


NO: SAMM 686

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LABORATORY LOCATION/ CENTRAL OFFICE: 	Envichem Consults Sdn. Bhd. No.5, 5A, 5B, 7A & 7B, Lorong Temenggung 15A Taman Evergreen , 41200, SELANGOR MALAYSIA
ACCREDITED SINCE :	13 MAY 2025
FIELD(S) OF TESTING:	CHEMICAL MICROBIOLOGICAL
SITE:	
1 . SITE LABORATORY(HQ) :	CATEGORY I
FIELD(S) OF TESTING :	CHEMICAL,MICROBIOLOGICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

CENTRAL LOCATION:	Envichem Consults Sdn. Bhd. No.5, 5A, 5B, 7A & 7B, Lorong Temenggung 15A Taman Evergreen , 41200, Selangor
FIELD(S) OF TESTING :	CHEMICAL, MICROBIOLOGICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Wastewater Effluent/wastewater, Potable And Domestic/industrial Water And Sewage	pH	APHA 4500 H ⁺ B Electrometric Method
	Total Suspended Solid	APHA 2540 D Dried at (103-105)°C
	Biochemical Oxygen Demand (BOD ₅) at 20°C	APHA 5210 B 5-Day BOD Test

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Oil and Grease	APHA 5520 B Liquid-liquid, Partition Gravimetric Method
	Dissolved Oxygen (DO)	APHA 4500 O-G Membrane Electrode Method
	Tin (Sn)	In-house method EC-SM-011, based on APHA 3114 B.
	Arsenic (As)	APHA 3114 B. Continuous Hydride Generation/ Atomic Absorption Spectrometric (MODIFIED)
	Chromium Hexavalent (Cr^{6+})	APHA 3500-Cr B. Colorimetric Method
	Boron (B)	APHA 4500 – B C. Carmine Method
	Barium (Ba)	APHA 3111 D. Direct Nitrous-Oxide Acetylene Flame Method
	Flouride	APHA 4500-F- D. SPADNS Method
	Color, ADMI	APHA 2120 F. ADMI Weighted Ordinate Spectrophotometric Method
	Ammoniacal Nitrogen	APHA 4500 NH_3 - B, F. Preliminary Distillation and Phenate Method.
	Phenol	APHA 5530 B, D. Preliminary Distillation and Direct-Photometric Method
	Free Chlorine	APHA 4500 CL- F. DPD Ferrous Titrimetric Method
	Sulphide	APHA 4500- S^{2-} F. Iodometric Method
	Preliminary Treatment of Sample	APHA 3030 E. Nitric Acid Digestion APHA 3030 F. Nitric Acid & Hydrochloric Acid Digestion
	Cyanide	In-House Method EC-SM-020, based on APHA 4500 CN-E
	Formaldehyde	In-House Method EC-SM-021
	Selenium	APHA 3500 Se B (Sample Preparation) + APHA 3114 B Hydride Generation Atomic Absorption Spectrometric
	Total Phosphorus	APHA 4500 –P B(5) (Sample Preparation) & APHA 4500 –P C (Colorimetric Method)
	Total Nitrogen	In-House Method CC-SM-024 based on APHA 4500 N C

Schedule

Issue date: 13 May 2025
Valid Until: -



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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Nitrate Nitrogen (NO ₃) Nitrite Nitrogen (NO ₂)	APHA 4500 NO ₃ - E In-House Method EC-SM-030 based on APHA NO ₂ - B
	Total Dissolved Solid (TDS)/Conductivity/Salinity	In-House Method EC-SM-023 based on APHA 2510 B
	Cadmium (Cd)	APHA 3111 B. Direct Air Acetylene Flame Method
	Nickel (Ni)	
	Copper (Cu)	
	Iron (Fe)	
	Manganese (Mn)	
	Zinc (Zn)	
	Plumbum (Pb)	
	Argentum (Ag)	
	Chromium (Cr)	
	Chromium, Trivalent	In-House Method EC-SM-022 based on APHA 3111 B / APHA 3120 B & APHA 3500 Cr B
	Phosphate (PO ₄ ³⁻)	HACH Method 8048
	Sulfate (SO ₄ ²⁻)	HACH Method 8051
	Silica as SiO ₂	HACH Method 8185
	Nitrate (NO ₃ -)	HACH Method 8039
	Nitrite (NO ₂ -)	HACH Method 8507

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Aluminium (Al) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Selenium (Se) Silver (Ag) Sodium (Na) Thallium (Tl) Zinc (Zn)	APHA 3120 B (ICP–OES)
Wastewater Effluent/wastewater, And Sewage	Aluminium (Al)	APHA 3111 D. Direct Nitrous-Oxide Acetylene Flame Method
	Mercury (Hg)	APHA 3112 B. Cold-Vapor Atomic Absorption Spectrometric Method (MODIFIED).
Sediment, Sludge, Soil, Solid, Waste Samples	Aluminium (Al) Barium (Ba) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Silver (Ag) Thallium (Tl) Zinc (Zn)	USEPA 3050 B & APHA 3120 B (ICP–OES)
Environmental Monitoring Ambient Air Monitoring (tsp)	Determination of Suspended Particulate Matter in the Atmosphere (High-Volume Method) Using High Volume Sample (HVS)	USEPA 40 Part 50, Appendix B
Environmental Monitoring Chemical Exposure Monitoring	Heavy Metal – Lead	NIOSH 7082
	Heavy Metal – Mercury	NIOSH 6009
Environmental Monitoring	Particulate Matter As PM2.5	USEPA 40 Part 50, Appendix L

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Air Quality Measurement / Ambient Air Monitoring / Indoor Air Quality Monitoring	Particulate Matter As PM10	USEPA 40 Part 50, Appendix J
	Sulphur Dioxide (SO ₂)	ISC 704A (Determination of Sulphur Dioxide Content of the Atmosphere)
Environmental Monitoring Ambient Air Monitoring	Nitrogen Dioxide (NO ₂)	In-House Method based on ISC 408 (Analysis for Atmospheric Nitrogen Dioxide)
Environmental Monitoring Chemical Exposure Monitoring And Air Quality Monitoring	Cadmium, Cd	NIOSH 7048
	Chromium, Cr	NIOSH 7024
	Copper, Cu	NIOSH 7029
	Zinc, Zn	NIOSH 7030
	Ammonia	In-House Method EC-CE-009 (Based on NIOSH 6015 & APHA 4500 – NH ₃ -F)
	Chromium Hexavalent, Cr ⁶⁺	NIOSH 7600
	Aluminium (Al)	NIOSH 7301
	Antimony (Sb)	
	Arsenic (As)	
	Barium (Ba)	
	Beryllium (Be)	
	Cadmium (Cd)	
	Calcium (Ca)	
	Chromium (Cr)	
	Cobalt (Co)	
	Copper (Cu)	
	Iron (Fe)	
	Lead (Pb)	
	Lithium (Li)	
	Magnesium (Mg)	
	Manganese (Mn)	
	Molybdenum (Mo)	
	Potassium (K)	
	Nickel (Ni)	
	Selenium (Se)	
	Silver (Ag)	
	Strontium (Sr)	
	Thallium (Tl)	
	Tin (Sn)	
	Titanium (Ti)	
	Vanadium (V)	
	Zinc (Zn)	
	Benzene, Toluene, Ethylbenzene & Xylene	NIOSH 1501
Air Emission -“ Flue Gas Monitoring Dust/particulate Emission	Determination of Particulate Emissions from Stationary Sources	MS 1596:2003 Isokinetic Stack Monitoring

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Air Emission -“ Flue Gas Monitoring H ₂ SO ₄ , SO ₂	Determination of Sulfuric Acid and Sulfur Dioxide Emissions from Stationary Sources	USEPA Method-8 Isokinetic Stack Monitoring
Air Emission -“ Flue Gas Monitoring Cu, Zn, As, Sb, Pb, Cd, Hg	Determination of Metals Emissions from Stationary Sources	USEPA Method-29 Isokinetic Stack Monitoring
Air Emission -“ Flue Gas Monitoring Air Emission Monitoring	Dark Smoke	BS 2742: 2009 (Ringelman Smoke Chart)
Air Emission -“ Flue Gas Monitoring Chimney/ Stack Air Emission -“ Flue Gas Monitoring	Oxygen (O ₂), Carbon Dioxide (CO ₂), Carbon Monoxide (CO), Nitrogen Oxide (NO), Nitrogen Dioxide (NO ₂), Sulphur Dioxide (SO ₂) and Temperature	IS 008 In-House Method (Based on Gas Analyzer – Fuel efficiency monitor FEM 7 V1.3)

SCOPE OF TESTING : MICROBIOLOGICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Environment Monitoring Water Wastewater Drinking Water Potable Water Industrial Water River Water	Heterotrophic Plate Count/ Total Plate Count	APHA 9215 B (Pour Plate)
	Total Coliform	APHA 9222 B (Membrane Filtration Technique)
	Total Fecal Coliform Count	APHA 9222 D (Membrane Filtration Technique)
	E-coli Count	APHA 9222 G Membrane Filtration Technique)
	Legionella spp	APHA 9260 J (Detection)
Environment Monitoring Marine Water Estuarine Water Coastal Water	Total Coliform	APHA 9222 B (Membrane Filtration Technique)
	Total Fecal Coliform Count	APHA 9222 D (Membrane Filtration Technique)
	E-coli Count	APHA 9222 G Membrane Filtration Technique)
Environment Monitoring Clean Room Assessment	Total Bacterial Count	In House Method based on NIOSH 0800 (Tryptic Soy Agar (TSA))
	Total Fungal Count	In House method based on NIOSH 0800 (Sabouraud Dextrose Agar (SDA))

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SITE LOCATION (HQ)	1. CATEGORY I
FIELD(S) OF TESTING :	CHEMICAL,MICROBIOLOGICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Environmental Monitoring Noise Level Measurement At Construction/open Site	Noise Level	ISO 1996-1:2016 (E)
Environmental Monitoring Vibration Level Measurement At Construction/open Site	Vibration Level	In-House Method EC-VB-001, based on BS 5228: Part 1 (1997)
Environmental Monitoring Air Quality Measurement/ambient Air Monitoring/indoor Air Quality Monitoring	Measurement of Carbon Dioxide (CO ₂)	In-House Method EC-IAQ-01 (based on Manufacturer Measurement Procedure) – TSI TA465-P (Air Flow) and TSI 982 Probe
	Measurement of Air Velocity in Ducting	In-House Method EC-IAQ-02 (based on Manufacturer Measurement Procedure) – TSI TA465-P (Air Flow) and TSI 966 probe
	Measurement of Respirable Particulate/Particulate Less than 10 Micron	In-House Method EC-IAQ-08 (based on Manufacturer Measurement Procedure) – TSI Dusttrak
	Measurement of Ozone (O ₃) Concentration	In-House Method EC-IAQ-04 (based on Manufacturer Measurement Procedure) – Aeroqual Ozone Meter & Sensor
	Measurement of Formaldehyde concentration.	In-House method EC-IAQ-05 (based on manufacturer measurement procedure) – Formaldemeter™ htv-m
Environmental Monitoring Wastewater Effluent/wastewater, Potable And Domestic/industrial Water And Sewage	Temperature (On Site)	APHA 2550 B
	pH (On Site)	APHA 4500 H ⁺ B
	Dissolved Oxygen (On Site)	APHA 4500 O G
Air Emission -“ Flue Gas Monitoring Nox	Measurement of Total Volatile Organic Compound (TVOC)	In-house method EC-IAQ-06 (based on manufacturer measurement procedure) Mini RAE Lite PGM 7300
	Determination of Nitrogen Oxides Emissions from Stationary Sources	In-House method IS 008 based on Gas Analyzer – Fuel Efficiency Monitor FEM-7 V1.3)

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SCOPE OF TESTING : MICROBIOLOGICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Environment Monitoring Clean Room Assessment	Total Bacterial Count	In House Method based on NIOSH 0800 (Tryptic Soy Agar (TSA))
	Total Fungal Count	In House method based on NIOSH 0800 (Sabouraud Dextrose Agar (SDA))