

**High Volume Air Sampler Calibration Worksheet**

**Project Title:** Design and Construction of Tsuen Wan Drainage Tunnel  
**Monitoring Location:** Ho Fung College  
**Calibration Date:** 05-Jun-09  
**Calibration Due Date:** 05-Aug-09  
**Time:** 11:20

Sampler Model:	BM2000HX
Serial No.:	4994
Calibrator Orifice no.:	1559
Slope (m):	1.97702
Intercept (b):	-0.00070
Correction coeff. (r)	0.99992

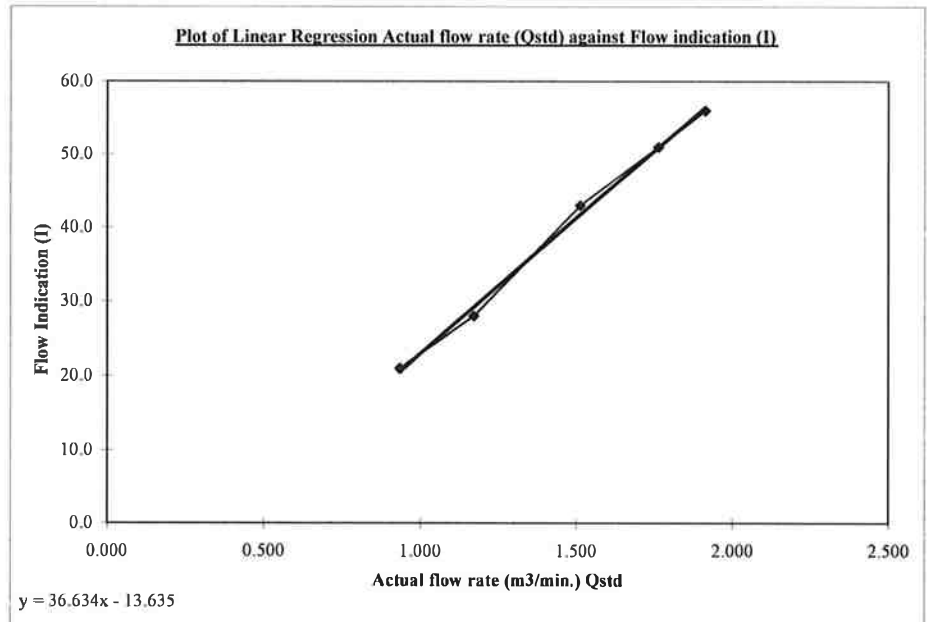
Standard pressure (mmHg) Pstd:	765.8
Standard temp. (K) Tstd:	293.00
Calibration pressure (mmHg) Pa:	752.1
Calibration temp. (K) Ta:	301.0

$$Flow(\text{corrected}) = \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$$

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

Sample no.	Pressure Drop (H), inch	Flow (corrected), m <sup>3</sup> /min	Actual flow rate (Qstd), m <sup>3</sup> /min	Flow indication (I), arbitrary
1	14.7	3.781	1.913	56.0
2	12.5	3.486	1.764	51.0
3	9.2	2.991	1.513	43.0
4	5.5	2.313	1.170	28.0
5	3.5	1.845	0.933	21.0

Correlation Coefficient : 0.9981



Remark  
 1HPa = 0.750062 mmHg

**Calibrated by:** Mak Kei Ho  
 ( *Mak Kei Ho* )

**Date:** 8-6-09

**Checked by:** Tang Hiu Yeung  
 ( *Tang Hiu Yeung* )

**Date:** 8-6-09

**High Volume Air Sampler Calibration Worksheet**

**Project Title:** Design and Construction of Tsuen Wan Drainage Tunnel  
**Monitoring Location:** Ho Fung College  
**Calibration Date:** 05-Aug-09  
**Calibration Due Date:** 05-Oct-09  
**Time:** 12:15

Sampler Model:	BM2000HX
Serial No.:	4994
Calibrator Orifice no.:	1559
Slope (m):	1.97702
Intercept (b):	-0.00070
Correction coeff. (r)	0.99992

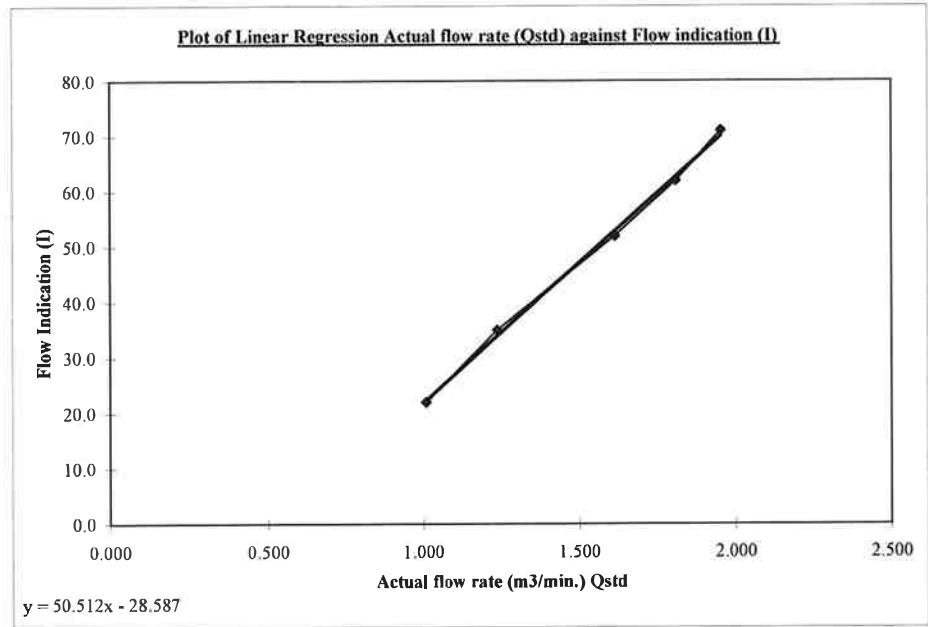
Standard pressure (mmHg) Pstd:	765.8
Standard temp. (K) Tstd:	293.00
Calibration pressure (mmHg) Pa:	748.0
Calibration temp. (K) Ta:	300.8

$$\text{Flow (corrected)} = \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$$

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

Sample no.	Pressure Drop (H), inch	Flow (corrected), m <sup>3</sup> /min	Actual flow rate (Qstd), m <sup>3</sup> /min	Flow indication (I), arbitrary
1	15.4	3.860	1.953	71.0
2	13.2	3.574	1.808	62.0
3	10.5	3.187	1.613	52.0
4	6.2	2.449	1.239	35.0
5	4.1	1.992	1.008	22.0

Correlation Coefficient : 0.9990



Remark  
 1HPa = 0.750062 mmHg

**Calibrated by:** Mak Kei Ho  
 ( *Ho* )

**Date:** 5-8-09

**Checked by:** Tang Hiu Yeung  
 ( *Yeung* )

**Date:** 5-8-09

**High Volume Air Sampler Calibration Worksheet**

**Project Title:** Design and Construction of Tsuen Wan Drainage Tunnel  
**Monitoring Location:** Heng Hoi Chi Hong Ship Temple  
**Calibration Date:** 05-Jun-09  
**Calibration Due Date:** 05-Aug-09  
**Time:** 12:35

Sampler Model:	BM2000HX
Serial No.:	5875
Calibrator Orifice no.:	1559
Slope (m):	1.97702
Intercept (b):	-0.00070
Correction coeff. (r)	0.99992

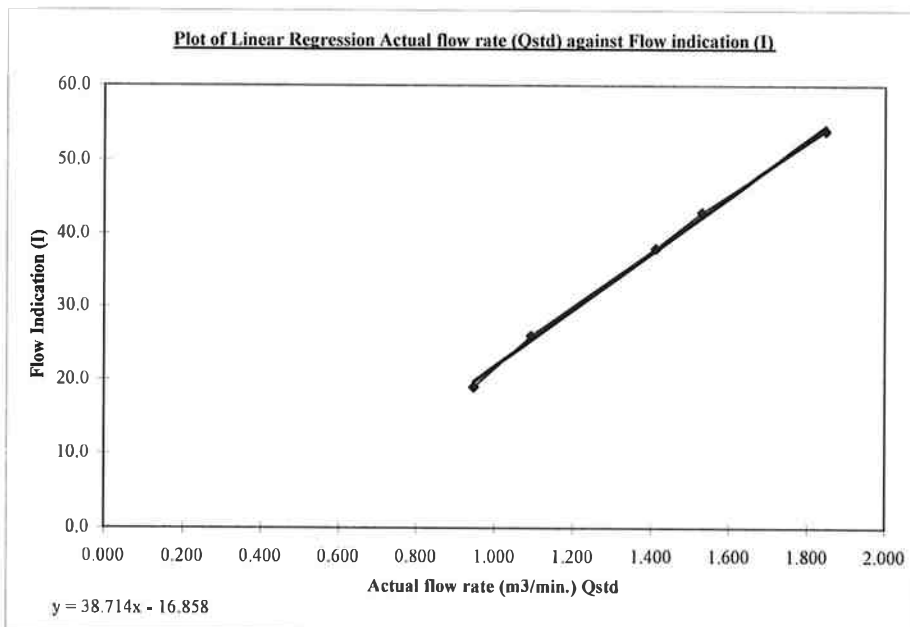
Standard pressure (mmHg) Pstd:	765.8
Standard temp. (K) Tstd:	293.00
Calibration pressure (mmHg) Pa:	752.1
Calibration temp. (K) Ta:	301.0

$$\text{Flow (corrected)} = \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$$

$$Q_{std} = \frac{1}{m} \times \left( \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}} - b \right)$$

Sample no.	Pressure Drop (H), inch	Flow (corrected), m <sup>3</sup> /min	Actual flow rate (Qstd), m <sup>3</sup> /min	Flow indication (I), arbitrary
1	13.7	3.650	1.846	54.0
2	9.4	3.023	1.530	43.0
3	8.0	2.789	1.411	38.0
4	4.8	2.160	1.093	26.0
5	3.6	1.871	0.947	19.0

Correlation Coefficient : 0.9988



Remark  
 1HPa = 0.750062 mmHg

**Calibrated by:** Mak Kei Ho  
 (            )

**Date:** 8-6-09

**Checked by:** Tang Hiu Yeung  
 (            )

**Date:** 8-6-09

**High Volume Air Sampler Calibration Worksheet**

**Project Title:** Design and Construction of Tsuen Wan Drainage Tunnel  
**Monitoring Location:** Heng Hoi Chi Hong Ship Temple  
**Calibration Date:** 05-Aug-09  
**Calibration Due Date:** 05-Oct-09  
**Time:** 12:35

Sampler Model:	BM2000HX
Serial No.:	5875
Calibrator Orifice no.:	1559
Slope (m):	1.97702
Intercept (b):	-0.00070
Correction coeff. (r)	0.99992

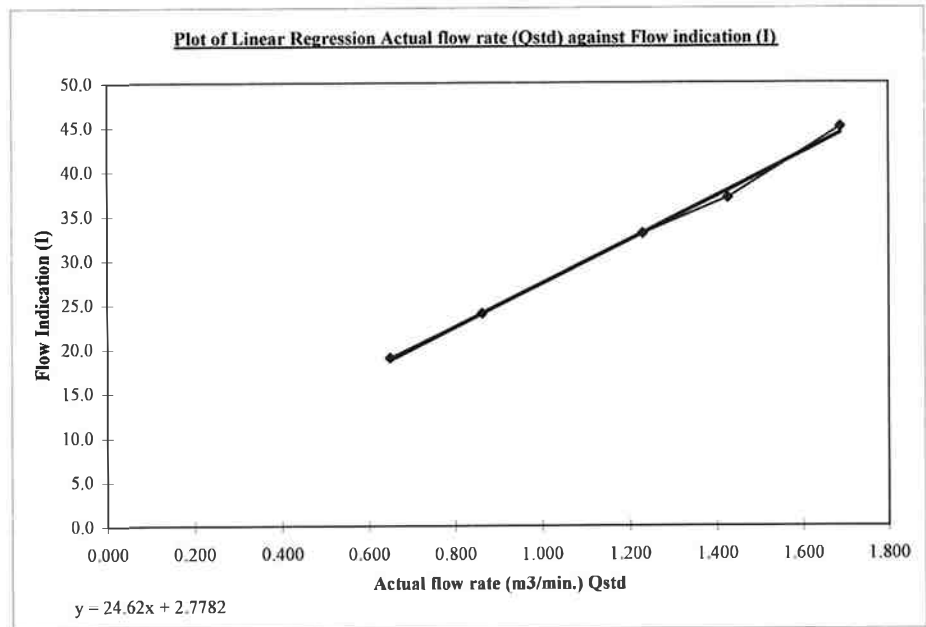
$$\text{Flow (corrected)} = \sqrt{H \times \frac{P_a}{P_{std}} \times \frac{T_{std}}{T_a}}$$

Standard pressure (mmHg) Pstd:	765.8
Standard temp. (K) Tstd:	293.00
Calibration pressure (mmHg) Pa:	748.0
Calibration temp. (K) Ta:	300.8

$$Q_{std} = \frac{1}{m} \times \left( \sqrt{H \times \frac{P_a}{P_{std}} \times \frac{T_{std}}{T_a}} - b \right)$$

Sample no.	Pressure Drop (H), inch	Flow (corrected), m <sup>3</sup> /min	Actual flow rate (Qstd), m <sup>3</sup> /min	Flow indication (I), arbitrary
1	11.5	3.336	1.688	45.0
2	8.2	2.817	1.425	37.0
3	6.1	2.429	1.229	33.0
4	3.0	1.704	0.862	24.0
5	1.7	1.283	0.649	19.0

Correlation Coefficient : 0.9985



Remark  
 1HPa = 0.750062 mmHg

**Calibrated by:** Mak Kei Ho  
 ( *Mk* )

**Date:** 5-8-09

**Checked by:** Tang Hiu Yeung  
 ( *TY* )

**Date:** 5-8-09

**High Volume Air Sampler Calibration Worksheet**

Project Title: Design and Construction of Tsuen Wan Drainage Tunnel  
 Monitoring Location: Long Beach Gardan  
 Calibration Date: 05-Jun-09  
 Calibration Due Date: 05-Aug-09  
 Time: 08:15

Sampler Model:	TE5005X
Serial No.:	0390
Calibrator Orifice no.:	1559
Slope (m):	1.97702
Intercept (b):	-0.00070
Correction coeff. (r)	0.99992

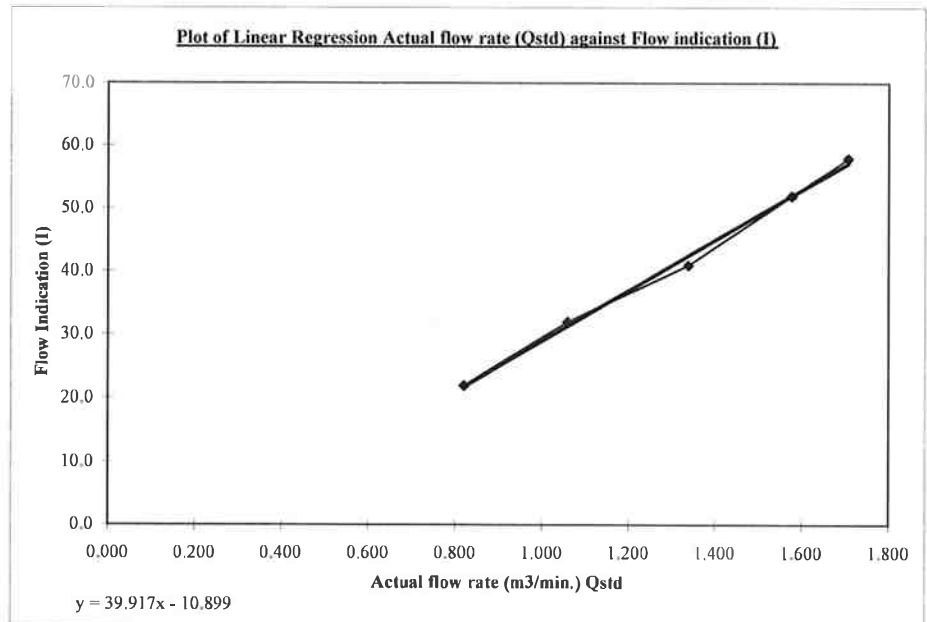
$$Flow (corrected) = \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$$

Standard pressure (mmHg) Pstd:	765.8
Standard temp. (K) Tstd:	293.00
Calibration pressure (mmHg) Pa:	752.1
Calibration temp. (K) Ta:	301.0

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

Sample no.	Pressure Drop (H), inch	Flow (corrected), m <sup>3</sup> /min	Actual flow rate (Qstd), m <sup>3</sup> /min	Flow indication (I), arbitrary
1	11.7	3.373	1.706	58.0
2	10.0	3.118	1.578	52.0
3	7.2	2.646	1.339	41.0
4	4.5	2.092	1.058	32.0
5	2.7	1.620	0.820	22.0

Correlation Coefficient : 0.9980



Remark  
 1HPa = 0.750062 mmHg

Calibrated by: **Mak Kei Ho**  
 ( *Mk* )

Date: 8-6-09

Checked by: **Tang Hiu Yeung**  
 ( *THY* )

Date: 8-6-09

**High Volume Air Sampler Calibration Worksheet**

**Project Title:** Design and Construction of Tsuen Wan Drainage Tunnel  
**Monitoring Location:** Long Beach Gardan  
**Calibration Date:** 05-Aug-09  
**Calibration Due Date:** 05-Oct-09  
**Time:** 13:44

Sampler Model:	TE5005X
Serial No.:	0390
Calibrator Orifice no.:	1559
Slope (m):	1.97702
Intercept (b):	-0.00070
Correction coeff. (r):	0.99992

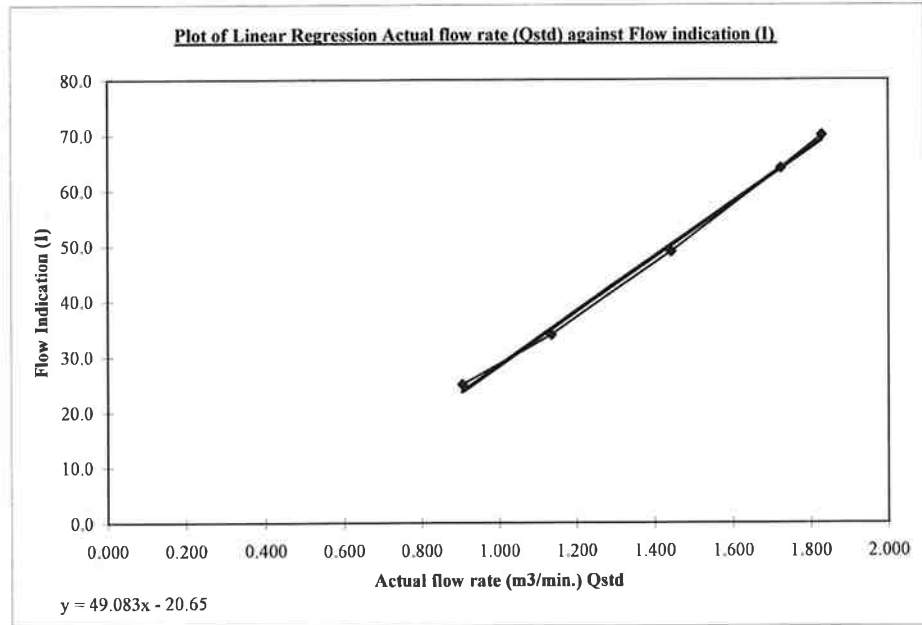
$$\text{Flow (corrected)} = \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$$

Standard pressure (mmHg) Pstd:	765.8
Standard temp. (K) Tstd:	293.00
Calibration pressure (mmHg) Pa:	748.0
Calibration temp. (K) Ta:	300.8

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

Sample no.	Pressure Drop (H), inch	Flow (corrected), m <sup>3</sup> /min	Actual flow rate (Qstd), m <sup>3</sup> /min	Flow indication (I), arbitrary
1	13.5	3.614	1.828	70.0
2	12.0	3.408	1.724	64.0
3	8.4	2.851	1.442	49.0
4	5.2	2.243	1.135	34.0
5	3.3	1.787	0.904	25.0

Correlation Coefficient : 0.9983



Remark  
 1HPa = 0.750062 mmHg

**Calibrated by:** Mak Kei Ho  
 ( Ho )

**Date:** 5-8-09

**Checked by:** Tang Hiu Yeung  
 ( Yeung )

**Date:** 5-8-09

### High Volume Air Sampler Calibration Worksheet

**Project Title:** Design and Construction of Tsuen Wan Drainage Tunnel  
**Monitoring Location:** Greenview Terrace  
**Calibration Date:** 05-Jun-09  
**Calibration Due Date:** 05-Aug-09  
**Time:** 09:45

Sampler Model:	TE5005X
Serial No.:	0646
Calibrator Orifice no.:	1559
Slope (m):	1.97702
Intercept (b):	-0.00070
Correction coeff. (r)	0.99992

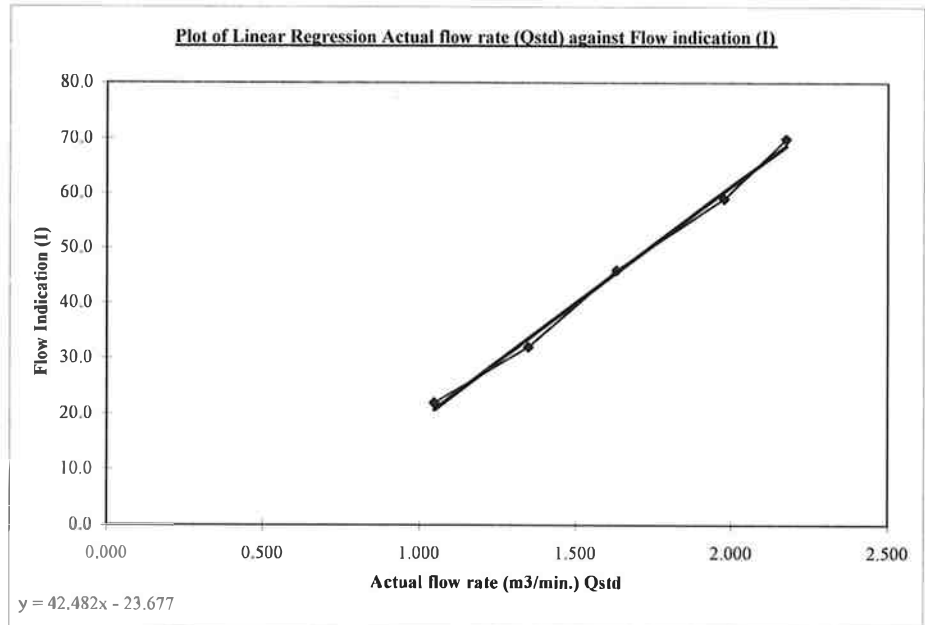
Standard pressure (mmHg) Pstd:	765.8
Standard temp. (K) Tstd:	293.00
Calibration pressure (mmHg) Pa:	752.1
Calibration temp. (K) Ta:	301.0

$$\text{Flow (corrected)} = \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$$

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

Sample no.	Pressure Drop (H), inch	Flow (corrected), m <sup>3</sup> /min	Actual flow rate (Qstd), m <sup>3</sup> /min	Flow indication (I), arbitrary
1	19.0	4.298	2.174	70.0
2	15.7	3.907	1.977	59.0
3	10.7	3.225	1.632	46.0
4	7.3	2.664	1.348	32.0
5	4.4	2.068	1.047	22.0

Correlation Coefficient : 0.9975



Remark  
1HPa = 0.750062 mmHg

**Calibrated by:** Mak Kei Ho  
 ( *Mk* )

Date: 8-6-09

**Checked by:** Tang Hiu Yeung  
 ( *Th* )

Date: 8-6-09

**High Volume Air Sampler Calibration Worksheet**

**Project Title:** Design and Construction of Tsuen Wan Drainage Tunnel  
**Monitoring Location:** Greenview Terrace  
**Calibration Date:** 05-Aug-09  
**Calibration Due Date:** 05-Oct-09  
**Time:** 13:20

Sampler Model:	TE5005X
Serial No.:	0646
Calibrator Orifice no.:	1559
Slope (m):	1.97702
Intercept (b):	-0.00070
Correction coeff. (r)	0.99992

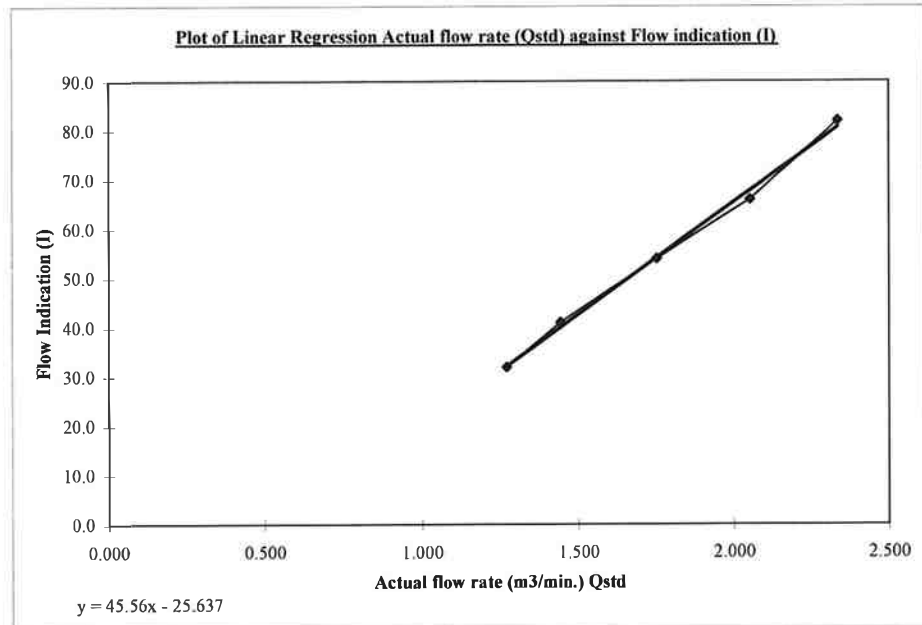
$$\text{Flow (corrected)} = \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$$

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

Standard pressure (mmHg) Pstd:	765.8
Standard temp. (K) Tstd:	293.00
Calibration pressure (mmHg) Pa:	748.0
Calibration temp. (K) Ta:	300.8

Sample no.	Pressure Drop (H), inch	Flow (corrected), m <sup>3</sup> /min	Actual flow rate (Qstd), m <sup>3</sup> /min	Flow indication (I), arbitrary
1	22.0	4.614	2.334	82.0
2	17.0	4.056	2.052	66.0
3	12.4	3.464	1.752	54.0
4	8.4	2.851	1.442	41.0
5	6.5	2.508	1.269	32.0

Correlation Coefficient : 0.9981



Remark  
 1HPa = 0.750062 mmHg

**Calibrated by:** Mak Kei Ho  
 ( *Mk* )

**Date:** 5-8-09

**Checked by:** Tang Hiu Yeung  
 ( *Hy* )

**Date:** 5-8-09



TISCH ENVIRONMENTAL, INC.  
 145 SOUTH MIAMI AVE.  
 VILLAGE OF CLEVELAND, OH 45002  
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 877.263.7610 TOLL FREE  
 513.467.9009 FAX  
 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - May 18, 2009 Rootsometer S/N 9833620 Ta (K) - 293  
 Operator Tisch Orifice I.D. - 1559 Pa (mm) - 765.81

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.4130	3.2	2.00
2	NA	NA	1.00	0.9900	6.4	4.00
3	NA	NA	1.00	0.8850	7.9	5.00
4	NA	NA	1.00	0.8420	8.7	5.50
5	NA	NA	1.00	0.6970	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
1.0205	0.7222	1.4317	0.9958	0.7047	0.8748
1.0163	1.0266	2.0247	0.9917	1.0017	1.2371
1.0142	1.1460	2.2637	0.9896	1.1182	1.3831
1.0132	1.2033	2.3742	0.9886	1.1741	1.4506
1.0078	1.4459	2.8633	0.9834	1.4109	1.7495
Qstd slope (m) = 1.97702			Qa slope (m) = 1.23797		
intercept (b) = -0.00070			intercept (b) = -0.00043		
coefficient (r) = 0.99992			coefficient (r) = 0.99992		
y axis = SQRT[H2O(Pa/760) (298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

$$Vstd = \text{Diff. Vol} [(Pa - \text{Diff. Hg}) / 760] (298 / Ta)$$

$$Qstd = Vstd / \text{Time}$$

$$Va = \text{Diff Vol} [(Pa - \text{Diff Hg}) / Pa]$$

$$Qa = Va / \text{Time}$$

For subsequent flow rate calculations:

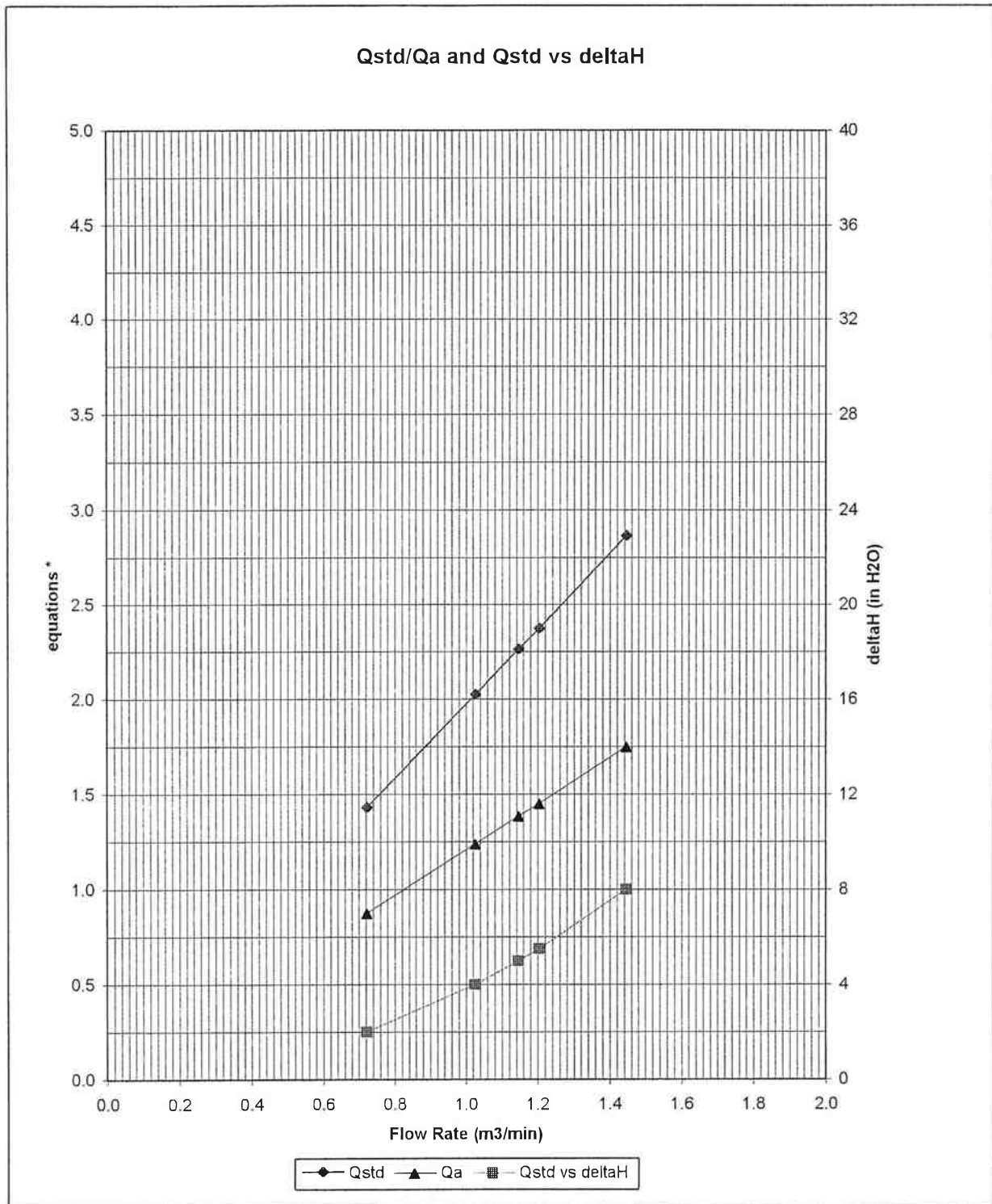
$$Qstd = 1/m \{ [\text{SQRT}(\text{H2O}(\text{Pa}/760) (298/\text{Ta}))] - b \}$$

$$Qa = 1/m \{ [\text{SQRT} \text{H2O}(\text{Ta}/\text{Pa})] - b \}$$



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AIR POLLUTION MONITORING EQUIPMENT

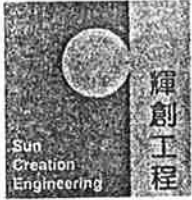


\* y-axis equations:

Qstd series: 
$$\sqrt{\Delta H \left( \frac{P_a}{P_{std}} \right) \left( \frac{T_{std}}{T_a} \right)}$$

Qa series: 
$$\sqrt{(\Delta H (T_a / P_a))}$$

# 1559



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C093599

## *Certificate of Calibration*

*This is to certify that the equipment*

*Description : Precision Sound Level Meter*

*Manufacturer : Rion*

*Model No. : NA-27*

*Serial No. : 00201194*

*has been calibrated for the specific items and ranges.  
The results are shown in the Calibration Report No. C093599.*

*The equipment is supplied by*

*Co. Name : Envirotech Services Co.*

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,  
Hong Kong*

*Date of Issue : 10 July 2009*

*Certified by :*

*H C Chan*

The test equipment used for calibration are traceable to the National Standards as specified in this report.  
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Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong  
Tel: 2927 2606 Fax: 2744 8986 E-mail: callaba@suncreation.com Website: www.suncreation.com



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C093598

## Certificate of Calibration

*This is to certify that the equipment*

*Description : Sound Level Calibrator*

*Manufacturer : Rion*

*Model No. : NC-73*

*Serial No. : 10786708*

*has been calibrated for the specific items and ranges.  
The results are shown in the Calibration Report No. C093598.*

*The equipment is supplied by*

*Co. Name : Envirotech Services Co.*

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,  
Hong Kong*

*Date of Issue : 10 July 2009*

Certified by :   
H C Chan

The test equipment used for calibration are traceable to the National Standards as specified in this report.  
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Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

Tel: 2927 2606 Fax: 2744 8986 E-mail: callab@suncreation.com Website: www.suncreation.com



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C093473

## Certificate of Calibration

*This is to certify that the equipment*

*Description : Precision Integrating Sound Level Meter*

*Manufacturer : Rion*

*Model No. : NL-18*

*Serial No. : 00360030*

*has been calibrated for the specific items and ranges.  
The results are shown in the Calibration Report No. C093473.*

*The equipment is supplied by*

*Co. Name : Envirotech Services Co.*

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,  
Hong Kong*

*Date of Issue : 6 July 2009*

*Certified by :*

*Chan H C Chan*  
H C Chan

The test equipment used for calibration are traceable to the National Standards as specified in this report.  
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Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

Tel: 2927 2606

Fax: 2744 8986

E-mail: callab@suncreation.com

Website: www.suncreation.com



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C093472

## *Certificate of Calibration*

*This is to certify that the equipment*

*Description : Sound Level Calibrator*

*Manufacturer : Rion*

*Model No. : NC-73*

*Serial No. : 10997142*

*has been calibrated for the specific items and ranges.  
The results are shown in the Calibration Report No. C093472.*

*The equipment is supplied by*

*Co. Name : Envirotech Services Co.*

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,  
Hong Kong*

*Date of Issue : 6 July 2009*

*Certified by :*   
H C Chan

The test equipment used for calibration are traceable to the National Standards as specified in this report.  
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Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

Tel: 2927 2606

Fax: 2744 8986

E-mail: callab@suncreation.com

Website: www.suncreation.com

# CERTIFICATE OF ANALYSIS



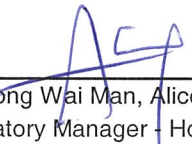
Batch: HK0913034  
Date of Issue: 30/06/2009  
Client: HYDER CONSULTING LTD  
Client Reference: TWDT

## Calibration of Turbidity System

Item : Turbidimeter  
Model No. : Eutech Instruments TN-100  
Serial No. : 215619  
Equipment No. : 215619  
Calibration Method : This meter was calibrated in accordance with standard method APHA (19th Ed.) 2130B  
Date of Calibration : 30 June, 2009

## Testing Results :

Expected Reading	Recording Reading
0.00 NTU	0.00 NTU
4.00 NTU	3.86 NTU
16.0 NTU	16.3 NTU
40.0 NTU	39.8 NTU
160 NTU	173 NTU
Allowing Deviation	±10%

  
Ms Wong Wai Man, Alice  
Laboratory Manager - Hong Kong

# CERTIFICATE OF ANALYSIS



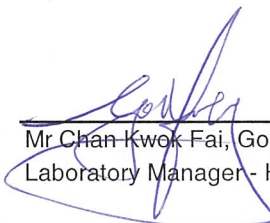
Batch: HK0913489  
Date of Issue: 16/07/2009  
Client: HYDER CONSULTING LTD  
Client Reference:

## Calibration of DO System

Item : Multi-parameter Instrument / Mehrparameter-MeBgerat  
Model No. : WTW pH / Oxi 340i  
Serial No. : 08101283  
Equipment No.: 0901264  
Calibration Method : This meter was calibrated in accordance with standard method APHA (18th Ed.) 4500-0C & G  
Date of Calibration : 07 July, 2009

## Testing Results :

Expected Reading	Recording Reading
5.27 mg/L	5.37 mg/L
6.58 mg/L	6.68 mg/L
7.73 mg/L	7.67 mg/L
Allowing Deviation	±0.2 mg/L

  
Mr Chan Kwok Fai, Godfrey  
Laboratory Manager - Hong Kong

# CERTIFICATE OF ANALYSIS



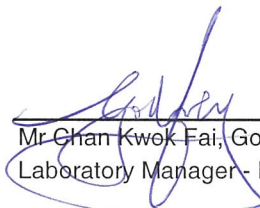
Batch: HK0913489  
Date of Issue: 16/07/2009  
Client: HYDER CONSULTING LTD  
Client Reference:

## Calibration of pH System

Item : Multi-parameter Instrument / Mehrparameter-MeBgerat  
Model No. : WTW pH / Oxi 340i  
Serial No. : 08101283  
Equipment No. : --  
Calibration Method : This meter was calibrated in accordance with standard method APHA (19th Ed.) 4500-H<sup>+</sup>B  
Date of Calibration : 07 July, 2009

### Testing Results :

Expected Reading	Recording Reading
4.00	4.13
7.00	7.13
10.0	9.97
Allowing Deviation	$\pm 0.2$

  
Mr. Chan Kwok Fai, Godfrey  
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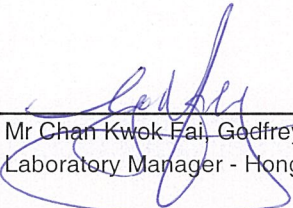
Batch: HK0913489  
Date of Issue: 16/07/2009  
Client: HYDER CONSULTING LTD  
Client Reference:

## Calibration of Thermometer

Item : Multi-parameter Instrument / Mehrparameter-Meßgerät  
Model No. : WTW pH / Oxi 340i  
Serial No. : 08101283  
Equipment No. : --  
Calibration Method : In-house Method  
Date of Calibration : 07 July, 2009

Testing Results :

Reference Temperature (°C)	Recorded Temperature (°C)
27.0 °C	27.4 °C
33.5 °C	33.8 °C
Allowing Deviation	±2.0°C

  
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