

Certificate of Calibration

Calibration Certification Information			
Cal. Date: October 21, 2019	Rootsmeter S/N: 438320	Ta: 295	°K
Operator: Jim Tisch		Pa: 744.2	mm Hg
Calibration Model #: TE-5025A	Calibrator S/N: 2456		

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	1.0180	6.3	4.00
3	5	6	1	0.9030	7.9	5.00
4	7	8	1	0.8620	8.8	5.50
5	9	10	1	0.7120	12.6	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)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis)	
0.9849	0.6936	1.4066	0.9957	0.7012	0.8904	
0.9808	0.9635	1.9892	0.9915	0.9740	1.2592	
0.9787	1.0838	2.2240	0.9894	1.0957	1.4078	
0.9775	1.1340	2.3325	0.9882	1.1464	1.4765	
0.9724	1.3658	2.8131	0.9831	1.3807	1.7808	
QSTD	m=	2.08799	QA	m=	1.30746	
	b=	-0.03545		b=	-0.02244	
	r=	0.99989		r=	0.99989	

Calculations			
Vstd=	$\Delta Vol \left(\frac{Pa - \Delta P}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)$	Va=	$\Delta Vol \left(\frac{Pa - \Delta P}{Pa} \right)$
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=	$1/m \left(\left(\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)} \right) - b \right)$

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

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TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Project : Environmental Monitoring Works For Contract No. KLN/2015/07			Date of Calibration: 29-Nov-19
Location : KTD1a			Next Calibration Date: 28-Feb-20
Brand:	Tisch		Technician: Tony Wan
Model:	TE-5170	S/N: 4037	

CONDITIONS			
Sea Level Pressure (hPa):	1022.3	Corrected Pressure (mm Hg):	767
Temperature (°C):	19.7	Temperature (K):	293

CALIBRATION ORIFICE			
Make:	Tisch	Qstd Slope:	2.08799
Model:	TE-5025A	Qstd Intercept:	-0.03545
Calibration Date:	21-Oct-19	Expiry Date:	21-Oct-20
S/N:	2456		

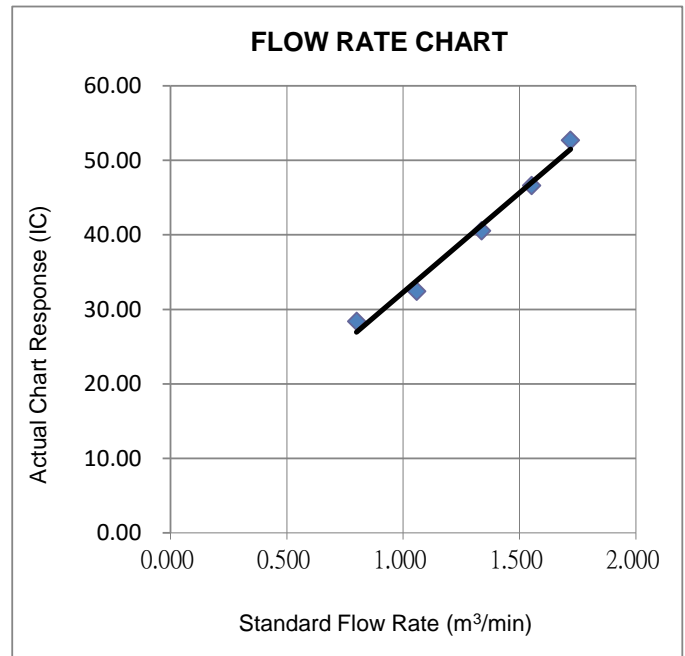
CALIBRATION							
Plate No.	H2O (L) (in)	H2O (R) (in)	H2O (in)	Qstd (m ³ /min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	6.20	-6.10	12.300	1.719	52.00	52.70	Slope = 26.6948 Intercept = 5.6112 Corr. coeff.: 0.9921
13	4.70	-5.30	10.000	1.552	46.00	46.62	
10	3.90	-3.50	7.400	1.337	40.00	40.54	
7	2.40	-2.20	4.600	1.058	32.00	32.43	
5	1.20	-1.40	2.600	0.800	28.00	28.38	

Calculations:

$Qstd = 1/m[\sqrt{H2O(Pa/Pstd)(Tstd/Ta)}] - b$
 $IC = I[\sqrt{Pa/Pstd)(Tstd/Ta)}]$
 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)
 Tstd = 298 deg K
 Pstd = 760 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



Wan Ka Ho

Wan Ka Ho
Project Consultant

Report Date: 1/12/2019

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TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Project : Environmental Monitoring Works For Contract No. KLN/2015/07			Date of Calibration: 29-Nov-19		
Location : KTD2b			Next Calibration Date: 28-Feb-20		
Brand:	Tisch		Technician: Tony Wan		
Model:	TE-5170	S/N:	3838		

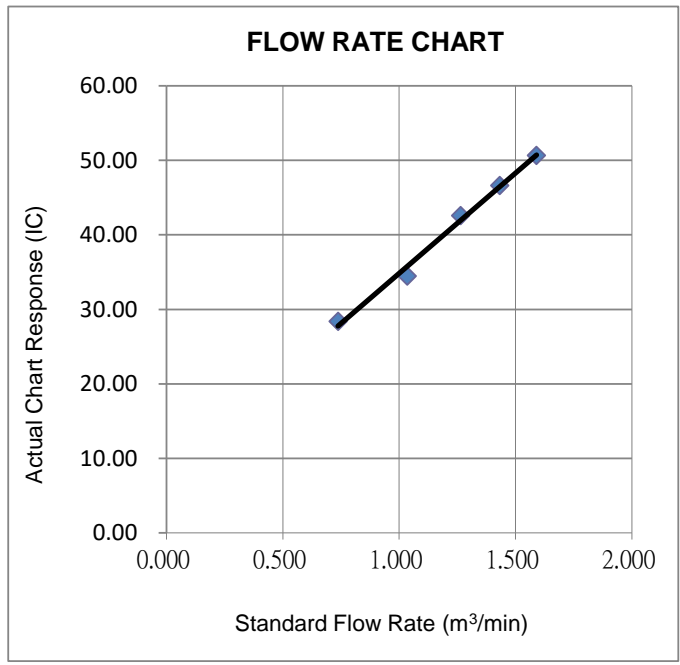
CONDITIONS					
Sea Level Pressure (hPa):	1022.3	Corrected Pressure (mm Hg):	767		
Temperature (°C):	19.7	Temperature (K):	293		

CALIBRATION ORIFICE					
Make:	Tisch	Qstd Slope:	2.08799		
Model:	TE-5025A	Qstd Intercept:	-0.03545		
Calibration Date:	21-Oct-19	Expiry Date:	21-Oct-20		
S/N:	2456				

CALIBRATION							
Plate No.	H2O (L) (in)	H2O (R) (in)	H2O (in)	Qstd (m ³ /min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	5.40	-5.10	10.500	1.590	50.00	50.68	Slope = 26.8950 Intercept = 7.9538 Corr. coeff.: 0.9961
13	4.20	-4.30	8.500	1.432	46.00	46.62	
10	2.80	-3.80	6.600	1.264	42.00	42.57	
7	2.00	-2.40	4.400	1.035	34.00	34.46	
5	1.00	-1.20	2.200	0.737	28.00	28.38	

Calculations:
 $Qstd = 1/m[\sqrt{H2O(Pa/Pstd)(Tstd/Ta)}]-b$
 $IC = I[\sqrt{Pa/Pstd)(Tstd/Ta)}$
 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)
 Tstd = 298 deg K
 Pstd = 760 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



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TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Project : Environmental Monitoring Works For Contract No. KLN/2015/07			Date of Calibration: 29-Nov-19
Location : KER1b			Next Calibration Date: 28-Feb-20
Brand:	Tisch		Technician: Tony Wan
Model:	TE-5170	S/N: 3482	

CONDITIONS			
Sea Level Pressure (hPa):	1022.3	Corrected Pressure (mm Hg):	767
Temperature (°C):	19.7	Temperature (K):	293

CALIBRATION ORIFICE			
Make:	Tisch	Qstd Slope:	2.08799
Model:	TE-5025A	Qstd Intercept:	-0.03545
Calibration Date:	21-Oct-19	Expiry Date:	21-Oct-20
S/N:	2456		

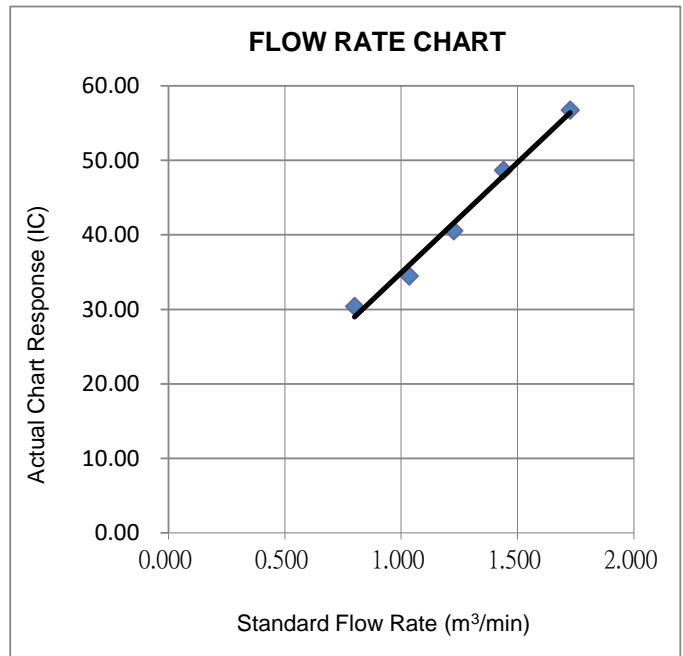
CALIBRATION							
Plate No.	H2O (L) (in)	H2O (R) (in)	H2O (in)	Qstd (m ³ /min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	6.20	-6.20	12.400	1.726	56.00	56.76	Slope = 29.6075 Intercept = 5.2880 Corr. coeff.: 0.9934
13	4.00	-4.60	8.600	1.440	48.00	48.65	
10	2.80	-3.40	6.200	1.226	40.00	40.54	
7	1.60	-2.80	4.400	1.035	34.00	34.46	
5	1.00	-1.60	2.600	0.800	30.00	30.41	

Calculations:

$Qstd = 1/m[\sqrt{H2O(Pa/Pstd)(Tstd/Ta)}] - b$
 $IC = I[\sqrt{Pa/Pstd}(Tstd/Ta)]$
 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)
 Tstd = 298 deg K
 Pstd = 760 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



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Report Date: 1/12/2019

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TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Project : Environmental Monitoring Works For Contract No. KLN/2015/07			Date of Calibration: 18-Feb-20
Location : KTD1a			Next Calibration Date: 17-May-20
Brand:	Tisch		Technician: Tony Wan
Model:	TE-5170	S/N: 4037	

CONDITIONS			
Sea Level Pressure (hPa):	1026.4	Corrected Pressure (mm Hg):	770
Temperature (°C):	14.7	Temperature (K):	288

CALIBRATION ORIFICE			
Make:	Tisch	Qstd Slope:	2.08799
Model:	TE-5025A	Qstd Intercept:	-0.03545
Calibration Date:	21-Oct-19	Expiry Date:	21-Oct-20
S/N:	2456		

CALIBRATION							
Plate No.	H2O (L) (in)	H2O (R) (in)	H2O (in)	Qstd (m ³ /min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	5.00	-7.00	12.000	1.716	50.00	51.22	Slope = 25.1765 Intercept = 7.5773 Corr. coeff.: 0.9971
13	3.10	-6.90	10.000	1.568	46.00	47.12	
10	1.80	-5.40	7.200	1.333	40.00	40.97	
7	0.90	-4.20	5.100	1.125	34.00	34.83	
5	0.20	-2.40	2.600	0.808	28.00	28.68	

Calculations:

$$Qstd = 1/m[\sqrt{H2O(Pa/Pstd)(Tstd/Ta)}] - b]$$

$$IC = I[\sqrt{Pa/Pstd)(Tstd/Ta)}]$$

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)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\sqrt{298/Tav}(Pav/760)] - b)$$

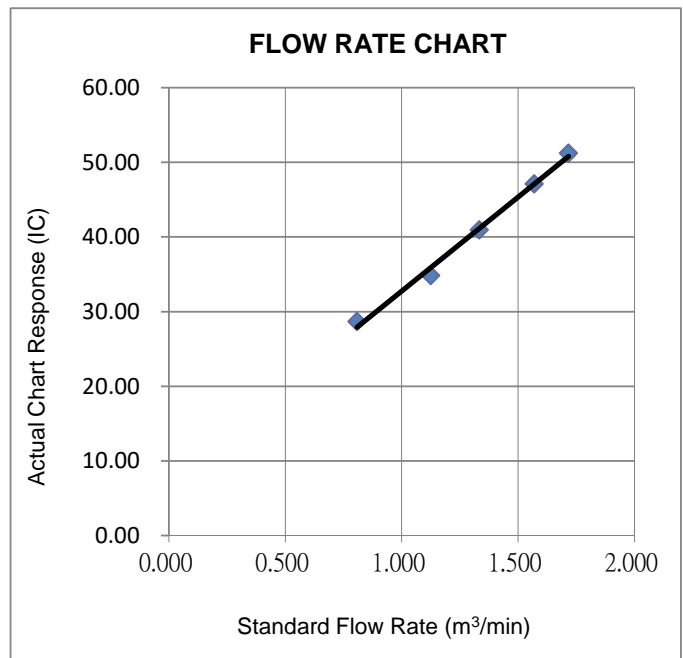
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



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Report Date: 20/2/2020

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TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Project : Environmental Monitoring Works For Contract No. KLN/2015/07			Date of Calibration: 18-Feb-20		
Location : KER1b			Next Calibration Date: 17-May-20		
Brand:	Tisch		Technician: Tony Wan		
Model:	TE-5170	S/N:	3482		

CONDITIONS					
Sea Level Pressure (hPa):	1026.4	Corrected Pressure (mm Hg):	770		
Temperature (°C):	14.7	Temperature (K):	288		

CALIBRATION ORIFICE					
Make:	Tisch	Qstd Slope:	2.08799		
Model:	TE-5025A	Qstd Intercept:	-0.03545		
Calibration Date:	21-Oct-19	Expiry Date:	21-Oct-20		
S/N:	2456				

CALIBRATION							
Plate No.	H2O (L) (in)	H2O (R) (in)	H2O (in)	Qstd (m ³ /min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	4.60	-7.90	12.500	1.751	51.00	52.24	Slope = 24.2236 Intercept = 9.1388 Corr. coeff.: 0.9953
13	3.40	-6.10	9.500	1.529	45.00	46.09	
10	2.40	-5.20	7.600	1.369	40.00	40.97	
7	1.00	-4.10	5.100	1.125	36.00	36.88	
5	0.30	-2.80	3.100	0.881	30.00	30.73	

Calculations:

$$Qstd = 1/m[\sqrt{H2O(Pa/Pstd)(Tstd/Ta)}] - b$$

$$IC = I[\sqrt{Pa/Pstd}(Tstd/Ta)]$$

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)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\sqrt{298/Tav}(Pav/760)] - b)$$

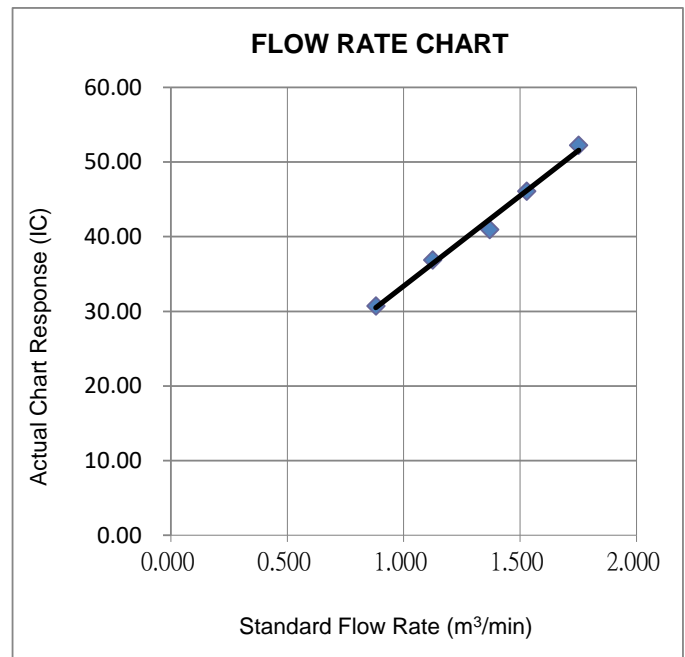
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



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Report Date: 20/2/2020

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TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Project : Environmental Monitoring Works For Contract No. KLN/2015/07			Date of Calibration: 18-Feb-20		
Location : KTD2b			Next Calibration Date: 17-May-20		
Brand:	Tisch		Technician: Tony Wan		
Model:	TE-5170	S/N:	3838		

CONDITIONS					
Sea Level Pressure (hPa):	1026.4	Corrected Pressure (mm Hg):	770		
Temperature (°C):	14.7	Temperature (K):	288		

CALIBRATION ORIFICE					
Make:	Tisch	Qstd Slope:	2.08799		
Model:	TE-5025A	Qstd Intercept:	-0.03545		
Calibration Date:	21-Oct-19	Expiry Date:	21-Oct-20		
S/N:	2456				

CALIBRATION							
Plate No.	H2O (L) (in)	H2O (R) (in)	H2O (in)	Qstd (m ³ /min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	5.40	-4.90	10.300	1.591	49.00	50.19	Slope = 28.4808 Intercept = 5.4872 Corr. coeff.: 0.9927
13	4.20	-3.80	8.000	1.405	46.00	47.12	
10	3.10	-3.00	6.100	1.229	39.00	39.95	
7	2.00	-1.50	3.500	0.935	30.00	30.73	
5	1.20	-0.80	2.000	0.711	26.00	26.63	

Calculations:

$$Qstd = 1/m[\sqrt{H2O(Pa/Pstd)(Tstd/Ta)}] - b$$

$$IC = I[\sqrt{Pa/Pstd)(Tstd/Ta)}]$$

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)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\sqrt{298/Tav}(Pav/760)] - b)$$

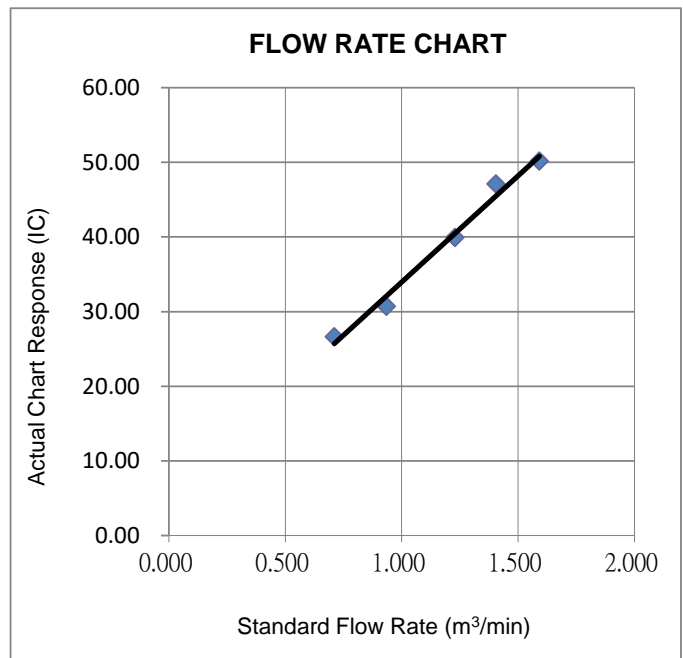
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



Wan Ka Ho

Wan Ka Ho
Project Consultant

Report Date: 20/2/2020

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MaterialLab

Report no.: 183057CA196181

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client : Fugro Technical Services Ltd.

Project : Calibration Services

Details of Unit Under Test, UUT

Description : Sound Level Meter

Manufacturer : Casella

Model No.

Serial No.

Next Calibration Date : 01-Oct-2020

Specification Limit : EN 61672: 2003 Type 1

Meter	Microphone	Preamplifier
CEL-63X	CE-251	CEL-495
1488272	02552	003942

Laboratory Information

Details of Reference Equipment -

Description : B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)

Equipment ID. : R-108-1

Date of Calibration : 02-Oct-2019 Ambient Temperature : 22 °C

Calibration Location : Calibration Laboratory of FTS

Method Used : By direct comparison

Calibration Results :

Parameters	Mean Value (dB)	Specification Limit(dB)
A-weighting frequency response	4000Hz	2.0
	2000Hz	1.4
	1000Hz	0.0
	500Hz	-3.4
	250Hz	-8.8
	125Hz	-16.3
	63Hz	-26.3
	31.5Hz	-39.3
Differential level linearity	94dB-104dB	± 0.6
	104dB-114dB	± 0.6

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
4. The equipment does comply with EN 61672: 2003 Type 1 sound level meter for the above measurement.
5. The values given in this Calibration Certificate only relate to the unit-under-test and the values measured at the time of the test. Uncertainties will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the measurement.

Checked by : William Date : 4-10-2019 Certified by : KL Leung Date : 6-10-2019

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

** End of Report **

Report no.: 183057CA196490

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client : Fugro Technical Services Ltd.

Project : Calibration Services

Details of Unit Under Test, UUT

 Description : Sound Level Meter
 Manufacturer : Casella

Model No. :

Serial No. :

Equipment ID :

Next Calibration Date :

Specification Limit :

Meter	Microphone	Preamplifier
CEL-63X	CE-251	CEL-495
1488304	02695	003984

N/A

02-Dec-2020

EN 61672: 2003 Type 1

Laboratory Information

Details of Reference Equipment -

Description : B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)

Equipment ID. : R-108-1

Date of Calibration : 03-Dec-2019

Calibration Location : Calibration Laboratory of FTS Ambient Temperature : 22 °C

Method Used : By direct comparison

Calibration Results :

Parameters		Mean Value (dB)	Specification Limit(dB)
A-weighting frequency response	4000Hz	0.8	2.6 to -0.6
	2000Hz	1.8	2.8 to -0.4
	1000Hz	1.0	1.1 to -1.1
	500Hz	-2.2	-1.8 to -4.6
	250Hz	-7.6	-7.2 to -10.0
	125Hz	-15.0	-14.6 to -17.6
	63Hz	-25.1	-24.7 to -27.7
	31.5Hz	-38.0	-37.4 to -41.4
Differential level linearity	94dB-104dB	0.0	± 0.6
	104dB-114dB	0.0	± 0.6

Remarks :

- The equipment used in this calibration is traceable to recognized National Standards.
- The mean value is the average of four measurements.
- For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
- The UUT complies with EN 61672: 2003 Type 1 sound level meter for the above measurement.
- The values given in this Calibration Certificate only relate to the values at the time of the test and any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

 Checked by : William Date : 12-12-2019 Certified by : K. J. Young Date : 12-12-2019

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

**** End of Report ****

FUGRO TECHNICAL SERVICES LIMITED

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Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client Supplied Information

Client : Fugro Technical Services Ltd.

Project : Calibration Services

Details of Unit Under Test, UUT

Description : Sound Calibrator
Manufacturer : Casella (Model CEL-120/1)
Serial No. : 2383852
Equipment ID : N/A

Next Calibration Date : 15-Oct-2020

Specification Limit : EN 60942: 2003 Type 1

Laboratory Information

Details of Reference Equipment -

Description : Reference Sound level meter
Equipment ID. : R-119-1

Date of Calibration : 16-Oct-2019 Ambient Temperature : 22 °C

Calibration Location : Calibration Laboratory of FTS

Method Used : By direct comparison

Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	0.0 dB	±0.4dB
114dB	0.0 dB	

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. The equipment does comply with the specification limit.
4. The values given in this Calibration Certificate only relate to the values at the time of the test and any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by : William Date : 22-10-2019 Certified by : Leung Kwok Tai Date : 22-10-2019
CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

** End of Report **

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Report no.: 183057CA195873

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CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client Supplied Information

Client : Fugro Technical Services Ltd.

Project : Calibration Services

Details of Unit Under Test, UUT

Description : Sound Calibrator
Manufacturer : Casella (Model CEL-120/1)
Serial No. : 4358289
Equipment ID : N-35
Next Calibration Date : 25-Jul-2020
Specification Limit : EN 60942: 2003 Type 1

Laboratory Information

Description : Reference Sound level meter
Equipment ID. : R-119-1
Date of Calibration : 26-Jul-2019 Ambient Temperature : 22 °C
Calibration Location : Calibration Laboratory of FTS
Method Used : By direct comparison

Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	0.1 dB	±0.4dB
114dB	0.0 dB	

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. The equipment does comply with the specification limit.
4. The values given in this Calibration Certificate only relate to the values at the time of the test and any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by : William Date : 26-7-2019 Certified by : RT Leung Date : 26-7-2019
CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

** End of Report **

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Report No. : 183057CA195782(1)

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CALIBRATION CERTIFICATE OF ANEMOMETER

Client Supplied Information

Client : Fugro Technical Services Ltd.

Project : Calibration Services

Details of Unit Under Test, UUT

Description : Anemometer

Manufacturer : Benetech

Model No. : GM816

Serial No. : N/A

Equipment ID. : WS-08

Next Calibration Date : 17-Jun-2020

Laboratory Information

Details of Reference Equipment –

Description : Reference Anemometer

Equipment ID. : R-101-4

Date of Calibration : 18-Jun-2019 Ambient Temperature : 22 °C

Calibration Location : Calibration Laboratory of FTS

Method Used : R-C-279

Calibration Results :

Reference Reading (m/s)	UUT Reading (m/s)	Error (m/s)
2.05	1.0	-1.1
4.08	3.1	-1.0
6.07	4.8	-1.3
8.03	6.7	-1.3
10.14	8.8	-1.3

Remark :

1. The equipment being used in this calibration is traceable to recognized National Standards.

Checked by : William Date : 20-6-2019 Certified by : Kit Lung Date : 24-6-2019
CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

** End of Report **