INTERMEDIATE RESERVE DETERMINATION STUDY FOR SELECTED WATER RESOURCES IN THE CROCODILE WEST AND MARICO MANAGEMENT AREA

Progress





Department: Water Affairs REPUBLIC OF SOUTH AFRICA



Acknowledgements

- Other directorates
- Regional Offices
- Other Provincial Departments
- Teams of experts that carried out the study
 - Golder
 - BKS
 - Sub consultants



Aims of study

- Determining Ecological Water Requirement (EWR) (quantity and quality) at intermediate level of detail
- Assess wetlands in terms of their type, distribution, health, function, importance, sensitivity and present state and determine the Reserve for the priority wetlands
- Groundwater scoping assessment
- Outline the socio-economic water use situation in the study area
- Determine the Basic Human Needs Reserve
- Capacity building



Study Procedure



EWR 1: Crocodile River

Capacity building

water affairs Department: Water Affairs REPUBLIC OF SOUTH AFRICA

Eco-classification - Summary

Site	PES	Importance	Ecological Category		
		EIS	REC	Alternatives	
				AEC up	AEC down
Crocodile (West) catchment					
1	D	Moderate	D	D	N/A
2	E	Moderate	D	D/E	N/A
3	C/D	High	C/D	С	D
4	С	High	С	С	С
5	D	High	D	С	N/A
6	D	Moderate	D	C/D	N/A
7	D	Moderate	D	D	N/A
8	С	Moderate	С	С	D

Recommendations (1)

- Water quality management of the discharges in the catchment is the only way of improving the ecological status (more stringent source control)
- The proposed transfer from the Vaal River needs stringent water quality requirements so as not to deteriorate the receiving water quality
- Detail water availability assessment in the Maloney's Eye dolomitic compartment

Recommendations (2)

- Validate and Verify water use in the Middle and Lower Crocodile River upstream of EWR 8
- Implement the ecological Reserve monitoring programme
- More detailed study required for identified wetlands to be affected by licence applications

