



INTERNATIONAL
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CERTIFICATE OF ACCREDITATION

This is to attest that

KUWAIT CERTIFIED LABORATORY FOR SOIL TESTING, SURVEYING AND ENVIRONMENTAL STUDIES CO. WLL

WEST OF ABU FATIRA, AL-HERAFIA, BLOCK 1, STREET 10, BUILDING NO. 515, 1ST FLOOR
KUWAIT 47081, STATE OF KUWAIT

Testing Laboratory TL-753

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date September 10, 2023



A handwritten signature in black ink, reading "Raj Nathan".

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

KUWAIT CERTIFIED LABORATORY FOR SOIL TESTING, SURVEYING AND ENVIRONMENTAL STUDIES CO. WLL

www.kwtcl.com

Contact Name Dr. Meshari Al-Harbi

Contact Phone + +965-90995050

Accredited to ISO/IEC 17025:2017

Effective Date September 10, 2023

| Chemical – Chemical and Petroleum Products | |
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| ASTM D93 | Standard test methods for flash point of petroleum & chemical products by Pensky-Martens closed cup flash-point apparatus (procedure A) |
| ASTM E 224 | Standard Test Methods for Analysis of Hydrochloric Acid |
| ASTM D445 | Viscosity |
| ASTM D4052 | Density |
| Chemical – Environmental Testing – Water, Waste Water, Soil, Solids | |
| APHA 2130 | Turbidity in Water by Nephelometric Method (Method B) |
| APHA 2320 | Total Alkalinity (as CaCO ₃); Titration Method (Method B) |
| APHA 2340 | Determination of Total Hardness; EDTA Titrimetric Method (Method C) |
| APHA 2510 | Conductivity - conductivity meter (Method B) |
| APHA 2540 | Total Dissolved Solids Dried at 180°C (Method C) |
| APHA 2540 | Total Suspended Solids; TSS Apparatus Method (Method D) |
| APHA 4500-Cl | Chloride- titrimetric (Method B) |
| APHA 4500-H | pH in - pH meter (Method B) |
| APHA 4500-NH ₃ | Ammonia (NH ₃ -N)-Kjeldahl distillation (Methods B and C) |
| APHA 4500-P | Determination of o-Phosphate; Stannous Chloride Method (Method D) |
| APHA 5220 | COD- COD reactor/colorimetry (Method D) |
| APHA 5310 | Total Organic Carbon; High Temperature Combustion Method (Method B) |
| APHA 5520 B | Analysis of oil and grease- gravimetry |
| ASTM D 2974 | Standard Test Methods for Determining the Water (Moisture) Content, Ash Content, and Organic Material of Peat and Other Organic Soils (Method A) |
| DIN 38405 – D9 | Spectrometric determination of nitrate |

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| US EPA 8015B | <p>Standard operating procedure for the determination of Total Petroleum Hydrocarbons (TPHs) in water and solids Gasoline Range TPH(Volatiles) by Headspace GC-MSD</p> <p>Benzene, Toluene, Ethylbenzene, Xylene, Diesel Range TPH (Extractable) by GC-FID, Residual Range TPH (Extractable) by GC-FID</p> |
| US EPA 8270C | <p>Standard operating procedure for the determination of Organochlorine Pesticides in water and solids by GC-MS a-BHC, b-BHC, g-BHC, d-BHC, Aldrin, Endrin, Dieldrin, Endosulfane-I, Endosulfane-II, Endosulfane sulfate, Endrin aldehyde, p,p-DDD, p,p-DDE, 4,4-DDT, Heptachlor, Heptachlor epoxide</p> |
| US EPA 8270C | <p>Standard operating procedure for the determination of Semi-Volatile Organic Compounds (SVOCs) in water and solids by GC-MS</p> <p>Camphene, 2-chlorophenol, 2-methyl-phenol, Bis(2-chloro-1-methylethyl) ether, Benzoin, HexachloroEthane, 2-nitroPhenol, 3,4-dimethylphenol, 2,4-dichloro Phenol, Naphthalene, p-Chloroaniline, 1,1,2,3,4,4-hexachloro 1,3-Butadiene, 4-chloro-3-methyl Phenol, 2-methylnaphthalene, 1,2,3,5-tetrachloro Benzene, Hexachlorocyclopentadiene, 2,4,6-trichlorophenol, 2,4,5-trichlorophenol, 2-chloro Naphthalene, Anthracene, Acenaphthylene, 2-methyl-1,3-dinitrobenzene, m-Nitroaniline, Acenaphthene, 4-nitrophenol, 2,3,4,6-Tetrachlorophenol, 1-methyl-2,4-dinitrobenzene, 2,3,5,6-tetrachlorophenol, 2-methyl-3,5-dinitrophenol, cyclobutyl ethyl ester (Phthalic acid), p-Nitroaniline, Fluorene, 1,1,1,5,5,5-hexafluoro-2,4- Pentanedione, 2,6-Difluoropyridine, 1-chloro-4-phenoxy Benzene, 2-(4-methylphenyl)pyridine, 1-bromo-4- phenoxybenzene, Hexachlorobenzene, Phenanthrene, Pentachlorophenol, Pyridine, Di-n-butyl phthalate, Fluoranthene, Benzyl butyl phthalate, chrysene, Benz[a]anthracene, Benzo[c]phenanthrene, Diisooctyl phthalate, Bis(2-Ethylhexyl)phthalate, Benzo[e]pyrene, 4-[(2-hydroxypropyl)amino] 2(1H)-Pyrimidinone, Benzo[ghi]perylene, Dibenz[a,j]anthracene, Indeno[1,2,3-cd]pyrene, 2-Nitroaniline, 3-Nitroaniline, 4-Nitroaniline, Nitrobenzene, 2-Nitrophenol, 4-Nitrophenol, N-Nitrosodimethylamin, 2,2-Oxybis(1-chloropropane), Pentachlorophenol, Phenol, Pyrene, Pyridine, 2,3,5,6-Teterechlorophenol, 1,2,4-Trichlorobenzene, Dibenz[a,j]anthracene, Indeno[1,2,3-cd]pyrene</p> |
| US EPA 8260 B | <p>Standard operating procedure for the determination of Volatile Organic Compounds (VOCs) in water and solids by GC-MS:</p> <p>1,1-Dichloroethene, methylene chloride, 1,1-dichloroethane, Bromochloromethane, Trichloromethane, 1,1,1-trichloroethane, 1,2-dichloro, 1-propene, Carbon tetrachloride, Benzene, 1,2-dichloroethane, Trichloroethylene, 1,2-dichloropropane, Dibromomethane, Bromodichloromethane, 1,3-dichloro-(z)-1-propene, Toluene, 1,1,2-trichloroethane, 1,3-dichloropropane, Tetrachloroethylene, Dibromochloromethane, 1,1-dibromoethane, Chlorobezene, 1,1,1,2-tetrachloroethane, Ethylebenzene, 1,3-dimethylbenzene, 2,2-dihydroxyle-1-phenyl-ethanon, Phenyl-butanedoicacid, Tribromomethane, 1-methylethylbenzene, Bromobenzene, Propylbenzene, 1,2,3-triethylbenzene, 1-chloro-4-methylebenzene, Tert-butylbenzene, 1,2,4-trimethylbenzene, 1-methyle-4-propylbenzene, 1,2,4,5-tetramethylebenzene, 1,3-dichlorobenzene, n-butylbenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloro propane, 1,3,5-trichlorobenzene, 1,3-Butadiene, 1,1,2,3,4,4-Hexachloronaphthalene</p> |

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| US EPA 9071B | Total petroleum hydrocarbons (TPH) in soils- Soxhlet extraction |
| US EPA 6010B/APHA 3120B | Standard operating procedure for the determination of metals by Inductively Coupled Plasma – Optical Emission Spectrometry in water and Solids: Silver, Aluminum, Boron, Barium, Beryllium, Cadmium, Cobalt, Chromium, Copper, Iron, Magnesium, Manganese, Molybdenum, Nickel, Lead, Strontium, Titanium, Vanadium, Zinc, Calcium, Potassium, Sodium, Arsenic |
| Microbiological – In the Water and Wastewater | |
| APHA 9215 | Heterotrophic Plate Count (Method B) |
| APHA 9222 | Fecal Coliform (Method D) |
| APHA 9222 | Total Coliform (Method B) |
| USEPA 1603 | E. coli |

