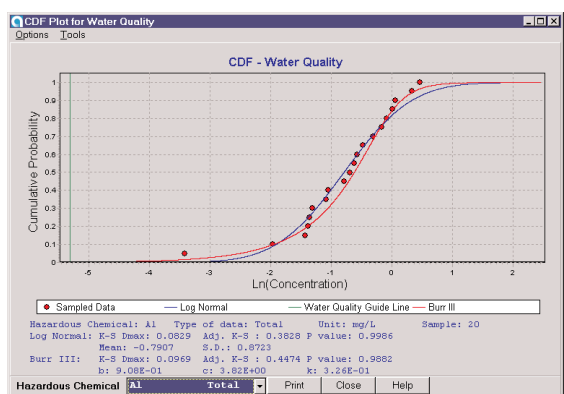


aquARISK^{v3}

Enhancing the conservation of biodiversity

Hazard	Unit	Type	Max	Min	Median	Average	S.D.	Sample	Hazard Q	CCPC
Al	mg/L	Total	1.59E+000	3.30E-002	5.20E-001	6.06E-001	4.08E-001	20	6.90E+002	Yes
Cr	mg/L	Total	2.80E-002	2.00E-003	2.00E-003	5.90E-003	6.38E-003	20	2.80E+000	Yes
Cu	mg/L	Total	2.50E-002	1.00E-003	6.00E-003	8.10E-003	6.16E-003	20	2.04E+001	Yes
Mn	mg/L	Total	4.38E-001	3.90E-002	1.08E-001	1.50E-001	1.09E-001	20	5.60E+000	Yes
Ni	mg/L	Total	1.30E-002	2.00E-003	6.00E-003	5.95E-003	2.18E-003	20	8.76E-001	No
Pb	mg/L	Total	1.00E-002	3.00E-004	7.00E-004	1.23E-003	2.10E-003	20	1.00E+001	Yes
Zn	mg/L	Total	1.65E-001	3.20E-002	7.65E-002	8.21E-002	3.70E-002	20	4.43E+001	Yes

Potential users of AQUARISK include regulators, mine managers, consultants, researchers, government and public sector advisers, environmental engineers, academics, students and downstream users, and the general public.



AQUARISK software is an important tool used to predict pollutant releases and link environmental engineering with ecological goals for sustainable development within industries impacting the environment.

AQUARISK:

- Assesses site-specific ecological risks with geochemical speciation modelling
- Sets remediation targets and release limits to enhance and protect aquatic, marine and terrestrial environments
- Predicts reduction in toxic substance concentrations required to achieve a tolerable level of impact
- Assesses outcomes against Australian water quality guidelines



The need to estimate ecological costs of economic and industrial development inspired researchers from the Australian Nuclear Science and Technology Organisation (ANSTO) to develop AQUARISK. Years of research into the biological impact of acid rock drainage and release of metals into the environment resulting from industrial processes such as mining underpin the software development.



For more information, visit www.hearne.com.au/aquarisk



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