

Certificate No.	311868		Page	1 of 3	Pages
Customer :	Enovative Environmental Servi	ce Limited			
Address :	Room 23, 6/F, Block C, Goldfie	eld Industrial Centre	, 1 Siu Wo Road, S	Shatin, N.T.	
Order No. :	Q34412		Date of receipt		14-Dec-23
Item Tested					
Description :	Sound Level Meter				
Manufacturer :			I.D.	:	
Model :	NL-52		Serial No.	: 01143	484
Test Conditi	ons				
Date of Test :	9-Jan-24		Supply Voltage	e :	
Ambient Temp	berature : $(23 \pm 3)^{\circ}C$		Relative Humi	dity: (50 ± 2	25) %
Test Specifi					
Calibration chee	∩k				
	n indication that it conforms to I	EC 61672-1:2002 (Class 1		
	/Procedure: Z01, IEC 61672-1:2				
Test Result					
		for the second	ification or Toloro	200	
	within the IEC 61672 Class 1, i			ice.	
The results are	shown in the attached page(s).				
Main Test equi	nment used:				
Equipment No.		Cert. No.		Traceable	to
S240	Sound Level Calibrator	303941			& SCL-HKSAR
S017	Multi-Function Generator	C211339		SCL-HKS/	٩R
3017		0211000			
		•			
The values given i	n this Calibration Certificate only relate owance for the equipment long term dri	to the values measured	l at the time of the test nmental changes, vibra	and any uncerta tion and shock	ainties quoted during transportation,
overloading, mis-h	handling, or the capability of any other la	aboratory to repeat the r	neasurement. Hong Ko	ong Calibration	Ltd. shall not be liable
for any loss or dar	nage resulting from the use of the equi	pment.			
The test equipment	nt used for calibration are traceable to I	nternational System of I	Jnits (SI), or by referen	ce to a natural	constant.
The test results ap	oply to the above Unit-Under-Test only			19	
	1 200				
Calibrated by	. 'Y	A	pproved by :	AM	
Cambrated by	Elva Chong			Kin Wong	
This Certificate is issue	d by:	D	ate: 9-Jan-24		
Hong Kong Calibration Unit 8B, 24/F, Well Fur	Ltd. ng Industrial Centre, No. 58-76, Ta Chuen Ping Stre	et,Kwai Chung, NT,Hong Kong.			
Tel: 2425 8801 Fax: 24					



Certificate No. 311868

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Results :

Acoustical signal test

1. Indication at the Calibration Check Frequency (1kHz)

UUT	Setting	Applied Value (dB)	UUT Reading (dB)
Weight.	Response		After Adjust.*
А	F	94.0	94.0
	S		94.0
С	F		94.0
Z			94.0

*Adjustment using the customer's sound calibrator was performed immediately before test.

Tolerance : $\pm 1.0 \text{ dB}$ Uncertainty : $\pm 0.1 \text{ dB}$

2. Self-generated noise (Microphone Installed, most sensitive range): 16.5 dBA (Mfr's Spec. ≤ 17 dBA)

Electrical signal tests

3. Frequency weightings (A,F)

Freq	uency	Attenuation (dB)	IEC 61672-1 Class 1 Spec.
31.5	Hz	-39.7	- 39.4 dB, ± 1.5 dB
63	Hz	-26.2	- 26.2 dB, ± 1.0 dB
125	Hz	-16.1	- 16.1 dB, ± 1.0 dB
250	Hz	-8.6	- 8.6 dB, ± 1.0 dB
500	Hz	-3.2	- 3.2 dB, ± 1.0 dB
1	kHz	0.0 (Ref)	$0 \text{ dB}, \pm 0.7 \text{ dB}$
2	kHz	+1.0	$+$ 1.2 dB, \pm 1.0 dB
4	kHz	+0.7	$+$ 1.0 dB, \pm 1.0 dB
8	kHz	-1.2	- 1.1 dB, + 1.5 dB ~ -2.5 dB
16	kHz	-8.6	- 6.6 dB, + 2.5 dB ~ - 16.0 dB

Uncertainty : $\pm 0.1 \text{ dB}$



Certificate No. 311868

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4. Frequency & Time weightings

4.1 Frequency Weighting (1kHz)

UUT S	Setting			
Time Weight.	Freq. Weight.	Anticipated Value	UUT	IEC 61672-1
		(dB).	Reading (dB)	Class 1 Spec.
F	А	94.0	94.0 (Ref.)	
	С		94.0	± 0.2 dB
	Z		94.0	

Uncertainty : $\pm 0.1 \text{ dB}$

4.2 Time Weighting (1kHz)

UUT S	Setting			
Time Weight.	Freq. Weight.	Anticipated Value	UUT	IEC 61672-1
		(dB)	Reading (dB)	Class 1 Spec.
F	А	94.0	94.0 (Ref.)	
S			94.0	± 0.1 dB
eq			94.0	

Uncertainty : $\pm 0.1 \text{ dB}$

5. Level Linearity on the Reference Level Range (8 kHz, A, F)

Anticipated Value (dB)	UUT Reading (dB)	IEC 61672-1 Class 1 Spec.
124.0	123.9	± 0.8 dB
114.0	113.9	
104.0	104.0	
94.0	94.0 (Ref.)	
84.0	84.0	
74.0	74.0	
64.0	. 64.0	
54.0	54.0	
44.0	44.1	

Uncertainty : $\pm 0.1 \text{ dB}$

6. Level Linearity including the level range control (1 kHz, A, F) N.A. (UUT is single range)

Remarks : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure: 1 008 hPa.
- 4. Microphone model: UC-59, S/N: 07032.
- 5. Preamplifier model: NH-25, S/N: 43399.



Certificate No.	311870		Page	1 of 2 Pa	ages
Customer :	Enovative Environmental Service	e Limited			
Address :	Room 23, 6/F, Block C, Goldfield	Industrial Centre,	1 Siu Wo Road, S	shatin, N.T.	
Order No. :			Date of receipt		4-Dec-23
Item Tested	•				
Description :	Sound Calibrator				
Manufacturer :	RION		I.D.	:	
Model :	NC-74		Serial No.	: 34678506	
Test Conditi	ions				
Date of Test :	9-Jan-24		Supply Voltage		
Ambient Temp	erature : $(23 \pm 3)^{\circ}C$		Relative Humic	lity: (50 ± 25)	%
Test Specifi	cations				
Calibration chee	ck.				
The UUT has a	n indication that it conforms to IE	C 60942:2003 Clas	s 1.		
Ref. Document	/Procedure : F21, Z02, IEC 60942	2:2003.			
Test Result	S				
All results were	within the IEC 60942 Class 1 spe	ecification.			
	shown in the attached page(s).				
Main Test equi	pment used:				
Equipment No.	Description	Cert. No.		Traceable to	
S014	Spectrum Analyzer	303639		NIM-PRC & SO	
S240	Sound Level Calibrator	303941		NIM-PRC & S	CL-HKSAR
S041	Universal Counter	300591		SCL-HKSAR	
S206	Sound Level Meter	303634		SCL-HKSAR	
will not include allo overloading, mis-h	n this Calibration Certificate only relate to owance for the equipment long term drift, nandling, or the capability of any other lab nage resulting from the use of the equipm	variations with environm oratory to repeat the me	hental changes, vibrat	ion and shock durir	ig transportation,
The test equipmen The test results ap	nt used for calibration are traceable to Inte oply to the above Unit-Under-Test only	ernational System of Un	its (SI), or by reference	e to a natural const	ant.
	A	_	a second large	CAN	
Calibrated by	Elva Chong	Ар	proved by :	Kin Wong	
This Carlificate is inc.	0	Dat	e: 9-Jan-24	Tan Trong	
This Certificate is issued Hong Kong Calibration	Ltd.				
Unit 8B, 24/F., Well Fur Tel: 2425 8801 Fax 24	ng Industrial Centre, No. 58-76, Ta Chuen Ping Street,H 425 8646	kwai Chung, NT,Hong Kong.			
	titista is surred by Users Kapa Calibratics Ltd., It may	, not be reproduced except in fu	11		E



Certificate No. 311870

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Results :

1. Generated Sound Pressure Level

UUT Nominal Value (dB)	Measured Value (dB)	IEC 60942 Class 1 Spec.
94.0	93.9	± 0.4 dB

Uncertainty : $\pm 0.2 \text{ dB}$

 Short-term Level Fluctuation : 0.0 dB IEC 60942 Class 1 Spec. : ± 0.1 dB Uncertainty : ± 0.05 dB

3. Frequency

UUT Nominal Value (kHz)	Measured Value (kHz)	IEC 60942 Class 1 Spec.
1	1.001	± 1 %

Uncertainty : \pm 3.6 x 10 ⁻⁶

4. Total Distortion + Noise : < 1.2 % IEC 60942 Class 1 Spec. : < 3.0 % Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 008 hPa.

----- END -----

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler 5-Point Calibration Record

Location Calibrated by Date	:	AMS5(Ma Wan Chung Village) P.F.Yeung 18/12/2023
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N3640

Calibration Orifice and Standard Calibration Relationship						
Serial Number	:	2454				
Next Calibration Date	:	15 December 2024				
Slope (m)	:	2.07544				
Intercept (b)	:	-0.03205				
Correlation Coefficient(r)	:	0.99999				
Standard Condition						
Pstd (hpa)	:	1013				
Tstd (K)	:	298.18				
Calibration Condition						
Pa (hpa)	:	1025				
Ta(K)	:	291				

R	Resistance	dH [green liquid]	Z	X=Qstd	IC	Y
	Plate	(inch water)		(cubic		
				meter/min)		
1	18 holes	11.4	3.437	1.672	58	59.05
2	13 holes	9.0	3.054	1.487	52	52.94
3	10 holes	6.5	2.596	1.266	45	45.81
4	7 holes	4.5	2.160	1.056	38	38.69
5	5 holes	2.8	1.704	0.836	30	30.54

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b, Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship

Slope(m):<u>33.920</u> Intercept(b):<u>2.552</u>

Correlation Coefficient(r): 0.9996

Checked by: <u>Magnum Fan</u>

Date: 19/12/2023

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler 5-Point Calibration Record

Location	:	AMS5(Ma Wan Chung Village)
Calibrated by	:	P.F.Yeung
Date	:	15/03/2024
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N3640

Calibration Orifice and Stan	dard Calib	ration Relationship
Serial Number	:	2454
Next Calibration Date	:	15 December 2024
Slope (m)	:	2.07544
Intercept (b)	:	-0.03205
Correlation Coefficient(r)	:	0.99999
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1015
Ta(K)	:	297

F	Resistance	dH [green liquid]	Z	X=Qstd	IC	Y
	Plate	(inch water)		(cubic		
				meter/min)		
1	18 holes	11.6	3.422	1.664	54	54.26
2	13 holes	9.2	3.048	1.484	48	48.23
3	10 holes	6.8	2.620	1.278	42	42.20
4	7 holes	4.5	2.131	1.042	35	35.17
5	5 holes	3.0	1.740	0.854	25	25.12

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b, Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

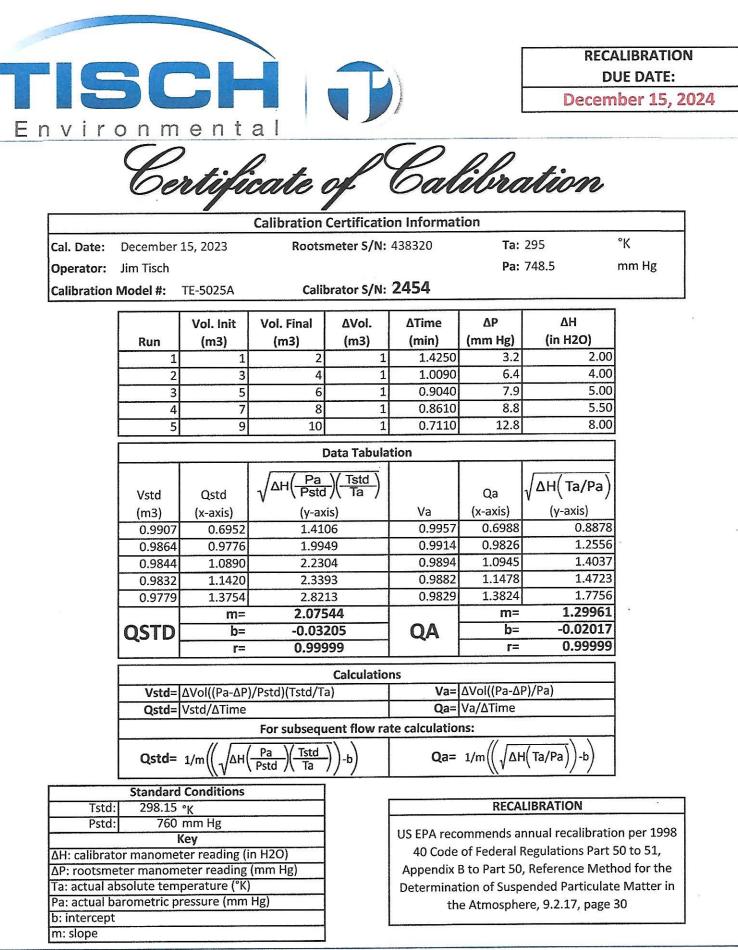
Sampler Calibration Relationship

Slope(m):<u>35.548</u> Intercept(b):<u>-2.690</u>

Correlation Coefficient(r): 0.9930

Checked by: <u>Magnum Fan</u>

Date: 15/03/2023



Tisch Environmental, Inc.

145 South Miami Avenue

Village of Cleves, OH 45002

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

EQUIPMENT CALIBRATION RECORD

Туре :	Laser Dust Monitor
Manufacturer / Brand :	SIBATA
Model No.:	LD-5R
Equipment No.:	LD-5R-002
Serial No.:	861988
Sensitivity Adjustment Scale Setting :	621 CPM

Standard Equipment

Equipment :	MFC High Volume Air Sampler
Venue :	Tung Chung Pier
Model No.:	TE-5170 Total Suspended Particulate
Serial No.:	S/N3641
Previous Calibration Date:	24-Apr-2023

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration) : Sensitivity Adjustment Scale Setting (After Calibration) : 621 CPM 621 CPM

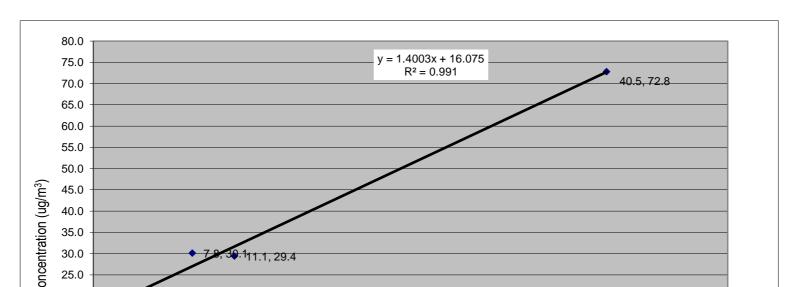
Date (dd-mmm-yy)	Time		Time	(•.9,)	Total Count	Count/Minute X-axis	
			Temp (°C)	R.H. (%)	Y-axis		
10-May-23	9:25	11:25	31.4	68%	72.8	2427	40.5
16-May-23	9:00	11:00	25.2	87%	29.4	668	11.1
16-May-23	14:30	15:30	25.2	87%	30.1	469	7.8
16-May-23	15:35	16:35	25.2	87%	18.7	151	2.5

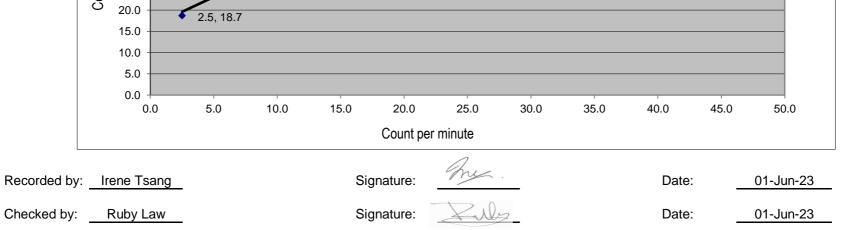
Be Linear Regression of Y or X

Slope (K-factor):1.4003Correlation coefficient (R):0.99550

Intercept,b: 16.0750

Remark: Srong Correlation (R>0.8)







ALS Technichem (HK) Pty Ltd 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong **T:** +852 2610 1044 **F:** +852 2610 2021 www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: CLIENT:	MR W S CHAN AECOM ASIA COMPANY LIMITED	WORK ORDER:	HK2348906
ADDRESS:	1501-10, 15/F, TOWER 1,	SUB-BATCH:	0
	GRAND CENTRAL PLAZA,	LABORATORY:	HONG KONG
	138 SHATIN RURAL COMMITTEE ROAD,	DATE RECEIVED:	05-Dec-2023
	SHATIN, NEW TERRITORIES, HONG KONG	DATE OF ISSUE:	11-Dec-2023

GENERAL COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

Equipment information (Bran	d name, Model No., Serial No. and Equipment No.) is provided by client.
Equipment Type:	Multifunctional Meter
Service Nature:	Performance Check
Scope:	Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature
Brand Name/ Model No.:	[YSI]/ [ProDSS]
Serial No./ Equipment No.:	[22J104777/22H104506]/ [W.026.37]
Date of Calibration:	05-December-2023

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

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WORK ORDER:	HK2348906		
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 11-Dec-2023 AECOM ASIA COMPANY LIMIT	ED	
Equipment Type: Brand Name/ Model No.:	Multifunctional Meter [YSI]/ [ProDSS]		
Serial No./ Equipment No.:	[22J104777/22H104506]/ [W.02	26.37]	
Date of Calibration:	05-December-2023	Date of Next Calibration:	05-March-2024

PARAMETERS:

Conductivity

Method Ref: APHA (23rd edition), 2510B

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	143.7	-2.2
6667	6421	-3.7
12890	12303	-4.6
58670	56431	-3.8
	Tolerance Limit (%)	±10.0

Dissolved Oxygen

Method Ref: APHA (23rd edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.99	2.06	+0.07
5.04	5.15	+0.11
7.23	7.35	+0.12
	Tolerance Limit (mg/L)	±0.20

pH Value

Method Ref: APHA (23rd edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)	
4.0	4.13	+0.13	
7.0	7.09	+0.09	
10.0	9.93	-0.07	
	Tolerance Limit (pH unit)	±0.20	

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics



W	ORK ORDER:	HK2348906		
D	IB-BATCH: ATE OF ISSUE: .IENT:	0 11-Dec-2023 AECOM ASIA COMPANY LIMIT	ED	
Br M	uipment Type: and Name/ odel No.:	Multifunctional Meter [YSI]/ [ProDSS]		
	ial No./ Jipment No.:	[22J104777/22H104506]/ [W.0	26.37]	
	ate of Calibration:	05-December-2023	Date of Next Calibration:	05-March-2024

PARAMETERS:

Turbidity

Method Ref: APHA (23rd edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	-0.01	
4	4.19	+4.8
10	9.80	-2.0
20	20.79	+4.0
50	49.82	-0.4
100	96.92	-3.1
	Tolerance Limit (%)	±10.0

Salinity

Method Ref: APHA (23rd edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)	
0	0.05		
10	9.65	-3.5	
20	19.47	-2.7	
30	28.03	-6.6	
	Tolerance Limit (%)	±10.0	

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics



WORK ORDER:	HK2348906		
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 11-Dec-2023 AECOM ASIA COMPANY LIMITE	D	
Equipment Type: Brand Name/ Model No.: Serial No./ Equipment No.:	Multifunctional Meter [YSI]/ [ProDSS] [22J104777/22H104506]/ [W.02	6.37]	
Date of Calibration:	05-December-2023	Date of Next Calibration:	05-March-2024

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Suide No. 5 Second cutton Mater 2000. Working memometer cansiation roccure.				
Expected Reading (°C)	Displayed Reading (°C) Tolerance (°C)			
10.0	9.6	-0.4		
21.0	21.3	+0.3		
38.0	38.2	+0.2		
	Tolerance Limit (°C)	±2.0		

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics



ALS Technichem (HK) Pty Ltd 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong **T:** +852 2610 1044 **F:** +852 2610 2021 www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MR WS CHAN
CLIENT:	AECOM ASIA COMPANY LIMITED
ADDRESS:	1501-10, 15/F, TOWER 1,
	GRAND CENTRAL PLAZA,
	138 SHATIN RURAL COMMITTEE ROAD,
	SHATIN, NEW TERRITORIES, HONG KONG

WORK ORDER:	HK2404291
AMENDMENT NO.:	1
SUB-BATCH:	0
LABORATORY:	HONG KONG
DATE RECEIVED:	30-Jan-2024
DATE OF ISSUE:	09-Feb-2024

GENERAL COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This is an amendment of the Certificate of Analysis.

The Date of Calibration and Date of Next Calibration have been amended.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.Equipment Type:Multifunctional MeterService Nature:Performance CheckScope:Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and TemperatureBrand Name/ Model No.:[YSI]/ [6820 V2]Serial No./ Equipment No.:[00H1019]/ [W.026.09]Date of Calibration:30-January-2024

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Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental

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WORK ORDER: AMENDMENT NO.: SUB-BATCH: DATE OF ISSUE: CLIENT:	HK2404291 1 0 09-Feb-2024 AECOM ASIA COMPANY LIMITI	ED	
Equipment Type: Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration:	Multifunctional Meter [YSI]/ [6820 V2] [00H1019]/ [W.026.09] 30-January-2024	Date of Next Calibration:	30-April-2024

PARAMETERS:

Conductivity Method Ref: APHA (23rd edition), 2510B

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	149	+1.4
6667	6907	+3.6
12890	13179	+2.2
58670	59950	+2.2
	Tolerance Limit (%)	±10.0

Dissolved Oxygen

Method Ref: APHA (23rd edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.79	2.84	+0.05
4.95	5.03	+0.08
7.52	7.57	+0.05
	Tolerance Limit (mg/L)	±0.20

pH Value

Method Ref: APHA (23rd edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)		
4.0	4.02	+0.02		
7.0	6.97	-0.03		
10.0	9.99	-0.01		
	Tolerance Limit (pH unit)	±0.20		

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Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental



WORK ORDER: AMENDMENT NO.: SUB-BATCH: DATE OF ISSUE: CLIENT:	HK2404291 1 0 09-Feb-2024 AECOM ASIA COMPANY LIMITE	D	
Equipment Type: Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration:	Multifunctional Meter [YSI]/ [6820 V2] [00H1019]/ [W.026.09] 30-January-2024	Date of Next Calibration:	30-April-2024

PARAMETERS:

Turbidity

Method Ref: APHA (23rd edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	-0.2	
4	3.9	-2.5
10	9.9	-1.0
20	19.6	-2.0
50	50.4	+0.8
100	94.6	-5.4
	Tolerance Limit (%)	±10.0

Salinity

Method Ref: APHA (23rd edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)	
0	0.01		
10	10.49	+4.9	
20	20.58	+2.9	
30	31.51	+5.0	
	Tolerance Limit (%)	±10.0	

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Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental



WORK ORDER: AMENDMENT NO.: SUB-BATCH: DATE OF ISSUE: CLIENT:	HK2404291 1 0 09-Feb-2024 AECOM ASIA COMPANY LIMIT	ED	
Equipment Type: Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration:	Multifunctional Meter [YSI]/ [6820 V2] [00H1019]/ [W.026.09] 30-January-2024	Date of Next Calibration:	30-April-2024

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)	
10.0	10.06	+0.1	
21.0	21.62	+0.6	
38.0	38.47	+0.5	
	Tolerance Limit (°C)	±2.0	

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Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental



ALS Technichem (HK) Pty Ltd 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong **T:** +852 2610 1044 **F:** +852 2610 2021 www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: CLIENT:	WS CHAN AECOM ASIA COMPANY LIMITED	WORK ORDER:	HK2408657
ADDRESS:	1501-10, 15/F, TOWER 1,	SUB-BATCH:	0
	GRAND CENTRAL PLAZA,	LABORATORY:	HONG KONG
	138 SHATIN RURAL COMMITTEE ROAD,	DATE RECEIVED:	05-Mar-2024
	SHATIN, NEW TERRITORIES, HONG KONG	DATE OF ISSUE:	11-Mar-2024

GENERAL COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

Equipment information (Bran	d name, Model No., Serial No. and Equipment No.) is provided by client.
Equipment Type:	Multifunctional Meter
Service Nature:	Performance Check
Scope:	Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature
Brand Name/ Model No.:	[YSI]/ [ProDSS]
Serial No./ Equipment No.:	[22J104777/22H104506]/ [W.026.37]
Date of Calibration:	05-March-2024

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Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics

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WORK ORDER:	HK2408657		
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 11-Mar-2024 AECOM ASIA COMPANY LIMIT	ED	
Equipment Type: Brand Name/ Model No.: Serial No./	Multifunctional Meter [YSI]/ [ProDSS]		
Equipment No.:	[22J104777/22H104506]/ [W.0]	-	
Date of Calibration:	05-March-2024	Date of Next Calibration:	05-June-2024

PARAMETERS:

Conductivity

Method Ref: APHA (23rd edition), 2510B

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	158.6	+8.0
6667	6616	-0.8
12890	12929	+0.3
58670	57137	-2.6
	Tolerance Limit (%)	±10.0

Dissolved Oxygen

Method Ref: APHA (23rd edition), 4500O: G

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Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	
2.12	2.22	+0.10	
4.25	4.34	+0.09	
6.33	6.46	+0.13	
	Tolerance Limit (mg/L)	±0.20	

pH Value

Method Ref: APHA (23rd edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)	
4.0	4.00	+0.00	
7.0	6.99	-0.01	
10.0	10.03	+0.03	
	Tolerance Limit (pH unit)	±0.20	

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Equipment Type: Brand Name/ Model No.:	Multifunctional Meter [YSI]/ [ProDSS]		
Serial No./ Equipment No.:	[22J104777/22H104506]/[W.02	26.37]	
Date of Calibration:	05-March-2024	Date of Next Calibration:	05-June-2024

PARAMETERS:

Turbidity

Method Ref: APHA (23rd edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	
4	3.94	-1.5
10	9.80	-2.0
20	19.07	-4.7
50	48.66	-2.7
100	101.75	+1.8
	Tolerance Limit (%)	±10.0

Salinity

Method Ref: APHA (23rd edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	
10	10.21	+2.1
20	19.87	-0.6
30	30.04	+0.1
	Tolerance Limit (%)	±10.0

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SUB-BATCH: DATE OF ISSUE: CLIENT:	E OF ISSUE: 11-Mar-2024		
Equipment Type: Brand Name/ Model No.:	Multifunctional Meter [YSI]/ [ProDSS]		
Serial No./ Equipment No.:	[22J104777/22H104506]/[W.02	26.37]	
Date of Calibration:	05-March-2024	Date of Next Calibration:	05-June-2024

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)		
10.0	9.8	-0.2		
20.5	20.0	-0.5		
38.0	37.6	-0.4		
	Tolerance Limit (°C)	±2.0		

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

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