


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	<b>Water Authority of Jordan</b>  <b>Issue No: 022    Issue date: 08 July 2016</b>	
	<b>Laboratories and Quality Affairs</b> Khansa'a Street Biader Wadi Esseer PO Box 2412 Amman 11183 Jordan	<b>Contact: Eng.Rateb Al Adwan</b> <b>Tel: 00 96 26 5864362/00 96 27 95600505</b> <b>Fax: 00 96 26 5825275</b> <b>E-Mail: Rateb_AI_Adwan@mwi.gov.jo</b> <b>Website: www.waj.gov.jo</b>

Testing performed by the Organisation at the locations specified below

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code				
<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"><b>Address</b></td> <td><b>Local contact</b></td> </tr> <tr> <td>Laboratories and Quality Department Water Authority of Jordan Khansa'a Street PO Box 2412 Amman 11183 Jordan</td> <td>Contact: Eng.Hiyam Sa'aydeh Tel: +962 6 5864362/ + 962 7 79903922 Fax: 00 96 26 5825275 E-Mail: Hiyam_Sa'aydeh@mwi.gov.jo Website: www.waj.gov.jo</td> </tr> </table>	<b>Address</b>	<b>Local contact</b>	Laboratories and Quality Department Water Authority of Jordan Khansa'a Street PO Box 2412 Amman 11183 Jordan	Contact: Eng.Hiyam Sa'aydeh Tel: +962 6 5864362/ + 962 7 79903922 Fax: 00 96 26 5825275 E-Mail: Hiyam_Sa'aydeh@mwi.gov.jo Website: www.waj.gov.jo	Environmental Analysis	A
<b>Address</b>	<b>Local contact</b>					
Laboratories and Quality Department Water Authority of Jordan Khansa'a Street PO Box 2412 Amman 11183 Jordan	Contact: Eng.Hiyam Sa'aydeh Tel: +962 6 5864362/ + 962 7 79903922 Fax: 00 96 26 5825275 E-Mail: Hiyam_Sa'aydeh@mwi.gov.jo Website: www.waj.gov.jo					

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
Mobile Laboratories:	<b>Environmental Analysis</b> Chemistry	B
Mobile Laboratory: Registration Number 5-8793	<b>Environmental Analysis</b> Microbiology	C
Customer taps, ground water wells prior to treatment, desalination stations, pumping stations and reservoirs (raw and final).  Waste water treatment works	<b>Sampling:</b> Sampling of water for subsequent chemical and microbiological testing  <b>Testing:</b> Chemical	D



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#### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS	<u>Chemical Tests</u>	Documented In-House Methods in accordance with 'Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition, 2012' (Published by APHA - ISBN 978 0875530130)	
Natural and Potable Water	Metals: Copper Iron Manganese Zinc	Method CHI-MTICP-R001 using Inductively coupled plasma atomic emission spectroscopy (ICP-OES) based on Standard Method 3120B	A
Natural and Potable Water	Nitrate	Method CHI-NO3 IC using ion chromatography based on Standard Method 4110B	A
Natural and Potable Water	Anions: Chloride Nitrate Sulphate	Method CHI-ANION-R001 using ion chromatography based on Standard Method 4110B	A
Natural and Potable Water	pH	Method CHI-pH using pH meter based on Standard Method 4500-HB	A
Natural and Potable Water	Turbidity	Method CHI-TRB using nephelometer based on Standard Method 2130B	A
Natural and Potable Water	Organochlorine Pesticides: Heptachlor epoxide Lindane Heptachlor Aldrin, Dieldren Endrin Endosulphan 2 Methoxychlor p,p,p-DDT	Method CHO-OCP using GC-ECD Using standard method 6630 B	A
Natural and Potable Water	Conductivity at 25 °C	Method CHI-EC using conductivity meter based on Standard Method 2510B	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods in accordance with 'Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition, 2012' (Published by APHA - ISBN 978 0875530130)	
Natural and Potable Water	Conductivity at 25 °C	Method Mob-Test using conductivity multimeter based on Standard Method 2510B	B
Natural and Potable Water	Total Organic Carbon	Method CHO-TOC using TOC analyser based on Standard Method 5310C	A
Natural and Potable Water	Fluoride	Method Ref: CHI-F - using HACH Dr 5000	A
Natural and Potable Water	Sodium Potassium Calcium Magnesium	Method CHI-CAT by Ion Chromatography	A
Natural and Potable Water	Chlorine (residual)	Method Mob-Test using calorimetry based on Standard Method 4500 Cl-G	B
Natural and Potable Water	pH	Method Mob-Test using pH meter based on Standard Method 4500-H+B using multimeter	B
Natural and Potable Water	Turbidity	Method Mob-Test using nephelometer based on Standard Method 2130B using multimeter	B
Natural and Potable Water	Total Hardness	Method CHI-TH- using Manual Titration	A
Natural and Potable Water	Fluoride	Method MOB-F- using Spectrophotometer DR 2000	B



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WATERS	<u>Chemical Tests (cont'd)</u>	Documented In-House Methods in accordance with 'Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition, 2012' (Published by APHA - ISBN 978 0875530130)	
Natural and Potable Water	Orthophosphate	Method CHI-PO4AGI PO4 based on Standard Method 4500 P D using UV-visible spectrophotometer	A
Natural Water and waste Water	Indicative Oil and Grease	In house Method WW-FOG-R001 using solvent extraction and gravimetry	A
Natural Water and waste Water	Total Oil and Grease	Method WW-FOG-R001 based on Standard Method 5520B using solvent extraction and gravimetry	A
Waste Water	Biochemical Oxygen Demand	Method WW-BOD5 & WWBOD7 based on Standard Method 5210B, 5 & 7 day BOD test	A
Waste Water	Chemical Oxygen Demand	Method WW-COD based on Standard Method 5220C, closed reflux method and manual titration	A
Waste Water	Total Dissolved Solids at 180 °C	Method WW-SOL based on Standard Method 2540C	A
Waste Water	Total Suspended Solids at 105 °C	Method WW-SOL based on Standard Method 2540D	A
Waste Water	Turbidity	Method WW-TRB using nephelometer based on Standard Method 2130B	A
Waste Water	pH	Method WW-pH using pH meter	A
Waste water	Mercury	Method WW-Hg by decomposition by O <sub>2</sub> , gold amalgamation atomic absorption spectroscopy and microwave digestion	A



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WATERS	<u>Chemical Tests (cont'd)</u>	Documented In-House Methods in accordance with 'Standard Methods for the Examination of Water and Wastewater, 22nd Edition, 2012' (Published by APHA - ISBN 978 0875530130)	
Waste Water	Nitrate Nitrite Ammonium Fluoride Sulphate Orthophosphate Chloride	Method WW-IC using Ion Chromatography (Dionex Dual Ion)	A
WATERS	<u>Microbiological Tests</u>		
Natural, potable and waste waters	Total Coliforms, confirmed	Method MIC-TFC using multiple tube fermentation based on Standard Method 9221B	A
Natural, potable and waste waters	Faecal Coliforms, confirmed	Method MIC-TFC using multiple tube fermentation based on Standard Method 9221E	A
Natural, potable and waste waters	<i>Escherichia coli</i> , confirmed	Method MIC-TFC using multiple tube fermentation based on Standard Method 9221F	A
Natural and Potable Water	Total Coliforms and <i>Escherichia coli</i> , confirmed	Method MIC-Colilert using Colilert	A
Natural and potable waters	Enumeration of <i>Pseudomonas aeruginosa</i>	Method MIC-Pseudalert using Pseudalert	A
Natural and potable waters	Enumeration of <i>Pseudomonas aeruginosa</i>	Method MIC-PA using multiple tube technique based on Standard Method 9213F	A
Natural (surface water) and potable water	Total Coliforms and <i>Escherichia coli</i> , confirmed	Method MOB-Colilert based on Standard Methods 9223-B by IDEXX colilert P/A	C



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS	<u>Sampling:</u>	Documented In-House Methods in accordance with 'Standard Methods for the Examination of Water and Wastewater, 22nd Edition, 2012' (Published by APHA - ISBN 978 0875530130)	
Natural (surface and groundwater) and potable water	Customer taps, ground water wells, desalination stations, pumping stations, and reservoirs (raw and final)	Method SOP PL-DWS based on Standard Methods 1060 A	D
Natural (surface and groundwater) and potable water	<u>On-site chemical testing:</u> Residual Chlorine	Method SOP DW-FT based on Standard Methods 1060 A using : Potable Digital chlorine meters or potable chlorine kit	D
Natural (surface and groundwater) and potable water	pH	Method SOP DW-FT based on Standard Methods 1060 A using pH meter	D
Natural (surface and groundwater) and potable water	Turbidity	Method SOP DW-FT based on Standard Methods 1060 A using Turbidity meter	D
Sewage Effluent (Treated and Untreated)	<u>Sampling:</u> Spot sampling for chemistry and microbiology testing	Method SOP PL-WM based on Standard Methods 1060 A	D
Sewage Effluent (Treated and Untreated)	<u>On-site chemical testing:</u> pH	Method SOP WM-pH based on Standard Methods 4500-H+B using pH meter	D



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WATERS	<u>Radiochemical Tests</u>	Documented In-House Methods in accordance with 'Standard Methods for the Examination of Water and Wastewater, 22nd Edition, 2012' (Published by APHA - ISBN 978 0875530130)	
Raw and potable waters	Gross $\alpha$ and Gross $\beta$	In-House Method ISO-ABLSC using evaporation and liquid scintillation counting	A
Raw and potable waters	Tritium	Method ISO-TRI, Electrolytic tritium enrichment using low level liquid scintillation spectrometry	A
Raw and potable waters	Radium (226Ra)	Method ISO-RAEPA using Evaporative Enrichment and RA 1005 radon degassing unit based on Standard Method 7500 Ra A and C	A
Ground water and surface water	Measurement of Oxygen-18 isotope ratios	Method ISO-O18 using Thermo Finigan Delta plus XP	A
Ground water and surface water	Measurement of Deuterium isotope ratios	Method ISO-Deuterium using mass spectrometry	A
Drinking, ground and surface water	Radium (228Ra)	Method ISO-Ra228 using evaporation enrichment and counting by gamma spectrometer based on Standard Method 7120	A

END