

Schedule

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Certificate No. : LA-2018-0677-F
Issue No. : 13
Date : 23 February 2026
Certificate Expiry Date : 04 March 2030
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FIELD OF TESTING : Environmental Testing

MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT
A. INDUSTRIAL HYGIENE	1. Elements by ICP: Ag, Al, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, K, Li, Mg, Mn, Mo, Ni, Sb, Se, Sr, Sn, Ti, V, Zn	<u>All APHA methods are based on 24th Edition (2023)</u> NIOSH 7301:2003 APHA 3125B
	2. Hydrocarbons, Aromatic: Benzene, Toluene, Ethylbenzene, o-Xylene, m-Xylene, p-Xylene, Styrene	NIOSH 1501:2003
	3. Trichloroethylene	NIOSH 1022:1994
	4. Hydrocarbons, 36-216°C bp: n-heptane, n-hexane, n-pentane, cyclohexane, cyclohexene	NIOSH 1500:2003
	5. Methyl Ethyl Ketone	NIOSH 2500:1996
	6. Asbestos (bulk)	NIOSH 9002:1994 AS 4964:2004 ISO 22262-1:2012 USEPA 600 R93 116:1993
	7. Asbestos and Other Fibres by PCM	NIOSH 7400: 2019
B. INDOOR AIR QUALITY	1. Air Movement	In-house method STATS-ENV-SOP-005:2018 Rev(1)

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	2. Temperature	In-house method STATS-ENV-SOP-010:2018 Rev(1)
	3. Relative Humidity	In-house method STATS-ENV-SOP-010:2018 Rev(1)
	4. Carbon Dioxide	In-house method STATS-ENV-SOP-010:2018 Rev(1)
	5. Carbon Monoxide	In-house method STATS-ENV-SOP-010:2018 Rev(1)
	6. Respirable Suspended Particles	In-house method STATS-ENV-SOP-006:2018 Rev(1)
	7. Particulate Matter 2.5	In-house method STATS-ENV-SOP-006:2018 Rev(1)
	8. Formaldehyde	In-house method STATS-ENV-SOP-009:2018 Rev(1) In-house method STATS-ENV-SOP-017:2021 Rev(1)
	9. Total VOCs	In-house method STATS-ENV-SOP-011:2018 Rev(1)
	10. Ozone	In-house method STATS-ENV-SOP-012:2017 Rev(0)
	11. Total Viable Bacterial Count	In-house method STATS-ENV-SOP-007:2018 Rev(2)

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C. NOISE MEASUREMENT	12. Total Viable Mould Count	In-house method STATS-ENV-SOP-008:2018 Rev(2)
	1. Boundary Noise Measurement	In-house method STATS-ENV-SOP-003:2018 Rev(1)
D. WATER SAMPLES • Drinking water (potable) • Non-potable water • Fresh water • Industrial water • Wastewater, trade effluent • Ground water • RO water • DI water • Swimming pool water • Cooling tower water • Sea water • Ballast water	2. Workplace Safety and Health Noise Measurement	In-house method STATS-ENV-SOP-004:2018 Rev(1)
	1. Bromate, Chlorate, and Perchlorate	In-house method STATS-ENV-SOP-014:2018 Rev(1) (by IC)
	2. Alkalinity	APHA 2320B
	3. Biochemical Oxygen Demand (BOD)	APHA 5210B
	4. Bromide	APHA 4110B
	5. Chemical Oxygen Demand (COD)	HACH 8000:2014 edition 12
	6. Chloride	APHA 4110B
	7. Chlorine as Cl ₂ (Residual)	DPD Method 8167:2018
	8. Chlorophyll-a	APHA 10150B
	9. Colour	APHA 2120C
	10. Conductivity	APHA 2510B
	11. Detergent (MBAS)	APHA 5540C
	12. Dissolved / Dispersed Petroleum Hydrocarbons (DDPH)	IOC Manuals and Guides No. 13:1984
	13. Fluoride	APHA 4110B APHA 4500-F (C)

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	14. Nitrate	APHA 4110B
	15. Nitrite	APHA 4110B
	16. Oil and Grease (Total) • By Gravimetric • By FTIR	APHA 5520B In-house method STATS-ENV-SOP-025:2021 Rev(0) (adapted from APHA 5520C)
	17. Oil and Grease (as Hydrocarbon)	APHA 5520F
	18. Phosphate	APHA 4110B
	19. Sulphate	APHA 4110B
	20. Total Dissolved Solids (TDS)	APHA 2540C
	21. Total Suspended Solids (TSS)	APHA 2540D
	22. Total Organic Carbon (TOC)	APHA 5310B
	23. Toxicity test	Toxi-Chromo Test Kit based on Test Kit Manual, 2016
	24. Turbidity	APHA 2130B
	25. Total Ammoniacal Nitrogen (TAN)	APHA 4500-NH3 (F)
	26. Taste	APHA 2160B
	27. Appearance	APHA 2110
	28. Odour	APHA 2150B
	29. Inorganic Anions (Bromate, Chlorate, Chlorite)	USEPA 300.1 (1997)
	30. Haloacetic Acids (HAA), Monochloroacetic acid, Monobromoacetic acid, Dichloroacetic acid, Trichloroacetic acid, Total HAA5	EPA 552.2 (1995) EPA 552.3 (2003)

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E. ENVIRONMENTAL SAMPLES • Water • Soil • Sediment • Sludge	31. Total Trihalomethanes (TTHMs), Bromodichloromethane, Bromoform, Chloroform, Dibromochloromethane	EPA 8260D (2018)
	32. Acidity	APHA 2310B
	33. Salinity	APHA 2520B
	34. Total Hardness	APHA 2340B
	35. Dissolved Oxygen	APHA 4500-O (G)
	36. Total Solids	APHA 2540B
	37. Total Volatile Solids	APHA 2540E
	38. Volatile Suspended Solids	APHA 2540E
	39. UV 254 Absorbance	APHA 5910B
	40. Sulphide	APHA 4500-S (F)
	41. Hydrazine	HACH 8141
	42. Volatile Organic Acids (Total)	APHA 5560C
	43. Volatile Organic Acids	APHA 5560D
	44. Acid & Base-Neutralizing Capacities	DIN 38409-7
	1. Metals (Al, Ag, As, Au, B, Ba, Be, Ca, Cd, Cr, Co, Cu, Ga, Fe, Hg, K, Li, In, Mg, Mn, Mo, Na, Ni, Pb, Rb, Sb, Sc, Se, Sn, Sr, Si, Ti, Tl, U, V, Zn)	USEPA 3051A:2007 APHA 3120B APHA 3125B
	2. pH	APHA 4500-H+ (B) BS 1377-3:2018 + A1:2021
	3. Semi-Volatile Organic Compounds (SVOCs)	USEPA 3510C:1996 USEPA 8270E:2018 (Refer to Appendix 2 for list of compounds)
	4. Moisture Content	BS 1377-2:2022

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	5. Mass Loss on Ignition (LOI)	BS 1377-3:2018
	6. Total Petroleum Hydrocarbons (TPH) GRO: C6 – C9	USEPA 8015C:2007
	7. Total Petroleum Hydrocarbons (TPH): DRO: C10 – C36	USEPA 8015C:2007
	8. Volatile Organic Compounds (VOCs)	USEPA 5021A:2014 USEPA 8260D:2018 (Refer to Appendix 1 for list of compounds)
	9. Dioxins	Elisa Test Kit based on Test Kit Manual
	10. Cyanide	APHA 4500-CN (E)
	11. Toxicity Characteristic Leaching Procedure (TCLP) (Ag, As, Ba, Cd, Cr, Cu, Fe, Hg, Pb, Mn, Ni, Se, Zn)	USEPA 1311: 1992
	12. Organic Matter	BS EN 1377-3: 2018
	13. Leaching of Granular Waste Materials and Sludges*	BS EN 12457-1:2002
	14. Hexavalent Chromium, Cr ⁺⁶	APHA 3500-Cr (B)
	15. Particle Size Distribution	BS EN 1377-2: 2022 BS EN ISO 17892-4:2016 (Sieving and Hydrometer methods only)
	16. Particle Density (Specific Gravity)	BS EN 1377-2: 2022 BS EN ISO 17892-3:2015 (Fluid pycnometer method only)

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F WATER MICROBIOLOGY • Drinking water (potable) • Non-potable water • Fresh water • Industrial water • Wastewater, Trade Effluent • Groundwater • RO water • DI water • Swimming pool water • Cooling tower water • Seawater	1. <i>Clostridium perfringens</i>	NSM HPA Reference No. W5i3 1:2005
	2. Coliforms	APHA 9221B (MPN Method) APHA 9222B (MF Method) APHA 9222C (MF Method) APHA 9223B (Enzyme Substrate Method)
	3. <i>Enterococci</i> / <i>Faecal Streptococci</i>	APHA 9230C
	4. <i>E. coli</i>	APHA 9221F (MPN Method) APHA 9222H (MF Method) APHA 9223B (Enzyme Substrate Method)
	5. Faecal Coliforms	APHA 9221E (MPN Method) APHA 9222D (MF Method) APHA 9222E (MF Method)
	6. <i>Pseudomonas aeruginosa</i>	APHA 9213E (MF Method)
	7. <i>Salmonella</i> spp.	APHA 9274
	8. <i>Staphylococcus aureus</i>	APHA 9213B (MF Method)
	9. Total Bacteria Count	APHA 9215B (PP Method) APHA 9215C (SP Method) APHA 9215D (MF Method) ISO 6222: 1999
	10. Yeast and Mould	APHA 9610D
	11. Sulphite Reducing Anaerobes	BS EN 26461-2: 1993
	12. Legionella Test	ISO 11731: 2017
	13. Klebsiella	APHA 9222F
	14. Male-specific coliphages and somatic coliphages	EPA Method 1602
	15. Campylobacter	ISO 17995: 2019

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	16. <i>Vibrio cholerae</i> 17. <i>Shigella</i> 18. <i>Aeromonas</i> 19. <i>Enterococci</i>	APHA 9278 APHA 9276 APHA 9262 ASTM D6503-24 (Fluorogenic Substrate Method) APHA 9230D (Fluorogenic Substrate Method)

Approved Signatories			
S/N	Name		Scope
1.	Mr Lei Zhi Pei	-	For all accredited tests.
2.	Ms Doreen Keong Bee Lian	-	For all accredited tests in Sections A (excluding test A6 and A7), D, E and H only.
3.	Mr Lester Lam Kah Min	-	For all accredited tests in Sections B & C only.
4.	Mr Tan Boon Wei Ian	-	For all accredited tests in Sections B & C only.
5.	Mr Flander Moh Wei Jie	-	For all accredited test in Section F only
6.	Mr Khoo Pei Kiet	-	For all accredited test in Section F only
7.	Ms Teo Yong Min	-	For all accredited test in Section F only
8.	Ms Lee Woan Qi	-	For D11, D20, D21, D25, D41 – 44, E1
9.	Ms Meizy Clarise Hayag	-	For A1 & E1
10.	Mr Lean Chun Yew	-	For E3, E6, E7 & E8

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Note:

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025. A laboratory's fulfilment 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. 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.

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Appendix 1: Volatile Organic Compounds, VOC (USEPA 8260D)

Aromatic Compounds

Benzene
Ethylbenzene
Toluene
Xylene
Styrene

Chlorinated Hydrocarbons

Vinyl Chloride
Dichloromethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethene (cis + trans)
Dichloropropanes
Trichloromethane (Chloroform)
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Tetrachloromethane
Tetrachloroethene
Chlorobenzenes (total of 6)
Monochlorobenzene
Dichlorobenzenes (total)

Other Pollutants

Cyclohexanone
Tetrahydrofuran
Tetrahydrothiophene
Tribromomethane (Bromoform)

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Appendix 2: Semi-Volatile Organic Compounds, SVOC (USEPA 8270E)

Chlorinated Hydrocarbons

Trichlorobenzenes (total)
Tetrachlorobenzenes (total)
Pentachlorobenzenes
Hexachlorobenzenes
Chlorophenols (total of 5)
Monochlorophenols (total)
Dichlorophenols (total)
Trichlorophenols (total)
Tetrachlorophenols (total)
Pentachlorophenol
Chloronaphthalene
Monochloroanilines
Polychlorobiphenyls (total)
Trichlorobenzenes (total)
Tetrachlorobenzenes (total)

Polynuclear Aromatic HCs

Naphthalene
Anthracene
Phenanthrene
Fluoranthene
Benzo(a)anthracene
Chrysene
Benzo(a)pyrene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Indeno(1,2,3cd)pyrene
PAH (total of 10)

Pesticides

sum DDT/DDD/DDE
DDT
DDE
DDD
sum aldrin, dieldrin, endrin
Aldrin
Dieldrin
Endrin
sum HCH
a-HCH
b-HCH
g-HCH
d-HCH
Atrazine
Carbaryl
Carbofuran
Chlordane
Endosulfan
Heptachlor
Heptachlor Epoxide

Aromatic Compounds

Phenol
Cresols
Catechol
Resorcinol
Hydroquinone

Other Pollutants

Phthalates (total)
Pyridine