



Water Services Corporation Scope of Accreditation

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ACCREDITATION INFORMATION - TESTING LABORATORY

Accreditation No.	001
Accreditation Certificate No.	001/3
Accredited according to	MSA EN ISO/IEC 17025:2005
Accreditation Scope No.	S001/7
Date of issue of this Scope	Thursday, July 14, 2011

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Issue No: S001/7

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TESTING LABORATORY

Laboratory Locations

<i>Location Details</i>	<i>Activity</i>	<i>Location Code</i>
Address W.S.C., Qormi Road, Luqa LQA9043, Malta	Chemical Testing of Waters	A

Site activities performed away from the locations listed above

<i>Location Details</i>	<i>Activity</i>	<i>Location Code</i>
Water Treatment Works, Desalination Plant, Reservoirs, Boreholes, Domestic and Industrial Premises	Sampling for subsequent chemical and microbiological testing On-site testing	B



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ATG04	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
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Chemistry

766.04	Waste water and effluents	Determination of Total Nitrogen; 0 – 100 mg/L	In-house method: SOP/C/WW017 (using Shimadzu TOC/TN Analyzer)	A
766.04	Waste waters, effluents and sewage	Determination of Lead; 0-3mg/L	In-house method: SOP/C/AAS014(using Flame-atomic Absorption Spectrophotometry)	A
766.04	Waste waters, effluents and sewage	Determination of Chemical Oxygen Demand; 40 – 400mg/L	In-house method: SOP/C/WW018 (using sealed tube digestion and titrimetry)	A
766.04	Waste waters, effluents and sewage	Determination of conductivity (Range 0 - 6667µS/cm)	In-house methods (using Hanna conductivity meter): SOP/C/WW001A and (using Knick conductivity meter) SOP/C/WW001B	A
766.04	Waste waters, effluents and sewage	Determination of conductivity (Range 6667 – 58670µS/cm)	In-house methods (using Hanna conductivity meter): SOP/C/WW016	A
766.01	WATERS, treated and untreated from water treatment works, desalination plants, reservoirs, boreholes and domestic and industrial premises	Determination of nitrite (Range 0.05 – 0.5 mg/L NO ₂ - N)	In-house method (using Lovibond comparator method):SOP/C/043	A



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766.01	WATERS, treated and untreated from water treatment works, desalination plants, reservoirs, boreholes and domestic and industrial premises	Determination of ammonia (Range 0 – 1.0 mg/L NH ₃ - N)	In-house method (using Lovibond method): SOP/C/044	A
766.01	WATERS, treated and untreated from water treatment works, desalination plants, reservoirs, boreholes and domestic and industrial premises	Determination of Nitrate (Range 0 – 200mg/L NO ₃)	In-house method (using Spectrophotometer): SOP/C/UV001	A
766.01, 766.04	WATERS, treated and untreated from water treatment works, desalination plants, reservoirs, boreholes and domestic and industrial premises, waste water	Determination of copper (Range 0.5 – 6 mg/L)	In-house method (using absorption spectroscopy): SOP/C/AAS003	A
766.71	WATERS, treated and untreated from: Reservoirs, Boreholes, Water Treatment Works, Desalination Plants, Household and Industrial Potable Water Taps	Sampling (a) Chemical analysis (b) Microbiological analysis Chemical Tests Determination of chlorine (free and total) Determination of Temperature Determination of pH Determination of Conductivity	Documented In-House Methods In-house method: (a) SOP/C/001, (b) LAB/WQB 001, SOP/C/006, SOP/C/031, SOP/C/002; SOP/C/035; SOP/C/040, SOP/C/004A; OP/C/004B; SOP/C/004D; OP/C/004F; SOP/C/0041A; OP/C/0041B	B
766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Determination of magnesium hardness	In-house method (by calculation):SOP/C/016	A



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766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Determination of Total suspended solids	In-house method (by calculation):SOP/C/017C	A
766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Determination of LSI – Langelier Saturation Index	In-house method (by calculation):SOP/C/029	A
766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Free Carbon Dioxide determination	In-house method (nomographic):SOP/C/018	A
766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Detection of ammonia	In-house method (spot test):SOP/C/008	A
766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Detection of nitrite	In-house method (spot test):SOP/C/009	A
766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Detection of phosphate	In-house method (spot test):SOP/C/010	A



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766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Determination of chlorine (free and total)	In-house method (using colorimetry):SOP/C/006	A
766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Determination of Total dissolved solids	In-house method (using gravimetry):SOP/C/017B	A
766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Determination of alkalinity (to pH 4.5)	In-house method (using titrimetry):SOP/C/007	A
766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Determination of nitrate	In-house method (using titrimetry):SOP/C/012A	A
766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Determination of chloride	In-house method (using titrimetry):SOP/C/013	A
766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Determination of total hardness	In-house method (using titrimetry):SOP/C/014	A



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766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Determination of calcium hardness	In-house method (using titrimetry):SOP/C/015	A
766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Determination of turbidity	In-house method (using turbidity meter):SOP/C/011, SOP/C/038, SOP/C/039	A
766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Determination of Temperature	In-house method:SOP/C/031	A
766.01	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, and Domestic and Industrial Premises.	Determination of Total solids	In-house methods (using gravimetry):SOP/C/017A	A
766.01, 766.04, 766.05, 766.06, 766.07	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, Domestic and Industrial Premises, sea waters and waste waters	Determination of conductivity	In-house methods (using conductivity meters):SOP/C/004A, SOP/C/004B, SOP/C/004C, SOP/C/004D, SOP/C/004E, SOP/C/004F, SOP/C/004G, SOP/C/041A, SOP/C/041B, SOP/C/042	A



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766.01, 766.04	WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Boreholes, Domestic and Industrial Premises, waste waters, effluents, and sewage	pH determination	In-house methods (using pH meters):SOP/C/002, SOP/C/003, SOP/C/034, SOP/C/035, SOP/C/040	A
766.04	WATERS, waste waters, effluents, and sewage	Detection of nitrite	In-house method (using colorimetry): SOP/C/WW004	A
766.04	WATERS, waste waters, effluents, and sewage	Detection of Ammonia	In-house method (using colorimetry): SOP/C/WW006	A
766.04	WATERS, waste waters, effluents, and sewage	Detection of nitrate	In-house method (using colorimetry): SOP/C/WW013	A
766.04	WATERS, waste waters, effluents, and sewage	Detection of nitrate	In-house method (using distillation): SOP/C/WW007	A
766.04	WATERS, waste waters, effluents, and sewage	Detection of total solids	In-house method (using gravimetry): SOP/C/WW008	A
766.04	WATERS, waste waters, effluents, and sewage	Detection of total dissolved solids	In-house method (using gravimetry): SOP/C/WW009	A
766.04	WATERS, waste waters, effluents, and sewage	Detection of total suspended solids	In-house method (using gravimetry): SOP/C/WW010	A



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766.04	WATERS, waste waters, effluents, and sewage	Detection of Volatile solids	In-house method (using gravimetry): SOP/C/WW011	A
766.04	WATERS, waste waters, effluents, and sewage	Detection of chloride	In-house method (using titrimetry): SOP/C/WW003	A
766.04	WATERS, waste waters, effluents, and sewage	Detection of turbidity	In-house method (using turbidity meter): SOP/C/WW014A, SOP/C/WW014B	A
766.04	WATERS, waste waters, effluents, and sewage	Determination of Settleable solids	In-house method (using volumetric method): SOP/C/WW012	A
766.04, 766.05	WATERS, waste waters, effluents, and sewage	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
766.04	WATERS, waste waters, effluents, and sewage	Determination of Chlorine (free and total)	In-housing method (using colorimetry): SOP/C/WW005	A

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 21255548 (info@nabmalta.org.mt).

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