



Water Services Corporation Scope of Accreditation

| | |
|-------------------------|--|
| Contact person | Paula Grech Bonnici |
| Address | W.S.C., Qormi Road, Luqa LQA9043, Malta |
| Telephone | +356 22443126 |
| Company Reg. No. | n/a |
| Email | paula.grech.bonnici@wsc.com.mt |
| Website | www.wsc.com.mt |

ACCREDITATION INFORMATION - TESTING LABORATORY

| | |
|--------------------------------------|-------------------------|
| Accreditation No. | 001 |
| Accreditation Certificate No. | 001/8 |
| Accredited according to | EN ISO/IEC 17025:2005 |
| Accreditation Scope No. | S001/12 |
| Date of issue of this Scope | Friday, 20 January 2017 |

SCOPE OF ACCREDITATION

Issue No: S001/12

Page 1 of 10

TESTING LABORATORY

Laboratory Locations

| Location Details | Activity | Location Code |
|---|--|---------------|
| Address W.S.C., Qormi Road, Luqa LQA9043, Malta | Chemical and Microbiological Testing of Waters | A |

Site activities performed away from the locations listed above

| Location Details | Activity | Location Code |
|---|---|---------------|
| Water Treatment Works, Desalination Plant, Reservoirs, Boreholes, Domestic and Industrial Premises, Sewage Treatment Plants, Sewage Networks, Seawater wells, Water Tanks, Recreational waters and similar locations. | Sampling for subsequent chemical and microbiological testing On-site testing | B |

NAB-Malta is a signatory for the EA MLA in testing, calibration and inspection

National Accreditation Board - Malta (NAB - MALTA)
 Mizzi House, 1st Floor, National Road, Blata l-Bajda HMR9010, Malta
 Tel No. (+356) 23952510
 Web: www.nabmalta.org.mt - Email: info@nabmalta.org.mt



Water Services Corporation

Scope of Accreditation

SCOPE OF ACCREDITATION S001/12 *issued on* 20/01/2017 **Page 2 of 10**

| Material/ Product/ Matrix Tested/ Calibrated | Type of test/ calibration and/or property measured, range of measurement | Standard Specifications/ In- House Methods/ Equipment/ Techniques | Loc. code |
|---|---|--|--------------|
|---|---|--|--------------|

Chemistry

| | | | |
|---|-----------------------------------|--|-------------|
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, wastewaters and effluents | Sampling for Chemical analysis | Documented In-House Methods: SOP/C/001 | B |
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents | Determination of pH | In-house method: SOP/C/002, SOP/C/003, SOP/C/034, SOP/C/035, SOP/C/040 (using pH meters), SOP/C/049 | A , B |
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and sea waters, wastewater and effluent | Determination of conductivity | In-house method: SOP/C/004A, SOP/C/004D, SOP/C/004E, SOP/C/041A, SOP/C/042 (using conductivity meters), SOP/C/WW001A, SOP/C/WW001B, SOP/C/WW001C | A . B |
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and effluent | Determination of total alkalinity | In-house method: SOP/C/007 (using titrimetry) | A |
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water | Detection of ammonia | In-house method: SOP/C/008 (spot test) | A |



Water Services Corporation

Scope of Accreditation

SCOPE OF ACCREDITATION S001/12 *issued on* 20/01/2017 **Page 3 of 10**

| Material/ Product/ Matrix Tested/ Calibrated | Type of test/ calibration and/or property measured, range of measurement | Standard Specifications/ In- House Methods/ Equipment/ Techniques | Loc. code |
|---|---|--|--------------|
|---|---|--|--------------|

| | | | |
|--|---------------------------------|---|----------|
| <p>WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water</p> | <p>Determination of Nitrite</p> | <p>In-house method: SOP/C/009 (spot test)</p> | <p>A</p> |
|--|---------------------------------|---|----------|

| | | | |
|--|-------------------------------|---|----------|
| <p>WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water</p> | <p>Detection of Phosphate</p> | <p>In-house method: SOP/C/010 (spot test)</p> | <p>A</p> |
|--|-------------------------------|---|----------|

| | | | |
|--|-----------------------------------|--|----------|
| <p>WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, wastewater and effluents</p> | <p>Determination of turbidity</p> | <p>In-house method: SOP/C/011B, SOP/C/038, SOP/C/039 (using turbidity meter), SOP/C/WW014A, SOP/C/WW014B (using turbidity meter)</p> | <p>A</p> |
|--|-----------------------------------|--|----------|

| | | | |
|---|--|--|----------|
| <p>WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and effluent</p> | <p>Determination of total hardness</p> | <p>In-house method: SOP/C/014 (using titrimetry)</p> | <p>A</p> |
|---|--|--|----------|

| | | | |
|---|--|--|----------|
| <p>WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and effluent</p> | <p>Determination of calcium hardness</p> | <p>In-house method: SOP/C/015 (using titrimetry)</p> | <p>A</p> |
|---|--|--|----------|



ISO 17025
ACCREDITED
TESTING
No 001

Water Services Corporation

Scope of Accreditation

SCOPE OF ACCREDITATION

S001/12

issued on 20/01/2017

Page 4 of 10

| Material/ Product/ Matrix Tested/ Calibrated | Type of test/ calibration and/or property measured, range of measurement | Standard Specifications/ In- House Methods/ Equipment/ Techniques | Loc. code |
|---|---|--|--------------|
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water | Determination of magnesium hardness | In-house method: SOP/C/016 (by calculation) | A |
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water | Determination of Total suspended solids | In-house method: SOP/C/017C (by calculation) | A |
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water | Determination of Free Carbon Dioxide | In-house method: SOP/C/018 (nomographic) | A |
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water | Determination of LSI – Langelier Saturation Index | In-house method: SOP/C/029 (by calculation) | A |
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, wastewater and effluent | Determination of Temperature | In-house method: SOP/C/031 | A , B |



Water Services Corporation

Scope of Accreditation

SCOPE OF ACCREDITATION S001/12 *issued on* 20/01/2017 **Page 5 of 10**

| Material/ Product/ Matrix Tested/ Calibrated | Type of test/ calibration and/or property measured, range of measurement | Standard Specifications/ In- House Methods/ Equipment/ Techniques | Loc. code |
|--|---|--|--------------|
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water | Determination of elements (Aluminium, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Zinc) by ICPMS | In-house method: SOP/C/046 (using ICPMS) | A |
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water | Total Dissolved Solids | In-house method: SOP/C/047B | A |
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste water | Determination of Copper | In-house method: SOP/C/AAS003 (using absorption spectroscopy) | A |
| Waste waters and effluents | Determination of Lead | In-house method: SOP/C/AAS014 (using Flame-atomic Absorption Spectrophotometry) | A |
| Waste Water and effluents | Determination of Nickel | In-house method: SOP/C/AAS015 (using Atomic Absorption Spectrophotometry) | A |
| Waste Water and effluents | Determination of Zinc | In-house method: SOP/C/AAS016 (using Atomic Absorption Spectrophotometry) | A |



Water Services Corporation

Scope of Accreditation

SCOPE OF ACCREDITATION S001/12 *issued on* 20/01/2017 **Page 6 of 10**

| Material/ Product/ Matrix Tested/ Calibrated | Type of test/ calibration and/or property measured, range of measurement | Standard Specifications/ In- House Methods/ Equipment/ Techniques | Loc. code |
|---|---|--|--------------|
|---|---|--|--------------|

| | | | |
|--|---------------------------------|---|----------|
| <p>WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water</p> | <p>Determination of Nitrate</p> | <p>In-house method: SOP/C/UV001C (using UV Spectrophotometry)</p> | <p>A</p> |
|--|---------------------------------|---|----------|

| | | | |
|---|---------------------------------|---|----------|
| <p>WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, Waste Water and effluents</p> | <p>Determination of Ammonia</p> | <p>In-house method: SOP/C/UV002A, SOP/C/UV002B, SOP/C/UV002D (using UV Spectrophotometry)</p> | <p>A</p> |
|---|---------------------------------|---|----------|

| | | | |
|---|----------------------------------|---|----------|
| <p>WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, Waste Water and effluents</p> | <p>Determination of Nitrites</p> | <p>In-house method: SOP/C/UV003A, SOP/C/UV003B, SOP/C/UV003D (using UV Spectrophotometry)</p> | <p>A</p> |
|---|----------------------------------|---|----------|

| | | | |
|---|-------------------------------|--|----------|
| <p>WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluent</p> | <p>Determination of Boron</p> | <p>In-house method: SOP/C/UV004 (using UV Spectrophotometry)</p> | <p>A</p> |
|---|-------------------------------|--|----------|

| | | | |
|--|-----------------------------------|---|----------|
| <p>WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents</p> | <p>Determination of Sulphates</p> | <p>In-house method: SOP/C/UV007 (using UV spectrometry)</p> | <p>A</p> |
|--|-----------------------------------|---|----------|



Water Services Corporation

Scope of Accreditation

SCOPE OF ACCREDITATION S001/12 *issued on* 20/01/2017 **Page 7 of 10**

| Material/ Product/ Matrix Tested/ Calibrated | Type of test/ calibration and/or property measured, range of measurement | Standard Specifications/ In- House Methods/ Equipment/ Techniques | Loc. code |
|---|---|--|--------------|
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water | Determination of Fluorides | In-house method: SOP/C/UV009 (using UV spectrometry) | A |
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents | Determination of Chloride | In-house method: SOP/C/WW003 (using titrimetry), SOP/C/013 (using titrimetry) | A |
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents | Determination of chlorine (free and total) | In-housing method: SOP/C/WW005 (using colorimetry), SOP/C/006 (using colorimetry) | A , B |
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents | Determination of nitrate | In-house method: SOP/C/WW007 (using distillation and titrimetry), SOP/C/012A (using distillation and titrimetry) | A |
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents | Determination of total solids | In-house method: SOP/C/WW008 (using gravimetry), SOP/C/017A (using gravimetry) | A |



Water Services Corporation

Scope of Accreditation

SCOPE OF ACCREDITATION S001/12 *issued on* 20/01/2017 **Page 8 of 10**

| Material/ Product/ Matrix Tested/ Calibrated | Type of test/ calibration and/or property measured, range of measurement | Standard Specifications/ In- House Methods/ Equipment/ Techniques | Loc. code |
|---|---|--|--------------|
|---|---|--|--------------|

| | | | |
|---|---|--|---|
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents | Determination of total dissolved solids | In-house method: SOP/C/017B (using gravimetry) | A |
|---|---|--|---|

| | | | |
|---|---|---|---|
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents | Determination of total suspended solids | In-house method: SOP/C/WW010 (using gravimetry) | A |
|---|---|---|---|

| | | | |
|---|----------------------------------|---|---|
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents | Determination of Volatile solids | In-house method: SOP/C/WW011 (using gravimetry) | A |
|---|----------------------------------|---|---|

| | | | |
|---|------------------------------------|--|---|
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents | Determination of Settleable solids | In-house method: SOP/C/WW012 (using volumetric method) | A |
|---|------------------------------------|--|---|

| | | | |
|---|---|--|---|
| WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents | Gravimetric Method for the Quantification of Oils and Greases | In-house method: SOP/C/WW015 based on Standard method 5520 B (Partition-Gravimetric) APHA, AWWA, WEF | A |
|---|---|--|---|



ISO 17025
ACCREDITED
TESTING
No 001

Water Services Corporation

Scope of Accreditation

SCOPE OF ACCREDITATION S001/12 *issued on* 20/01/2017 **Page 9 of 10**

| Material/ Product/ Matrix Tested/ Calibrated | Type of test/ calibration and/or property measured, range of measurement | Standard Specifications/ In- House Methods/ Equipment/ Techniques | Loc. code |
|---|---|--|--------------|
|---|---|--|--------------|

| | | | |
|---|---|---|---|
| Waste waters, industrial waters and effluents | Determination of Chemical Oxygen Demand | In-house method: SOP/C/WW018 (using sealed tube digestion and titrimetry) | A |
|---|---|---|---|

Microbiology

| | | | |
|---|------------------------|----------------|---|
| WATERS, treated and untreated from water treatment works, desalination plants, reservoirs, groundwater, domestic and industrial premises, runoff water, wastewaters, effluents and polished bottled water, pools, spa, recreational and seawater, brackishwater | Total Bacterial Counts | ISO 6222: 2000 | A |
|---|------------------------|----------------|---|

| | | | |
|---|----------------------------|------------------|---|
| WATERS, treated and untreated from water treatment works, desalination plants, reservoirs, groundwater, domestic and industrial premises, runoff water, wastewaters, effluents and polished bottled water, pools, spa, recreational and seawater, brackishwater | Total coliforms and E.coli | ISO 9308-1: 2014 | A |
|---|----------------------------|------------------|---|

| | | | |
|---|-----------------------|------------------|---|
| WATERS, treated and untreated from water treatment works, desalination plants, reservoirs, groundwater, domestic and industrial premises, runoff water, wastewaters, effluents and polished bottled water, pools, spa, recreational and seawater, brackishwater | Enterococcus faecalis | ISO 7899-2: 2000 | A |
|---|-----------------------|------------------|---|



ISO 17025
ACCREDITED
TESTING
No 001

Water Services Corporation

Scope of Accreditation

SCOPE OF ACCREDITATION S001/12 *issued on* 20/01/2017 **Page 10 of 10**

| Material/ Product/ Matrix Tested/ Calibrated | Type of test/ calibration and/or property measured, range of measurement | Standard Specifications/ In- House Methods/ Equipment/ Techniques | Loc. code |
|---|---|--|--------------|
| WATERS, treated and untreated from water treatment works, desalination plants, reservoirs, groundwater, domestic and industrial premises, runoff water, wastewaters, effluents and polished bottled water, pools, spa, recreational and seawater, brackishwater | Detection and enumeration of Legionella | ISO 11731-1: 1998 | A |
| WATERS, treated and untreated from water treatment works, desalination plants, reservoirs, domestic and industrial premises, and polished bottled water, pools, spa and recreational water | Detection and enumeration of Legionella | ISO 11731-2:2004 | A |
| WATERS, treated and untreated from water treatment works, desalination plants, reservoirs, groundwater, domestic and industrial premises, runoff water, effluents and polished bottled water, pools, spa and recreational water | Sampling for Microbiological analysis | Documented In-House Methods: SOP/C/001 | B |

END OF SCOPE

This scope of accreditation may be revised from time to time by NAB-MALTA. To obtain an up-to-date scope contact NAB-MALTA on +356 23952510 (info@nabmalta.org.mt).