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ANEXO 2: Certificado de calibración



REPORT # 284 2024-135 v.0
CERTIFICATE OF CALIBRATION
SIZE CALIBRATION

MODEL NUMBER	EMI-10000
SERIAL NUMBER	6552

SIZE CALIBRATION AND VERIFICATION OF SIZE SETTING				
Channel	Nominal Particle Size	Gain Stage	Digital Cutpoint	Expanded Uncertainty
1	0.3 µm	High	3124	1.7%
2	0.5 µm	High	22365	1.4%
3	1.0 µm	Low	3269	1.8%
4	2.5 µm	Low	1069	1.1%
5	5.0 µm	Low	337	1.1%
6	10.0 µm	Low	270	0.6%

FALSE COUNT RATE						
Sample Time (Minutes)	Volume Sampled (Liters)	Concentration (Count/M³)	Measured Counts (#)	95% UCL (Count/M³)	Allowable Range	Pass/Fail
60	168.6	0.0	0	27.7	± 110.7	PASS

SIZE RESOLUTION			
Size (µm)	Actual	Limit	Pass/Fail
2.5	11.2%	≤ 15%	PASS

COUNTING EFFICIENCY			
Measurements	Allowable Range	Actual	Pass/Fail
0.3 µm	50% ± 20	49.7%	PASS
0.5 µm	100% ± 10	97.5%	PASS

FLOW RATE (L/MIN)			
Nominal	Actual	Actual %	Pass/Fail
2.83	2.81	-0.7%	PASS

Calibration Date:	August 1, 2024
Calibration Due Date:	July 31, 2025

ITS Technologies hereby certifies that the calibration performed on the above described instrument meets the requirements of ISO 21501-4 and has been calibrated using standards whose accuracies are traceable to the United States National Institute of Standards and Technology (NIST), or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants. This document shall not be reproduced except in full without the written consent of ITS Technologies.

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CERTIFICATE OF CALIBRATION NIST REPORT

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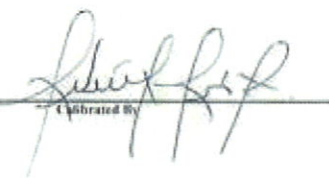
MODEL NUMBER	EM-10000
SERIAL NUMBER	6552

Temperature	19.96	°C
Relative Humidity	87.85	% RH
Barometric Pressure	1012.90	mbar

PARTICLES PLUS CALIBRATION EQUIPMENT				
Measurement Variable	Model	Serial Number	Date Last Calibrated	Calibration Due Date
Particle Counter	SP61	SP610010	03/08/2024	03/07/2025
Flow Meter	4146	4146 2003 009	03/11/2024	03/11/2025
Temperature/Humidity	EL-SIE-6+	24221701634E47AA	12/06/2023	12/06/2024
Barometric Pressure	EL-SIE-6+	24221701634E47AA	12/13/2023	12/13/2024

PARTICLE STANDARDS					
Certified Mean Diameter	Standard Uncertainty	Standard Deviation	Lot Number	Expiration	Manufacturer
0.300 µm	± 0.005 µm, k=2	0.0066 µm	276145	27-Jan	Thermo
0.510 µm	± 0.007 µm, k=2	0.0092 µm	274149	26-Nov	Thermo
0.702 µm	± 0.006 µm, k=2	0.0049 µm	271988	26-Sep	Thermo
1.025 µm	± 0.018 µm, k=2	0.0110 µm	275619	26-Dec	Thermo
2.514 µm	± 0.027 µm, k=2	0.0290 µm	274437	26-Nov	Thermo
4.973 µm	± 0.054 µm, k=2	0.0500 µm	277904	27-Mar	Thermo
10.070 µm	± 0.060 µm, k=2	0.0900 µm	273920	25-Mar	Thermo

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Calibrated By

August 1, 2024

Date

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ANEXO 3: Fotografía de la medición



--- FIN DEL DOCUMENTO ---

**EnviroLab S.A., sólo se hace responsable por los resultados de los puntos monitoreados y descritos en este Informe.

DOCUMENTOS ANEXOS

1. PLANOS INDICATIVO DE CURSOS HIDRICOS EXISTENTES
2. ZONA DE TANQUES Y POZOS DE ABASTECIMIENTO
3. PLANTA GENERAL
4. PLANTA GENERAL DE MOVIMIENTO DE TIERRA
5. PLANTA GENERAL DE ESTUDIO DE SUELO
6. PLANTA POLIGONO EFECTIVO
7. PLANTA GENERAL DE MOVIMIENTO DE TIERRA
8. PLANTA GENERAL DE TOPOGRAFIA
9. PLANTA GENERAL DE MOVIMIENTO DE TIERRA
10. PRUEBAS DE CAPACIDAD DE SOPORTE SPT

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David, 26 de noviembre de 2024

Licenciado

Ernesto Ponce Cabrera

Administrador Regional

MIAMBIENTE Chiriqui

por este medio informo a usted que en la AMPLIACION del EsIA **DESARROLLO RESIDENCIAL VALLE LUNA II ETAPA** se presentan en el documento original foliadas a mano las siguientes páginas: 1,46, 81, DESDE 136 A 154 y de la foja 156 a 164, que corresponde a la nota de SINAPROC, y documentos notariados e informes originales.

Agradezco de antemano su gestión.

Atentamente

Ing.

Laura G. Chia de Mordock

IAR 090-99

Consultor líder EsIA **DESARROLLO RESIDENCIAL VALLE LUNA II ETAPA.**