

**CONSOLIDATED ENVIRONMENTAL  
IMPLEMENTATION & MANAGEMENT PLAN  
(CEIMP)**



**Integrated  
Environmental  
Management  
Series**

**Subseries 1.3**



**water affairs**

Department:  
Water Affairs  
REPUBLIC OF SOUTH AFRICA



## List of Acronyms

| Acronym          | Description  |
|------------------|--|
| <b>ACC</b>       | Authorities Co-ordination Committee  |
| <b>ACWUA</b>     | Assessment of Consideration for Water Use Approvals                        |
| <b>CEIMP</b>     | Consolidated Environmental Implementation and Management Plan              |
| <b>CFO</b>       | Chief Financial Officer  |
| <b>DEA</b>       | Department of Environmental Affairs  |
| <b>DEAT</b>      | Department of Environmental Affairs and Tourism                            |
| <b>DWA</b>       | Department of Water Affairs  |
| <b>ECO</b>       | Environmental Control Officer  |
| <b>EIP</b>       | Environmental Implementation Plan  |
| <b>EMC</b>       | Environmental Monitoring Committee   |
| <b>EMP</b>       | Environmental Management Plan  |
| <b>E&amp;R</b>   | Environment and Recreation   |
| <b>IEM</b>       | Integrated Environmental Management  |
| <b>IEMF</b>      | Integrated Environmental Management Framework                              |
| <b>MoA</b>       | Memorandum of Agreement  |
| <b>MoU</b>       | Memorandum of Understanding  |
| <b>NEMA</b>      | National Environmental Management Act (Act 107 of 1998)                    |
| <b>OAG</b>       | Office of the Auditor General  |
| <b>PCI&amp;S</b> | Principles of Criteria Indicators and Standards                            |
| <b>PFMA</b>      | Public Finance Management Act (Act 1 of 1999 as amended by Act 29 of 1999) |
| <b>RDM</b>       | Resource Directed Measures   |
| <b>SADC</b>      | Southern African Development Community                                     |
| <b>SANBI</b>     | South African National Biodiversity Institute                              |
| <b>SDMS</b>      | Sustainable Development Management System                                  |
| <b>SPATSIM</b>   | Spatial and Time Series Information Modelling Software                     |
| <b>WQMS</b>      | Water Quality Management System  |
| <b>WS</b>        | Water Services   |
| <b>WSNIS</b>     | Water Services National Information System                                 |
| <b>WRM</b>       | Water Resource Management  |

## List of Definitions

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| Term               | Definition   |
|--------------------|--|
| <i>CEIMP</i>       | A consolidated implementation and management plan referred to in Section 11(3), Chapter 3 of NEMA, where DWA exercises functions which may affect the environment and involves the management of the environment.  |
| <i>Environment</i> | According to NEMA, the environment is the surroundings within which humans exist, being made up of: <ul style="list-style-type: none"><li>• The land, water and atmosphere of the earth;</li><li>• Micro-organisms, plant and animal life;</li><li>• Any plant or combination of i) and ii) and the interrelationships among and between them; and</li><li>• The physical, chemical, aesthetic and cultural properties and conditions of the above that influence human health and well-being.</li></ul> |
| <i>EIP</i>         | An implementation plan referred to in Section 11(1), Chapter 3 of NEMA that addresses those functions exercised by DWA that have the potential to impact on and effect the environment   |
| <i>EMP</i>         | A management plan referred to in Section 11(2), Chapter 3 of NEMA that addresses those functions exercised by DWA which involve the management of the environment.   |

# Introduction

This booklet provides an overview of the Consolidated Environmental Implementation and Management Plan (CEIMP) developed by the Department of Water Affairs (DWA).

The purpose of the CEIMP is:

- To promote co-operative governance;
- To satisfy environmental reporting requirements of the National Environmental Management Act, 1998 (Act 107 of 1998), Chapter 3;
- To assist the Subcommittee on Environmental Implementation Plans (EIPs) / Environmental Management Plans (EMPs) to align environmental management policies and functions of various Government Departments;
- To be aligned with other reporting requirements (e.g. Public Finance Management Act); and
- To report on environmental performance (in term of objectives & targets).

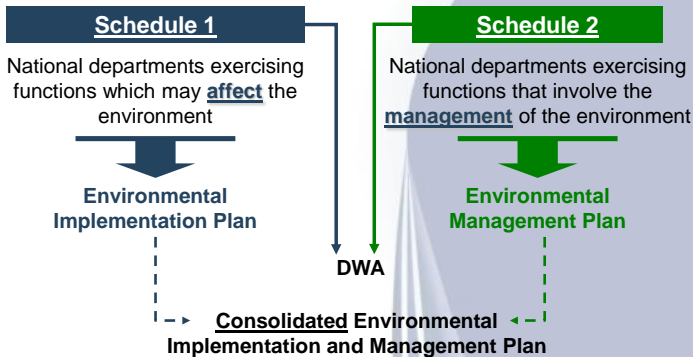
The diagram below indicates how the CEIMP fits into the overall DWA Integrated Environmental Management (IEM) Series.



# Background to CEIMP

According to Chapter 3, Section 11 of NEMA all national departments listed in Schedule 1 are required to develop an Environmental Implementation Plan (EIP) while all national departments listed in Schedule 2 must develop an Environmental Management Plan (EMP). DWA is one of the departments that is listed in both Schedule 1 and 2 and is therefore required to develop both of the aforementioned plans, and thus it is called a CEIMP.

## NEMA, Section 11



- 1<sup>st</sup> Ed CEIMP – March 2001.
- 2<sup>nd</sup> Ed CEIMP – April 2008-March 2012 implementation period.
- 4-year plan of DWA's activities that impact on or manage the environment.
- Compiled by Sub-directorate Environment and Recreation with contributions from relevant departmental units.
- Adopted by DEA Subcommittee on EIPs / EMPs.
- Signed of by DWA Director General → gazetted.
- Annual reports submitted to DEA Subcommittee
- Internal Audit Reports prepared by Sub-directorate Environment and Recreation.

## Development and Implementation of the CEIMP

The aim of the First Edition CEIMP was to improve environmental management within DWA, while the aims of the Second Edition CEIMP are to:

- Ensure compliance with environmental management principles as defined in NEMA;
- Include social, economic and environmental considerations throughout the department's decision-making processes; and
- Address the findings of the audit of DWA's first edition CEIMP by the Auditor General in 2006.

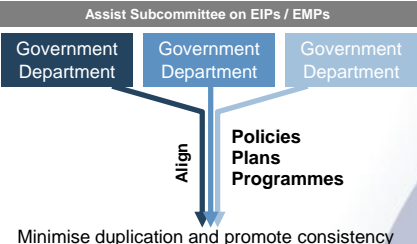
The structure and content of the CEIMP is informed by the following:

- The Second Edition Guidelines for Environmental Implementation and Management Plans, published by the Department of Environment and Tourism (DEAT), 2005;
- The findings of the assessment of DWA's first edition CEIMP by the Subcommittee on EIPs / EMPs, September 2006;
- The close-out audit and findings on DWA's CEIMP first edition (2006);
- The DWA Environmental Reporting Framework and Sustainable Development Management System (SDMS) mechanisms – phase 1 (2006); and
- Findings of Auditor General audit performed for 2006-07 financial year
- The outcome of the meeting held with the Auditor General's Office, 12 February 2008.

Although the primary focus of the CEIMP is to comply with Section 11 of NEMA, DWA has used the opportunity to co-ordinate an effective environmental performance reporting structure that is aligned / harmonised with other reporting requirements, structures and strategic business plans within the department.

# What is the Purpose of the CEIMP?



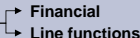
The purpose of the CEIMP is summarised as follows:

- ① **Assist Subcommittee on EIPs / EMPs**  


Government Department    Government Department    Government Department

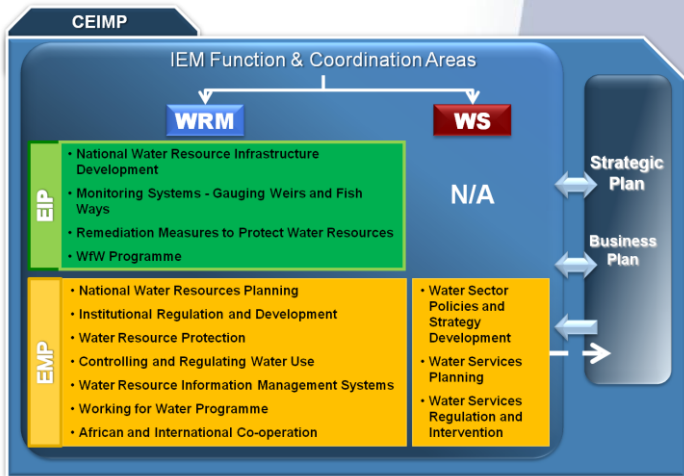
**Align**

**Policies  
Plans  
Programmes**

Minimise duplication and promote consistency
- ② Promote co-operative governance 
- ③ Sustainable management - water resources  

- ④ Include social, economic and environmental considerations throughout the department's decision-making processes
- ⑤ Address findings of audit of DWA's 1<sup>st</sup> Ed CEIMP by the Auditor General in 2006 -
  - Establish a proper management monitoring framework to monitor the review of the CEIMP
  - Performance against predetermined objectives as required by the PFMA, Sections 40(3)(a) and 55(2)(a)
- ⑥ Coordinate environmental reporting with reporting requirements 
  - Financial
  - Line functions

# What is the 2<sup>nd</sup> Edition CEIMP?

The 2<sup>nd</sup> Edition CEIMP can be summarised as follows:



**Note:** The CEIMP must be informed by, and influence, the DWA overall strategic plan/s and Business Plans.

The 2<sup>nd</sup> Edition CEIMP consists of the following:

## DWA'S PRIMARY FUNCTIONS



## OVERVIEW OF THE DWA STRUCTURE

## DWA'S LEGISLATIVE FRAMEWORK



## ENVIRONMENTAL IMPLEMENTATION PLAN

DWA's functions that significantly affect the environment

| WRM  |   |
|--|---|
| • National Water Resource Infrastructure Development |  |
| • Monitoring Systems for Gauging Weirs and Fish Ways |  |
| • Remediation Measures to Protect Water Resources    |  |
| • Working for Water Programme                        |  |

| <del>WS</del>   |
|---|
| DWA has moved away from being an Implementer in WS to a regulatory function only. |
|  |

Compliance with NEMA principles and national norms and standards

- IEM Series
- Strategic Environmental Assessment
  - Sub-Directorate: SFRA
- Public Participation
  - Generic Public Participation Guidelines
- Working for Water Programme
  - Environmental Management Plan
- TCTA and NWRI Branch
  - Environmental Monitoring Committees (EMCs); Authorities Co-ordination Committees (ACCs); Environmental Control Officer (ECO)

### Structures for co-ordination and co-operation:

|   | WRM   | WS  |
|---|---|---|
| DWA                                       | e.g. National Water Resources Planning; Water Use; RDM                  | <b>N/A</b><br>(transferred to local government) |
| National, Provincial and Local Government | e.g. Environmental Affairs (National and Provincial); Mineral Resources |   |
| International partners                    | e.g. SADC Revised Protocol on Shared Watercourses                       |   |
| Parastatals                               | e.g. SANBI, Eskom, Transnet   |   |
| Conservation Authorities                  | e.g. Cape Nature (Western Cape), Ezemvelo KZN Wildlife                  |   |

Arrangements for co-operation

Recommendations to promote IEM

- Environmental Management Plans
- Resettlement plans
- Rehabilitation plans
- Impact Assessment
- Risk Assessment
- Method statements
- Design drawings
- Master layout plan
- Integrated Water and Waste Management plan
- Ecological Reserve
- Resource Quality Objectives
- Resource Classification
- Receiving Water Quality Objectives
- Monitoring, Auditing and Reporting Programmes
- Alternatives
- Wetland Management and Rehabilitation Plans
- Stormwater Management Plans
- Enforcement protocol
- IEM Series will be rolled out
- Environmental reporting will be linked to the CFO reporting structures
- Roles and responsibilities of EMCs, ACCs and ECO functions will be continued and strengthened
- Memorandums of Agreement (MoAs) / Memorandums of Understanding (MoUs)
- Public Participation

Actions Plans

Compliance Key Action Areas for WRM based on the following:

- National Water Resource Infrastructure Development
- Monitoring Systems - Gauging Weirs and Fish Ways
- Remediation Measures to Protect Water Resources
- WFW Programme

Example

Compliance Key Action Areas for National Water Resource Infrastructure Branch

| Sub Programme                             | Outputs  | Measure                               | High Priority Activities   | Responsible Component                              | 08/09 - 11/12   |        |
|---|--|---------------------------------------|--|--|---|--------|
|   |  |                                       |  |  | Target  | Budget |
| Sustainable Infrastructure Implementation | Implementation of new bulkwater infrastructure to facilitate economic growth and development | % completion as per project Programme | Implementation of new bulkwater infrastructure to facilitate economic growth and development | DDG: National Water Resource Infrastructure Branch | Vaal River Eastern Sub-System Augmentation Project (VRESAP) 100% commissioned |        |

## Annual reporting template



| Sub-Programme: Sustainable Infrastructure Implementation   |                |                 |  |   |              |           |   |
|--|----------------|-----------------|--|---|--------------|-----------|---|
| Outputs: Implementation of new bulk-water infrastructure to facilitate economic growth and development                         |                |                 |  |   |              |           |   |
| Measure: Percentage completion as per project programme  |                |                 |  |   |              |           |   |
| <b>High Priority Activities: Implementation of new bulk-water infrastructure to facilitate economic growth and development</b> |                |                 |  |   |              |           |   |
| Responsible Component: Deputy Director General: National Water Resource Infrastructure Branch                                  |                |                 |  |   |              |           |   |
| <b>2008/9</b>  |                |                 |  |   |              |           |   |
| Target   | Budget<br>'000 | Budget<br>Spent | What was achieved?   | What was not<br>achieved?                     | Implications | Solutions | Plans for 2009/10                                       |
| Vaal River Eastern Sub-System Augmentation Project (VRESAP) 100% commissioned - <b>TCTA</b>                                    |                |                 | Commissioning of all projects components to supply water to the delivery points, using the temporary abstraction works, successfully completed | final testing of three pumps running together |              |           | VRESAP: final acceptance after defects liability period |

## ENVIRONMENTAL MANAGEMENT PLAN

DWA's functions that significantly affect the environment

### WRM

- National Water Resources Planning
- Institutional Regulation and Development
- Water Resource Protection
- Controlling and Regulating Water Use
- Water Resource Information Management Systems
- Working for Water Programme
- African and International Co-operation

### WS

- Water Sector Policies and Strategy Development
- Water Services Planning
- Water Services Regulation and Intervention

Compliance with DWA's policies, norms and standards

- Environmental Policy
- National norms and standards for water tariffs
- Integrated Environmental Management Framework (IEMF)
- Sustainable Development Management System
- Water Services National Information System (WSNIS)
- Water Quality Management System (WQMS)
- Groundwater Protocol
- Assessment of consideration for water use approvals (ACWUA)
- Desktop visioning for Resource Directed Management of Water Quality
- Spatial and Time Series Information Modelling Software (SPATISM)
- Groundwater Resource Directed Measures Model
- Resource Water Quality Objective Model
- Principles of Criteria Indicators and Standards (PCI&S)
- Environmental Best Practise Guidelines and Specifications

Arrangements for co-operation

### Structures for co-ordination and co-operation:

- **DWA** – e.g. Management Committees, Technical Committees
- **National, Provincial and Local Government** – e.g. Director General Cluster; Water Sector Leadership Group; Provincial Water Sector Development Plans; Wetland Forums
- Subcommittee on EIPs / EMPs; and other technical committees

|   | WRM  | WS   |
|---|--|--|
| DWA   | e.g. National Water Resource Infrastructure Branch ; Water Use; RDM                                      | e.g. Water Resource Management; Legal Services; Water Services               |
| National, Provincial and Local Government               | e.g. Environmental Affairs (National and Provincial); Mineral Resources; Provincial and Local Government | e.g. Provincial and Local Government; Housing; Health                        |
| International partners                                  | e.g. SADC Revised Protocol on Shared Watercourses  | e.g. NEPAD; SADC; African Minister's Council on Water (AMCOW)                |
| Parastatals   | e.g. SANBI, Eskom, Transnet  |  |
| Conservation Authorities                                | e.g. Cape Nature (Western Cape), Ezemvelo KZN Wildlife   |  |
| Water Management Institutions & Water Service Providers | CMA's, Water User Associations, Irrigation Boards  | Umngeni Water, Rand Water, Sedibeng Water, Magalies Water, Bloem Water, etc. |

### Recommendations to promote IEM

- The IEM Series and IEM Steering Committee will be the main driving forces to promote IEM
- Rolled out through the IEM Series and CEIMP communication and implementation strategies
- DWA Environmental Policy
- Classification of Water Resources
- Planning unit initiatives to protect Water Resources
- Ecological Reserve
- Water Quality database
- Water Services database
- Setting up operational policies
- Guideline monitoring programme (e.g. Water Quality Guidelines)

### Actions Plans

#### Compliance Key Action Areas for WRM & WS

##### WRM

- National Water Resources Planning
- Institutional Regulation and Development
- Water Resource Protection
- Controlling and Regulating Water Use
- Water Resource Information Management Systems
- Working for Water Programme
- African and International Co-operation

##### WS

- Water Sector Policies and Strategy Development
- Water Services Planning
- Water Services Regulation and Intervention

**Example** Compliance Key Action Areas for Water Resource Protection

| Sub Programme                    | Outputs   | Measure   | High Priority Activities  | Responsible Component                      | 08/09 - 11/12  |            |
|----------------------------------|---|---|---|--|--|------------|
|                                  |   |   |   |  | Target   | Budget     |
| Protection policies and measures | System developed for assessment and protection of water resources | Water resources classified in priority catchments | Classification system procedure developed<br>Conservation planning policy finalised | Chief Director: Resource Directed Measures | Finalise classification system regulations<br>Conservation planning policy finalised | R 2. 5 mil |

**Annual reporting template**



| Sub-Programme: Protection policies and measures                            |             |              |  |  |   |  |  |
|--|-------------|--------------|--|--|---|--|--|
| Outputs: System developed for assessment and protection of water resources |             |              |  |  |   |  |  |
| Measure: Water resources classified in priority catchments                 |             |              |  |  |   |  |  |
| <b>High Priority Activities: Classification System Procedure Developed</b> |             |              |  |  |   |  |  |
| Responsible Component: Chief Director: Resource Directed Measures          |             |              |  |  |   |  |  |
| 2008/9   |             | Budget Spent | What was achieved?                     | What was not achieved?                                     | Implications  | Solutions  | Plans for 2009/10                              |
| Target   | Budget '000 |              |  |  |   |  |  |
| Finalise classification system regulations                                 | R 955 269   | R 198 602    | Draft Classification System developed. | Compilation of reports on all comments on the second draft | The implementation of the Water Resource Classification system cannot be carried out before it is gazetted. On the other hand other processes in the IWRM cannot continue without the latter. | The second submission to finalise the gazettement have been forwarded the DG's for approval. | Classification system regulations promulgated. |

**Reporting and auditing same as for EIP**

## What is your role in terms of the CEIMP?

- ☞ Provide input bi-annually (May & Nov) on new programmes & priorities, environmental highlights, challenges, partnerships and cooperative governance.
- ☞ Update Action Plans for Implementation of Policies, Plans and Programmes annually.
  - ☞ Notify the Sub Directorate: E&R of any new policies, plans, programmes and agreements that need to be included in the document.
  - ☞ Ensure that all business plans provide a budget for the implications of the CEIMP on your line functions, as per PFMA requirement in Sections 40(3)(a) and 55(2)(a) .
  - ☞ Implementation of activities accordingly and timely.
  - ☞ Incorporate Office of Auditor General findings.
  - ☞ How does DWA interact with Local Authorities?
  - ☞ Achievements in terms of authorisations.
  - ☞ Alignment of policies and guidelines - national and international departments.
- ☞ Given that the implementation of the CEIMP is a mandatory requirement, you must ensure that all officials are sensitised to the principles of the CEIMP and report timeously as required.



# Conclusions

The Department updates the CEIMP Communication and Implementation Strategy for each four year cycle to be rolled out through the IEM Series and associated training initiatives.

The key findings of the audit of the 2006 CEIMP included the following:

- Budgetary information should be made available;
- Better alignment of co-ordination and co-operative governance structures;
- User friendly version for the annual progress reports are required;
- Better alignment of business plans to the CEIMP; and
- Improved management monitoring framework of CEIMP reviews.

The development of the 2<sup>nd</sup> Edition CEIMP has taken the audit findings mentioned above into account. The action tables are aligned to business plans and will form the basis for future reporting.

There will be an annual progress report done on the CEIMP Editions and the annual performance audit to ensure corrective measures every year. The development and implementation of the SDMS will also assist in effective environmental reporting mechanisms based on predetermined objectives through consultations with the Chief Financial Officer. The SDMS will be rolled in the future according to an implementation plan.

The Department will attempt where possible to include the financial implications of its management and impacting functions on the environment through the annual CEIMP 2<sup>nd</sup> Edition progress report and will strive in future to adopt the Environmental Management Accounting concept through discussions with the National Treasury, Office of the Auditor General (OAG) and DWA's Chief Financial Officer.

Cooperative Governance will be promoted through MoA's and/or through development of policies, plans and programmes on a sector and inter-department level.

The CEIMP will form the basis for better understanding and integration of environmental issues within all structures of DWA.

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**Want to know more?**

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