reference reading (mV)	Display Reading (mV)	Error of indication (mV)
+230	+234	+4

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Page 2 of 3
00312106

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TEST REPORT

Report No. : AA0044844(2)
 Application No. : LA019477(6)

Date: 01 Sep 2021



e) pH at 25°C

Reference reading	Display Reading	Error of indication
4.00	3.99	-0.01
6.86	6.95	0.09
9.18	9.12	-0.06
10.01	10.03	0.02

5. Reference method for calibration

pH at 25°C	APHA 21e 4500-H B
Dissolved Oxygen	APHA 21e 4500-O G
Conductivity at 25°C	APHA 21e 2510 B
Temperature	JJG 130-2011
Salinity	APHA 21e 2520 B
Oxidation-Reduction Potential (ORP)	APHA 21e 2580 B

6. Environment condition of calibration

Temperature	18 – 25 °C
Relative humidity	< 75 %RH

*** End of Certificate ***

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Page 3 of 3
 0011/1306

Cal Lab Limited
 Address: Room 2101, Technology Plaza, 29-35 Sha Tin Road, Tuen Wan, NT, Hong Kong
 Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatesting.org Website: www.cmatesting.org

TEST REPORT

Report No. : AA0044844(2)
 Application No. : LA019477(6)

Date: 01 Sep 2021



Calibration Certificate

Certificate No.: CC0172107

1. Description

Calibration item :	a) Turbidity
Equipment description :	Portable Turbidimeter
Manufacturer :	Hach
Type / Model No. :	2100Q
Serial No. :	17070C059801
Assigned equipment no. :	N/A
Adjustment :	N/A
Remark :	Received with good condition

2. Customer information

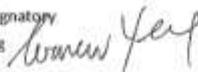
Customer :	CMA Testing and Certification Laboratories
Address :	Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung Street, Fotan, Shatin, NT, Hong Kong
Date of receipt :	5 July 2021

3. Date of performance of the calibration

Date of calibration :	7 July 2021
Date of next calibration :	7 October 2021



Authorized Signatory
Warren Yeung



Company Chop:
Certificate issue date: 9 July 2021

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cc0172107

Cal Lab Limited
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TEST REPORT

Report No. : AA0044844(2)
 Application No. : LA019477(6)

Date: 01 Sep 2021



4. Result of Calibration

a) Turbidity

Reference reading (NTU)	Display Reading (NTU)	Error of indication (%)
Blank	0.00	0.0
10	9.92	-0.8
20	19.9	-0.5
100	103	3.0
800	802	0.3

5. Reference method for calibration

Turbidity	APHA 21e 2130B
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6. Environment condition of calibration

Temperature	18 – 25 °C
Relative humidity	< 75 %RH

*** End of Certificate ***

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TEST REPORT

Report No. : AA0044844(2)
Application No. : LA019477(6)

Date: 01 Sep 2021



TEST REPORT

Report No. : AA0039515(1) Date: 04 Aug 2021
Application No. : LZ003543(4)
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 : 28 Jun 2021.
Test Period : 28 Jun 2021 to 30 Jun 2021.
Date of next checking : 27 Sep 2021
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 : _____


Tang Ter Wang
Manager

Page 1 of 2

The confidentiality statement stated in Conclusion above is based on the decision only agreed with applicant and listed in www.cmatesting.org/attachment/55/Confidentiality.pdf.
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CMA Industrial Development Foundation Limited
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