

ANNEX E1 CALIBRATION CERTIFICATES FOR AIR QUALITY

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER HK2502558
CLIENT	ENVIROTECH SERVICES CO.	
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T. HK	SUB-BATCH: 1DATE RECEIVED: 15-JAN-2025DATE OF ISSUE: 21-JAN-2025
PROJECT	:	NO. OF SAMPLES : 1 CLIENT ORDER :

General Comments

- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.
- Calibration was subcontracted to Envirotech Services Company.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories	Position
Kidard Jenny .	
Richard Fung	Managing Director

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

All pages of this report have been checked and approved for release. ALS Technichem (HK) Pty Ltd

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com WORK ORDER: HK2502558SUB-BATCH: 1CLIENT: ENVIROTECH SERVICES CO.PROJECT: ----



ALS Lab	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
	Sibata LD-3B (456666)		02-Jan-2025	S/N: 456666

----- END OF REPORT ------



Envirotech Services Co.

Rm. 712, 7/F My Loft, 9 Hoi Wing Road, Tuen Mun, H.K. Tel : 2560 8450 Fax : 2560 6553 E-mail: envirotech@netvigator.c

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust Monitor	- 1963	
Manufacturer:	Sibata LD-3B		
Serial No.:	456666	energen en residers en	
Equipment Ref.:	N/A		
ALS Job Order:	HK2500343	Agentación (m. 10143)	

Standard Equipment

Standard Equipment:	High Volume Sampler (TSP)	
Location :	Envirotech Room (Calibration Room)	-
Equipment Ref.:	HVS 8162	(1775) (1775)
Last Calibration Date:	1-Jan-2025	~

Equipment Verification Results:

Verification Date:

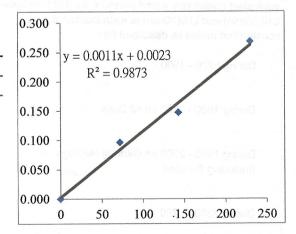
2-Jan-2025

0.0011(mg)/Count

Hour	Time	Mean Temp °C	Mean Pressure (hpa)	TSP Level in mg (Standard Equipment) (Y-Axis)	Total Count (Calibrated Equipment) (X-Axis)	
1hr 00mins	0900-1000	16.1	1023	0.096	pieeb to notate 76 volinem quile?	
2hr 00mins	1005-1205	20.5	1022	0.147	160	
3hr 00mins	1330-1630	21.0	1022	0.268	248	

Linear Regression of Y or X

Slope (K-factor): Correlation Coefficient (R): Date of Issue:



Remarks:

1. Strong Correlation (>0.8)

2. Factor 0.0011 mg/Count should be applied for TSP monitoring

0.9936

15-Jan-2025

*If R<0.5, repair or verification is required for the equipment

Operator:	P.F.Yeung	Signature	Fai	Date:	15 Jan 2025
QC Reviewer:	K.F.Ho	Signature	at	Date:	<u>15 Jan 2025</u>

TSP SAMPLER CALIBRATION CACULATION SPREADSHEET

Location HVS ID:	: Rm. 71: 8162 1 Model :		oft, Tuen M	fun el TE-5170		-	bration: tion Date:	1-Jan-25 31-Mar-25
	I WIUUCI .	115CH	n v S Mou	CONDIT.	IONS	Operator:	"namelanak kuna	K.F.Ho
		vel Pressu		102	-		essure (mm Hg)	767.3
	Temper	ature (°C)	15.8	3	Temperature	(K)	288.8
				CALIBRA	ATION (ORIFICE	- to xawlee besies	nna policius alex of ¹
			Make:	TISCH	5	Qstd Slope		2.08315
			Model: Serial#:	TE-5025A 2454		Qstd Intercep	t . (9.5. manu) (9. m <u>o0t.toatus0 (</u> 1.	-0.04938
			estate	CALIBRA	ATION	line areas	hinailtea fian an a	aniorite e Manuelle e P
Plate	H2O(L)	H20(R)	H2O	Qstd	I	IC	homore and he gam	LINEAR
No.	(in)	(in)	(in)	(m3/min)	(chart)	(corrected)	ungan yeu asewi piga Dicale annest Gotto o	REGRESSION
18	6.4	6.4	12.8	1.777	62	63.30	Slope=	35.208
13	5.3	5.3	10.6	1.619	56	57.17	Intercept=	
10	4.2	4.2	8.4	1.444	48	49.00	Corr. Coeff.= 0.9959	
7	2.7	2.7	5.4	1.163	41	41.86		
5	1.7	1.7	3.4	0.927	32	32.67		
Calulations				I	C	19631091% 2021 9 8f Setter and Au 2003 and Brailes	Flow Rate	<u>9 et un manimum (Cel).</u> 1000, 1006, 1006, 1006, 1006, 1006, 1006, 1006, 1006, 1006, 1006, 1006, 1006, 1006, 1006, 1006, 1006, 1006, 1006
			[std/Ta))-b]	7	0 [onse alger tot n	तिहास सरहस्यान रहाएत	DINUTITY OF DE REPAIDING
C = I[Sqrt((Pa/Pstd)(Ts	std/Ta)]		6	5 [of stand building	em evilinobi amaa	(2300 - 0700) at the
				6	0			1
-	dard flow r				F			menci Nio Conse
	ted chart re			5	5			
	hart respons			5	0 [bas conitional 4		
	ator Qstd slo tor Qstd int			4	5	- toq oolista gri	/	e generation da 197 Nil Jappi Indaultinos
			alibration (deg K) 4	o Ē	io conolicom to maluno conocico	/	alach if-day iolling p
			ration (mm		E as	/	itt erit is panolaon	TSP) including the
				5.	Ē		n 8-68y rolling perit	nomento dunig con
For subsequent calculation of sampler flow:)			Cadria 1900 - 2300
	t(298/Tav)(Pav/760)]	-b)	2:	5	bne anoleool -	uslangiaeb ik nota	Ref up monimum 2
/m((I)[Sqrt				20) [on vob-6 ribaen	tta <u>Actuse panolin</u> a	conduct once per th
		m = sampler slope					na no panahilara ba manahina Damana	o ta somi dbir bohao. Sent teat
n = sampl	1			14)			
n = sampl = sample	er intercept			1:	E to	garan da a duna	a partici over cons	construction activities
n = sampl = sample = chart re	er intercept	monteres		15) E		1.2 1.3 1.4 1	5 1.6 1.7 1.8 1.9

								LIBRATION JE DATE:
							Decen	nber 2, 202
vira	n n m	ent	al		£			
VI		7	ate .	of	Cal	ibra	ntion	
	a anapana kana kana kana kana kana kana ka		Calibration	Certificatio	on Informat	ion		
Cal. Date:	December	2 2024	washenced and since each state of the	meter S/N:			293	°K
	Jim Tisch	2,2024				Pa:	757.4	mm Hg
Operator: Calibration		TE-5025A	Calil	brator S/N:	2454			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4200	3.2	2.00	
	2	3	4	1	1.0170	6.4 7.9	4.00 5.00	
	3	5	6	1	0.9090	8.8	5.50	
	4	7	0 10	1	0.7140		8.00	
				Data Tabula	tion			
					tion	Contraction of the local division of the loc		
	Vstd	Qstd	√∆H(<u>Pa</u> Psto			Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	(y-a) 1.42		Va 0.9958	(x-axis) 0.7013	(y-axis) 0.8796	
	1.0093	0.7108	2.01	and the second se	0.9938		1.2439	
	1.0031	1.1035	2.25		0.9896		1.3907	
	1.0018	1.1515	2.36	511	0.9884		1.4586	
	0.9965	1.3956	2.84		0.9831	1.3769	1.7592 1.30443	
		m=	2.08		0.4			
	QSTD	b= r=	-0.04		QA	r=		
	L	1	ng ana ang ang ang ang ang ang ang ang a	Calculatio	ns			
	Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/T		Va=	∆Vol((Pa-∆	P)/Pa)	
		Vstd/∆Time				Va/∆Time		
			For subseq	uent flow ra	te calculatio	ins:		
	Qstd=	1/m ((√∆H	(<u>Pa</u>)(<u>Tstd</u> Pstd)(Ta	-))-b)	Qa=	1/m ((√∆	H(Та/Ра))-b)	
[Standard	d Conditions]
Tstd				1		REC/	LIBRATION	
Pstd	- I	mm Hg Kev		1			nnual recalibration	
AH: calibrat	or manome	ter reading (in H2O)		40 Code	of Federal	Regulations Part	50 to 51,
ΔP: rootsm	eter manon	neter reading	(mm Hg)), Reference Met	
		nperature (°K		-			pended Particulat	
Pa: actual b b: intercept		pressure (mm	ng)	-	tł tł	ne Atmosph	ere, 9.2.17, page	50
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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