



# ***State-wide Investment Projects***








## ***Water Quality***



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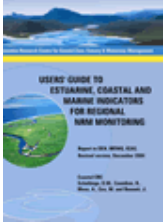

# Fact sheets

	Title	Brief description	Availability
	<i>WQ Online web site</i>	The WQ Online web site is a delivery system for water quality information and tools developed as part of the NAP WQ SIP.	Available from <a href="http://www.wqonline.info">www.wqonline.info</a>
	<i>WQ Online Fact sheet</i>	The WQ Online fact sheet provides an overview of the WQ Online web page and provides an overview on how to use the info pool.	
	<i>WQ01 fact sheet</i>	This fact sheet will provide an overview of the task WQ01 which aims to guide and support regional bodies through the target setting process and the development of monitoring, evaluation and reporting components of the regional NRM planning process.	
	<i>WQ03 Modelling fact sheet</i>	This fact sheet outlines the objectives and outcomes of the project on catchment modelling.	
	<i>WQ04 fact sheet</i>	This fact sheet provides an overview of the WQ04 project - State of the Rivers	
	<i>WQ05 fact sheet</i>	This fact sheet provides an overview of community monitoring and what WQ05 is doing in their project	
	<i>WQ06 fact sheet</i>	This fact sheet provides an overview of the WQ06 project	



	Title	Brief description	Availability
	<i>Load monitoring data collection and interpretation fact sheets</i>	These information sheets provide information on load-based monitoring events for regional communities involved in the sampling events	<b>Available from</b> <a href="http://www.wqonline.info">www.wqonline.info</a>
	<i>State of Rivers: Spatial data layers</i>	This fact sheet provides the reader with information about how the SOR database can be queried	

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# Guides








	Title	Brief description	Availability
	<i>ANZECC Guidelines html help system</i>	Guides:ANZECC Water Quality Guidelines, ANZECC WQ Monitoring & Reporting Guidelines, Queensland Water Quality Guidelines, CRC Coastal Indicator Guide, NHMRC Recreational Water Quality Guidelines. The ANZECC guidelines have been incorporated into an html help file system to enable users easy access through the ANZECC guideline document.	
	<i>ANZECC Monitoring and Reporting Guidelines html help system</i>	The ANZECC monitoring and reporting guidelines have been integrated into a help system for easy access to the guidelines document	
	<i>Community monitoring health and safety guidelines</i>	The H&S guidelines for community monitoring has been developed to assist community groups in assessing health and safety factors involved in water quality sampling.	
	<i>eGuides</i>	eGuides – 5 guideline documents in 1 fully searchable html Help system	
	<i>Event-based sampling procedures guide for suspended solids, nutrients and pesticides</i>	The event-based sampling procedures guide is a field-based manual to provide assistance for community groups during field sampling.	
	<i>Indicator Guidelines html help system</i>	The Indicator guideline is an html help file system of the Coastal CRC document <i>Users' Guide to Estuarine, Coastal and Marine Indicators for Regional NRM Monitoring</i> . The help file allows easy navigation through the document, which can be used to identify appropriate indicators for monitoring.	
	<i>NHMRC Recreational Water Quality Guidelines</i>	The recreational water quality guidelines are a tool to assist in the development of legislation and standards to ensure that recreational water environments are managed as safely as possible.	

Available from [www.wqonline.info](http://www.wqonline.info)

	Title	Brief description	Availability
	<i>QLD Water Quality Guidelines</i>	The QWQG developed by the Environmental Protection Agency (EPA) are technical guidelines for the protection of aquatic ecosystems.	
	<i>Technical Reference Manual</i>	The technical reference manual is a compilation of information to guide community groups in designing monitoring programs. It will be delivered through a series of modules focussing on data confidence, objectives setting, study design, sampling methods, data management, interpretation and reporting.	<b>Available from</b> <a href="http://www.wqonline.info">www.wqonline.info</a>

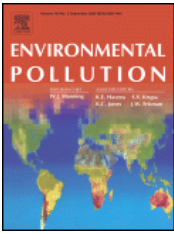
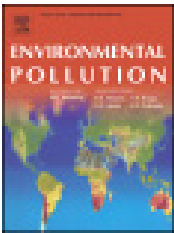



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# Conference papers

	Title	Brief description	Availability
	<i>A decision support system for licensing sewage discharges to aquatic environments: Development and demonstration</i>	This is a paper presented at the MODSIM conference on the development of a DSS for sewage licensing discharge	Available from <a href="http://www.wqonline.info">www.wqonline.info</a>
	<i>Comparison of mean annual suspended loads estimated by the SedNet model and rating curves in the Fitzroy catchment, Australia</i>	This is a paper presented at the MODSIM conference on the Comparison of mean annual suspended loads estimated by the SedNet model and rating curves in the Fitzroy catchment	
	<i>Decision support system for developing community-driven water quality monitoring plans</i>	Conference paper: This is a paper presented at the MODSIM conference on the development of a DSS for community water quality monitoring	
	<i>Hidden datasets an untapped resource</i>	Conference paper: This is a paper presented at the MODSIM conference about the Natural Resource Info Pool and how and why this task was undertaken.	
	<i>Predicting the effects of secondary salinisation on stream macroinvertebrate communities using artificial neural networks</i>	4th Conference of the International Society for Ecological Informatics (ISEI) Pusan National University, Busan (Pusan), Korea October 24-28, 2004.	
	<i>Sensitivity analysis of a catchment scale sediment generation and transport model</i>	Conference paper: This is a paper presented at the MODSIM conference on the Sensitivity analysis of a catchment scale sediment generation and transport model	
	<i>Towards a risk model to assess the impact of dissolved salts in freshwater aquatic ecosystems.</i>	The Fifth Biennial Postgraduate Student Conference of the CRC for Water Quality and Treatment (10-13 July 2006).	







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# Scientific papers




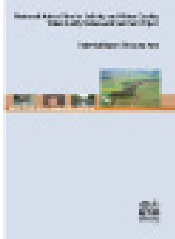

	Title	Brief description	Availability
	<i>Do laboratory salinity tolerances of freshwater animals correspond with their field salinity?</i>	This study compares laboratory derived salinity tolerances of macroinvertebrates and fish with the salinity in which they were collected from in the field	Available from <a href="http://www.wqonline.info">www.wqonline.info</a>
	<i>Growth of the Damselfly Ischnura heterosticta is better in saline water than freshwater. Environmental Pollution</i>	Study of effects of salinity on macroinvertebrates	
	<i>Is salinity all the same? The effect of ionic compositions on the salinity tolerance of five species of freshwater invertebrates</i>	Study of ionic proportions of water and their influence on tolerance of salinity in freshwater organisms.	
	<i>Response of stream macroinvertebrates to change in salinity and the development of a salinity index.</i>	This study investigates between macroinvertebrates and conductivity levels in Queensland streams	
	<i>What is meant by "95% of species"? An argument for the inclusion of rapid tolerance testing. Human and Ecological Risk Assessment</i>	A discussion and review of assumptions based on the premise that sensitivity data of species included in the species sensitivity distribution (SSD) are sufficient to predict the effect on species for which there is no data.	

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# Reports



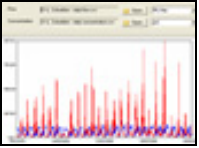


Title	Brief description	Availability
	<p><i>Burdekin region Water Quality Monitoring. Interim Report to the Burdekin Dry Tropics Board - July 2005</i></p> <p>This interim report summarises the outcomes from the January 2005 event sampling in the Burdekin region.</p>	
	<p><i>Burnett Mary Regional Water Quality Summary</i></p> <p>This report gives a summary of water quality condition, and associated spatial information, to support the Burnett, Mary NRM region's water quality improvement plan.</p>	
	<p><i>Burnett Riparian Benchmarking and mapping Report</i></p> <p>The report provides baseline data on benchmarked riparian vegetation in the Burnett Catchment</p>	
	<p><i>Condition and trend report: Burdekin</i></p> <p>The report summarises the water quality condition assessment for the Burdekin region using the framework for integrated assessment.</p>	
	<p><i>Condition and trend report: Burnett Mary</i></p> <p>The report summarises the water quality condition assessment for the Burnett-Mary region using the framework for integrated assessment.</p>	
	<p><i>Condition and trend report: Condamine</i></p> <p>The report summarises the water quality condition assessment for the Condamine region using the framework for integrated assessment.</p>	<p><b>Available from</b>  <a href="http://www.wqonline.info">www.wqonline.info</a></p>

Title	Brief description	Availability
 <p><i>Condition and trend report: Fitzroy</i></p>	<p>The report summarises the water quality condition assessment for the Fitzroy region using the framework for integrated assessment.</p>	
 <p><i>Potential impacts of salinity and turbidity in riverine ecosystems: Characterisation of impacts and a discussion of regional target setting for riverine ecosystems in QLD</i></p>	<p>The review provides an up to date and comprehensive summary of the available scientific information regarding salinity and turbidity impacts in aquatic ecosystems.</p>	
 <p><i>Regional event mean concentration (EMC) and dry weather concentration (DWC) values – Technical Report</i></p>	<p>Technical report, which include literature survey, methods used in estimating EMC/DWC, tables of EMC/DWC values and their distribution (Box and whisker plots) of SS and major nutrients for each land use type in major catchments. Integration of regional land use specific distributions of EMC/DWC values into E2.</p>	<p><b>Available from</b>  <a href="http://www.wqonline.info">www.wqonline.info</a></p>
 <p><i>Regional turbidity-suspended solids relationships – Technical report</i></p>	<p>Technical report describing TSS and turbidity relationship and the details of other covariates, which influence this relationship. The report will also include catchment or land use specific models/rating curves for predicting TSS and uncertainty estimates in using these TSS and Turbidity relationships.</p>	
 <p><i>Report - Techniques for interpolating water quality data</i></p>	<p>This project investigates statistic techniques for interpolating spatial water quality data.</p>	
 <p><i>State of the Rivers: Burdekin Region</i></p>	<p>The SOR report provides a baseline dataset and technical report of riverine habitat assessment (including instream and riparian condition) using SOR methodologies for subcatchments and catchments of the Burdekin Region.</p>	

Title	Brief description	Availability
	<p><i>State of the Rivers: Fitzroy Region</i></p> <p>The SOR report provides a baseline dataset and technical report of riverine habitat assessment (including instream and riparian condition) using SOR methodologies for subcatchments and catchments of the Fitzroy region.</p>	
	<p><i>State of the Rivers: Upper Brisbane, Mid Brisbane and Stanley Rivers and Major Tributaries</i></p> <p>The SOR report provides a baseline dataset and technical report of riverine habitat assessment (including instream and riparian condition) using SOR methodologies for the SEQ Western Catchments: Upper Brisbane, Mid Brisbane and Stanley Rivers and Major Tributaries</p>	
	<p><i>Technical Report – GBR Modelling Report</i></p> <p>The technical report will provide an overview of the application of SedNet in the GBR catchments. It will comprise of chapters dedicated to each of the GBR regions; including 3 NAP regions – Burnett-Mary, Fitzroy and Burdekin. These chapters will include maps that show the spatial distribution of sediment sources and sinks. They also show the contribution of sub-catchments to total suspended sediment export to the coast under current and selected management scenarios.</p>	<p><b>Available from</b>  <a href="http://www.wqonline.info">www.wqonline.info</a></p>
	<p><i>Technical Report - Predicting sediment and nutrient generation in E2</i></p> <p>Technical report on predicting sediment and nutrient generation in Queensland catchments. Contaminant generation model, which is more appropriate for Queensland streams and integrated these models into E2.</p>	
	<p><i>Technical Report - Regional Hydraulic Geometry models</i></p> <p>Technical report on riparian vegetation classes and regional hydraulic geometry relations for Queensland streams. Integrated these channel geometry relations into SedNet/E2 models.</p>	

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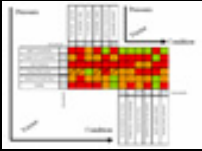

# Tools

Title	Brief description	Availability
	<p><i>The Natural Resource Info Pool</i></p>	<p>The Info Pool is a web-based tool that has been designed as a storage and search tool for information and data on water quality.</p>
	<p><i>Loads tool</i></p>	<p>The loads tool provides guidance on a series of alternative techniques for calculating sediment loads. This tool is a decision-based tool with the ability to provide a comparative assessment of the load calculation techniques.</p>
	<p><i>Guidelines tool</i></p>	<p>The Guidelines tool is a software system that will take an input time series of water quality parameters and compare this to a guideline value chosen by the user from a library of guidelines. The procedure for setting guidelines follow percentile statistical principles to provide the user with an indication of whether or not the site from which the data have been drawn is/isn't complying with the guideline.</p>
	<p><i>Safegauge: Pesticide Decision Support Tool</i></p>	<p>The Pesticide DSS is a tool for landowners and extension personnel to minimise the risk of off-site losses of pesticides from canelands to surface and ground waters. CD available</p>
	<p><i>Condition Response Tool</i></p>	<p>The Condition Response Tool (CRT) is a software program designed to create qualitative conceptual models that relate water quality to landscape processes and biological condition.</p>

Available from [www.wqonline.info](http://www.wqonline.info)




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# Models

Title	Brief description	Availability
	<p><i>Framework for condition and trend assessment</i></p> <p>This document provides an overview of the development of a framework for assessing whole of catchment aquatic ecosystem condition. The assessment framework is focused on identifying important ecological processes and describing each process in terms of conceptual models. These models can then be used to facilitate an assessment based on pressures, their mechanisms of influence (vectors) and condition of relevant indicators.</p>	<p><b>Available from</b>  <a href="http://www.wqonline.info">www.wqonline.info</a></p>
	<p><i>Monitoring Plan Tool</i></p> <p>The monitoring plan tool is a software program to assist natural resource managers to develop and plan their proposed monitoring activity. The tool will aid the development of community monitoring plans through it's valuable 'action learning' component.</p>	

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# Databases

	Title	Brief description	Availability
	<i>Ecological Health Impacts database</i>	The EHI database will be a repository for information on salinity and turbidity tolerances of aquatic species.	<b>Available</b> from <a href="http://www.wqonline.info">www.wqonline.info</a>
	<i>EMSS in the Condamine – Data sets, communication and building capacity</i>	This project help to build regional capacity in the use and application of EMSS modelling for the Condamine region, including the provision of maps and input layers	
	<i>State of Rivers: Spatial data layers</i>	The fact sheet provides the reader with information about how the SOR database can be queried	

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