

NO: SAMM 612(Issue 2, 21 November 2022 replacement
of SAMM 612 dated 8 September 2022)

Page: 1 of 9

LABORATORY LOCATION:
(PERMANENT LABORATORY)

EUROFINS NM LABORATORY SDN. BHD.
NO. 27, JALAN IMPIAN EMAS 5
TAMAN IMPIAN EMAS
81300 SKUDAI
JOHOR
MALAYSIA

FIELD OF TESTING:**CHEMICAL**

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).

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring		
Palm Oil Mill Effluents / Rubber Effluents	pH	APHA 4500-H ⁺ . B
	Chemical Oxygen Demand (COD)	DOE Standard Method (Reference Method)
	Suspended Solids	DOE Standard Method (Reference Method)
	Total Solids	APHA 2540. B
	Ammoniacal Nitrogen	DOE Standard Method (Reference Method)
	Total Nitrogen	DOE Standard Method (Reference and Alternative Method)
	Oil and Grease	DOE Standard Method (Reference Method)
	BOD ₃ at 30°C	DOE Standard Method (Reference and Alternative Method)

NO: SAMM 612(Issue 2, 21 November 2022 replacement
of SAMM 612 dated 8 September 2022)

Page: 2 of 9

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring <ul style="list-style-type: none"> Water & Waste water Mixed Effluents Industrial Effluents Sewage 	pH	APHA 4500-H ⁺ . B
	BOD at 20°C for 5 days	APHA 5210. B & 4500-O. G
	Chemical Oxygen Demand (COD)	APHA 5220. B APHA 5220. C
	Total Suspended Solids	APHA 2540. D
	Total Dissolved Solid	APHA 2540. C
	Total Solid	APHA 2540. B
	Oil and Grease	APHA 5520. B
	Aluminium Antimony Arsenic Barium Boron Cadmium Calcium Chromium Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silicon Silver Sodium Zinc	APHA 3120. B APHA 3030. E
	Tin	In-house method EUJB.SOP.TM.WA.01 based on APHA 3120.B & 3030.F

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NO: SAMM 612(Issue 2, 21 November 2022 replacement
of SAMM 612 dated 8 September 2022)

Page: 3 of 9

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring (continued) <ul style="list-style-type: none"> Water & Waste water Mixed Effluents Industrial Effluents Sewage 	Mercury	APHA 3112. B
	Chromium Hexavalent	APHA 3500-Cr. B
	Chromium Trivalent	In-house method EUJB.SOP.TM.WA.02 (By calculation based on APHA 3120. B & 3500-Cr. B)
	Fluoride	APHA 4500-F ⁻ . C
	Chloride (Cl ⁻)	APHA 4500.B Cl ⁻ Argentometric method
	Color	APHA 2120. F
	Color (CU/TCU)	APHA 2120 C (Proposed)
	Formaldehyde	HACH 8110
	Free Chlorine	APHA 4500-Cl. G
	Sulphide	APHA 4500-S ²⁻ . D
	Sulphate (SO ₄)	APHA 4500-SO ₄ ²⁻ . E
	Cyanide	APHA 4500-CN ⁻ . C & E
	Phenol	APHA 5530. B APHA 5530. C
	Ammoniacal Nitrogen	APHA 4500-NH ₃ . B & C
	Temperature	APHA 2550. B (Part 1)
	Nitrate	APHA 4500-NO ₃ ⁻ . D
	Nitrite (NO ₂)	APHA 4500-NO ₂ ⁻ . B
	Phosphorus	APHA 4500-P. B (Part 4) APHA 4500-P. C

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NO: SAMM 612(Issue 2, 21 November 2022 replacement
of SAMM 612 dated 8 September 2022)

Page: 4 of 9

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring (continued) <ul style="list-style-type: none"> Water & Waste water Mixed Effluents Industrial Effluents Sewage 	Anions Fluoride Chloride Nitrite Nitrate Bromide Sulphate Phosphate	APHA 4110 B
<ul style="list-style-type: none"> Water & Waste Water Mixed Effluents Industrial Effluents Sewage Marine Water River Water 	Turbidity Conductivity Salinity DO (Dissolved Oxygen)	APHA 2130. B APHA 2510. B APHA 2520. B APHA 4500-O. G
<ul style="list-style-type: none"> Mixed Liquor Waste Water Activated Sludge Industrial Waste 	Suspended Solids in mixed liquor (MLSS) Fixed and Volatile Solids Ignited at 550°C Volatile Suspended Solids in mixed liquor (MLVSS)	APHA 2540. D APHA 2540. E APHA 2540. D & APHA 2540. E
Water <ul style="list-style-type: none"> Drinking Water Cooling Tower Water Boiler Water Ground Water 	Total Dissolved Solids Acidity Alkalinity (as CaCO ₃) Total Hardness (as CaCO ₃)	APHA 2540. C APHA 2310. B APHA 2320. B APHA 2340. B
Pure & Ultrapure Water	Silica	HACH 8282

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NO: SAMM 612(Issue 2, 21 November 2022 replacement
of SAMM 612 dated 8 September 2022)

Page: 5 of 9

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring <ul style="list-style-type: none"> Aqueous samples Aqueous extracts Aqueous wastes 	Aluminium Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium Tin Titanium Vanadium Zinc	USEPA 6010D

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NO: SAMM 612(Issue 2, 21 November 2022 replacement
of SAMM 612 dated 8 September 2022)

Page: 6 of 9

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring Solid and Semisolid Waste, Sediments, Sludge and Soils	Sample pretreatment for determination of: Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	USEPA 3050B
<ul style="list-style-type: none"> Stack Gas Emission from Stationary Sources 	Determination of Concentration & Mass Flow of Particulate Matter in Flue Gas for stationary Emission	MS 1596:2003 (Gravimetry)
Emission from Stationary Sources	Particulate Matter	USEPA 40 CFR 60, App. A, Method No. 5 (Analytical)
	Sulfuric Acid (including Sulfur Trioxide)	USEPA 40 CFR 60, App. A, Method No. 8 (Analytical)
	Hydrogen Chloride Hydrogen Fluoride Chlorine	USEPA 40 CFR 60, App. A, Method No. 26A (Ion Chromatography)

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NO: SAMM 612(Issue 2, 21 November 2022 replacement
of SAMM 612 dated 8 September 2022)

Page: 7 of 9

SCOPE OF TESTING: CHEMICALNote:

<u>DOE Standard Method</u>	:	<u>Department of Environment, Revised Standard Methods (1985) for Analysis of Rubber and Palm Oil Mill Effluent, 3rd Edition: 2011</u>
APHA	:	American Public Health Association, Standard Methods for the Examination of Water and Waste Water, 21 st Edition: 2005
MS	:	Malaysian Standard
USEPA	:	United State Environmental Protection Agency

Signatories:

1.	Choo Hui Siang	IKM No.: M/3132/4640/04/11	
2.	Tan Kiven	IKM No.: M/4762/7859/17	
3.	Muhammad Farhan bin Zainal	IKM No.: M/4785/7888/17	
4.	Nor Syahirah binti Misni	IKM No.: L/2783/8240/18	
5.	Anisah binti Aminuddin	IKM No.: M/5939/9537/22	(Non-resident)
6.	Yeap Cheo Mooi	IKM No.: M/1913/4300/2002	(Non-resident)
7.	Dr. Koh Yew Ming	IKM No.: F/0121/4003/99/19	(Non-resident)

NO: SAMM 612(Issue 2, 21 November 2022 replacement
of SAMM 612 dated 8 September 2022)

Page: 8 of 9

SCOPE OF TESTING: CHEMICAL**SITE: CATEGORY I**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring <ul style="list-style-type: none"> • Palm Oil Mill Effluents • Rubber Effluents • Water & Waste water • Mixed Effluents • Industrial effluents • Sewage 	<p>pH (In situ)</p> <p>Temperature (In-situ)</p>	<p>APHA 4500-H⁺. B</p> <p>APHA 2550. B (Part 1)</p>
Acoustics Noise	Measurement & assessment of Environment Noise	ISO 1996-1:2003
<ul style="list-style-type: none"> • Stack Gas • Emission from Stationary Sources 	Dark Smoke	BS 2742:2009
	Determination of Concentration & Mass Flow of Particulate Matter in Flue Gas for stationary Emission	MS 1596:2003
	Carbon Dioxide (CO ₂) Oxygen O ₂	USEPA 40 CFR 60, App. A, Method 3A
	Sulfur Dioxide (SO ₂) Nitrogen Dioxide (NO _x) Carbon Monoxide (CO)	USEPA 40 CFR 60, App. A, Method 6C USEPA 40 CFR 60, App. A, Method 7E USEPA 40 CFR 60, App. A, Method 10

NO: SAMM 612(Issue 2, 21 November 2022 replacement
of SAMM 612 dated 8 September 2022)

Page: 9 of 9

SCOPE OF TESTING: CHEMICAL**SITE: CATEGORY I**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring <ul style="list-style-type: none"> Industrial Effluents Water & Waste water Drinking Water 	Free Chlorine (In-situ)	In-house method EUJB.SOP.TM.FW.WA.03 based on APHA 4500-Cl.G

Note:

APHA : American Public Health Association, Standard Methods for the Examination of Water and Waste Water, 21st Edition: 2005

ISO : International Organisation for Standardization

USEPA : United State Environmental Protection Agency

BS : British Standard

Signatories:

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|----|---|-----------------------------------|-----------------------|
| 1. | Choo Hui Siang | IKM No.: M/3132/4640/04/11 | |
| 2. | Tan Kiven | IKM No.: M/4762/7859/17 | |
| 3. | Muhammad Farhan bin Zainal | IKM No.: M/4785/7888/17 | |
| 4. | Chai Jian Yeow | IKM No.: L/3090/9163/21 | |
| 5. | Yeap Cheo Mooi | IKM No.: M/1913/4300/2002 | (Non-resident) |
| 6. | Muhamad Khairil Zahidi bin Zakaria | IKM No.: L/2639/7828/17 | (Non-resident) |
| 7. | Dr. Koh Yew Ming | IKM No.: F/0121/4003/99/19 | (Non-resident) |