

# Schedule


Issue date: 03 March 2026  
Valid Until: -



## NO: SAMM 053

(Issue 2, 03 March 2026 replacement of SAMM 053 dated 11 March 2024)

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<b>LABORATORY LOCATION/ CENTRAL OFFICE:</b>	Petronas Research Sdn Bhd Project Delivery & Technology (PD&T) Division Lot 3288 & 3289, Off Jalan Ayer Itam, Kawasan Institusi Bangi, 43000 Kajang, Selangor , 43000, SELANGOR MALAYSIA
	
<b>ACCREDITED SINCE :</b>	30 SEPTEMBER 1994
<b>FIELD(S) OF TESTING:</b>	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).

<b>CENTRAL LOCATION:</b>	Petronas Research Sdn Bhd Project Delivery & Technology (PD&T) Division Lot 3288 & 3289, Off Jalan Ayer Itam, Kawasan Institusi Bangi, 43000 Kajang, Selangor , 43000, Selangor
<b>FIELD(S) OF TESTING :</b>	CHEMICAL,

### SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
<b>Petroleum &amp; Petroleum Products</b> Crude Petroleum	Kinematic Viscosity of Transparent and Opaque Liquids (the Calculation of Dynamic Viscosity)  Acid Number of Petroleum Products by Potentiometric Titration	ASTM D 445  ASTM D664 (Procedure A)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Water in Crude Oils by Coulometric Karl Fischer Titration	ASTM D 4928
	Water in Crude Oil by Distillation	ASTM D4006
	Density, Relative Density, and API Gravity of Crude Oils by Digital Density Analyzer	ASTM D 5002
	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method	ASTM D1298
<b>Water</b> - Formation Water - Produced Water - Potable Water	Determination of Asphaltenes (Heptane Insolubles) in Crude Petroleum and Petroleum Products	ASTM D 6560
	Water and Sediment in Crude Oil by the Centrifuge Method (Laboratory Procedure)	ASTM D4007
	Boiling Point Distribution of Samples with Residues such as Crude Oils and Atmospheric and Vacuum Residues by High Temperature Gas Chromatography	ASTM D 7169
	Density and Relative Density of Liquids by Digital Density Meter	ASTM D4052
	Alkalinity	APHA 2320 B (Titration Method)
	Chloride	APHA 4500 Cl- B (Argentometric Method)
	pH Value	APHA 4500-H+ B (Electrometric Method)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
<b>Water</b> - Formation Water - Produced Water	Metal Content: • Iron, Fe • Sodium, Na • Calcium, Ca • Magnesium, Mg • Potassium, K • Strontium, Sr • Barium, Ba	APHA 3120 B - ICP - OES
	Total Dissolved Solid Dried at 180 °C	APHA 2540 C
<b>Environmental Monitoring</b> Waste Water	Solids – Total Suspended Solids Dried at 103 – 105°C	APHA 2540 D
	pH Value	APHA 4500-H+ B (Electrometric Method)
	Chemical Oxygen Demand	In-house method based on APHA 5220 D (Closed Reflux, Colorimetric Method)
	Chromium Hexavalent	In-house method based on APHA 3500-Cr B (Colorimetric Method)
	Phenol	In-house method based on APHA 5530 C (Chloroform Extraction Method)

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