

GLRPPR 2002

ISO 14001 Registration at Sault Ste. Marie WWTP



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Responsibilities

- Special duty to protect public health and the environment
- Duty to ensure H&S for workers
- Meet regulatory requirements
- Operational Excellence

Regulations and Other Requirements

- Wastewater
 - Bylaws (i.e. use of landfill)
 - Safety acts/regs
 - Reg 435
 - Environmental acts/regs/Certificate of Approval
 - CEPA toxics
 - Utility/client imposed requirements
 - MORE TO COME



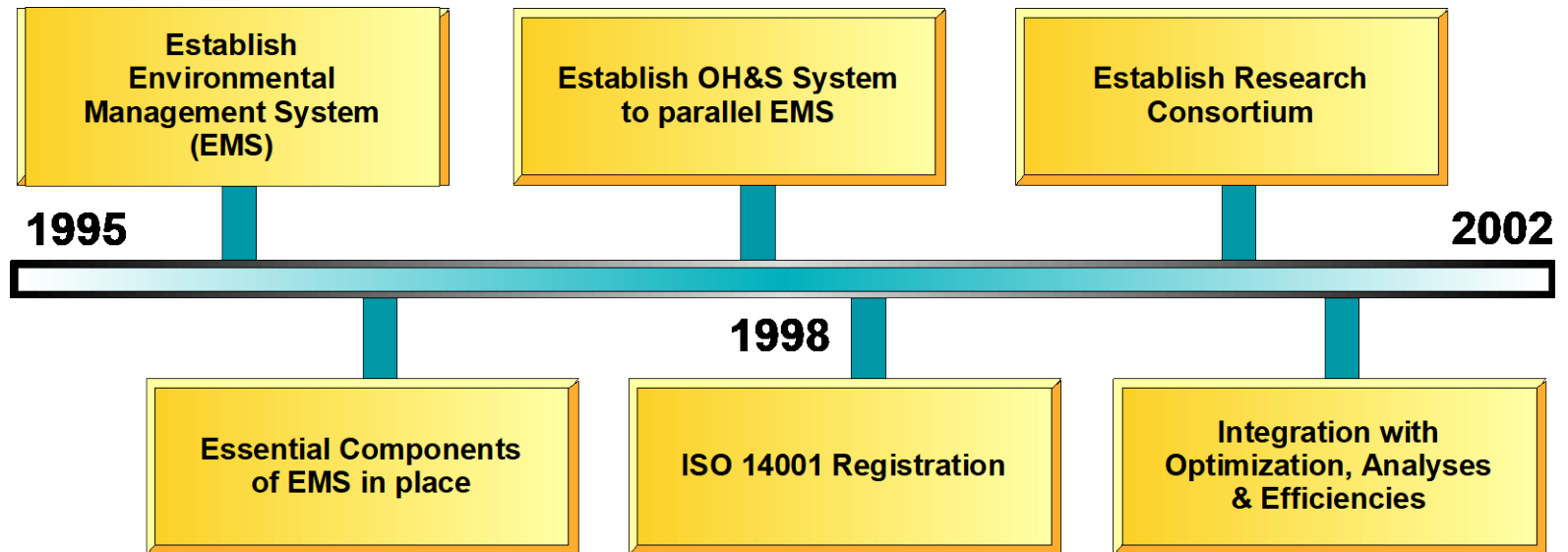
Key Tools to Meet Environmental Responsibilities

- Experienced staff with strong technical background
- Management and area/corporate support
 - Optimization
 - Maintenance
 - Compliance with all legal requirements
 - Training
- Environmental Management System (EMS)

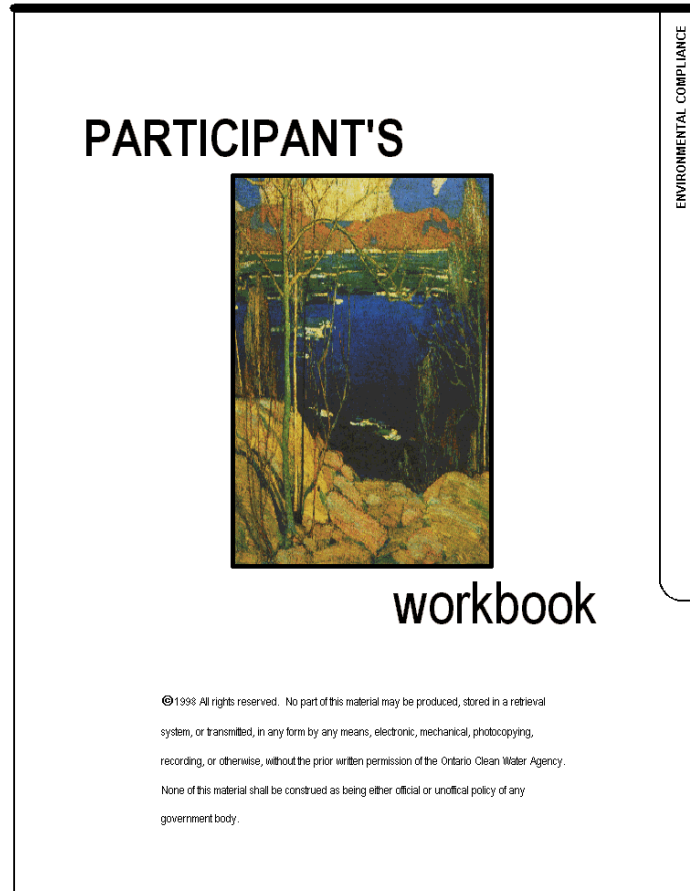
What is EMS

- Key elements include
 - Environmental policy
 - Contingency (Emergency) plan
 - Audit program
 - Incident reporting mechanism
 - O&M manuals
 - Understanding requirements/risks
 - Communications protocol
 - Staff training

Evolution of EMS at OCWA



EMS Elements



EMS and OH&SS Elements

ENVIRONMENTAL POLICY

OCWA's Policy is to:

- Create and maintain a comprehensive Environmental Management System to ensure a high standard of operations and to identify and resolve any environmental risks associated with our operations.
- Continuously review and seek to improve our environmental performances on behalf of our clients. OCWA will strive to surpass the requirements of environmental laws and standards.
- Establish clear environmental objectives, practices and procedures and to train staff on the environmental aspects of our business and their responsibilities for environmental management.
- Audit the facilities we operate to ensure environmental compliance.
- Communicate the environmental aspects of our operations to clients and other interested parties.
- Integrate sound environmental management into all aspects of our business.
- Contribute to a more sustainable future in the jurisdictions where we do business. OCWA will implement economic energy saving and waste reduction projects, promote the wise use of water and cooperate in the development of innovative technology for water/wastewater systems. OCWA will encourage its suppliers to be environmentally responsible.

Approved by the Board of Directors: June 8, 1995.

Reviewed and Approved: December 1998.



EMS Elements

OCWA USE ONLY



2002 ANNUAL SELF ASSESSMENT REPORT
Wastewater Treatment Facility or Water Treatment Facility

Facility Org Unit Number: _____

Facility Works Number: _____

Facility Name: _____

Date Self Assessment Performed: _____

This form is the property of OCWA. When completed, it is Privileged and Confidential.



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Sault Ste. Marie East
Wastewater Treatment Plant


Operations Manual

STATEMENT OF CONFIDENTIALITY

STANDARD OPERATING PROCEDURES

This is an internal copy and is not to be distributed, copied or submitted in any way or form to any person(s) or organization without the written authorization of the Ontario Clean Water Agency.

EMS Elements




Ontario Clean Water Agency
Agence Ontarienne Des Eaux

**Environmental
Management
System**

Environmental Contingency Plan

Facility

This manual is the property of
the Ontario Clean Water Agency



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

CRISIS PLAN

This is a confidential document.
For internal OCWA use only.

Rev 2: February 15, 2001

Value of EMS

Operational excellence	Due diligence
Compliance leadership	Managing responsibilities consistently/ successfully

What is ISO 14001?

- An international standard for the development and registration of EMS
- Requires commitment to pollution prevention, continual improvement and legal compliance
- Includes external audits

ISO 14001 – Step-by-Step

ISO 14001 - EMS CYCLE



ISO 14001 at SSM WWTP

- Registration June 20, 2000
- First WWTP registered in Canada
- Maintained through external audits by SGS
- First OCWA ISO 14001 registration - the water system for the Region of Peel 1998.

Significant Environmental Aspects at SSM

- Handling and use of chlorine gas
- Pump station operation
- Landfilling/waste disposal and reduction
- Trials for new process equipment/new procedures
- Energy savings
- Public awareness/education

Benefits to SSM

- Adds elements that are not a normal part of EMS
- Brings the rigour of external audits
- Establishes compliance leadership
- Contributes to Operational Excellence
 - Understanding of all risks
 - Regular updates of all procedures
 - Improved training

Key Links to P2

- The Planning part of the ISO 14001 cycle requires the development of Environmental Action Plans for each significant environmental aspect or risk.
- These plans anticipate problems that could impact the environment and they set out actions to prevent that impact.
- Consideration is given to reduction or elimination of the risk at the source.