ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER	: HK2618618
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T. HK	SUB-BATCH	: 1
		DATE RECEIVED	: 4-MAY-2026
		DATE OF ISSUE	: 13-MAY-2026
PROJECT	: Not Specified	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
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
Part of the ALS Laboratory Group

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WORK ORDER : HK2618618
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : Not Specified

ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2618618-001	Sibata LD-3B (276020)	Equipments	27-Apr-2026	S/N: 276020

-------- 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.com

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:	Laser Dust Monitor
Manufacturer:	Sibata LD-3B
Serial No.:	276020
Equipment Ref.:	N/A
ALS Job Order:	HK2617704

Standard Equipment

Standard Equipment:	High Volume Sampler (TSP)
Location :	Envirotech Room (Calibration Room)
Equipment Ref.:	HVS 8162
Last Calibration Date:	21-Apr-2026

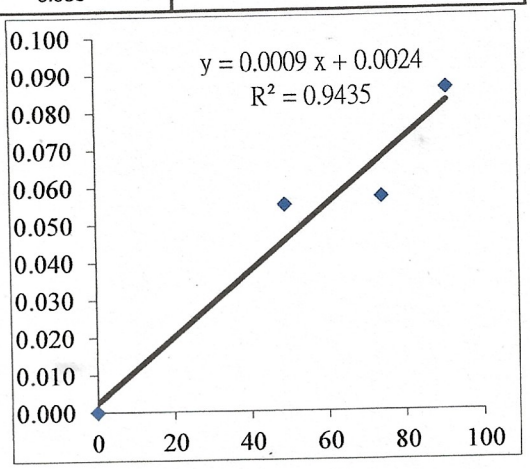
Equipment Verification Results:

Verification Date: 27-Apr-2026

Hour	Time	Mean Temp °C	Mean Pressure (hpa)	TSP Level in mg (Standard Equipment) (Y-Axis)	Total Count (Calibrated Equipment) (X-Axis)
1hr 00mins	0830-0930	23.8	1010.4	0.055	49
2hr 00mins	0935-1135	24.5	1010.1	0.057	74
3hr 00mins	1310-1610	26.8	1009.8	0.086	91

Linear Regression of Y or X

Slope (K-factor):	0.0009(mg)/Count
Correlation Coefficient (R):	0.9713
Date of Issue:	4-May-2026



Remarks:

1 . Strong Correlation (>0.8)

2. Factor 0.0009(mg)/Count should be applied for TSP monitoring

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

Operator: P.F.Yeung Signature Fai Date: 04 May 2026

QC Reviewer: K.F.Ho Signature [illegible] Date: 04 May 2026

TSP SAMPLER CALIBRATION CACULATION SPREADSHEET

Location :	Rm. 712, My Loft, Tuen Mun	Date of Calibration:	21-Apr-26
HVS ID:	8162	Next Calibration Date:	21-Jun-26
Name and Model :	TISCH HVS Model TE-5170	Operator:	K.F.Ho

CONDITIONS

Sea Level Pressure (hpa)	1014.5	Corrected Pressure (mm Hg)	760.9
Temperature (°C)	24.2	Temperature (K)	297.2

CALIBRATION ORIFICE

Make:	TISCH	Qstd Slope	2.07213
Model:	TE-5025A	Qstd Intercept	-0.03199
Serial#:	2454		

CALIBRATION

Plate No.	H2O(L) (in)	H20(R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	6.1	5.9	12.0	1.694	60	60.13	Slope= 34.834
13	4.9	4.8	9.7	1.525	54	54.12	Intercept= 0.9938
10	3.8	3.8	7.6	1.352	48	48.11	Corr. Coeff.= 0.9998
7	2.5	2.5	5.0	1.132	40	40.09	
5	1.5	1.5	3.0	0.857	31	31.07	

Calulations:

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

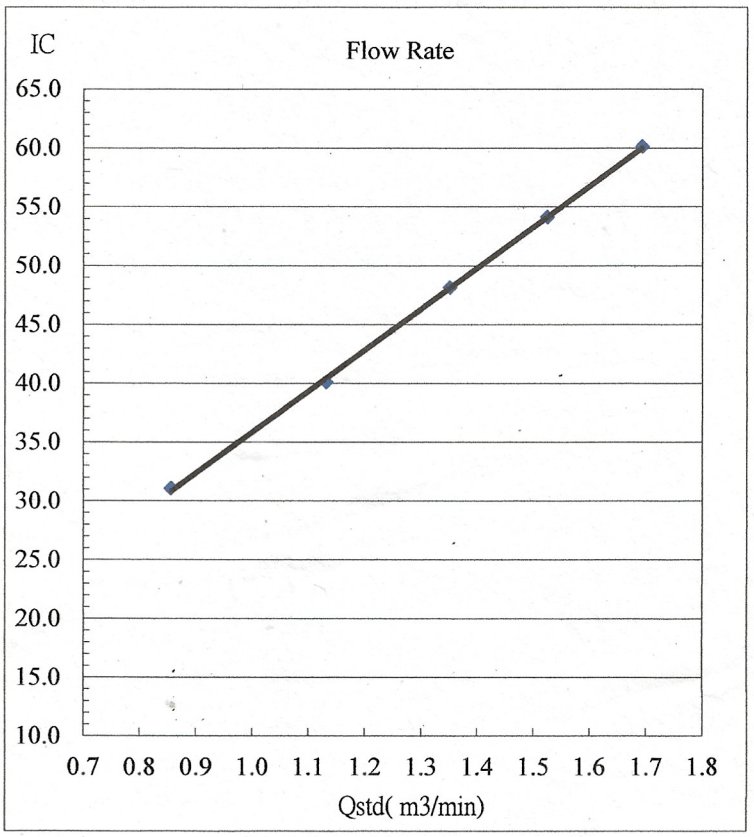
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



TISCH Environmental

RECALIBRATION DUE DATE:
December 1, 2026

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	December 1, 2025	**Rootsmeter S/N:** 438320	**Ta:** 294	°K
Operator:	Jim Tisch		**Pa:** 755.4	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** 2454		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4240	3.2	2.00
2	3	4	1	1.0130	6.4	4.00
3	5	6	1	0.9040	7.9	5.00
4	7	8	1	0.8620	8.8	5.50
5	9	10	1	0.7130	12.8	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H(Ta/Pa)}$ (y-axis)
1.0032	0.7045	1.4195	0.9958	0.6993	0.8823
0.9989	0.9861	2.0075	0.9915	0.9788	1.2477
0.9969	1.1028	2.2444	0.9895	1.0946	1.3950
0.9957	1.1551	2.3539	0.9884	1.1466	1.4631
0.9904	1.3891	2.8390	0.9831	1.3788	1.7645
QSTD	**m=**	**2.07213**	**QA**	**m=**	**1.29754**
	b=	**-0.03919**		**b=**	**-0.02436**
	r=	**0.99999**		**r=**	**0.99999**

Calculations

Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	**Va=**	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	**Qa=**	Va/ΔTime

For subsequent flow rate calculations:

Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$

Qa= $1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg

Key
ΔH: calibrator manometer reading (in H2O)
ΔP: rootsmeter manometer reading (mm Hg)
Ta: actual absolute temperature (°K)
Pa: actual barometric pressure (mm Hg)
b: intercept
m: slope

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

Tisch Environmental, Inc.
145 South Miami Avenue
Village of Cleves, OH 45002

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TOLL FREE: (877)263-7610
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ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER	: **HK2545418**
CLIENT	: **ENVIROTECH SERVICES CO.**		
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T. HK	SUB-BATCH	: 1
		DATE RECEIVED	: 18-OCT-2025
		DATE OF ISSUE	: 24-OCT-2025
PROJECT	: Not Specified	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*
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.

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WORK ORDER : HK2545418
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : Not Specified

ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2545418-001	Sibata LD-5R (781281)	Equipments	21-Oct-2025	S/N: 781281

-------- 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.com

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:	Laser Dust Monitor
Manufacturer:	Sibata LD-5R
Serial No.:	781281
Equipment Ref.:	N/A
ALS Job Order:	HK2544216

Standard Equipment

Standard Equipment:	High Volume Sampler (TSP)
Location :	Envirotech Room (Calibration Room)
Equipment Ref.:	HVS 8162
Last Calibration Date:	11-Oct-2025

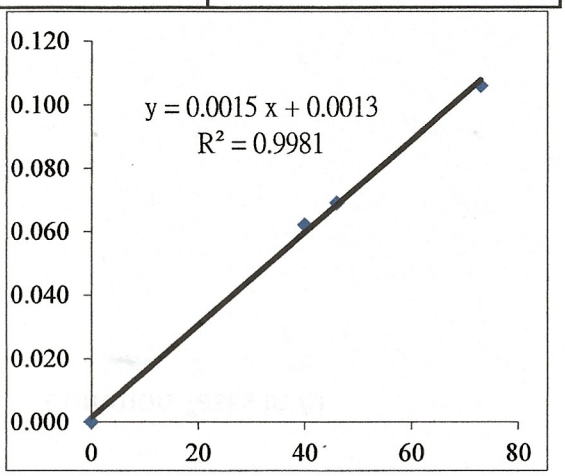
Equipment Verification Results:

Verification Date: 11-Oct-2025

Hour	Time	Mean Temp °C	Mean Pressure (hpa)	TSP Level in mg (Standard Equipment) (Y-Axis)	Total Count (Calibrated Equipment) (X-Axis)
1hr 00mins	0905-1005	28.2	1013.1	0.062	40
2hr 00mins	1015-1215	28.5	1013.0	0.069	46
3hr 00mins	1410-1710	31.1	1012.8	0.106	73

Linear Regression of Y or X

Slope (K-factor):	0.0015(mg)/Count
Correlation Coefficient (R):	0.9991
Date of Issue:	18-Oct-2025



Remarks:

1 . Strong Correlation (>0.8)

2. Factor 0.0015(mg)/Count should be applied for TSP monitoring

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

Operator: P.F.Yeung Signature Date: 18 Oct 2025

QC Reviewer: K.F.Ho Signature Date: 18 Oct 2025

TSP SAMPLER CALIBRATION CACULATION SPREADSHEET

Location :	Rm. 712, My Loft, Tuen Mun	Date of Calibration:	11-Oct-25
HVS ID:	8162	Next Calibration Date:	11-Dec-25
Name and Model :	TISCH HVS Model TE-5170	Operator:	K.F.Ho

CONDITIONS

Sea Level Pressure (hpa)	1013.1	Corrected Pressure (mm Hg)	759.9
Temperature (°C)	28.2	Temperature (K)	301.2

CALIBRATION ORIFICE

Make:	TISCH	Qstd Slope	2.08315
Model:	TE-5025A	Qstd Intercept	-0.04938
Serial#:	2454		

CALIBRATION

Plate No.	H2O(L) (in)	H20(R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	6.8	6.6	13.4	1.772	58	57.70	Slope= 44.490
13	5.6	5.6	11.2	1.622	50	49.74	Intercept= -21.891
10	4.2	4.0	8.2	1.391	40	39.79	Corr. Coeff.= 0.9991
7	2.6	2.6	5.2	1.113	27	26.86	
5	1.6	1.6	3.2	0.878	18	17.91	

Calulations:

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

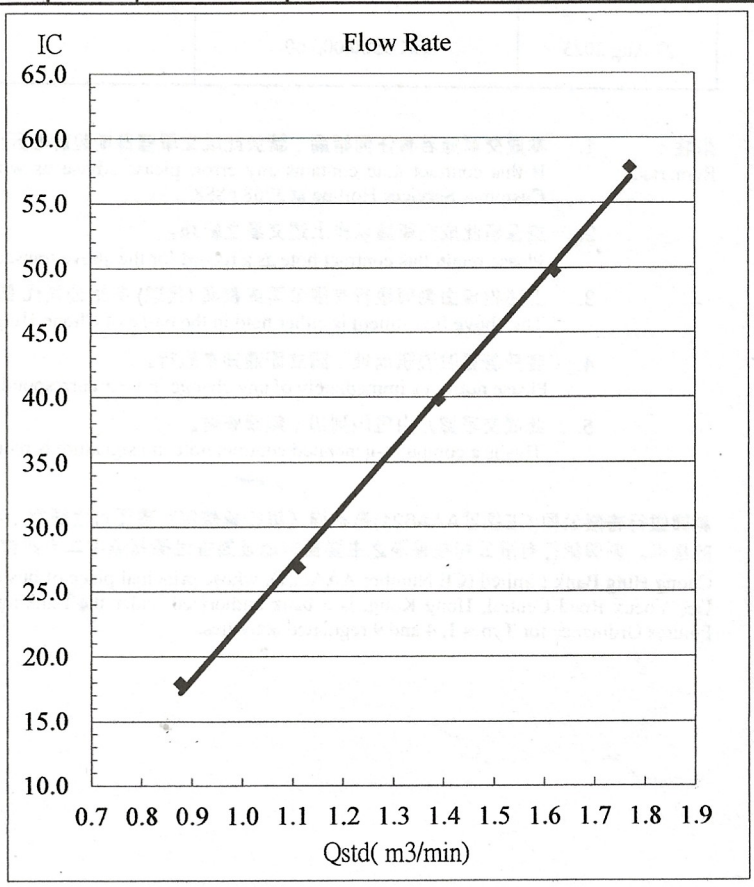
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



TISCH Environmental

RECALIBRATION DUE DATE:
December 2, 2025

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	December 2, 2024	**Rootsmeter S/N:** 438320	**Ta:** 293	°K
Operator:	Jim Tisch		**Pa:** 757.4	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** **2454**		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4200	3.2	2.00
2	3	4	1	1.0170	6.4	4.00
3	5	6	1	0.9090	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7140	12.8	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
1.0093	0.7108	1.4238	0.9958	0.7013	0.8796
1.0051	0.9883	2.0136	0.9916	0.9750	1.2439
1.0031	1.1035	2.2512	0.9896	1.0886	1.3907
1.0018	1.1515	2.3611	0.9884	1.1361	1.4586
0.9965	1.3956	2.8476	0.9831	1.3769	1.7592
QSTD	**m=**	**2.08315**	**QA**	**m=**	**1.30443**
	b=	**-0.04938**		**b=**	**-0.03050**
	r=	**0.99985**		**r=**	**0.99985**

Calculations

Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	**Va=**	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	**Qa=**	Va/ΔTime

For subsequent flow rate calculations:

Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$

Qa= $1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

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Key
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Ta: actual absolute temperature (°K)
Pa: actual barometric pressure (mm Hg)
b: intercept
m: slope

RECALIBRATION

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Tisch Environmental, Inc.
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