



SCREENING CHAPTER 27 ENVIRONMENT

AGENDA ITEM: NITRATES Directive 91/676/EEC

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LEGISLATIVE FRAMEWORK

- Decree Law No. 441 on Establishment and Tasks of Ministry of Agriculture and Rural Affairs (MARA)
- Law No. 1380 on Fisheries
- Law No. 2872 on Environment
- Law No. 4856 on Establishment and Task of Ministry of Environment and Forestry (MoEF)
- By-law on the Protection of Waters Against Pollution
 Caused by Nitrates from Agricultural Sources





COMPETENT AUTHORITIES

Coordinator: MARA

Main responsible authorities for implementation

- MARA
- MoEF
- General Directorate of State Hydraulic Works (DSI)





COMPETENT AUTHORITIES (CONT'D)

MARA

81 Provincial directorates

40 Laboratories located in provinces

90 Mobile photometers

MoEF

81 Provincial directorates

1 Reference Laboratory

DSI

25 Regional Directorates (basin wide)

23 Regional Laboratories





CONTENT OF THE BY-LAW

The By-law addresses following provisions in the Directive

- Objective
- Pollution determination
- Determination of nutrient vulnerable zones (NVZ)
- Good Agricultural Practices
- Establishing action program
- Monitoring





ONGOING TECHNICAL STUDIES

MARA, MoEF and DSI have established a technical study group focusing on:

- Harmonize the Nitrate Directive
- Determine responsibilities so as to
 - evaluate monitoring
 - designate NVZs
 - establish Code of Good Agricultural Practices
 - establish action programmes
 - implementation
 - reporting

A MATRA project provides technical support





IMPLEMENTATION

1) Identifying Waters

- At provincial level
- Covering all intensive agricultural areas
- Surface and ground waters are identified considering waters
 - Polluted
 - could be polluted,
 - under pressure

In this respect 3 Ministerial (MARA) Circular Order came into force





IMPLEMENTATION (CONT'D)

- 2) Monitoring program
 a) Nitrate in surface and groundwater
 - Started in 2005Taking into consideration
 - By-law on Nitrates
 - EC Nitrates Guideline
 - Soil-water structure
 - Training regional-provincial experts on
 - Selection of sampling points
 - Sampling, storing, transferring
 - Analysis
 - Filling forms related to environment
 - Within the framework of MATRA project pilot areas are selected regarding observation monitoring and samplinganalysis





IMPLEMENTATION (CONT'D)

b) Eutrophication

No monitoring system established yet,

However;

In the framework of MATRA project a workshop planned on

- deciding parameters for analysis
- establishing monitoring

Eutrophication parameters are being monitored in accordance with

The Barcelona and the Bucharest Conventions
 In the Mediterranean and the Black Sea coastal waters

And DSI

Dams, irrigation ponds, drainage channels and estuaries





IMPLEMENTATION (CONT'D)

- 3) Nutrient Vulnerable Zones

 Eutrophication status or if nitrate level over 50 mg/l,

 NVZ will be designated after assembling sufficient
 monitoring data related to
 - Groundwater
 - Surface water
- 4) Code of good agricultural practices will be prepared by MARA considering
 - Results of monitoring
 - Agricultural data and practices
 - Existing national legislations such as By-law on Good Agricultural Practices





IMPLEMENTATION (CONT'D)

5) Action program in NVZ will be established by MARA in the process of designating NVZ regarding provisions set out in the By-law and existing national legislation considering measures to prevent water pollution;

taking into account:

- fertilizing period
- minimum manure storage capacity
- manure handling
- limits for fertilizer utilization etc.





ASSESSMENT

- Nitrate Directive is complex
- Implementation may take time
- Diverse NVZs
- Improved monitoring network and analysis
- Overuse of fertilizer and manure is not a nation wide problem, "hot spots"
- Irrigated farming as potential source of nitrate
- Inappropriate manure handling is a problem
- Technical studies (MATRA and WB-GEF on agricultural pollution control)





PLANNED ACTIVITIES

- Workshop on eutrophication, database and reporting
- Combining monitoring data, agricultural data and GIS: a national image on nitrate
- Identification of provinces at risk
- Further studies on
 - first Code of Good Agricultural Practices
 - first Action Program
 - first report to EC: baseline report
 - improve monitoring network
 - NVZs





THANK YOU FOR YOUR ATTENTION