




Sterling Chemical Malta Ltd

ENVIRONMENTAL INSTRUCTION: WATER MANAGEMENT

REVISION HISTORY

Revisione Date	Revision Number	Sections affected	Change description
15.02.2014	00		First issue

Instruction Number: MIOA_4.4.6-F	Edited by: RDOC	Revision by RSGA	Approved by: Top Management
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1. PURPOSE

- To provide an overview of the responsibilities and procedures relating to the provision of water services, maintaining water hygiene, controlling consumption and monitoring water use

2. SCOPE

- 2.1 This plan covers the management of all systems for the supply, storage, consumption, conservation and distribution of water, the provision of quality water services, and the maintenance of water using equipment and fitting;
- 2.2 Water discharges including wastewater and surface run-off are not within the scope of this Plan and are covered in the Emissions and Discharge Plan;
- 2.3 This Procedure covers the environmental issue associated with:
- Water supply;
 - Water consumption;
 - Maintenance and alterations of equipment and fittings.

3. DEFINITIONS

Acronyms/name

Definitions

HSE	Health, Safety and Environment
RSGA	Environmental Management System Representative
RDOC	Responsible of Documentations and Communications

4. REFERENCE DOCUMENTS


Reference Code

Title

MRA_4.4.6-F1	Register of Natural Resource
P.SOP.012/All.01	Maintenance sheet

5. RESPONSIBILITY

- 5.1 The HSE Department has prime responsibility for implementation of the Water Management Procedure and ensuring that appropriate water management services are provided;
- 5.2 The HSE Department has responsibility for regular testing and maintenance of water quality in Sterling's facilities owned water distribution and storage system for run;
- 5.3 Each Department Directors shall ensure that their staff members are equipped to implement this Procedure encouraging staff to co-operate with water management in general;

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6. PROCEDURE

6.1 Water Supply

- 6.1.1 The main water supply to the Sterling's facilities is provided by Water Services Corporation. The HSE Department will ensure a good relationship with WSC is maintained and will liaise on any issues relating to the management of the water supply.
- 6.1.2 Water supplied is measured by main meters on the perimeter of the facilities and other main sites and through extensive sub metering of most buildings. When new buildings or new workable area are constructed, sub meters will be installed as standard.
- 6.1.3 The infrastructure of pipework supplying the Sterling Chemical Malta Ltd facilities owned. The HSE Department will undertake monitoring to detect leaks and take responsibility for repair.
- 6.1.4 The HSE Department will include on-going upgrades of the water mains in the Maintenance Programme to minimize leakage.
- 6.1.5 The HSE Department will maintain and keep up-to-date accurate plans of the Sterling's water supply network.

6.2 Water Consumption and Conservation

- 6.2.1 All employees will take reasonable measures to conserve water.
- 6.2.2 All plant and equipment, where appropriate, shall be selected and maintained for water efficient operation.
- 6.2.3 In all new area of the facilities, the HSE Department will specify water efficiency for domestic water fixtures which may include but not be limited to:
 - Low flow taps (max 6 l/min)
 - Low flush toilets (max 6 l)
 - Low flow showerheads (max 10 l/min)
 - Washing machines and equipment non of production rated for water efficiency;
- 6.2.4 In existing buildings and workable area water conservation measures will be employed during planned refurbishments to optimize water usage and to reduce wastewater generation, as necessary. Such as measures may include, but not limited to retrofitting:
 - Urinal flush controls
 - Spray or percussion taps
 - Low volume flush toilets or cistern volume adjustors
 - Sub.metering of water for major end users
- 6.2.5 Each Department Directors will ensure that appropriate notices, posters and stickers are displayed in buildings to remind all users to conserve water.
- 6.2.6 Detected or suspected leakage or wastage will be reported to the RSGA or RDOC as soon as possible. The Maintanence will investigate all such incidences, and undertake prompt remedial action (i.e. within 24 hours) where it has been established that significant water waste is occurring, or is likely to occur. Such eample include, but are not restricted to:
 - Running taps that cannot be turned off
 - Leaks or suspected leaks, especially in the mains pipe-work

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- Meter readings that indicate an inexplicable rise in consumption.

6.3 Water system Maintenance and Alterations

- 6.3.1 In the event that Legionella bacteria are found in any water system the RSGA shall be informed. Flushing of cold water outlets and elevation of hot water temperatures may be sufficient to control proliferation and eradicate the bacteria. When deemed necessary the water system will be isolated immediately, cleaned and chlorinated in accordance with the Legislation of Malta.
- 6.3.2 In order to ensure compliance with the Policy and Performance Standard by legislation and other legal requirements, the chemical and biological control of discharge and supply.
- 6.3.3 Contact with, or access into the sewerage system should be approached with care as microbiological pathogens may be present on equipment and the pipework system will be contaminated by sewage. Access will be restricted to authorised personnel only.

6.4 Monitoring and Record keeping

- 6.3.4 Water consumption based on actual meter readings shall be recorded by the HSE Department on a monthly basis, using an appropriate log sheet.
- 6.3.5 All log sheets and related records will be retained on site for a period of three years
- 6.3.6 Site based water consumption data will be reported annually
- 6.3.7 Water consumption will be monitored, at least on a monthly basis. Significant changes in consumption trends will be investigated and accounted for.

7. APPENDIX

Appendix 1 Register of Natural Resource MRA_4.4.6-F1

