

ASSESSMENT REPORT 54

McArthur River Mine Open Cut Project

McArthur River Mining Pty Ltd

ENVIRONMENTAL ASSESSMENT REPORT

August 2006



Environment Protection Agency (EPA) Program



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Abbreviations

AAPA	Aboriginal Areas Protection Authority
AC	Acid Consuming
Administrative Procedures	<i>Environmental Assessment Administrative Procedures (1984)</i>
AEP	Annual Exceedance Probability
AFANT	Amateur Fishing Association of the Northern Territory
ANCOLD	Australian National Committee on Large Dams
ANZECC	Australia and New Zealand Conservation Council
Assessment Report 51	<i>Environmental Assessment Report (Number 51)</i> Assessment of the initial McArthur River Mine Open Cut Project proposal based on the EIS
ARI	Average Recurrence Interval flood event.
AUSRIVAS	Australian River Assessment System: AusRivAS Physical Assessment Protocol
As	Arsenic
Cd	Cadmium
CRG	Community Reference Group
CSIP	MRM's Corporate Social Involvement Program
Cu	Copper
dmt	Dry metric tonnes
dmt/y	Dry metric tonnes per year
draft EIS	<i>Draft Environmental Impact Statement</i> for the McArthur River Mine Open Cut Project (submitted August 2005) (Referenced as URS (2005a))
COAG	Council of Australian Governments
DBERD	Department of Business, Economic & Regional Development, NT Government
DEH	Australian Department of Environment and Heritage
DPIFM	Department of Primary Industry, Fisheries & Mines, NT Government
EAA	<i>Environmental Assessment Act (1982)</i> , NT Government.
EIS	<i>Environmental Impact Statement (draft and Supplement)</i> for the McArthur River Mine Open Cut Project, August 2005.
EIS/PER	EIS and PER documents for the McArthur River Mine Open Cut Project
EPA Program	Environment Protection Agency Program of the Northern Territory Government
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
Fe	Iron
Guidelines	<i>Guidelines for Preparation of a Public Environmental Report, McArthur River Mine Expansion.</i> May 2006
Gulf	Gulf of Carpentaria of Northern Australia, including the Sir Edward Pellew Islands offshore of the McArthur River Mouth, and Bing Bong Port ~25 km to the NW.
Ha	Hectares
HABSCORE	A Rapid Bioassessment Protocol developed by the United States Environmental Protection Agency (USEPA)
HCS	Heritage Conservation Services
HMTV	Hardness modified trigger value
(ISQG-High)	Probable-effects concentrations below which biological effects would possibly occur. Concentrations at or above the ISQG-High represent a probable-effects range within which effects would be expected to frequently occur.
ISQG-Low	Interim Sediment Quality Guidelines-Low. Probable effects concentrations below which biological effects would rarely occur.
kL	Kilolitres (1,000 litres)

IUCN	International Union for the Conservation of Nature
km	Kilometre
MAWA	Mawurli and Wirriwangkuma Aboriginal Association
m	Metre
M	Million
m ³	Cubic metres
the Minister	Minister for Natural Resources, Environment and Heritage (NT)
Mn	Manganese
Mt	Million tonnes
Mt/y	Million tonnes per year
MMP	Mining Management Plan
MRM	McArthur River Mine Joint Venture
MRM1, MRM2	Recognised archaeological sites
MRM4	Archaeological site excised from the eastern aspect of the OEF footprint.
NAF	Non Acid Forming
NEPC	National Environment Protection Council
NLC	Northern Land Council
NRETA	Department of Natural Resources, Environment & the Arts , NT Government
NRM	Natural Resource Management section of NRETA
NT	Northern Territory
OEF	Overburden Emplacement Facility
Over burden	Non ore-bearing material overlying the ore
PAF	Potentially Acid Forming
Pb	Lead
PER	<i>Public Environment Report</i> for the McArthur River Mine Open Cut Project (submitted July 2006)(Referenced as URS (2006))
proponent	McArthur River Mining Pty Ltd (MRM), wholly owned by Xstrata
Responsible Minister	Minister for Mines and Energy (NT)
s	Section
Supplement	<i>Supplement</i> to the <i>draft Environmental Impact Statement</i> for the McArthur River Mine Open Cut Project (submitted December 2005)(Referenced as URS (2005b))
Tailings	Fine wastes from the processing operations
Zn	Zinc