

Schedule

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LABORATORY LOCATION/ CENTRAL OFFICE:	UiTM-A & A Laboratory, A & A Scientific Resources Sdn Bhd Bangunan Makmal Penyelidikan Alam Sekitar Kolej Kediaman Kenanga 2, Zon C Jalan Bernas 1/10 D Universiti Teknologi Mara, , 40450, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	24 NOVEMBER 1995
FIELD(S) OF TESTING:	CHEMICAL MICROBIOLOGICAL
SITE:	
1 . SITE LABORATORY(HQ) :	Category 1, Bangunan Makmal Penyelidikan Alam Sekitar Kolej Kediaman Kenanga 2, Zon C Jalan Bernas 1/10 D Universiti Teknologi Mara, 40450 Shah Alam, Selangor, MALAYSIA
FIELD(S) OF TESTING :	CHEMICAL,MECHANICAL

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:	UiTM-A & A Laboratory, A & A Scientific Resources Sdn Bhd Bangunan Makmal Penyelidikan Alam Sekitar Kolej Kediaman Kenanga 2, Zon C Jalan Bernas 1/10 D Universiti Teknologi Mara, , 40450, 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
Environmental Monitoring Industrial Effluent- Waste Water	pH	APHA 4500 - H ⁺ B (2023)
	Temperature	APHA 2550 (2023)
	BOD ₅	APHA 5210B (2023)
	COD	APHA 5220B (2023)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Ammoniacal Nitrogen	APHA 4500-NH3 B (2023)
	Total Suspended Solids	APHA 2540 D (2023)
	Total Solids	APHA 2540 B (2023)
	APHA 2540 B (2023)	APHA 5520 B, D (2023)
	Dissolved Oxygen	APHA 4500 - O G (2023)
	Cadmium	APHA 3111-B, APHA- 3030 F (2023)
	Copper	
	Iron	
	Nickel	
	Lead	
	Manganese	
	Zinc	
	Boron	APHA 4500 – B C (2023)
	Arsenic	APHA 3114 - B (2023)
	Chromium (VI)	APHA 3500 - Cr B (2023)
	Phenol	APHA 5530 A, B, C (2023)
	Cyanide	APHA 4500-CN, C, D (2023)
	COD, Closed Reflux	APHA 5220 C, (2023)
	Silver (Ag)	APHA 3111-B, (2023) APHA 3011-B, (2023)
	Selenium (Se)	APHA 3500-Se C, (2023)
	Formaldehyde	In-house Method LTM 1.18 based on Merck Application Note, UV-Vis Spectroscopy by Christopher Lynch, Perkin Elmer USA (2009)
	Color	APHA 2120 F, (2023)
	Nitrite, NO ₂ ⁻	APHA 4500- NO ₂ ⁻ B, (2023)
	Nitrate, NO ₃ ⁻	APHA 4500- NO ₃ ⁻ B (2023)
	Chloride	APHA 4500 - Cl ⁻ B (2023)
	Fluoride	APHA 4500 - F ⁻ D (2023)
	Chlorine (Residual)	APHA 4500 - Cl B (2023)
	Phosphorus	APHA 4500 – P B, C (2023)
	Potassium	APHA 3500 - K B (2023) APHA 3030 - B (2023)
	Sodium	APHA 3500 - Na B (2023) APHA 3030 - B (2023)
	Sulphide	APHA 4500 - S ²⁻ C (2023) APHA 4500 - S ²⁻ F (2023)
	Mercury	APHA 3112 - B (2023)
	Turbidity	APHA 2130 - B (2023)
	Total Chromium	APHA 3111 - B(2023) APHA 3030 - F (2023)
	Calcium & Calcium Hardness	APHA 3500 - Ca B (2023)
	Hardness	APHA 2340 - C (2023)
	Magnesium	APHA 3500 - Mg B (2023)
	Sulphate	APHA 4500 - SO ₄ ²⁻ E (2023)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Tin	In-House Method LTM 1.13 based on MH15 Mercury Hydride System (Perkin Elmer) (2023)
Environmental Monitoring Rubber And Palm Oil Effluents	BOD ₃	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluent (ALT) 4th. Edition (2019) Department of Environment Malaysia
	COD	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluent (REF) (ALT) 4th. Edition (2019) Department of Environment Malaysia
	Ammoniacal Nitrogen	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluent (REF) 4th. Edition (2019) Department of Environment Malaysia
	Total Kjeldahl Nitrogen	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluent (REF) 4th. Edition (2019) Department of Environment Malaysia
	Total Suspended Solids	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluent (ALT) 4th. Edition (2019) Department of Environment Malaysia
	Oil and Grease	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluent (REF) 4th. Edition (2019) Department of Environment Malaysia
Water Water- River Water, Drinking Water, Ground Water	pH	APHA 4500 - H ⁺ B (2023)
	Temperature	APHA 2550 (2023)
	BOD ₅	APHA 5210B (2023)
	COD	APHA 5220B (2023)
	Ammoniacal Nitrogen	APHA 4500-NH ₃ B (2023)
	Total Suspended Solids	APHA 2540 D (2023)
	Total Solids	APHA 2540 B (2023)
	Oil and Grease	APHA 5520 B, D (2023)
	Dissolved Oxygen	APHA 4500 - O G (2023)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Cadmium	APHA 3111-B, APHA- 3030 F (2023)
	Copper	
	Iron	
	Nickel	
	Lead	
	Manganese	
	Zinc	
	Boron	APHA 4500 – B C (2023)
	Arsenic	APHA 3114 - B (2023)
	Chromium (VI)	APHA 3500 - Cr B (2023)
	Phenol	APHA 5530 A, B, C (2023)
	Cyanide	APHA 4500-CN, C, D (2023)
	COD, Closed Reflux	APHA 5220 C, (2023)
	Silver (Ag)	APHA 3111-B, (2023) APHA 3011-B, (2023)
	Selenium (Se)	APHA 3500-Se C, (2023)
	Formaldehyde	In-house Method LTM 1.18 based on Merck Application Note, UV-Vis Spectroscopy by Christopher Lynch, Perkin Elmer USA (2009)
	Color	APHA 2120 F, (2023)
	Nitrite, NO ₂ -	APHA 4500- NO ₂ - B, (2023)
	Nitrate, NO ₃ -	APHA 4500- NO ₃ - B (2023)
	Chloride	APHA 4500 - C ⁻ B (2023)
	Fluoride	APHA 4500 - F ⁻ D (2023)
	Chlorine (Residual)	APHA 4500 - Cl B (2023)
	Phosphorus	APHA 4500 – P B, C (2023)
	Potassium	APHA 3500 - K B (2023) APHA 3030 - B (2023)
	Sodium	APHA 3500 - Na B (2023) APHA 3030 - B (2023)
	Sulphide	APHA 4500 - S ²⁻ C (2023) APHA 4500 - S ²⁻ F (2023)
	Mercury	APHA 3112 - B (2023)
	Turbidity	APHA 2130 - B (2023)
	Total Chromium	APHA 3111 - B(2023) APHA 3030 - F (2023)
	Calcium & Calcium Hardness	APHA 3500 - Ca B (2023)
	Hardness	APHA 2340 - C (2023)
	Magnesium	APHA 3500 - Mg B (2023)
	Sulphate	APHA 4500 - SO ₄ ²⁻ E (2023)
	Tin	In-House Method LTM 1.13 based on MH15 Mercury Hydride System (Perkin Elmer) (2023)
Water Water	a) Aluminium	APHA 3500 AL B (Eriochrome Cyanine R)
	b) Chlorophyll-a	APHA 10150 B (Trichromatic Method)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Industrial Hygiene Air Sample (analysis Only) Charcoal Tube	Methanol	NIOSH 2000, Issue 3, using Gas Chromatography FID
Industrial Hygiene Charcoal Tube	Ethanol, 2-Propanol	NIOSH 1400, Issue 2, using Gas Chromatography FID
	n-Hexane	NIOSH 1500, Issue 3, using Gas Chromatography FID
	Acetone	NIOSH 1300, Issue 2, using Gas Chromatography FID
	Hydrocarbon Aromatic (BTEX) (Benzene, toluene, ethylbenzene, o-xylene, m-xylene, p-xylene)	NIOSH 1501, Issue 3, using Gas Chromatography FID
Stack Monitoring (analysis Only) Solutions	a) Hydrogen Chloride	APHA IC 12203-01-68T
	b) Hydrogen Sulfide	USEPA Method 11
Stack Monitoring (analysis Only) Solid Sorbent Tube (hopcalite)	d) Mercury	NIOSH 6009
Stack Monitoring (analysis Only) Cellulose Thimble	e) Cadmium	In-house Method LTM 1.52 based on APHA IC 12110-02-73T APHA 3030 F (Sample Preparation)
	f) Lead	In-house Method LTM 1.53 based on APHA IC 12128-02-73T APHA 3030 F (Sample Preparation)
	g) Manganese	In-house Method LTM 1.54 based on APHA IC 12132-02-73T APHA 3030 F (Sample Preparation)
	h) Arsenic	In-house Method LTM 1.55 based on NIOSH 7900
	i) Copper	In-house Method LTM 1.56 based on APHA IC 12114-01-73T APHA 3030 F (Sample Preparation)
	j) Nickel	In-house Method LTM 1.57 based on APHA IC 12136-01-73T APHA 3030 F (Sample Preparation)
	k) Zinc	In-house Method LTM 1.58 based on APHA IC 12167-01-73T APHA 3030 F (Sample Preparation)
Soil	pH	MS 678: Part 1:1980
Solutions, Cellulose Thimble	c) Hydrogen Fluoride	USEPA Method 13A

SCOPE OF TESTING : MICROBIOLOGICAL

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Industrial Hygiene Indoor Air	a) Air Monitoring for Total Bacteria Count	NIOSH Manual of Analytical Method 0800: Bioaerosol Sampling (Indoor Air) (Issue 1:15 January 2023)
	b) Air Monitoring for Total Fungus Count	NIOSH Manual of Analytical Method 0800: Bioaerosol Sampling (Indoor Air) (Issue 1:15 January 2023)
Water Drinking Water, Potable Water And Processed Water, Mineral Water, Ground Water And River Water	a) Total Coliform (Membrane filtration)	In-house Method LTM 9.1 based on APHA 9222 B (2023)
	b) E. coli (Membrane filtration)	In-house Method LTM 9.2 based on APHA 9222 B (2023)
	c) Faecal coliform (Membrane filtration)	APHA 9222 D (2023)
	d) Faecal streptococcus (Membrane filtration)	APHA 9230 C (2023)
	e) Enterococci (Membrane filtration)	APHA 9230 C (2023)
	f) <i>Pseudomonas aeruginosa</i> (Membrane filtration)	APHA 9213 E (2023)

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FIELD(S) OF TESTING :	CHEMICAL, MECHANICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Environmental Monitoring Water- Waste Water, River, Drain, Sea, Ground And Boiler Water	pH	APHA 4500 - H ⁺ B (2023)
	Temperature	APHA 2550 (2023)
	Dissolved Oxygen	APHA 4500 – OG (2023)
	Dissolved Oxygen/Salinity/ Temperature	In-house method SM 4.4 based on YSI PRO 2030 User Manual
	Conductivity	APHA 2520 B
	Total Dissolved Solids	In house method SM 4.6 based on EUTECH Cyberscan Con 11 User Manual
Environmental Monitoring Ambient Air Monitoring	Total Suspended Particulate	APHA 1C 11101-01-70T
	PM10	EPA Appendix J to Part 50
	Nitrogen Dioxide	APHA IC 42602 03-73T
	Sulfur Dioxide	APHA IC 42401 01-69T
	a) PM 2.5/ PM 10/ TSP	In-house Method SM 3.5 based on Airmetrics Minivol Portable Air Sampler Manual
	b) PM 2.5 & PM 10	In-house Method SM 3.8 based on Thermo Environmental Instrument Combined Sampler TEI-451 Manual
	c) Ozone	In-house Method SM 3.7 based on Series 500 User Guide. Aeroqual Manufacturer
Environmental Monitoring Stack Monitoring	d) Carbon Monoxide	In-house Method SM 3.6 based on Carbon Monoxide Detector Tube Instruction Manual Kitagawa Manufacturer
	Isokinetic Stack Monitoring Particulate Matter	MS 1596:2003
	Measurement of CO ₂ , CO, O ₂ , NO, NO ₂ , SO ₂ , H ₂ S using Portable Gas Analyzer	In-house Method SM 2.5 based on Fuel Efficiency Monitor Model FEM7 v.2.0 Technovation Analytical Instrumental.

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	I) Dark Smoke	In-house Method SM 2.6 based on Ringelmann Smoke Chart (Revision of IC 7718) US Bureau of Mines, May 1967
Industrial Hygiene Indoor Air	a) Carbon Monoxide	In-house Method SM 11.1 based on Quest EVM-7 User Guide (2011)
	b) Carbon Dioxide	In-house Method SM 11.1 based on Quest EVM-7 User Guide (2011)
	c) Total Volatile Organic Compound (TVOC)	In-house Method SM 11.1 based on Quest EVM-7 User Guide (2011)
	d) Formaldehyde	In-house Method SM 11.2 based on PPM Formaldemeter HTV User Guide
	e) Relative Humidity	In-house Method SM 11.4 based on Pro'Skit Temperature and Relative Humidity Meter User Guide
	f) Temperature	In-house Method SM 11.4 based on Pro'Skit Temperature and Relative Humidity Meter User Guide
	g) Ozone	In-house Method SM 11.3 based on Aeoroqual Series 500 User Guide

SCOPE OF TESTING : MECHANICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Environmental Monitoring Noise Measurement	Sound Pressure Level	In-house Method SM 5.1 based on ISO 1996-1;2003-1 and ISO 1996-2; 2007
Environmental Monitoring Vibration	Vibration	In-house Method SM 6.1 based on Vibrock V901 Instruction Manual
Industrial Hygiene Indoor Air	a) Air monitoring for Total Bacteria Count	NIOSH Manual of Analytical Method 0800: Bioaerosol Sampling (Indoor Air) (Issue 1:15 January 2023)
	a) Air monitoring for Total Fungus Count	NIOSH Manual of Analytical Method 0800: Bioaerosol Sampling (Indoor Air) (Issue 1:15 January 2023)

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