

## 10.6 Schedule of Accreditation

Issue No: 2 / Issue Date: 10.09.2017  
Accreditation Manager: Atta Subhan



### GEO-CHEM Middle East Laboratory No. ATL0015

is accredited by the GCC Accreditation Center (GAC) in accordance with the recognised International Standard ISO/IEC 17025:2005, “General requirements for the competence of testing and calibration laboratories”

GEO-CHEM Middle East Laboratory	
Issue No: 2	Issue Date: 10 September 2017
Address. Geochem Middle East, P.O. Box 2209, National Industries Park, South Freezone, Dubai, UAE	Contact: Dr. Sunil Kumar Tel: +97148867400 Fax: +97148867401 Email: <a href="mailto:sunil.kumar@geochemglobal.com">sunil.kumar@geochemglobal.com</a> Web Address: <a href="http://www.geochem.ae">www.geochem.ae</a>

#### Locations where testing activities covered by the above Accreditation Standard are undertaken

1- **address:** Geochem Middle East, P.O. Box 2209, National Industries Park, South Freezone, Dubai, UAE

#### For the following scope:

Version: 2

Date: 05 January 2016

Approved by: Brahim Houla

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### Scope:

#### 7 Chemical Testing

7.21 Miscellaneous petroleum products  
7.66 Waters

#### 8 Biological Testing

8.11 Microbiological tests on foods  
8.18 Microbiological tests for monitoring defined environments

Scope details are as follows:

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ACCREDITED  
**TESTING**  
ISO/IEC 17025:2005  
No. ATL 0015

TEST CATEGORY	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED
Microbiological Testing	Drinking Water/Water/ Wastewater Clean & Unclean waters	HPC	APHA 9215D & B, 22 <sup>nd</sup> Ed. 2012
		Enumeration of Total Coliforms	APHA 9222 B, 22 <sup>nd</sup> Ed. 2012
		Enumeration of E. coli	APHA 9222 B, 22 <sup>nd</sup> Ed. 2012
		Enumeration of Pseudomonas aeruginosa	APHA 9213 E, 22 <sup>nd</sup> Ed. 2012
		Enumeration of Fecal streptococcus	APHA 9230 C, 22 <sup>nd</sup> Ed. 2012
		Enumeration of Legionella	APHA 9260 J/ ISO 11731-2017
		Enumeration of Fecal coliform	APHA 9222 D, 22 <sup>nd</sup> Ed. 2012
	Food (including dairy foods)	TPC (Pour plate technique)	USFDA Chapter 3 / CCFRA 1.1.1
		Enumeration of Coliforms & E-coli (MPN & Solid medium method)	USFDA Chapter 4, 2013
		Detection of E-coli 0157: H7	GC-SOP-180 (Neogen Reveal Kit)
		Yeast & Mold (Spread plate technique)	USFDA Chapter 18, 2001
		Detection of Salmonella	USFDA Chapter 5, 2016
		Detection of Vibrio parahaemolyticus	USFDA Chapter 9, 2004
		Enumeration of Listeria monocytogenes	CCFRA 3.2.1 : 2007
		Detection of Listeria monocytogenes	CCFRA 3.2.4 : 2007
		Enumeration of Bacillus cereus	USFDA Chapter 14, 2012
		Enumeration of Staphylococcus aureus	USFDA Chapter 12, 2016
	Swab (Hand & Surfaces)	Detection of Staphylococcus aureus	GC-SOP-192
		Detection of Total coliforms	
		Detection of E. coli	

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<b>Chemical Testing (Water Chemistry)</b>	<b>Waste Water/ Irrigation Water</b>	pH	APHA 4500H+B, 22 <sup>nd</sup> Ed. 2012
		Total Suspended Solids	APHA 2540 D, 22 <sup>nd</sup> Ed. 2012
		Total Dissolved Solids	APHA 2540C, 22 <sup>nd</sup> Ed. 2012
		Oil & Grease	APHA 5520 B, 22 <sup>nd</sup> Ed. 2012
		Chemical Oxygen Demand	APHA 5220 B, 22 <sup>nd</sup> Ed. 2012
		Chemical Oxygen Demand	APHA 5220 D, 22 <sup>nd</sup> Ed. 2012
		Biological Oxygen Demand	APHA 5210 B, 22 <sup>nd</sup> Ed. 2012
		Metals: Copper, Cadmium, Zinc, Nickel, Chromium, Lead, Cobalt, Manganese, Silver, Iron	APHA 3120B/ APHA 3030 F, 22 <sup>nd</sup> Ed. 2012
	<b>Drinking Water /Portable water</b>	pH	APHA 4500H+B, 22 <sup>nd</sup> Ed. 2012
		Conductivity	APHA 2510B, 22 <sup>nd</sup> Ed. 2012
		Turbidity	APHA 2130B, 22 <sup>nd</sup> Ed. 2012
		Total Dissolved Solids	APHA 2540C, 22 <sup>nd</sup> Ed. 2012
		Chloride	APHA 4500Cl <sup>-</sup> B, 22 <sup>nd</sup> Ed. 2012
		Sulphate	APHA 4500 SO <sub>4</sub> <sup>2-</sup> C, 22 <sup>nd</sup> Ed. 2012
		Nitrate	APHA 4500 NO <sub>3</sub> <sup>2-</sup> B, 22 <sup>nd</sup> Ed. 2012
		Fluoride	APHA 4500F·D, 22 <sup>nd</sup> Ed. 2012
		Carbonate	APHA 2320B, 22 <sup>nd</sup> Ed. 2012
		Bicarbonate	APHA 2320B, 22 <sup>nd</sup> Ed. 2012
		Total Alkalinity	APHA 2320 B, 22 <sup>nd</sup> Ed. 2012
		Calcium	APHA 3500CaB, 22 <sup>nd</sup> Ed. 2012
		Magnesium	APHA 3500Mg.B, 22 <sup>nd</sup> Ed. 2012
		Total Hardness	APHA 2340 B, 22 <sup>nd</sup> Ed. 2012
		Chloride	APHA 4110B, 22 <sup>nd</sup> Ed. 2012
		Sulphate	APHA 4110B, 22 <sup>nd</sup> Ed. 2012
		Bromide	USEPA 300.1
		Bromate	USEPA 300.1

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		Calcium	APHA 3120B/ APHA 3030 F, 22 <sup>nd</sup> Ed. 2012
		Iron	
		Magnesium	
		Potassium	
		Sodium	
	Swimming pool water	pH	APHA 4500H+B, 22 <sup>nd</sup> Ed. 2012
		Total Dissolved Solids	APHA 2540 C, 22 <sup>nd</sup> Ed. 2012
		Total Hardness	APHA 2340 B, 22 <sup>nd</sup> Ed. 2012
		Total Alkalinity	APHA 2320 B, 22 <sup>nd</sup> Ed. 2012
Chemical Testing (Petroleum chemistry)	Transformer Oil	Kinematic viscosity	ASTM D 445, ISO 3104
		Sulphur (Energy Dispersive X-ray Fluorescence Spectrometry)	ASTM D 4294, ISO 20847
		Pour Point	ASTM D 97, ISO 3016
		Flash Point (Pensky-Martens) Closed cup Tester	ASTM D 93, ISO 2719
		Flash Point (Cleveland) Open cup Tester	ASTM D 92
		Density and Relative Density by Digital Density Meter	ASTM D 4052, ISO 12185
		Density and Relative Density by Hydrometer Method	ASTM D 1298, ISO 3675
		Interfacial Tension of Oil against water	ASTM D 971
		Corrosive Sulfur	ASTM D 1275
		Covered Conductor Deposition Test(CCD)	ISO 62535
		Specific Resistance (Resistivity)	ASTM D 1169, IEC 60247
		ASTM Colour	ASTM D 1500
		Colour	ISO 2049
		Dielectric Dissipation Factor	ASTMD 924, IEC 60247
		Acid and Base Number	ASTM D 974
		Acidity (Automatic Potentiometric)	IEC 62021-1
		Sludge and Sediment	IEC 61125

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		Oxidation Stability	IEC 61125
		Water Content Coulometric Karl Fischer Titration	IEC 60814, ASTM D 1533
		Breakdown Voltage(BDV)	ASTM D1816, ASTM D 877
		Breakdown Voltage(BDV)	IEC 60156
		Anti-Oxidant Additives	IEC 60666, ASTM D 2668
		Furanic Compounds	ASTM D 5837, IEC 61198
		Polychlorinated Biphenyls(PCB)	ASTM D 4059, IEC 61619
		Dissolved Gas Analysis(DGA)	ASTM D 3612C, IEC 60567
		Particle sizing	IEC 60970
		Metals (Aluminum, Copper, Chromium, Iron, Lead, Nickel, Sodium, Silicon, Tin, Cadmium, Silver, Titanium, Vanadium, Zinc, Sodium, Potassium, Magnesium, Manganese, Molybdenum, Boron, Barium, Calcium)	ASTM D 5185
		Estimated Degree of Polymerization	Chendong Model
		Estimated Degree of Polymerization	De Pablo Model
		Estimated Degree of Polymerization	Pahlavanpour Model
		Dibenzyl Disulfide(DBDS)	IEC 62697-1
	<b>Gas</b>	Analysis of Natural Gas	ASTM D 1945
		Analysis of Natural Gas	GPA 2286
	<b>Lubricating Oil</b>	Kinematic Viscosity@40°C	ASTM D 445
		Kinematic Viscosity@100°C	
	<b>Residual Fuel Oil</b>	Kinematic Viscosity@ 50°C	
	<b>Lubricating Oil, Bitumen</b>	Flash Point (Cleveland) Open Cup Tester	ASTM D 92
	<b>Lubricating Oil, Residual Fuel Oil, Cutback residue</b>	Flash Point (Pensky-Martens) Closed Cup Tester	ASTM D 93
	<b>Lubricating Oil</b>	Flash Point Small Scale Closed Cup Tester	ASTM D 3828

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		Metals (Aluminum, Copper, Chromium, Iron, Lead, Nickel, Sodium, Silicon, Tin, Cadmium, Silver, Titanium, Vanadium, Zinc, Sodium, Potassium, Magnesium, Manganese, Molybdenum, Boron, Barium, Calcium)	ASTM D 5185
		Insoluble (pentane and toluene)	ASTM D 893
		Particle Count (Hydraulic fluid power - Fluids -Method for coding the level of contamination by solid particles)	ISO 4406
		Total Acid Number -Color Indicator Titration	ASTM D 974
		Total Base Number- Potentiometric Perchloric Acid Titration)	ASTM D 2896
	<b>Lubricating Oil, Residual Fuel Oil, Diesel, Bitumen</b>	Water Content by Distillation	ASTM D 95
	<b>Lubricating Oil, Diesel, Gasoline, Naphtha</b>	Water Content Coulometric Karl Fischer Titration	ASTM D 6304
	<b>Aviation Fuel, Naphtha, Gasoline, Kerosene</b>	Visual appearance	Visual
		Color (Saybolt Chromometer Method)	ASTM D 156
		Color (Automatic Tristimulus Method)	ASTM D 6045
	<b>Aviation Fuel</b>	Particulate contamination By Laboratory Filtration	ASTM D 5452
		Particulate ≥4µm (c) ≥6µm (c) ≥14µm (c) ≥21µm (c) ≥25µm (c) ≥30µm (c)	IP 564
		Total Acidity	ASTM D 3242
		Hydrocarbon Types by Fluorescent Indicator Adsorption	ASTM D 1319

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	<b>Aviation Fuel, Lubricating Oil, Residual Fuel Oil, Crude Oil</b>	Sulphur Content (Energy Dispersive X-ray Fluorescence Spectrometry)	ASTM D 4294
	<b>Aviation Fuel, Gasoline, Naphtha, Kerosene</b>	Mercaptan Sulfur (Potentiometric Method)	ASTM D 3227
		Doctor Test	ASTM D 4952
	<b>Aviation Fuel, Gasoline, Naphtha, White Spirit, Kerosene</b>	Distillation at Atmospheric Pressure	ASTM D 86
	<b>Aviation Fuel</b>	Flash point -Tag Closed Cup Tester	IP 170
	<b>Aviation Fuel, Gasoline, Crude Oil, Residual Fuel Oil</b>	Density and Relative Density by Hydrometer Method	ASTM D 1298
	<b>Aviation Fuel, Gasoline, Naphtha, Lubricating Oil</b>	Density and Relative Density by Digital Density Meter	ASTM D 4052
	<b>Aviation Fuel</b>	Freezing point	ASTM D 2386
		Freezing point- Automatic Phase Transition Method	ASTM D5972
		Viscosity at -20°C, cSt (mm <sup>2</sup> /s)	ASTM D 445
		Specific Energy, net MJ/kg	ASTM D 3338
		Smoke Point, mm	ASTM D 1322
		Naphthalenes By Ultraviolet Spectrophotometry	ASTM D 1840
	<b>Aviation Fuel, Gasoline, Naphtha, Lubricating Oil</b>	Corrosiveness to Copper by Copper Strip Test (Copper Strip Classification)	ASTM D 130
	<b>Aviation Fuel</b>	Thermal Stability (JFTOT) control - Control Temp	ASTM D 3241
		Filter pressure differential	ASTM D 3241
		Tube deposit rating	ASTM D 3241
		Existent Gum	IP 540
		Microseparameter (MSEP), Water Separation	ASTM D 3948



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		Characteristics by Portable Separometer	
		Electrical Conductivity	ASTM D 2624
	<b>Diesel Oil</b>	Appearance	Visual
	<b>Diesel Oil, Lubricating Oil, Heating Oil, Petroleum Waxes</b>	Colour ASTM (ASTM Color Scale)	ASTM D-1500
	<b>Diesel Oil, Crude Oil, Residual Fuel oil, Lubricating Oil</b>	Ash	ASTM D-482
	<b>Diesel Oil</b>	Calorific value	ASTM D-4868
		Acid Number-Strong	ASTM D-974
		Acid Number- Total	
		Cetane Index	ASTM D-976, ASTM D- 4737
		Copper Strip Corrosion, 3 hrs. 100°C	ASTM D-130
		Density and Relative Density by Hydrometer Method	ASTM D-1298
		Density and Relative Density by Digital Density Meter	ASTM D-4052
		Distillation at Atmospheric Pressure	ASTM D-86
		Flash Point (Pensky-Martens) Closed Cup Tester	ASTM D-93
		Pour point	ASTM D-97
		Cloud point	ASTM D-2500
		CFPP	ASTM D 6371, IP 309
		Sediment and Water	ASTM D-2709
	<b>Diesel Oil, Gasoline, Engine Oil, Naphtha</b>	Sulphur By Ultraviolet Fluorescence	ASTM D-5453
	<b>Diesel Oil</b>	Kinematic Viscosity@40°C	ASTM D-445
		Lubricity, By the High-Frequency Reciprocating Rig (HFRR)	ASTM D-6079

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		Oxidation Stability (Accelerated Method)	ASTM D-2274
		Electrical Conductivity	ASTM D-2624
		Sulphur Content (Energy Dispersive X-ray Fluorescence Spectrometry)	ASTM D4294

**Note:** the text in red indicates the new scope in this issue of the schedule of accreditation.

**END**

### GEO-CHEM Middle East Laboratory – Dubai

is recorded as issuing GAC accredited reports to organizations in the countries listed below. This list is current at the time of issue of this schedule.

United Arab Emirates	Bahrain	Saudi Arabia	Oman	Qatar	Kuwait	Yemen