

# **ADOPT-A- RIVER PROGRAMME PHASE II: DEVELOPMENT OF AN IMPLEMENTATION PLAN TRAINING MATERIAL AND TRAINING NEEDS**



**water affairs**

Department:  
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**REPUBLIC OF SOUTH AFRICA**

Directorate: Resource Quality Services, Department of Water Affairs

## Republic of South Africa

# ADOPT-A- RIVER PROGRAMME PHASE II: DEVELOPMENT OF AN IMPLEMENTATION PLAN TRAINING MATERIAL AND TRAINING NEEDS

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### Reports as part of this project:

Report number	Report Title
N000000RET0109	Adopt-a-River Programme Phase II: Development of an Implementation Plan. Inception Report
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N000000RET0209	Adopt-a-River Programme Phase II: Development of an Implementation Plan. Database of stakeholders
Authors	A. Neumann
N000000RET0309	Adopt-a-River Programme Phase II: Development of an Implementation Plan. Monitoring Models
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N000000RET0609	Adopt-a-River Programme Phase II: Development of an Implementation Plan. Manual for Volunteer Monitoring
Authors	K. Versfeld and J.N. Rossouw
N000000RET0709	Adopt-a-River Programme Phase II: Development of an Implementation Plan. Programme coordination manual for National and Regional coordinators
Authors	T. Manxodidi and J.N. Rossouw
N000000RET0809	Adopt-a-River Programme Phase II: Development of an Implementation Plan. Communication Structures
Authors	P. de Souza, K. Versfeld and J.N. Rossouw
N000000RET0909	Adopt-a-River Programme Phase II: Development of an Implementation Plan. Training Material and Training Needs
Authors	K. Versfeld and J.N. Rossouw
N000000RET1009	Adopt-a-River Programme Phase II: Development of an Implementation Plan. Implementation Manual
Authors	Y. Burger, P. de Souza, J.N. Rossouw and L. Rossouw
N000000RE T1109	Adopt-a-River Programme Phase II: Development of an Implementation Plan. Recommendations for the Implementation of the Adopt-a-River Programme
Authors	Y. Burger, P. de Souza, J.N. Rossouw and L. Rossouw

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## EXECUTIVE SUMMARY

It has been acknowledged that the future of our water resources and the sustainability thereof are dependent on the attitude of the water resource users. For this reason, the role of community involvement through volunteer programmes cannot be underestimated. It is thus vital to the success of the Adopt-a-River Programme that volunteers are aware of the significant role that they play in preserving and protecting the water resource.

Effective training of volunteers is critical for volunteer competency and satisfaction. Thus a well structured training programme and the dissemination of useful and applicable literature is required. There are many training programmes available locally through Universities or through government partnerships, such as FETWater. Training can also be done out in the field, where a particular activity is demonstrated.

This report includes a guide on how to set up a training course, details of training courses available in South Africa, and a bibliography of training material developed in South Africa and elsewhere in the world.

Volunteer training programmes strive to educate, motivate, and teach new skills, while developing a sense of loyalty and a positive relationship between the project coordinator (National or Regional Coordinator or the Local Group Leader) and the volunteers. The training course guidelines provide invaluable information that should be taken into consideration when planning and conducting a training course. Topics that have been covered in this section include “how to create a good training environment”, “what makes an effective session” and “field training”.

The bibliography was primarily sourced from documents available on the internet. A “Google search” on volunteer water quality monitoring programmes resulted in about 640 000 hits, indicating that there is a significant amount of information available on the internet. The documents that have been included in this bibliography have been reviewed to ensure that they are applicable and produced by a reliable source. Organisations such as WESSA have an extensive collection of material in their Wetland Alliance for Training, Education and Research (W.A.T.E.R.) library. This can be sourced from them by Adopt-a-River coordinators. Recommendations were also made about training courses and material that could be developed to support volunteer monitoring in South Africa.



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## **1. INTRODUCTION**

This chapter provides a brief outline of this manual

### **1.1 VALUE OF TRAINING**

It has been acknowledged that the future of our water resources and the sustainability thereof are dependent on the attitude of the water resource users. For this reason, the role of community involvement through volunteer programmes cannot be underestimated. It is thus vital to the success of the Adopt-a-River Programme that volunteers are aware of the significant role that they play in preserving and protecting the water resource.

Effective training of volunteers is critical for volunteer competency and satisfaction. Thus a well structured training programme and the dissemination of useful and applicable literature is required. There are many training programmes available locally through Universities or through government partnerships, such as FETWater. Training can also be done out in the field, where a particular activity is demonstrated.

### **1.2 PURPOSE OF THIS REPORT**

The purpose of this Report is to provide information on training courses available in South Africa, provide guidelines on how to set up a training course and what should be taken into consideration when planning a training course to ensure that it is an effective session, and to provide a bibliography of documents which provide invaluable information on volunteer programmes.

## 2. TRAINING COURSES

This chapter provides a list of some of the training courses available in South Africa and an outline of how to structure a successful training programme.

### 2.1 TRAINING COURSES

**Table 1** provides a list of training course available on water related topics. Note that this is not a comprehensive list as new courses are introduced by training institutions to accommodate the needs of practitioners. A concern is that many of the courses tend to be aimed at participants with some scientific training and are not necessarily tailored to meet the needs of non-scientists.

**Table 1 Examples of training courses offered in South Africa that could support Adopt-a-River activities**

Title of course	Course objectives	Organisation / company presenting the course	Contact details for further information
Short courses in managing rivers and wetland ecosystems.	To provide training at a professional scientific level that qualifies candidates on a nationally and internationally recognized expertise level in managing riverine and wetland ecosystems.	FETWater presented by the Department of Zoology, University of Johannesburg	FETWater River and Wetland course coordinator Department of Zoology, University of Johannesburg Tel: 011 – 559 2951 Email: <a href="mailto:fetwater@uj.ac.za">fetwater@uj.ac.za</a>
Water quality monitoring: Principles, approaches and techniques	The Course aims to enable environmental managers to understand the principles and the practical approaches and techniques required to effectively monitor chemical, hydrological, microbiological and aquatic elements of water quality.	Centre for Environmental Management (CEM) at the Potchefstroom Campus of the North-West University	CEM Tel: 018 299 2714 Email: <a href="mailto:ceminfo@nwu.ac.za">ceminfo@nwu.ac.za</a>
Introduction to managing environmental water quality	This course allows for hands-on experience of standard aquatic toxicity tests and provides a basic understanding of toxicological concepts and designing and interpreting toxicity experiments.	Unilever Centre for Environmental Water Quality at Rhodes University	Tel: 046 622 4014 Email: <a href="mailto:registrar@ru.ac.za">registrar@ru.ac.za</a>
Environmental Education course for Water Management/ Natural Resource Management/ Agriculture/ Environment Practitioners	The goal of the course is to help Natural Resource Managers develop a better understanding of integrating environmental learning into their respective workplace activities.	SADC Regional Environmental Education Centre, Howick	Tel: 033 330 3931 Email: <a href="mailto:sally@wessa.co.za">sally@wessa.co.za</a> Web site: <a href="http://www.sadc-reep.org.za">www.sadc-reep.org.za</a>
Course in SASS5: A Rapid Method for Water Quality Assessment	Short course in the application of the SASS5 methodology for assessing river health and water quality in rivers.	Nepid Consultants White River	Tel : 013 7511533 Web site: <a href="http://www.nepid.co.za">www.nepid.co.za</a>
Wetland Index of Habitat Integrity	Training on the use of the Wetlands IHI for floodplains and valley bottoms.	River Health Programme, Resource Quality Services, DWA	Tel: 012 808 9500 Web site: <a href="http://www.dwaf.gov.za/iwqs">www.dwaf.gov.za/iwqs</a>

## 2.2 SETTING UP A TRAINING COURSE

The National coordinator and later the regional coordinator will have the responsibility of identifying the training needs of Adopt-a-River participants and establishing a portfolio of simple training courses to meet their needs. Volunteer training programmes strive to educate, motivate, and teach new skills, while developing a sense of loyalty, belonging and a positive relationship between the project coordinator (National or Regional Coordinator or the Local Group Leader). The following guidelines include valuable practices which can be incorporated into the training programme to ensure that it is an effective session (CSREES Volunteer Monitoring Efforts Website<sup>1</sup>).

## 2.3 CREATING A GOOD TRAINING ENVIRONMENT

### (1) ***Create an atmosphere that values volunteers, both as individuals and for the work that they do***

- Treat volunteers with respect.
- Greet volunteers individually as they arrive and have name tags and training materials ready.
- Provide many opportunities for volunteers to contribute their own experience.
- Pay attention to volunteers physical and emotional well being throughout the training.
- Provide refreshments.
- Thank volunteers for their participation.

### (2) ***Create community and build personal connections***

- Include an ice-breaker, such as having volunteers introduce themselves and indicate why they are interested in being part of the programme.
- Use case studies.
- Use small groups to provide an opportunity for quieter people to express themselves.
- Begin and end each training opportunity to provide feedback.

### (3) ***Provide necessary information, skills, and skills practice***

- Present and discuss information and skills, incorporating visuals and demonstrations.
- Use case studies with data from the programme.
- Allow each group member to practice the skills until they are comfortable.
- Provide handouts and other resource materials.

## 2.4 FIELD TRAINING

Getting volunteers out into the water is an important initiative for developing the confidence needed for successful volunteer projects. By allowing the volunteer to practice and use the monitoring equipment it will clarify some of the technical aspects of the equipment and will help volunteers to better understand the concepts that are being taught. A generic field session outline is provided below:

- Introduction of trainers and participants.

<sup>1</sup> USDA National Facilitation of CSREES Volunteer Monitoring Efforts Website. <http://www.usawaterquality.org/volunteer/>

- Briefly review the aim of the field session and what you hope the volunteers to gain from the field session.
- Review safety considerations
- Review the procedures that the volunteers will be using.
- Demonstrate the procedures.
- Allow volunteers to practice the procedures until they are comfortable with them.
- Summarise the aspects covered in the field session.
- Answer final questions and concerns.

Identifying appropriate locations for field training sessions requires considerations of a number of factors. Advanced visits to potential training sites by the project coordinator are necessary to ensure that the site is appropriate and will provide a good training opportunity for the volunteers. Training site factors to be considered include:

**(1) Accessibility**

Training locations need to be easily found by volunteers, with simple directions or signage provided.

**(2) Safety**

Safety needs to be constantly on your mind. Things to be cautious of include proximity to high crime areas, steep slopes or unstable banks, proximity to traffic, and the depth and swiftness of the water. In case conditions change at the selected site, due to recent rainfall, it is a good idea to have a back-up. Take a first aid kit to the site.

**(3) Site size**

The field site needs to be large enough to accommodate the number of volunteers, but not too large as volunteers may wander off.

**(4) Aquatic features**

Does the site provide enough diversity to perform all planned activities safely and successfully?

**(5) Ecological vulnerability**

Is the site critical or contain rare habitats? Will the impact of the volunteers trampling and disturbing the site result in loss of a rare habitat?

**(6) Permission**

Is it a public site or private property? Do you need permission to access the site?

**(7) Distance and vehicle arrangements**

How far away is the site? Will it take longer to get to the site than the actual training? Will you need to car pool or provide transport? Will you need 4x4 vehicles or can a car be driven to the site?

**(8) Season**

Some of the training aspects are dependent on the season. For example, you need low flow to collect aquatic invertebrates for mini-SASS or clearing of invasive alien

vegetation which may be most effective at a certain time of year. Also rain events before or on the date of training may cause problems.

**(9) *Shelter from inclement weather***

Providing access to an indoor or sheltered location where volunteers can get in from an unexpected rain storm, cold temperatures, or hot sun can improve the volunteers' comfort and quality of training.

## **2.5 WHAT MAKES AN EFFECTIVE TRAINING SESSION?**

**(1) *A clear agenda:*** Enable participants to know what they will be doing during the training session and how what they will be learning relates to the project.

- Training goals
- Agenda items with times

**(2) *A safe environment:*** Put people at ease and make them feel comfortable participating.

- Icebreaker
- Layout of the room to ensure that it suits the activities
- Information presented in manageable chunks

**(3) *A mixture of activities for different learning styles:*** People learn in different ways – passive listening, verbalising, and actively doing.

- Lecture
- Discussion
- Brainstorming
- Hands-on

**(4) *Small and large group activities:*** Group dynamics, participation, and effectiveness vary greatly with size. Tailor the size of the group work to the activity.

- Small group work for discussion and hands-on activities
- Large groups for sharing or brainstorming

**(5) *Evaluation: Was the workshop effective?*** How could it be improved? This feedback is essential for trainers.

- Verbal
- Written

## **2.6 NETWORK OF REGIONAL TRAINERS AND FACILITATORS**

The coordinator should establish a network of professional trainers, practitioners and facilitators that can be called upon to support Adopt-a-River activities in a specific region. Such a network already exists for the River Health Programme and it can form the foundation for an Adopt-a-River trainer's network. The coordinator should create an enabling environment within which groups undertaking Adopt-a-River activities can identify suitable trainers in their region, set up a short course, obtain material such as booklets, manuals, presentations, etc. for the course, and if necessary, obtain funding to cover the transport costs of trainers.

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## 2.7 IDENTIFICATION OF TRAINING NEEDS AND MATERIAL

There is a vast amount of material available to support volunteer monitoring. Many of the material developed overseas are sufficiently generic to be applicable to South African water bodies. As part of this project a manual was developed for volunteer monitoring. The manual provides a description of basic water monitoring procedures required for water quality monitoring in rivers and reservoirs. It also provides an introduction to monitoring and covers topics such as planning a monitoring programme, security and water safety, basic equipment, and general preparations and sampling procedures. The manual also describes simple monitoring techniques for visually assessing the state of a river or reservoir, procedures for collecting water samples, and protocols for monitoring temperature, water clarity, dissolved oxygen, pH, and collecting samples for chemical and bacteriological analysis in a laboratory. It also provides tables for interpreting chemical analysis results which are based on the South African water quality guidelines.

The River Health Programme established by DWA developed appropriate assessment tools for use by aquatic and terrestrial scientists. However, these tools are inappropriate for non-scientists (i.e. most volunteers). The protocols for assessing the health of a river using aquatic invertebrates (SASS) were simplified for use by non-scientists (mini-SASS) as part of a Water Research Commission funded project. The report and supporting training material for mini-SASS should be available during the second half of 2009.

The Department developed a series of tools for the ecoclassification of rivers. These include the Macroinvertebrate Response Assessment Index (MIRAI), the Fish Response Assessment Index (FRAI), the Riparian Vegetation Response Assessment Index (VEGRAI), the Geomorphological Driver Assessment Index (GAI) and the physico-chemical assessment index (PAI). However, these manuals were designed to be used by experienced aquatic scientists.

It is recommended that similar simplifications be undertaken for these manuals as was done for mini-SASS to enable volunteer monitors to undertake a much simplified assessment of the status of a stream, river or reservoir. The USEPA's "Stream Habitat Walk" and the US Department of Agriculture's "Stream Visual Assessment Protocol" are examples of such simplified manuals.

### **3. INTRODUCTION TO BIBLIOEXPRESS**

This chapter provides information in BiblioExpress and includes a hardcopy of the BiblioExpress reference list and a hardcopy of some of the documents.

#### **3.1 TRAINING MATERIAL**

This file includes a bibliography, and for some references a hard copy of the document has been included, of training material developed in South Africa and elsewhere in the world. This is by no means a comprehensive collection of training material available, but represents the material that was collected during the execution of the project. There is a wide selection of material available on the internet and references to appropriate websites were stored in the bibliography.

The bibliography is also available in electronic format which can only be accessed using BiblioExpress, which is free software that can be downloaded from the following website (<http://www.biblioscape.com/>). The advantages of using BiblioExpress include multiple users, ease of use, and it can store up to 200 million references in a single database.

#### **3.2 BIBLIOEXPRESS USER INFORMATION**

##### **3.2.1 Installation**

After downloading BiblioExpress from the web (<http://www.biblioscape.com/>), double click the executable, select the drive and folder where you want BiblioExpress to be installed. If you have a previous version of BiblioExpress on your computer, please install the new version to a different folder or remove the older version first. The size of the BiblioExpress file which is downloaded from the internet is about 5 megabytes.

##### **3.2.2 Removal**

You can remove BiblioExpress by deleting the BiblioExpress folder. Since the installation process is simply unzipping files to an empty folder. It is not registered to any place in Window. So the removal is as simple as deleting the BiblioExpress folder.

##### **3.2.3 System Requirements**

BiblioExpress runs only under Windows 95, 98, Millennium, NT 4, 2000, XP, and Vista. It does not run under Windows 3.1, or other operating systems (Macintosh, UNIX). Recommended Configuration:

- Win 95, 98, Me: Pentium, 32 MB RAM
- Win NT4, 2000: Pentium, 64 MB RAM
- Win XP: Pentium III, 128 MB RAM

##### **3.2.4 License agreement and copyright**

BiblioExpress can be used for an unlimited time and is free. You may distribute it to others so long as all files are left unchanged. You may not distribute BiblioExpress in any way which leads to your making a profit from it.



### 3.2.5 Biblioexpress user guide

The following menu options are available:

- File;
- Edit;
- View;
- References; and
- Help.

Some of the functions available for each of the menu options are described below. A complete guide is available on the BiblioScape User Community website<sup>2</sup> and in the “Help” menu.

### 3.2.6 File

- **New Database:** To create a new database. The current database will be saved first, and you will be prompted for a file name for the new database.
- **Open Database:** To open an existing BiblioExpress database. The current database will be saved first, and you will be prompted for a file name for the program to open.
- **Print:** To print the currently selected records. If you want to print all records in the data file, do a “Edit | Select All” (Ctrl+A) first before print.
- **Exit:** Exit BiblioExpress. The current database will be saved first before exit.

### 3.2.7 Edit

- **Shoot to Footnote:** Copy the current reference into Windows Clipboard. If Word or WordPerfect is open, a footnote will be inserted at the current cursor position in your document and the formatted reference will be pasted into the footnote.
- **Shoot to Endnote:** Copy the current reference into Windows Clipboard. If Word or WordPerfect is open, an endnote will be inserted at the current cursor position in your document and the formatted reference will be pasted into the endnote.
- **Find:** To open the “Find” window, and find specified text in specified data field or any data field.

### 3.2.8 View

- **Current View / Group By:** To show the column grouping bar, you can then drag a column header to the bar to group records based on the contents of selected column. Click again to hide the column grouping bar.
- **Current View / Field Chooser:** To show a Window with all available data fields, you can then drag data field to the data grid to display, or drag a column on the data grid back to that Window to hide.

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<sup>2</sup> <http://support.biblioscape.com/node/1253>

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### 3.2.9 References

- **New Reference:** To add a new record into the data file.
- **Create Duplicate:** To add a new record base on the currently selected record.
- **Delete:** To delete currently selected records.
- **Open:** To edit the selected record with reference editor. Double click the selected record can do the same thing.
- **Retrieve All: Go to the first record in the list.**
- **Search / Fast Search:** Jump to record by a number.
- **Search / Dynamic Folder:** Go to the last record in the list.

### 3.2.10 Help

- **Content and Index:** To open the Windows online help of BiblioExpress.
- **BiblioExpress on the Web:** To go to BiblioExpress web site using default web browser.
- **About BiblioExpress:** To show the “About” window of BiblioExpress.

## **Appendix A: Bibliography**

**Authors:** Waterwatch Tasmania  
**Title:** Waterwatch Tasmania  
**Year:** 2008  
**Date:** 2008/08/20  
**Notes:** The official web site of the Tasmanian Waterwatch programme.  
**URL:** <http://www.taswaterwatch.org.au/>  
**Reference ID:** 12

**Authors:** Massachusetts Water Watch Partnership  
**Title:** Lake Volunteer Water Quality Monitoring Manual  
**Year:** 2003  
**Volume:** 2008  
**Number:** 5/2/2008  
**Notes:** Manual designed for lake monitors  
**URL:** <http://www.umass.edu/tei/mwwp/acrobat/lake%20manual.pdf>  
**Reference ID:** 2

**Authors:** US Environmental Protection Agency (USEPA)  
**Title:** Volunteer Monitoring  
**Year:** 2008  
**Date:** 2008/01/31  
**Notes:** This is the web site for volunteer monitoring of the USEPA. It has fact sheets, methods manuals, newsletters (The Volunteer Monitor), a Listserver, conferences and events, and links to other web sites related to volunteer monitoring.  
**Type of Work:** Web site  
**Abstract:** The USEPA's comprehensive site designed to disseminate information about volunteer monitoring. The site has links to fact sheets, methods manuals, newsletters (The Volunteer Monitor), listservers, a directory of volunteer monitoring programmes, announcements of conferences and events, and links to other volunteer monitoring web sites.  
**URL:** <http://www.epa.gov/volunteer/>  
**Reference ID:** 3

**Authors:** US Environmental Protection Agency (USEPA)  
**Title:** Monitoring and Assessing Water Quality  
**Year:** 2008  
**Volume:** 2008  
**Notes:** This USEPA web site has links to most of the EPA water quality and water resource monitoring activities and reports and publications that support monitoring. It links for example to the USEPA volunteer monitoring web site. Useful publications on quality control procedures are also available.  
**URL:** <http://www.epa.gov/owow/monitoring/>  
**Reference ID:** 4

**Authors:** US Environmental Protection Agency (USEPA)  
**Title:** Celebrate Water Monitoring Month  
**Year:** 2008  
**Volume:** 2008  
**Notes:** This site lists outreach and educational material that is available from the USEPA  
**URL:** <http://www.epa.gov/owow/monitoring/volunteer/monitoringmonth.html>  
**Reference ID:** 5

**Authors:** River Health Programme  
**Title:** The South African River Health Programme  
**Year:** 2008  
**Volume:** 2008  
**Notes:** The official web site of the South African River Health Programme. The site has manuals, State-of-the-River Reports, and links to similar web sites.  
**URL:** <http://www.dwaf.gov.za/iwqs/rhp/naehmp.htm>  
**Reference ID:** 6

**Authors:** Volunteer Water Quality Monitoring National Facilitation Project  
**Title:** Guide for Growing CSREES Volunteer Monitoring Programs  
**Year:** 2008  
**Volume:** 2008  
**Notes:** This guide has been designed as a number of chapters and they include: Getting started, Why monitoring makes sense, Designing your monitoring strategy, Monitoring matrix, Effective training, Direct links to monitoring program manuals, Building credibility, Sharing information through the Internet, Volunteer Management, Planning your data management.  
**URL:** <http://www.usawaterquality.org/volunteer/GuideForGrowing/index.html>  
**Reference ID:** 8

**Authors:** Volunteer Water Quality Monitoring National Facilitation Project  
**Title:** Volunteer Water Quality Monitoring National Facilitation Project  
**Year:** 2008  
**Volume:** 2008  
**Notes:** This Volunteer Water Quality Monitoring National Facilitation Project is designed to build a comprehensive support system for Extension volunteer water quality monitoring efforts across the USA.  
**URL:** <http://www.usawaterquality.org/volunteer/>  
**Reference ID:** 9

**Authors:** Waterwatch Tasmania  
**Title:** Manuals of Waterwatch Tasmania  
**Year:** 2008  
**Volume:** 2008  
**Notes:** Manuals for the Tasmanian Waterwatch programme.  
**URL:** <http://www.taswaterwatch.org.au/manuals.htm>  
**Reference ID:** 14

**Authors:** Australian Waterwatch  
**Title:** Australian Waterwatch web site  
**Year:** 2008  
**Volume:** 2008  
**Notes:** Official web site of the Australian Waterwatch programme.  
**URL:** <http://www.waterwatch.org.au/>  
**Reference ID:** 11

**Authors:** Oklahoma Water Watch  
**Title:** Oklahoma Water Watch  
**Year:** 2008  
**Volume:** 2008  
**Notes:** The official web site for the Oklahoma Water Watch programme

**URL:** <http://www.owrb.ok.gov/quality/monitoring/watch/wwatch.php>

**Reference ID:** 15

**Authors:** Alabama Water Watch

**Title:** Alabama Water Watch web site

**Year:** 2008

**Volume:** 2008

**Notes:** Official web site of the Alabama Water Watch programme of Auburn University

**URL:** <https://aww.auburn.edu/>

**Date Created:** 2008/06/18

**Reference ID:** 17

**Authors:** CSIR

**Title:** South African River Health Programme

**Year:** 2008

**Notes:** The official web site of the South African River Health programme. Has copies of the State of the Rivers reports as well as information about the tools used in ecosystem health assessment studies.

**URL:** <http://www.csir.co.za/rhp/>

**Reference ID:** 18

**Authors:** Rand Water

**Title:** Rand Water Water Wise Education web site

**Year:** 2009

**URL:** [http://www.randwater.co.za/Education/education\\_default.asp](http://www.randwater.co.za/Education/education_default.asp)

**Reference ID:** 19

**Authors:** Wildlife and Environment Society of SA

**Title:** Handbook: How to establish a WESSA Friends Group.

**Year:** 2008

**Abstract:** A handbook compiled by the Wildlife and Environment Society of South Africa on how to establish a Friends group.

**Date Modified:** 2009/02/17

**Reference ID:** 20

**Authors:** Pinchback, J.R.

**Title:** Communication and collaboration with a Volunteer Monitoring Program. Texas Water Program.

**Number:** 2008

**Reference ID:** 21

**Authors:** US Environmental Protection Agency (USEPA)

**Title:** Volunteer Stream Monitoring: A Methods Manual

**Year:** 2008

**Abstract:** As part of its commitment to volunteer monitoring, the U.S. Environmental Protection Agency (EPA) has worked since 1990 to develop a series of guidance manuals for volunteer programs. Volunteer Stream Monitoring: A Methods Manual, the third in the series, is designed as a companion document to Volunteer Water Monitoring: A Guide for State Managers. The guide describes the role of volunteer monitoring in state programs and discusses how managers can best organize, implement, and maintain volunteer programs. This document builds on the concepts discussed in the Guide for State Managers and

applies them directly to streams and rivers. This webpage also has references to the following PDF documents: Watershed Survey Visual Assessment Stream Habitat Walk Streamside Biosurvey: Macro invertebrates Streamside Biosurvey: Habitat Walk Intensive Biosurvey: Macro invertebrate Assessment Intensive Biosurvey: Habitat Assessment Data Form for Calculating Flow

**URL:** <http://www.epa.gov/volunteer/stream/>

**Reference ID:** 22

**Authors:** Texas Commission on Environmental Quality

**Title:** Quarterly Visual Monitoring of Storm Water Runoff: A guide to industries operating under the TPDES Multi-sector General Permit, TXR050000.

**Year:** 2006

**Abstract:** Quarterly Visual Monitoring of Storm Water Runoff: A Guide for Industries Operating under the TPDES Multi-Sector General Permit, TXR050000 Tells industries how and when to conduct required quarterly visual monitoring to assess the effectiveness of their efforts to reduce pollution in storm water runoff, and provides a form that may be used.

**URL:** [http://www.tceq.state.tx.us/comm\\_exec/forms\\_pubs/pubs/rg/rg-403.html](http://www.tceq.state.tx.us/comm_exec/forms_pubs/pubs/rg/rg-403.html)

**Reference ID:** 23

**Authors:** Alabama Water Watch

**Title:** Stream walk activity.

**Year:** 2008

**Volume:** 2008

**Abstract:** Stream walk is a simple, visual stream inspection activity that volunteers can undertake.

**URL:** <https://aww.auburn.edu/Docs/streamwalk.pdf>

**Reference ID:** 24

**Authors:** Newton, B., Pringle, C., and Bjokland, R.

**Title:** Stream visual assessment protocol. USDA NWCC Technical Note 99-1.

**Year:** 1998

**Abstract:** A method to evaluate the ecological condition of a stream useable by field conservationists and landowners.

**URL:** <http://www.nrcs.usda.gov/technical/streams.html>

**Reference ID:** 25

**Authors:** Minnesota Pollution Control Agency

**Title:** Citizen Lake Monitoring Program Handbook

**Volume:** 2008

**Abstract:** This booklet has been prepared to help answer any questions that new or veteran volunteer monitors might have about the Citizen Lake-Monitoring Program and/or monitoring in general. Did you know that participants in the Citizen Lake-Monitoring Program belong to the longest-running volunteer lake monitoring program in the nation? Volunteer lake monitors are one of Minnesota's most important lake water quality tracking systems. The Minnesota Pollution Control Agency thanks the volunteer monitors for all their hard work and dedication toward protecting and improving the surface waters of Minnesota.

**URL:** [www.d.umn.edu/~seawww/depth/data.pdf](http://www.d.umn.edu/~seawww/depth/data.pdf)

**Reference ID:** 26

**Authors:** US Environmental Protection Agency (USEPA)

**Title:** Adopt your watershed

**Year:** 2007

**URL:** <http://www.epa.gov/adopt/>

**Reference ID:** 27

**Authors:** Massachusetts Water Watch Partnership

**Title:** Massachusetts Water Watch Partnership web site

**Year:** 2009

**Volume:** 2009

**Abstract:** The Massachusetts Water Watch Partnership (MassWWP) provides training and other technical assistance to citizen organizations who conduct water quality monitoring programs on the lakes, rivers, and estuaries of Massachusetts. The site has links to manuals describing monitoring protocols, quality control programmes, etc.

**URL:** <http://www.umass.edu/tei/mwwp/>

**Reference ID:** 28

**Authors:** Schoen, J, Walk, MF and Tremblay, M.

**Title:** Ready, Set, Present! - A data presentation manual for volunteer water quality monitoring groups

**Year:** 1999

**Volume:** 2009

**Abstract:** Gathering data is not an end in itself: to effect positive change in your watershed, you need to share your results with various audiences in a persuasive way. This manual will guide you through all the steps of data presentation and give you numerous ideas and examples.

**URL:** <http://www.umass.edu/tei/mwwp/datapresmanual.html>

**Reference ID:** 29

**Authors:** SA Land Service

**Title:** Rescue our rivers.

**Year:** 2009

**Volume:** 2009

**Abstract:** In compliance with the National Water Act, it is the government's responsibility to supply safe drinking water and prosecute polluters of our scarce water resources. Municipalities are addressing the problem, but due to the lack of manpower, are not always involved in sustainable projects. Joint and focused efforts by all relevant parties are required to protect our rivers and thus our scarce water resources and ensure the safety of all the people using the water. The opportunity is created for the Land Service to provide a sustainable solution.

**URL:** <http://www.landsdiens.co.za/Omgewingsprojekte/Omgewingsprojekte.htm>

**Reference ID:** 30

**Authors:** Wildlife and Environment Society of SA

**Title:** Water wizards

**Year:** 2000

**Secondary Title:** EnviroKids

**Volume:** 21

**Number:** 1

**Start Page:** 1

**End Page:** 23

**Reference ID:** 32

**Authors:** Schools Water Project (SWAP)

**Title:** SWAP Junior Water Analysis Kit: Teachers' Guide.



**Publisher:** Juta  
**Reference ID:** 33

**Authors:** DWAF

**Title:** South African Water Quality Guidelines

**Year:** 1996

**Secondary Authors:** S. Holmes

**Notes:** The South African Water Quality Guidelines are essentially a user needs specification of the quality of water required for different users. The document is intended to provide a primary source of information and decision support to judge the fitness of water for use and for other water quality purposes.

**Publisher:** The Government Printer

**Place Published:** Pretoria

**ISBN:** 0-7988-5338-7

**Edition:** Second

**URL:** [http://www.dwaf.gov.za/iwqs/wq\\_guide/index.html](http://www.dwaf.gov.za/iwqs/wq_guide/index.html)

**Date Created:** 2009/02/16

**Date Modified:** 2009/02/16

**Reference ID:** 35

**Authors:** Michaud, J.P.

**Title:** A Citizen's Guide to Understanding and Monitoring Lands and Streams

**Year:** 1991

**Notes:** The intent of this guide is to introduce citizens in the Puget Sound area to lake and stream water quality monitoring.

**Publisher:** Washington State Department of Ecology

**URL:** <http://www.ecy.wa.gov/programs/wq/plants/management/joymanual/index.html>

**Date Created:** 2009/02/16

**Date Modified:** 2009/02/16

**Reference ID:** 36

**Authors:** Bartram, J. and Ballance, R.

**Title:** Water Quality Monitoring: A practical guide to the design and implementation of freshwater quality studies and monitoring programmes

**Year:** 1996

**Notes:** The approaches and methodology described in this handbook are based upon the experience gained with the design and establishment of the global freshwater quality monitoring network, GEMS/WATER.

**Publisher:** Spon Press

**Place Published:** Great Britain

**ISBN:** 0-419-22320-7

**Edition:** First

**URL:** [http://www.who.int/water\\_sanitation\\_health/resourcesquality/wqmonitor/en/index.html](http://www.who.int/water_sanitation_health/resourcesquality/wqmonitor/en/index.html)

**Date Created:** 2009/02/16

**Reference ID:** 37

**Authors:** Myre, E. and Shaw, R.

**Title:** The Turbidity Tube: Simple and Accurate Measurement of Turbidity in the Field.

**Year:** 2006

**Keywords:** Turbidity is an important water quality parameter in drinking water provision and treatment. In this paper, the authors present the turbidity tube as an alternative device to measure turbidity. The article includes a brief discussion of what turbidity is, how a turbidity tube is constructed, and how to use it properly.

**URL:** [http://www.cee.mtu.edu/sustainable\\_engineering/resources/technical/Turbidity-Myre\\_Shaw.pdf](http://www.cee.mtu.edu/sustainable_engineering/resources/technical/Turbidity-Myre_Shaw.pdf)  
**Date Created:** 2009/02/16  
**Reference ID:** 38

**Authors:** Waterwatch Australia  
**Year:** 2008  
**Date:** 2008/09/15  
**Keywords:** The official web site of the Australian Waterwatch programme.  
**Publisher:** Australian Government  
**URL:** <http://www.waterwatch.org.au/index.html>  
**Date Created:** 2009/02/16  
**Date Modified:** 2009/02/16  
**Reference ID:** 39

**Authors:** US Department of Agriculture  
**Title:** Stream Visual Assessment Protocol  
**Year:** 1998  
**Subject:** This document presents an easy-to-use visual assessment protocol to evaluate the condition of aquatic ecosystems.  
**URL:** [www.nrcs.usda.gov/technical/ECS/aquatic/svapfnl.pdf](http://www.nrcs.usda.gov/technical/ECS/aquatic/svapfnl.pdf)  
**Date Created:** 2009/02/16  
**Date Modified:** 2009/02/16  
**Reference ID:** 40

**Authors:** Gerber, A. and Hohls, B.  
**Title:** Water Resource Quality Monitoring. Volume 5: Fish kill investigation  
**Year:** 2004  
**Keywords:** This handbook provides information on the common causes of fish kills and how to report a fish kill.  
**Publisher:** Government Printer  
**Place Published:** Pretoria  
**ISBN:** 0-621-35389-2  
**Edition:** First  
**Date Created:** 2009/02/16  
**Date Modified:** 2009/02/16  
**Reference ID:** 41

**Authors:** Gerber, A., van Ginkel, C., Seloana, A., and Hohls, B.  
**Title:** Water Resource Quality Monitoring. Volume 2: Eutrophication monitoring  
**Year:** 2004  
**Notes:** This guidebook provides information on eutrophication, the causes of eutrophication, and monitoring procedures.  
**Publisher:** Government Printers  
**Place Published:** Pretoria  
**ISBN:** 0-621-35124-5  
**Edition:** First  
**Date Created:** 2009/02/16  
**Date Modified:** 2009/02/16  
**Reference ID:** 42

**Authors:** Gerber, A., Cilliers, C.J., van Ginkel, C., and Glen, R.

**Title:** Easy identification of aquatic plants  
**Year:** 2004  
**Keywords:** A guide for the identification of water plants in and around South African impoundments.  
**Publisher:** Government Printer  
**Place Published:** Pretoria  
**Isbn:** 0-621-35113-X  
**URL:** <http://www.dwaf.gov.za/iwqs/biomon/aquaplantsa/aquaplantid.htm>  
**Date Created:** 2009/02/16  
**Reference ID:** 43

**Authors:** Graham, P.M., Dickens, C.W.S., and Taylor, R.J.  
**Title:** miniSASS - A novel technique for community participation in river health monitoring and management  
**Year:** 2004  
**Secondary Title:** African Journal of Aquatic Science  
**Volume:** 29  
**Number:** 1  
**Start Page:** 25  
**End Page:** 35  
**Notes:** This paper reports on a process to develop a low technology, scientifically reliable, and robust technique to monitor water quality in rivers and stream.  
**URL:** <http://www.ajol.info/viewarticle.php?id=15846>  
**Date Created:** 2009/02/16  
**Reference ID:** 44

**Authors:** CSREES  
**Title:** Volunteer Water Quality Monitoring National Facilitation Project  
**Year:** 2009  
**Date:** 2009/02/13  
**Keywords:** This Volunteer Water Quality Monitoring National Facilitation Project is designed to build a comprehensive support system for Extension volunteer water quality monitoring efforts across the country. The goal is to expand and strengthen the capacity of existing Extension volunteer monitoring programs and support development of new groups.  
**Publisher:** Cooperative State, Research, Education and Extension  
**URL:** <http://www.usawaterquality.org/volunteer/>  
**Date Created:** 2009/02/16  
**Reference ID:** 45

**Authors:** Wildlife and Environment Society of SA  
**Title:** Enviro Kids  
**Year:** 2009  
**Keywords:** Promotes environmental awareness and encourages children to 'Help care for the Earth'. A fun 32-page colorful magazine for junior school children.  
**URL:** <http://www.wessa.org.za/publicationsEKids.asp>  
**Date Created:** 2009/02/17  
**Date Modified:** 2009/02/17  
**Reference ID:** 46

**Authors:** DWAF: Resource Quality Services  
**Title:** National Toxicity Monitoring Programme  
**Year:** 2005  
**Date:** 2008/09/04

**Keywords:** To measure, assess and regularly report on the status and trends of the nature and extent of: (1) potentially toxic substances in South African water resources (watercourses, groundwaters and estuaries) and (2) the potential for toxic effects to selected organisms in a manner that will support strategic management decisions in the context of fitness for use of those water resources, be mindful of financial and capacity constraints, yet, be soundly scientific.

**URL:** [http://www.dwaf.gov.za/iwqs/water\\_quality/ntmp/index.htm](http://www.dwaf.gov.za/iwqs/water_quality/ntmp/index.htm)

**Date Created:** 2009/02/17

**Reference ID:** 47

**Authors:** DWAF: Resource Quality Services

**Title:** National Eutrophication Monitoring Programme

**Year:** 2003

**Date:** 2008/09/04

**Notes:** Many South African impoundments exhibit high nutrient enrichment and eutrophication related problems. Some 80 impoundments have been monitored in South Africa. However, many impoundments do not have regular eutrophication monitoring. The main aim of the NEMP is to address this need. The NEMP will provide annual assessments of eutrophication in South Africa.

**URL:** <http://www.dwaf.gov.za/iwqs/eutrophication/NEMP/default.htm>

**Date Created:** 2009/02/17

**Reference ID:** 48

**Authors:** DWAF: Resource Quality Services

**Title:** National Chemical Monitoring Programme

**Year:** 2002

**Date:** 2009/01/17

**Keywords:** This report provides information on the major inorganic chemical water quality constituents of surface waters across South Africa, for water resource managers, scientists, decision-makers, and the public. It provides an overview of the status of surface chemical water quality according to the water quality requirements of two water user sectors, namely, domestic water use and irrigated agriculture water use.

**URL:** [http://www.dwaf.gov.za/iwqs/water\\_quality/NCMP/NWRQSR.htm](http://www.dwaf.gov.za/iwqs/water_quality/NCMP/NWRQSR.htm)

**Date Created:** 2009/02/17

**Reference ID:** 49

**Authors:** DWAF

**Title:** Working for Water

**Date:** 2009/02/10

**Keywords:** The fight against invasive alien plants is spearheaded by the Working for Water (WfW) programme, launched in 1995 and administered through the DWAF. This programme works in partnership with local communities, to whom it provides jobs, and also with Government departments, research foundations and private companies.

**URL:** <http://www.dwaf.gov.za/wfw/default.asp>

**Date Created:** 2009/02/17

**Reference ID:** 50

**Authors:** 20/20 Vision

**Title:** Energy and Security Solutions

**Keywords:** 2020 Vision and 2020 Vision Education Fund are dedicated to solving global challenges where international security, energy and the environment come together. We see that today's great global challenges are linked, and we strive to find overarching solutions.

**URL:** <http://www.2020vision.org/>

**Date Created:** 2009/02/17  
**Reference ID:** 51

**Authors:** Share-Net  
**Title:** Water use at home, school and in our community  
**Notes:** Environmentally focused teaching and learning material.  
**URL:** [www.envirolearn.org.za](http://www.envirolearn.org.za)  
**Date Created:** 2009/02/17  
**Reference ID:** 52

**Authors:** Hoffman, P.  
**Title:** Windows on our World: Wetlands  
**Year:** 2008  
**Notes:** Contact W.A.T.E.R. directly for a copy of the training material. 033 - 330 3931 (sharenet@wessa.co.za)  
**Keywords:** An educational resource for wetland-focused education and training.  
**Publisher:** The Wetland Alliance for Training, Education and Research (W.A.T.E.R)  
**Place Published:** Howick  
**URL:** <http://www.wessa.org.za/>  
**Date Created:** 2009/02/17  
**Date Modified:** 2009/02/17  
**Reference ID:** 53

**Authors:** Kelly, A.  
**Title:** Water is Life! A handbook for teachers  
**Keywords:** Handbook for teachers with information and games / worksheets to assist learners.  
**Publisher:** Share-Net, Wildlife Society of South Africa  
**Isbn:** 978-1-874891-23-9  
**URL:** <http://www.wessa.org.za/sharenet.asp>  
**Date Created:** 2009/02/17  
**Date Modified:** 2009/02/17  
**Reference ID:** 54

**Authors:** Wildlife and Environmental Society of South Africa  
**Title:** Windows on the Wild: Hands-on stream and pond life  
**Year:** 2007  
**Secondary Authors:** Taylor, J. and Manqele, M.  
**Keywords:** Provides an illustrated field guide to conducting a water study.  
**Publisher:** Share-Net  
**Place Published:** Howick  
**Isbn:** 978-1-874891-39-0  
**Edition:** 17  
**URL:** <http://www.wessa.org.za/sharenet.asp>  
**Date Created:** 2009/02/17  
**Reference ID:** 55

**Authors:** O' Donoghue, R. and Pearson, G.  
**Title:** Audit it: Water Quality  
**Keywords:** This booklet was developed for the School Water Action Project. It is aimed at developing a water quality audit.  
**Publisher:** Share-Net

**Place Published:** Howick  
**URL:** <http://www.wessa.org.za/sharenet.asp>  
**Date Created:** 2009/02/17  
**Reference ID:** 56

**Authors:** Rand Water  
**Title:** Water Wise  
**Keywords:** Water Wise is an educational team in partnership between Rand Water and Delta Environmental Education Centre, which is based in Gauteng. The aim of the programme is to assist learners and educators to become water wise.  
**URL:** [http://www.randwater.co.za/Education/education\\_default.asp](http://www.randwater.co.za/Education/education_default.asp)  
**Date Created:** 2009/02/17  
**Reference ID:** 57

**Authors:** The Green Connection  
**Title:** Partnerships for Healthy Rivers  
**Year:** 2006  
**Keywords:** A partnership is a relationship between a group of people who collectively represent different sectors of society who work together to achieve a common vision and set of goals and objectives. This document describes how partnerships are established, why are they established, and how partnerships are supported by legislation.  
**URL:**  
<http://www.thegreenconnection.org.za/dmddocuments/Partnerships%20for%20Healthy%20Rivers%20Booklet.pdf>  
**Date Created:** 2009/02/17  
**Reference ID:** 58

**Authors:** Water Research Commission  
**Title:** Lesson Plans on Water for Grade R to Grade 10  
**Keywords:** A series of lesson plans on water for Grade R to Grade 10.  
**URL:** [http://www.wrc.org.za/publications\\_education.htm](http://www.wrc.org.za/publications_education.htm)  
**Date Created:** 2009/02/17  
**Reference ID:** 59

**Authors:** Carr, D. and Winter, K.  
**Title:** Caring for our Rivers  
**Year:** 2001  
**Keywords:** The material in this book is designed to support learners (Grades 5 to 7) and educators to understand how a river functions in a catchment, the role these rivers play in the City of Cape Town, and the impact on these rivers.  
**Publisher:** The City of Cape Town, Catchment Management Department  
**Place Published:** Cape Town  
**Edition:** Second  
**Date Created:** 2009/02/17  
**Reference ID:** 60

**Authors:** CSREES  
**Title:** Training volunteer water quality monitors effectively  
**Year:** 2004  
**Date:** 2009/02/13  
**Keywords:** This Volunteer Water Quality Monitoring National Facilitation Project is designed to build a comprehensive support system for Extension volunteer water quality monitoring

efforts across the country. The goal is to expand and strengthen the capacity of existing Extension volunteer monitoring programs and support development of new groups.

**URL:** <http://www.usawaterquality.org/volunteer/>

**Date Created:** 2009/02/20

**Date Modified:** 2009/02/23

**Reference ID:** 61

**Authors:** CSREES

**Title:** Tools for effective outreach

**Year:** 2009

**Date:** 2009/02/13

**Keywords:** Communicating watershed information to, and getting feedback from, the local community is critical for monitoring program success. This is especially true for volunteer monitoring, which uniquely contributes to watershed science and management by promoting active participation of the community in gathering, understanding and using data to restore and protect water resources. Thus creating and implementing an effective outreach and education program is essential for volunteer monitoring program success. This fact sheet provides information to help you get your message received, understood and used by your community.

**URL:** <http://www.usawaterquality.org/volunteer/pdf/GuideBook/OutreachXII.pdf>

**Date Created:** 2009/02/23

**Reference ID:** 62

**Authors:** US Environmental Protection Agency (USEPA)

**Title:** Getting in step: A guide for conducting watershed outreach campaigns

**Year:** 2003

**Keywords:** This guide offers advice on how waters get groups, local governments, and others can maximize the effectiveness of public outreach campaigns to reduce nonpoint source pollution and protect the lakes, streams, rivers, and coasts that we treasure.

**URL:** <http://www.epa.gov/watertrain/gettinginstep/03set.htm>

**Date Created:** 2009/02/23

**Reference ID:** 63

**Authors:** National Extension Water Outreach Education

**Title:** Water management topics and issues

**Date:** 2009/02/23

**Keywords:** Whether planning a new outreach effort or revitalizing an existing one, incorporating best education practices (BEPs) into your water management strategies is critical for achieving success. Web site resources help educators to: (a) connect the situation with the people, (b) choose achievable goals, (c) select relevant outreach techniques, and (d) get measurable results.

**URL:** <http://wateroutreach.uwex.edu/>

**Date Created:** 2009/02/23

**Reference ID:** 64

**Authors:** Association for Water and Rural Outreach

**Title:** Develop and test new and appropriate ways of managing water to address water security issues of wise resource management and equitable allocation in the catchment

**Keywords:** AWARD (Association for Water and Rural Development) is an NGO in South Africa that works on water supply in the broader context of managing water resources and their wise use, with a focus on learning about water security issues in the Sand River Catchment area.

**URL:** <http://www.award.org.za/home/default.asp>

**Date Created:** 2009/02/23  
**Reference ID:** 65

**Authors:** WESSA  
**Title:** Audit: Water quality. A school water action project field record book.  
**Secondary Title:** SHARE-NET  
**Reference ID:** 118

**Authors:** Camp, S.  
**Title:** A guide to water saving in South Africa.  
**Publisher:** Umgeni Water and Rand Water  
**Reference ID:** 104

**Authors:** WESSA  
**Title:** Water use at home, school and in our community (Grade 8).  
**Secondary Title:** SHARE-NET  
**Reference ID:** 116

**Authors:** Department of Water Affairs & Forestry  
**Title:** Working towards a clean and healthy community.  
**Publisher:** Department of Water Affairs & Forestry  
**Place Published:** Pretoria  
**Reference ID:** 96

**Authors:** US EPA  
**Title:** Starting out in Volunteer Water Monitoring.  
**Year:** 2002  
**Reference ID:** 107

**Authors:** Hoffman, P.  
**Title:** Windows on our world wetlands. Facilitators Guide (and CD)  
**Year:** 2008  
**Publisher:** WESSA  
**Reference ID:** 115

**Authors:** The Enviromark  
**Title:** It's all about plastics.  
**Reference ID:** 102

**Authors:** Department of Water Affairs & Forestry  
**Title:** Water Management Institutions: Overview.  
**Publisher:** Department of Water Affairs & Forestry  
**Place Published:** Pretoria  
**Reference ID:** 95

**Authors:** City of Cape Town  
**Title:** Rivierpret! Aktiwieitsgids vir Wes-Kaapse Grondslagfase Leerders (Graad 1-3)  
**Publisher:** City of Cape Town



**Place Published:** Cape Town  
**Reference ID:** 99

**Authors:** Department of Water Affairs & Forestry  
**Title:** Working towards a clean and healthy community.  
**Publisher:** Department of Water Affairs & Forestry  
**Place Published:** Pretoria  
**Reference ID:** 97

**Authors:** Du Toit, D.  
**Title:** A framework for public participation and capacity building for the Save the Sand project.  
**Year:** 2002  
**Publisher:** AWARD  
**Reference ID:** 108

**Authors:** WESSA  
**Title:** Hands-on Stream and Pond Life. A field Guide.  
**Year:** 2007  
**Publisher:** WESSA Share net  
**Reference ID:** 111

**Authors:** Department of Environmental Affairs & Tourism  
**Title:** Do-it-yourself fish. National water week 2008.  
**Publisher:** DEAT  
**Place Published:** Pretoria  
**Reference ID:** 103

**Authors:** WESSA  
**Title:** Lesson plans on Water for Grade R to Grade 10.  
**Year:** 2008  
**URL:** [www.wrc.org.za/publications\\_education.htm](http://www.wrc.org.za/publications_education.htm)  
**Reference ID:** 105

**Authors:** WESSA  
**Title:** Audit: Water use. To reduce waste and to develop a water wise management plan.  
**Secondary Title:** SGARE-NET  
**Reference ID:** 117

**Authors:** City of Cape Town  
**Title:** Partnerships for Healthy Rivers. Handbook for establishing effective partnerships.  
**Year:** 2006  
**Publisher:** City of Cape Town  
**Place Published:** Cape Town  
**Reference ID:** 109

**Authors:** Umgeni Water  
**Title:** Mini-SASS. A community river health monitoring tool for South Africa.  
**Year:** 2000

**Publisher:** Umgeni Water  
**Reference ID:** 113

**Authors:** WESSA  
**Title:** An overview of legislation relating to the provision of water supply services in Kwa-Zulu Natal.  
**Year:** 1998  
**Secondary Title:** SHARE-NET  
**Publisher:** WESSA  
**Reference ID:** 112

**Authors:** DWAF  
**Title:** We all live downstream from each other (Poster)  
**Reference ID:** 106

**Authors:** Department of Water Affairs & Forestry  
**Title:** Waste management and the minimum requirements.  
**Year:** 1998  
**Publisher:** Department of Water Affairs & Forestry  
**Place Published:** Pretoria  
**Reference ID:** 98

**Authors:** WESSA  
**Title:** Water for all.  
**Year:** 2009  
**Secondary Title:** EnvironKids  
**Volume:** 30  
**Extent of Work:** 1  
**Publisher:** WESSA  
**Reference ID:** 110

**Authors:** DWAF  
**Title:** Toxic algae. Algal scums can be dangerous, beware (pamphlet).  
**Reference ID:** 119

**Authors:** WESSA  
**Title:** Water is life. A handbook for teachers.  
**Year:** 2007  
**Secondary Title:** SHARE-NET  
**Publisher:** WESSA  
**Reference ID:** 114

**Appendix B:**  
**Material available in the WESSA Wetland Alliance for**  
**Training, Education and Research (W.A.T.E.R.) library**

Title	Authors	Year	Category	ISSUE / ISBN	Publisher	Description
101 Ideas for National Water Week and River Day	Steve Camp	N.D	Book	(ISBN) 0-0620-19790-0	Umgeni Water	A book with a list of activities that can be used to promote National Water Week and River Day in communities.
2020 Vision for Water & Sanitation Education Programme: Draft Learners' Guide - Foundation Phase	Department of Water Affairs and Forestry	N.D	Book		Share-Net	A collection of school-based activities for learning about water. Activities are aligned with the RNCS and arranged according to grades and learning areas.
2020 Vision for Water & Sanitation Education Programme: Draft Learners' Guide - Intermediate Phase	Department of Water Affairs and Forestry	N.D	Book		Share-Net	A collection of school-based activities for learning about water. Activities are aligned with the RNCS and arranged according to grades and learning areas.
2020 Vision for Water & Sanitation Education Programme: Draft Learners' Guide - Senior Phase	Department of Water Affairs and Forestry	N.D	Book		Share-Net	A collection of school-based activities for learning about water. Activities are aligned with the RNCS and arranged according to grades and learning areas.
2020 Vision for Water & Sanitation Education Programme: Draft Teachers' Guide - Foundation Phase	Department of Water Affairs and Forestry	N.D	Book		Share-Net	A collection of school-based activities for learning about water. Activities are aligned with the RNCS and arranged according to grades and learning areas.
2020 Vision for Water & Sanitation Education Programme: Draft Teacher's Guide - Senior Phase	Department of Water Affairs and Forestry	27 June 2005	Book	1	Share-Net	A collection of school-based activities for learning about water. Activities are aligned with the RNCS and arranged according to grades and learning areas.
4th World Environmental Education Congress Abstract book	Linda Downsborough & Heila Lotz-Sisitka	2-6 July 2007	Book	(ISBN) 978-1-919991-44-3	EEASA	A book about the fourth environmental education congress.
A beginners guide: Dragonflies and damselflies	Pat Caldwell	01 January 1991	Book	(ISBN) 1-9583197-4-X	Share-Net	A book about dragonflies and damselflies.
A practical field procedure for identification and delineation of wetlands and riparian areas	Department of Water Affairs and Forestry	29 June 2005	Book		Department of Water Affairs and Forestry	A guide to the delineation of wetlands and riparian areas. It describes field indicators and methods for determining whether an area is a wetland or riparian area and for finding its boundaries.
Action Magazine: Poisoning our earth - The danger of pesticides	Action Magazine	N.D	Magazine	15	Action magazine	An environmental health magazine that describes a variety of pests and ways in which we can try to control them in more environmentally-friendly ways.
Action Magazine: Teacher's pages - Agroforestry	Action Magazine	19 June 2005	Magazine		Action magazine	An environmental health magazine for teachers, focusing on teaching and learning about agroforestry.

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Action Magazine: Teacher's pages - Pesticides	Action Magazine	N.D	Magazine		Action magazine	An environmental health magazine for teachers, focusing on teaching and learning about pesticides.
Africa our home	Sasha Norris & Nancy Gladstone	N.D	Book	(ISBN) 978-0-9555682-0-6	Siren Conservation Education and Tusk Trust	A book about how children can solve problems e.g. environmental problems. It includes 7 sections on different topics e.g. water, soil, forests, living by the ocean. It includes information, poetry, action sheets, and a CD with environmental education activities.
Amanzi Amnandi / Sweet Water		ND	Pamphlet			A pamphlet about sweet water .This pamphlet can help in learning about historical water collection and storage practices .
An Overview of Legislation Relating to the Provision of Water Supply Services in Kwazulu-Natal	John Milton & Yavini Chetty	01 October 1998	Book	(ISBN) 978-1-874891-63-5	Share-Net	A booklet that explains the laws and institutions responsible for provision of water services.
Are you a Catchment Wizard?	Water Wise	N.D	Magazine		Share-Net	An educational game extracted from a magazine, which focuses on how to 'fix' degraded catchments.
Building a People's Contract for Growth and Development	Education Support Services Trust	N.D.	Guide		Education Support Services Trust	A facilitator's guide focusing on how people can develop themselves. This guide was developed to support implementation of the People's Contract Project.
Building a People's Contract for Growth and Development	Education Support Services Trust	N.D.	Book	ISBN 919970-32-0	Education Support Services Trust	A book for adult learners, providing information on economic opportunities created by the government.
Bush Telegraph - Water is Life	Namib Desert Environmental Education Trust (NaDEET)	29 June 2005	Magazine	(issue) 01	NaDEET	A magazine for the youth of Namibia. It aims to increase knowledge of and improve attitudes towards our environment through reading.
Catchment Action: 28 Alien plant invaders in Kwazulu-Natal	Pat Caldwell	01 August 1999	Book	(ISBN) 1-874891-09-5	Share-Net	A booklet that enable teachers, their pupils and catchment action groups to identify some of the common alien plants in Kwazulu-Natal.
Catchment Action: Riverine vegetation in Natal	Iain Guthrie, John Wyatt & Eugene Moll	01 June 2007	Book	(ISBN) 978-1-87-489124-4	Share-Net	A booklet that enables teachers, their learners and catchment action groups to identify key riverine trees. Provides information on where they are found and how to grow them, and guidelines for revegetation.
Celebrating our heritage	Maloti Drakensberg Transfrontier	N.D	Magazine	4	Maloti Drakensberg Transfrontier Project	A magazine that informs us about the Maloti Drakensberg Transfrontier Conservation Project. It is a quarterly issue

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	Project					that informs us about different topics e.g. cultural treasures of the mountains, systematic conservation planning, and others.
Cluster-based approaches to professional development	National Environmental Education Programme	26 June 2005	Book	(ISBN) 1-919991-05-5	Share-Net	A book about cluster-based approaches to professional development. This booklet is structured around themes such as: how to set up and work with clusters, how to plan and run cluster activities.
Common Freshwater Fishes of Natal	Michael Petersen	01 April 1994	Book	(ISBN) 1-874891-25-7	Share-Net	A book about indigenous fish.
Concrete Products Making and Erection Module	Ngubane	ND	Manual		Ngubane Construction Projects	A manual focusing on how to build concrete structures.
Concrete Products Making and Erection Module	Ngubane	N.D	Manual		Ngubane Construction Projects	A manual about learning how to build a concrete structure.
Contractor's manual	Working for Water	25 June 2005	Book	(ISBN) 0 620 30049 3	Working for Water	A manual designed for Working for Water contractors. Includes 7 sections with different topics, a Working for Water reference document, and various policy documents and contracting documents.
Course Developer's Toolkit - Source book 1: Developing Curriculum Frameworks	SADC-Regional Environmental Education Programme	N.D	Book	(ISBN) 978-1-87489-65-9	SADC-Regional Environmental Education Programme	A guide for course developers on how to develop curricula for adult learners. It deals with themes such as: how to develop materials and texts, how to develop an enabling orientation and others.
Course Developer's Toolkit - Source book 2: Supporting adult learning and tutoring	SADC-Regional Environmental Education Programme	01 January 2007	Book	(ISBN) 978-1-87489-65-9	SADC-Regional Environmental Education Programme	A guide for course developers. Its particular focus is on supporting adult learning and tutoring. It also gives ideas based on real experiences of course developers and tutors. This book attempts to address the support of tutors and the learners.
Course Developer's Toolkit - Source book 3: Course materials development for adult learning	SADC-Regional Environmental Education Programme	01 January 2006	Book	(ISBN) 978- 1-919991-33-7	SADC-Regional Environmental Education Programme	A guide for course developers. This book focuses on the development of course materials, and as a frame work to review and evaluate existing course materials,
Course Developer's Toolkit - Source book 4: Development, adaptation and use of learning support materials	SADC-Regional Environmental Education Programme	01 April 2003	Book	(ISBN) 1-874891-83-4	SADC-Regional Environmental Education Programme	A guide book for course developers. This book focuses on the development ,adaptation and use of the laerning support materials. It also draw on experience and research in the development of the learning materials.
Course Developer's Toolkit - Source book 5: Course evaluation in	SADC-Regional Environmental	01 January 2006	Book	(ISBN) 1-919991-35-2	SADC-Regional Environmental Education Programme	A guide book for course developers. This book focuses on the course evaluation in adult education programmes. The main

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adult education programmes	Education Programme					objective of this source book is to assist course developers to strengthen course evaluation and aims to assist environmental education course developers to monitor the effectiveness of the course and ensure that the intended learning outcomes are being achieved.
David's Wetland Walkabout	Roberta Griffiths	N.D	Magazine		Share-Net	An educational game extracted from a magazine. The game focuses on wetland degradation and rehabilitation and depicts good actions and harmful actions
Down to earth	The Greater St. Lucia Wetland Park Authority	01 December 2005	Pamphlet		Ezemvelo KZN Wildlife	A pamphlet produced by Ezemvelo KZN Wildlife and the Greater St Lucia Wetland Park. It contains information about Lake St Lucia, how the park is managed, how the lake gets its water, etc.
East Coast Estuaries and Mangroves	Trevlyn Williams	01 December 1992	Book	(ISBN) 1-874891-04-4	Share-Net	A booklet focusing on East Coast Estuaries and Mangroves and the ecology of the organisms in these ecosystems.
Educating for socio-ecological change	N. Jenkin, L. Le Grange, H. Lotz, K. Mabunda, K. Madisakwane, T. Makou, S. Mphaphuli, E. Neluvhalani, C. Reddy & I. Robottom	22 June 2005	Book	(ISBN) 0-7972-0778-3	Australia-South Africa institutional links programme	A book about educating for socio-ecological change. The book is structured into 4 sections: i.e. curriculum development, professional development, evaluating existing environmental curricula in South Africa and Australia, and the development of a methodology text.
Education and sustainability: Responding to the global challenge	D. Tilbury, B.R. Stevenson, J. Fien & D. Schreuder	24 June 2005	Book	(ISBN) 2-8317-0623-8	IUCN, Gland, Switzerland & Cambridge, UK	This book is an anthology of stories from different parts of the world that describe ways in which the international educational community is responding to the challenge of creating a sustainable world.
Education for sustainable development: Nature, school and democracy	Klas Sandell, Johan Ohman & Leif Ostman	27 June 2005	Book	(ISBN) 91-44-03377-X	Studentlitteratur	A book about education for sustainable development.
Enviro Fact Sheets	Share-Net	01 June 2001	Pamphlet		Share-Net	A compilation of leaflets or facts sheets covering a range of environmental issues. They provide an overview framework for each topic. The environmental issues are described in simple terms.
EnviroKids - Groundwater	EnviroKids	N.D	Magazine		Wildlife and Environment Society of South Africa	A magazine for children focusing on water catchments.
EnviroKids - Powers of Water	EnviroKids	N.D	Magazine		Wildlife and Environment Society of South Africa	A magazine for children about the Powers of Water. It provides information on various

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						water-related topics and can be used to teach children about the properties of water.
EnviroKids - Rain Catchers	EnviroKids	N.D	Magazine		Wildlife and Environment Society of South Africa	A magazine for children about the Powers of Water. It focuses on the properties of water e.g. it changes form it bends light it stores heat and others.The pamphlet has different topics on water.
EnviroKids - Water For Life	EnviroKids	N.D	Magazine		Wildlife and Environment Society of South Africa	A magazine for children about Water for Life. It focuses on the importance of water and provides articles which establish a context in which we can explore water issues.
EnviroKids - Water Wizards	EnviroKids	N.D	Magazine		Wildlife and Environment Society of South Africa	A magazine for children focusing on water. This issue includes topics like: What is a water whizzard, and Why should we care about water?
EnviroKids - Wetlands	EnviroKids	N.D	Magazine		Wildlife and Environment Society of South Africa	A magazine for children focusing on Wetlands. This issue focuses on topics such as: What is a wetland? and includes activitites like David's wetland checklist and others.
EnviroKids - Wonder of Water	EnviroKids	N.D	Magazine		Wildlife and Environment Society of South Africa	A magazine for children about water, focusing on freshwater ecosystems.
Environmental Education in Schools	Mamata Pandya	27 June 2005	Book	(ISBN) 81-86385-91-6	Center for Environment Education, Ahmedabad	A book focusing on environment education in its international context and the role of a teacher as an environmental educator.
Environmental Education Processes: Active learning in schools	Kim le Roux	23 June 2005	Book	(ISBN) 0 86980 993 8	University of Natal Press	A teacher professional development manual that explores the concept of environment, environmental issues, and environmental education processes as a response to the environmental crisis. It also provides an opportunity for teachers to think about integration of environmental issues across all learning areas.
Environmental education, ethics and action	B. Jickling, H. Lotz-Sisitka, R. O'Donoghue & A. Ogbuingwe	28 June 2005	Book	(ISBN) 92-807-2656-0	United Nations Environment Program	A book focusing on environmental education, ethics and action. It encourages educators to examine the stories that shape the world and invites creative and critical thinking about environmental education practices.
Environmental education, ethics and action in Southern Africa	Dr Eureta Janse van Rensburg	24 June 2005	Book	(ISBN) 0-7969-2006	EEASA & Human Sciences Research Council	A book focusing on environmental education, ethics and action. It deals with the moral imperative to promote sustainable development.
Environmental Learning in Namibia - Curriculum	Steve Murray	27 June 2005	Book		Typoprint	A book that aims to support and encourage a shared understanding of environmental



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Guideline for Educators						learning in Namibia. It outlines the aims and principles of environmental learning and provides guidance on how to plan and implement specific environmental teaching, learning and assessment strategies.
Enviro-Picture Building Game - Lesotho	Share-Net	28 June 2005	Picture Building Game		Share-Net	A book that aims to enlight people in the Lesotho area about the environment.
Eradicating invading alien plants in Kwazulu-Natal	Jean Moore	01 August 1999	Book	(ISBN) 1-874891-67-2	Share-Net	A booklet that aims to provide a ready reference to enable teachers their learners and other concerned action groups to identify and eradicate some of the more common invasive plants in KwaZulu-Natal.
ESD Practice in Southern Africa	SADC-Regional Environmental Education Programme	01 July 2006	Book		Share-Net	A book about Education for Sustainable Development in Southern Africa. It focuses on a number of aspects eg. a rich variety of ESD practice, and others.
Exploring Wetlands	Jeanette Stewart	28 June 2005	Activity Packs		Share-Net	An activity pack for learners. It can be used by educators to do fieldtrips to wetlands where learners can obtain a practical knowledge and experience of wetlands. Resources in the pack include a booklet about wetlands, a collection of fun, educational activities which can be conducted during fieldwork.
Facilitator's guide	CoastCare	23 June 2005	Book	(ISBN) 0-620-27532-9	CREDA communications	A book about the coast. It focuses on how adult learners are being trained and looks at environmental issues along the coast.
Farmer to Farmer	Erna Kruger	N.D	Book	(ISBN) 1-86840-238-X	Bagasse	This book is for farmers. It serves as a basic introduction to the Farmer to Farmer movement, its history approach and methodologies.
Fire Wise	Department of Water Affairs and Forestry	N.D	Game		Department of Water Affairs and Forestry	A game on fire awareness.
Functions of Wetlands	Wetland Values and Functions	N.D	Pamphlet			These are pamphlet about the values and functions of wetlands. The functions have been listed, and products of these wetlands .
Going with the Flow - A handbook for "Water Wise" Stormwater Management	Wildlife and Environment Society of South Africa	N.D	Book		Rand Water	A handbook that bring awareness and understanding of stormwater and its management that will enable schools and homeowners to make informed decisions and take action for sustainable water use.
GREEN - Water Quality Monitoring in Southern	O'Keefe & Jenny Day	01 April 1993	Book	(ISBN) 1-874891-32-X3	Share-Net	A book that is based on the Global Rivers Environmental Education Network

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Africa						(GREEN) model for water quality monitoring.It is a practical fieldwork resource for teachers and pupils and for anyone wanting a simple and re-liaible do it yourself assessment of water quality.
Groundwater	EnviroKids	January/February 1999	Magazine	1	Wildlife and Environment Society of South Africa	A magazine for kids focusing on the Rain Catchers.It gives information about the the different catchment areas i.e.from the mountains to the sea.
Guidebook to Lesotho's fauna: Amphibians	Tsepo Mokuku	27 June 2005	Book	(ISBN) 97801-919991-10-8	Share-Net	A booklet about the differrent frogs found in Lesotho, this booklet looks at the following topics ,the appearance,food,breeding,and habitat of these frogs.
Guidelines for Developing Environmental Learning and Teaching Support Materials (LTSM)	National Environmental Education Programme	27 June 2005	Book	(ISBN) 1-919991-28-X	Share-Net	A book on guidelines for developing environmental learning and teaching support materials.This book focuses on the following topics, sharing and finding information,reporting and others.
Guidelines for integrating the protection, conservation and management of wetlands into catchment management planning	Chris Dickens, Donovan Kotze, Simon Mashigo, Heather McKay & Mark Graham	01 December 2003	Book	(ISBN) 1-77005-096-5	Republic of South Africa	A book about the guidelines for intergrating the protection, conservation and management of wetlands into catchment management planning.The book provides guidelines that gives support to the protection of wetlands resources,and others.
Hack Attack Pack	Share-Net	ca. 2000	Pamphlet		Share-Net	A pamphlet about the invasive plants in our environment and how to get rid of these plants.
Hands-On Soil and Compost Life	Share -Net	N.D	Book		Share-Net	A book on soil and compost life.This book can be used to identify organisms in a sample of compost in the classroom or outdoors.It brings forth the importance of soils and soil life through hands on.
Hands-On Vlei and Marsh Wetlands	Share-Net	N.D	Book		Share-Net	A booklet about the vlei and marsh wetlands and the life of the different organisms found in these wetlands. These vlei and marsh wetlands give an understanding of their importance and encourage us to participate in their correct management.
History and context of ESD in Southern Africa	SADC-Regional Environmental Education Programme	01 July 2006	Book		Share-Net	A book about history and context of Education for Sustainable Development.This book focuses on the following topics,understanding Sustainable development and the challenges in Southern Africa.
How Wet is a Wetland?	Donovan C.	01 June 1996	Book	(ISBN) 978-1-	Share-Net	A booklet designed to assist a range of

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	Kotze			874891-45-9		people in understanding the functions, values and management of wetlands. It deals with freshwater inland wetlands, but many of the principles would also apply to coastal wetlands.
Ideas, Experiences and Learning in Education for the Environment	Meena Raghunathan & Mamata Pandya	19 June 2005	Book	(ISBN) 86385-94-0	Center for Environment Education, Ahmedabad	A book about ideas experiences and learning in educating for the environment. The book is called the Green Teacher and it focuses on the following topics, from awareness to action, bring home the world, beyond the classroom and enriching the classroom experience.
Impilo yasemanzini (Water Life)	Mzo Maphanga, Pius Khena, Nathi Makhaye & Bheki Nene	01 June 2006	Pamphlet		Share-Net	A pamphlet about life in aquatic ecosystems. It includes a reference sheet with names and illustrations of different water organisms.
Indigenous knowledge series	Share-Net	01 March 2004	Pamphlet		Share-Net	A pamphlet that looks at human practices that contribute to soil erosion and some indigenous practices which can contribute to soil conservation.
Indigenous Knowledge Series: Amanzi Amnandi / Sweet Water	Share-Net	ND	Pamphlet		Share-Net	A pamphlet about sweet water. This pamphlet can help in learning about historical water collection and storage practices.
Indigenous Knowledge Series: Isangcobe/ Grain Storage	Share-Net	ND	Pamphlet		Share-Net	A pamphlet about grain storage. This pamphlet provides information on how to make a grain pit and how to store grain.
Induction field book for workers	Working for Water	23 June 2005	Book	(ISBN) 0-620-27532-4	Working for Water	A book that can be used by trainers in an Induction training course. It helps the trainers to plan and organise a conducive learning environment, and provides guidelines on different activities and methods to use.
Indwe	South African Express	01 July 2006	Magazine	19	Avis	It is a monthly magazine issue and it is about different topics eg, Eco schools Programme in the Eastern Cape and many others.
Info Talk: Biodiversity	Share-Net	N.D	Pamphlet		Share-Net	A pamphlet that describes the variety of life in an area, including the number of different species, the genetic wealth within each species, the inter-relationships between them, and the natural areas where they occur.
Info Talk: Cranes	Share-Net	N.D	Pamphlet		Share-Net	A pamphlet that looks at the life of cranes, their importances and the threats to cranes.

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Info Talk: Invader / Alien Plants	Share-Net	N.D	Pamphlet		Share-Net	A pamphlet about invader or alien plants of the Maloti Drakensberg Bioregion. This pamphlet gives a clear definition of what alien plants are and why alien become invasive ,legislation action and rehabilitative measures and examples of common invaders.
Info Talk: Pollution	Share-Net	N.D	Pamphlet		Share-Net	A pamphlet about the causes of pollution ,the types of pollution and the consequences of pollution.
Info Talk: Soil Erosion	Share-Net	N.D	Pamphlet		Share-Net	A pamphlet on soil erosion, types and causes of soil erosion.
Info Talk: Waste Management	Share-Net	N.D	Pamphlet		Share-Net	A pamphlet on waste management that looks at how waste can be reduced ,re-used or recycled.
Info Talk: Water	Share-Net	N.D	Pamphlet		Share-Net	A pamphlet about water .It deals with different ways of acquiring water from different sources.
Info Talk: Wetlands	Share-Net	N.D	Pamphlet		Share-Net	A pamphlet about the wetlands of the Maloti Drakensberg Bioregion. This pamphlet also deals with the functions and the economic values of wetlands.
Introduction to Veldcare	Craig Morris & Donovan Kotze	01 March 2006	Book	(ISBN) 1-919991-38-7	Share-Net	A book that describes how the veld affects animals that is how livestock get their food from the veld.
Isangcobe/ Grain Storage		N D	Pamphlet			A pamphlet about grain storage. This pamphlet tells more on how to make a grain pit and how to store grain.
Lake Hornborga, Sweden - The Return of a Bird Lake	Tomas Hertzman & Torsten Larsson	21 June 2005	Book	(ISBN) 1 9044 18 3	Wetlands International	A book documenting the story of Lake Hornborga. It describes the ecological degradation of the lake, the restorative measures undertaken, and indicates preliminary results of the restoration.
Learners, Learning and Teacher-Learner Relationships	National Environmental Education Programme	27 June 2005	Book	(ISBN) 1-91991-21-2	Share-Net	A book about learners, learning and teacher relationships. The booklet reflects a number of ideas that are important to environmental learning processes which are the following, a better understanding of learning ways to develop critical thinking skills consideration of teacher -learner relationships and others.
Learning and Teaching Support Materials and their Use	National Environmental Education Programme	26 June 2005	Book	(ISBN) 1-919991-02-6	Share-Net	A book about learning and teaching support materials and their use. This book provides the important role that materials play in learning processes, windows into the future and how learning materials were selected in support to environmental

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						learning and how materials can be appraised for curriculum use.
Learning for Sustainable Living	Birdlife South Africa	22 June 2005	Book	(ISBN) 1-919777-29-6	Birdlife South Africa	A book about learning for sustainable living. It is a resource for Environmental Education in schools and covers crucial environmental issues, it exposes the interdependence between biodiversity and our lives to create an awareness of how people's activities impact on this biodiversity.
Learning support materials for rural health and sanitation	Share-Net	N.D	Book		Share-Net	A book on rural health and sanitation. It is a unit of work for active learning, and a number of learning areas like Natural Science has been covered.
Lesson Planning for a Healthy Environment	National Environmental Education Programme	26 June 2005	Book	(ISBN) 1-919991-04-2	Share-Net	A book about lesson planning for a healthy environment. This book aims to 1. support good quality lesson planning that will contribute to healthy environments in classroom and school and communities, 2. support environmental learning in OBE, and lastly it illustrates different dimensions of environmental learning.
Lesson Plans for the GET Band on Invasive Alien Plants	National Environmental Education Programme	26-Jun-05	Book		Share-Net	A series of lesson plans for the GET Band on invasive alien plants and various topics relating to conservation of nature.
Life around a Waterhole	Elizabeth Martens	01 November 2002	Book	(ISBN) 1-874891-96-6	Share-Net	A booklet that focuses on animals that can be found at a waterhole. The booklet is divided into four categories, eg, mammals, birds, reptiles and insects.
Management and Control of Invasive Alien Plants in KwaZulu-Natal	Eden Wildy	01 July 2005	Book	(ISBN) 1-874891-57-2	Share-Net	A book about management and control of invasive alien plants in KwaZulu-Natal. The main aim of the booklet is to provide a reference to enable the environmentally concerned public of KwaZulu-Natal and to eradicate some of the more common invasive alien plants.
Management of change	Linkopings Universitet	25 June 2005	Book	(ISBN) 91-7373-737-2	Linkopings Universitet	A book about management of change. It is a guideline to analysing change projects. It gives a brief discussion on change theory and how to create a change climate in the organisation.
Manual for team members	CoastCare	N.D	Book		DEAT	A book about working for the coast by team members with different topics on how this can be achieved. The contents are the environment, making the coast safer and

Title	Authors	Year	Category	ISSUE / ISBN	Publisher	Description
						many more.
MDTP Community Conservation Course handouts	compiled by WESSA	2007	Course notes		unpublished	A pack of notes from a course for adult learners on community conservation e.g: agriculture, conservation, community development, environmental laws and health.
Mini-SASS	Umgeni Water	01 March 2000	Pamphlet		Share-Net	A pamphlet that focuses on a community river health monitoring tool for South Africa.
Mondi Wetlands Project Evaluation Report	Water Project	01-Oct-05	MANUAL			A report on an evaluation of the Mondli Wetlands Project.
National Wetlands Indaba	Gauteng Wetland Forum	Oct-07	Book			A collection of paper presentations from a conference on wetlands.
Natural resources in action: Growing iNcema	Donovan Kotze, Myles Mander & Gavin Eisher	01 July 2003	Book	(ISBN) 1-874891-35-4	Share-Net	A booklet about the natural resource ,iNcema, why it grown, where and when to harvest it.
Our environment, our stories	Cheryl le Roux	N.D	Book	(ISBN) 0-620-33833-4	University of South Africa	A book about our environment and our stories. The book focuses on a collection of stories of environmental education research in Southern Africa.
Partnerships to Support Environmental Learning	National Environmental Education Programme	26 June 2005	Book	(ISBN) 1-919991-03-4	Share-Net	A book about partnerships to support environmental learning. The book focuses on the sustainable use of South Africa's natural resources for present and future generations as everyone has the right to an environment that is not harmful to their health or well being.
Partnerships, Networking and ESD in Southern Africa	SADC-Regional Environmental Education Programme	01 July 2006	Book		Share-Net	A book about partnerships ,networking and Education for Sustainable Development in Southern Africa. The main objectives of this book are to facilitate networking, linkages, exchange and intersection among stakeholders in ESD, and help countries to make progress towards and attain the MDG through ESD efforts.
Payment for ecosystem services	Maloti Drakensberg Transfrontier Project	01 December 2006	Magazine	4	Maloti Drakensberg Transfrontier Project	A quarterly magazine about the Maluti Drakensberg Transfrontier Project. This issue deals with the payment for ecosystem services and a topic on women in conservation.
Peatlands of South Africa	Piet-Louis Grundling & Rehana Dada	01 February 1999	Book		Share-Net	A book about the peatlands of South Africa focusing on the value of peatlands and how they function.
Practical Wetland Management Course	A.M. Braack, D. Walters &	03 March 2000	Book		Rennies wetland project	A book about the practical management of wetlands. It focuses on the following topic

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	D.C. Kotze					what wetlands are, wetland problems values of wetlands and other topics.
Precious Water - Social Science: Geography Grade 3	Share-Net	N.D	Pamphlet			Cannot find
Protecting Your Watershed Through a Source Water Assessment and Protection Plan	United States Environmental Protection Agency	01 November 1998	Book		EPA	A guide for communities and watershed groups on how to develop and implement an assessment and protection plan for existing and new watersheds.
Protecting Your Watershed Through a Source Water Assessment and Protection Plan	U.S Environmental Protection Agency	Nov-98	Book	EPA 903-B-98-001	EPA	A guide for communities and watershed groups on how to develop and implement an assessment and protection plan for existing and new watersheds.
Reference Document for Trainers	Silvex 460CC	Jan-07	Book			A book for trainers on how to provide training to empower contractors and their workers.
Resources and Opportunities for EE	Trupti Rawal	27 June 2005	Book	(ISBN) 81-86385-92-4	Center for Environment Education, Ahmedabad	A book about the resources and opportunities for Environmental Education in India.This module looks at the 'how' of Environmental Education and is designed to help to explore a range of resources and opportunities for conducting Environmental Education in schools.
Resources to support Waste Education in Schools	Share-Net	N.D	School Activity Packs			An Activity Pack about resources to support waste education in schools.The pack consists information on sources of waste.
Rethink-Refuse-Reduce: Education for sustainability in a changing world	Ken Webster	26 June 2005	Book	(ISBN) 1 85153 2862	FSC	A book about education for sustainability in a changing world.It is a book that attempt to reorientate ESD .It also acknowledges that people learn in different ways.
Soil conservation through indigenous knowledge practices in Swaziland	Lynn Kota	01 December 1999	Book	(ISBN) 1-874891-70-2	Share-Net	A book about soil conservation through indigenous knowledge practices in Swaziland.
Some common waterbirds	Dee Stead	01 May 1992	Book	(ISBN) 1-874891-03-6	Share-Net	A booklet that has been designed to enable you to identify some of the birds commonly found near ponds,lakes or streams.
Some for all, forever: Water ecosystems and people	Tally Palmer, Robert Berold, Nikite Muller & Patsy Scherman	#####	Book	( ISBN )1-86845-850-4	Water Research Commission	A book about water ecosystems and people.This book focuses on the importance and role of water resources in the environment.
Southern African Journal of Environmental Education	Environmental Education Association of	29 June 2005	Journal	(ISBN) 978-1-920051-69-3	EEASA	A journal on Southern African environmental education.It is journal that is published once a year,and focuses on the

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	Southern Africa					study and practice of environmental education ethics and action by providing a forum for researchers scholars and policy makers, and other aspects.
State of the environment in South Africa	Department of Environmental Affairs and Tourism	01 January 2001	Book	(ISBN) 1-874891-80-X	Share-Net	A book on the state of the environment in South Africa. This booklet aims to help you explore the state of South Africa's environment. This booklet can be used to identify environmental priorities, make plans, take action and contribute to a better state of the environment in South Africa.
State of the Rivers Report /Olifants Doring and Sandveld Rivers	River Health Programme	28 June 1905	Book	ISBN:0-620-36021-6	Dwa, Deat, WRC, CISR	A book on the current state of the aquatic ecosystems based on the findings of river surveys that were conducted in the Olifants, Doring and Sandveld Rivers as part of the River Health Programme.
Stories of Change 1: Action Research Case Studies	National Environmental Education Programme	27 June 2005	Book	(ISBN) 1-919991-08-5	Share-Net	A book about action research case studies. This book focuses on use of learning and teaching support materials, reflective implementation processes, improving the use of the Eco-School Toolkit, and other case studies.
Stories of Change 2: Most significant change experiences	National Environmental Education Programme	26 June 2005	Book	(ISBN) 1-919991-07-7	Share-Net	A book about the stories of change. This book focuses on the most significant change experiences of 4 different people on environmental issues.
Stream and Pond Life	Umgeni Valley Project	01 January 2006	Book	(ISBN) 978-1-874891-39-0	Share-Net	A book about stream and pond life.
Sustainable development for Durban	Rehana Dada	01 August 1998	Book	(ISBN) 1-874891-62-1	Share-Net	A book that focuses on an introduction to Local Agenda 21, metropolitan environmental legislation and general environment issues.
SWAP Water Audit: School, Home and Community	Share -Net	N.D	Activity Packs		Share-Net	An activity pack for auditing water quality and water use. These booklets can be used for water auditing activities at school, at home or in a community.
The River of Our Dreams	Peter Esterhuysen and Neil Napper	13 June 1905	Book	(ISBN) 0-620-15621-X	The Storyteller Group CC	A comic-style book illustrating how learners can solve environmental problems and help to educate others about the environment.
The Step Handbook Subtropical Thicket Ecosystem Programme	S.M. Pierce and A.D. Mader	01 January 20006	Book	0-9585131-1-2		A book about integrating the natural environment into the land use decisions at the municipal level towards sustainable development. The book aims to encourage awareness of the natural environment, assist the land use planners and the decision makers and assist



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						municipalitieswith their legal obligations to manage biodiversity sustainability.
The STEP Handbook: Subtropical Thicket Ecosystem Programme	SM Pierce and AD Mader	2006	Book	ISBN:0-9585131-0-4	Working for Water	A book about integrating the natural environment into land use decision-making processes at the municipal level, to help municipalities achieve sustainable development. The book aims to encourage awareness of the natural environment, assist the land use planners and the decision makers and assist municipalities with their legal obligations to manage biodiversity sustainably.
Training Manual for Training on EPWP Projects	Department of Public Works	09-Jan-00	Training Manual		Working for Water	A manual designed for Working for Water contractors.
Turtle Tourism	The Greater St. Lucia Wetland Park Authority	27 June 2005	Pamphlet		The greater St. Lucia	A pamphlet with a compilation of stories,that inform about the involvement of the public about the Park that is the Greater St.Lucia.
Understanding environment	K.B. Chhokar, Mamata Pandya & Meena Raghunathan	26 June 2005	Book	(ISBN) 0-7619-3277-1 (pb)	SAGE	A book about understanding the environment INDIA.It is a book that focuses on the following environmental issues,1.understanding how the earth's natural systems work,2.how to aquire tools and skills for wise efficient and productive environmental management.
Understanding Sustainable Development	Avanish Kumar	27 June 2005	Book	(ISBN) 81-86385-90-8	Center for Environment Education, Ahmedabad	A book about understanding sustainable development.This book deals with the links between environment and the development and how complex and conflicting situations arise when when we look at E and D.
UNESCO today - Journal of the German Commission for UNESCO	UNESCO	29 June 2005	Journal	(ISSN) 0937-924X)	UNESCO	A journal that is published yearly .Thi issue presents a selection of projects eg,help for street children in Ecuador,it also focuses on environmental issues eg,Sustainability in the Local Authoritiesand others.
Values and human rights in the curriculum	Department of Education, Republic of South Africa	23 June 2005	Book		Department of Education, Republic South Africa.	A book about integrating values and human rights into the school curriculum. It provides guidelines for educators on teaching and learning about values and human rights. It considers the pedagogic issues often faced by classroom practitioners.
Vikela	Farmer Support Group	01 May 2003	Newsletter		University of Kwazulu-Natal	A newsletter about how farmers have succeeded in marketing their organic produce, and documenting how they have been educated on financial management

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						skills.
Vikela	Farmer Support Group	01 November 2003	Newsletter		University of Kwazulu-Natal	A newsletter about how young people can learn how to care for the environment.
Vikela	Farmer Support Group (Zulu)	01 November 2003	Newsletter		University of Kwazulu-Natal	A newsletter about how young people can learn how to care for the environment. It includes a booklet on ways to prevent and repair soil erosion.
Vlei and Marsh Wetlands	Georg Friedel	01 August 1992	Book	(ISBN) 978-1-874891-10-4	Share-Net	A book about how to preserve life ,prevent the injury or illness , and to promote recovery.
VPK Business Venture Fire Fighting Module	VPK	N.D	Book		Working for Water	A training manual about basic fire fighting.
VPK Business Venture: Brush cutter manual	VPK	N.D	Book		Working for Water	A training manual that informs contractors and supervisors about occupational health and safety.
VPK Business Venture: Chainsaw operator module	VPK	28 June 2005	Book		Working for Water	A training manual that provides peer educators with information on how to educate others e.g. how to prevent spread of HIV/AIDS, and how to care for infected and affected people.
VPK Business Venture: Diversity management (Race and Gender)	VPK	N.D	Book		Working for Water	A training manual about diversity in the workplace and how these different aspects are managed e.g. race, gender and others.
VPK Business Venture: Fire awareness module	VPK	N.D	Book		Working for Water	A training manual about basic fire awareness.
VPK Business Venture: First Aid module level 1	VPK	N.D	Book		Working for Water	A training manual about the basic principles and practices of safety and First Aid.
VPK Business Venture: First Aid module level 2	VPK	N.D	Book		Working for Water	A manual about a technique for rapidly assessing the ecosystem services supplied by wetlands.
VPK Business Venture: Herbicide module	VPK	N.D	Book		Working for Water	Notes for a course for adults on wetland and riparian awareness and delineation.
VPK Business Venture: Occupational healthy and safety module	VPK	N.D	Book		Working for Water	A training manual that informs contractors and supervisors about occupational health and safety.
VPK Business Venture: Peer educator manual	VPK	N.D	Book		Working for Water	A training manual that provides peer educators with information on how to educate others e.g. how to prevent spread of HIV/AIDS, and how to care for infected and affected people.
VPK Business Venture: Personal finances module	VPK	N.D	Book		Working for Water	A training manual on personal financial planning and banking.
Water Fun	More Education	N.D	Magazine		Share-Net	An illustrated field guide for practical use. It provides general guidelines for spring protection and water extraction methods.

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Water-Saving Game	Leanne Gallard-Coetzee & Roberta Griffiths	N.D	Magazine		Department of Science and Technology	A game, extracted from a magazine, which can be used to teach people how to save water.
Wet-EcoServices	Kotze DC,Marnweck GC,Batchelor AL,Lindley DS, AND Collins NB	ND	Manual		UKZN,WCS,MWP.DTEEA AND Free State	A manual about a technique for rapidly assessing the ecosystem services supplied by wetlands.
Wetland and Riparian Awareness Course Notes (Version 1.0)	Mark Rountree, Allan Batchelor, Lindo Hlongwane & Nonkanyiso Maphumulo	29 June 2005	Pamphlet	NON	Department of Water Affairs and Forestry	Notes for a course for adults on wetland and riparian awareness and delineation.
Wetland Fix - Part 2: Wetland burning and grazing	Jon Wyatt	17 June 2005	Field Guide	2	Rennies Wetland Campaign	An illustrated field guide for practical use. It provides information and guidelines for wetland burning.
Wetland Fix - Part 3: Streambank stabilization and channel plug development	Jon Wyatt	17 June 2005	Book	3	Rennies Wetland Campaign	An illustrated field guide for practical use. The purpose of this grazing guide is to recommend best practices for domestic stock grazing and wildlife grazing.
Wetland Fix - Part 4: Indigenous plants suitable streambank stabilization and channel plug development	Jon Wyatt	17 June 2005	Book	4	Rennies Wetland Campaign	An illustrated field guide for practical use. It provides guidelines on choosing indigenous plants for streambank stabilization and channel plug development.
Wetland Fix - Part 5: Stream source, wetland spring protection guide	Jon Wyatt	17 June 2005	Book	5	Rennies Wetland Campaign	An illustrated field guide for practical use. It provides general guidelines for spring protection and water extraction methods.
Wetland Fix - Part 6: Alien plant control guide	Jon Wyatt	17 June 2005	Book	6	Rennies Wetland Campaign	An illustrated field guide for practical use. This guide provides information and guidelines for alien plant control.
Wetland poster	Action Team - Zimbabwe	N.D	Poster		Action Team - Zimbabwe	A booklet designed to assist a range of people, including extension workers and high school children, in understanding the functioning and values and management of wetlands.
Wetland values and functions	Ramsar	23 June 2005	Pamphlet		Ramsar	A pamphlet about the values and functions of wetlands, e.g. flood control, water purification and others.
Wetland Webs	Liz Day & Gill Pearson	N.D	Magazine		Faversham House Group Limited	An extract from a magazine that depicts some of the biodiversity found in wetlands,

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						and illustrates wetland food webs.
Wetland-RoadMap	R Dada,D Kotze, W Ellery, M Uys	2007	Guide	(ISN) 978- 77005-632-9	Ramsar	A brief outline of the document and tools provided in the Wet-Management series. It describes how the various tools interrelate, provides an index to the various wetland rehabilitation tools, and includes references to specific sections where relevant.
Wetlands - Basic plant identification guide	Umgeni Valley EE Centre	22 June 2005	Book		Share-Net	A basic fieldguide which can be used to identify various wetland grasses, sedges, restios and rushes.
Wetlands - The basics and some more	N.C. Collins	01 March 2006	Book	(ISBN) 0- 86886-708-X	Free State Department of Tourism	This book is a product of the Free State wetland policy. It describes 5 strategies that will promote wetland conservation in the Free State and stimulate organisations to get involved in wetland conservation.
Wetlands and People	Donovan C. Kotze	01 June 1996	Book	(ISBN) 978-1- 87-4891-45-9	Share-Net	A booklet designed to assist a range of people, including extension workers and high school children, in understanding the functioning and values and management of wetlands.
Wetlands poster	Action Team - Zimbabwe	20 June 2005	Poster		Action Team - Zimbabwe	A poster developed by the Action Team illustrating various plants and animals in the Okavango Delta wetland.
Wetlands working for you	Robert Inglis and Rico	N.D.	Poster		Department of Science and Technology	A poster on Wetlands,
Wetlands: Water-Life-Culture	Working for Wetlands	N.D	Booklet		Wildlife and Environment Society of South Africa	A collection of anecdotes and stories relating to wetlands, which were drawn from a wide range of cultural settings in South Africa.
WetlandWire Newsflash	The Greater St. Lucia Wetland Park Authority	N.D	Pamphlet			A regular newsletter for the public and holidaymakers focusing on wetlands of the Greater St.Lucia Wetland Park.
Whole-School Approaches to Sustainability: An International Review of Whole-School Sustainability Programs	Aries	26 June 2005	Book	(ISBN)1- 864089792	McLaren Press	A review of whole-school approaches to sustainability. This book is divided into the following sections: findings, overview, implications and recommendations.
Wildside	Jennifer Crawford	No 1 of 2007	Magazine	ISBN: 0620339349	Wildside Publishing cc	A quarterly magazine dealing with a number of topics relating to nature conservation and places of interest iin KZN.
Wildside	Jennifer Crawford	No 2 of 2006	Magazine	ISBN: 0620339349	Wildside Publishing cc	A quarterly magazine dealing with a number of topics relating to nature conservation and places of interest iin KZN.

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Working for Water: Herbicide training manual	Working for Water	23 June 2005	Training manual		Working for Water	A training manual providing guidelines for the use of herbicides, application technique and how to transport them safely.
Working for Water: HIV/AIDS training manual for peer educators	Working for Water	08 March 2005	Training manual		Working for Water	A training manual for Peer Educators developed by the Working for Water Programme. It is designed to equip learners with basic HIV/AIDS information and skills.
Working for Wetlands (Strategy 2006-2010)	Working for Wetlands	28 June 2005	Book		Working for Wetlands	A book about Working for Wetlands presenting 7 strategic areas of work: e.g. wetland protection, wetland rehabilitation, programme management and others.
Working Wetland	Water Wise	N.D	Magazine			A magazine about the important functions of wetlands. A few have been illustrated e.g. flood control and others.
World Water	World water and environmental engineering	November / December 2005	Magazine	Volume 28 Issue 6	Faversham House Group Limited	A magazine that delivers the latest news about issues, trends and international developments in the water industry, special reports case studies and new technologies and innovations.
World Wetlands Day: Healthy Wetlands, Healthy People	Ramsar	01 October 2007	Poster		Ramsar	A poster developed for World Wetlands Day. It illustrates good wetland and water management practices which will minimize negatives and maximize the positives functions of wetlands.