



Section 8

South East Open Cut Project
&
Modification to the
Existing ACP Consent

SECTION 8 - REFERENCES

- AECOM, (2009). Ashton Coal Project, Proposed South East Open Cut Preliminary Hazard Analysis. Ashton Coal operations Limited.
- Agricultural Land Classification (DII).
- Applying SEPP 33 - Hazardous and Offensive Development Application Guidelines (DUAP).
- Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (EPA).
- Approved Methods for the Sampling and Analysis of Air Pollutants in NSW(EPA).
- Aquaterra, (2009). Ashton South East Open Cut Project Hydrogeological Impact Assessment. Ashton Coal Operations Pty Limited.
- AS/NZS 4360:2004 Risk Management (Standards Australia).
- Ashton Coal Operations Pty Limited (2007). Ashton Coal Environmental Management Report 2006/2007.
- Ashton Coal Operations Pty Limited (2008). Ashton Coal Annual Environmental Report 2007/2008.
- Australian Coal Association (2006). Clean Coal Technologies in Australia.
- Australian Government (1999). Environment Protection and Biodiversity Conservation Act 1999.
- Australian Government (2007). Australia's Climate Change Policy – Our Economy, Our Environment, Our Future.
- Department of Climate Change, (2008c). "Carbon Pollution Reduction Scheme. White Paper".
- DCC (2009a) "National Greenhouse Accounts (NGA) Factors" June 2009. Published by the Department of Climate Change. <http://www.greenhouse.gov.au/workbook/>.
- DCC (2009b) "Australian National Greenhouse Accounts: National Inventory by Economic Sector 2007" May 2009. Published by the Department of Climate Change. <http://www.climatechange.gov.au>.
- DCC (2009c) "Australian National Greenhouse Accounts: State and Territory Greenhouse Gas Inventories 2007" May 2009. Published by the Department of Climate Change. <http://www.climatechange.gov.au>.
- Department of Climate Change,(2008b). "Carbon Pollution Reduction Scheme. Green Paper."
- Department of Infrastructure Planning and Natural Resources (2005). Stream/aquifer guidelines. Management of stream/aquifer systems in coal mining developments.
- Department of Lands, (2009). South East Open Cut. Soil, Land Capability and Agricultural Suitability Report. Ashton Coal Operations Limited.
- Draft Guidelines for Threatened Species Assessment under Part 3A of the Environmental Planning and Assessment Act 1979 (DEC).
- Draft Hunter Unregulated and Alluvial Water Sources Water Sharing Plan.
- Draft NSW Construction Noise Guideline (DECC, 2008).
- Environmental Criteria for Road Traffic Noise (EPA, 1999).
- Environmental Geochemistry International Pty Ltd, (2009). Ashton coal South East Open Cut Project..Ashton Coal Operations Limited.
- Environmental Guidelines: Use of Effluent by Irrigation (DECC) Murray-Darling Basin Groundwater Quality. Sampling Guidelines. Technical Report No 3 (MDBC).
- Environmental Resources Management Australia Pty Ltd, (2005). Singleton council Rural residential development Strategy. Singleton Council.
- Environmental Resources Management Australia Pty Ltd, (2009). Ashton Coal South East Open Cut. Flora and Fauna Assessment. Ashton Coal Operations Limited.

- Heritas Architecture, (2009). Ashton Coal Project, Camberwell, NSW. European Heritage Assessment. Ashton Coal Operations Limited.
- HLA-Envirosciences Pty Limited (2001). White Mining Limited Ashton Coal Project Environmental Impact Statement.
- Hunter Regulated River Water Source Water Sharing Plan (DIPNR, 2004).
- Hunter Valley Research Foundation, (2009) Estimates of regional economic Impacts from the Construction and operations of the Ashton Coal Operations Limited – South East Open Cut Mine. Ashton Coal Operations Limited.
- Insite Heritage Pty Ltd, (2009). Aboriginal Archaeological Assessment. Proposed South East Open Cut Project. Ashton Coal Operations.
- Managing Urban Stormwater: Soils & Construction (Landcom).
- Marine Pollution Research Pty Ltd, (2009). Ashton Coal South East Open Cut Environmental assessment – Aquatic Ecology Impact Assessment . Ashton Coal Operations Pty Limited.
- Mine Rehabilitation - Leading Practice Sustainable Development Program for the Mining Industry (Commonwealth of Australia)
- Murray Darling Basin Commission (MDBC) (2001). "Groundwater flow modelling guideline. Murray-Darling Basin Commission." URL:www.mdbc.gov.au/nrm/water_management/groundwater/groundwater_guides.
- Murray-Darling Basin Commission. Groundwater Flow Modelling Guideline (Aquaterra Consulting Pty Ltd).
- New South Wales State Government (1961). Mine Subsidence Compensation Act 1961.
- New South Wales State Government (1974). National Parks and Wildlife Act 1974.
- New South Wales State Government (1977). Heritage Act 1977.
- New South Wales State Government (1991). Protection of the Environment Operations Act (1991).
- New South Wales State Government (1992). Mining Act 1992.
- New South Wales State Government (1992). State Environmental Planning Policy No. 33 – Hazardous and Offensive Development.
- New South Wales State Government (1993). Roads Act 1993.
- New South Wales State Government (1994). Fisheries Management Act 1994.
- New South Wales State Government (2000). Environmental Planning and Assessment Regulation 2000.
- New South Wales State Government (2000). State Environmental Planning Policy No 44 – Koala Habitat Protection.
- New South Wales State Government (2000). Water Management Act 2000.
- New South Wales State Government (2003). Native Vegetation Act 2003.
- New South Wales State Government (2005). State Environmental Planning Policy No. 55 – Remediation of Land.
- New South Wales State Government (2005). State Environmental Planning Policy (Major Developments) 2005.
- New South Wales State Government (2007). State Environmental Planning Policy (Infrastructure) 2007.
- New South Wales State Government (2007). State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.
- Nichols, O., 2005, *Development of Rehabilitation Completion Criteria for Native Ecosystem Establishment on Coal Mines in the Hunter Valley*, ACARP.
- NSW Government Water Quality and River Flow Objectives (DECC)
- NSW Groundwater Dependent Ecosystem Policy (DLWC).
- NSW Heritage Manual (NSW Heritage Office & DUAP).
- NSW Industrial Noise Policy (EPA, 1999).
- O'Hanlon Design Pty Ltd, (2009). Ashton Coal South East Open Cut Project. Visual and Lighting Impact Assessment. Ashton Coal Operations Limited.
- PaeHolmes,(2009). Air Quality impact Assessment – Ashton south East Open Cut Mine. Ashton Coal operations limited.

Planning Workshop Australia Pty Ltd in conjunction with Land and Environment planning, (2006). Draft Situation Analysis – Singleton. Singleton Council.

Planning Workshop Australia Pty Ltd, (2008). Singleton Land Use Strategy, prepared for Singleton Council.

Prakash, A. (2005). Spontaneous combustion, http://www.gi.alaska.edu/~prakash/coalfires/spontaneous_combustion.html.

Protection of the Environment Operations (Clean Air) Regulation 2002.

Rural Land Capability Mapping (DLWC).

Sinclair Knight Merz Pty Ltd, (2009). Ashton Coal Mine South East Open Cut – Traffic Impact Assessment. Ashton Coal Operations Limited.

Singleton Council (1996). Singleton Local Environmental Plan 1996.

Spectrum Acoustics,(2009). Noise and Vibration Impact Assessment – Ashton South East Open Cut Project, Camberwell, NSW.

State Environmental Planning Policy No. 33 - Hazardous and Offensive Development.

State Environmental Planning Policy No. 44 - Koala Habitat Protection Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DEC, 2005).

Strategic Framework for Mine Closure (ANZMEC/MCA).

Synoptic plan: Integrated Landscapes for Coal Mine Rehabilitation in the Hunter Valley of NSW (DMR, 1999).

URS (2009) Integra Open Cut Environmental Assessment Report.

Worley Parsons (2009). Ashton Coal project – South East Open Cut – Geomorphic Assessment of Glennies Creek. Ashton Coal Operations Limited.

Worley Parsons,(2009). Ashton South East Open Cut Project – Surface Water Assessment. Ashton Coal Operations Limited.



Section 9

South East Open Cut Project
&
Modification to the
Existing ACP Consent

SECTION 9 - ABBREVIATIONS

A

AADT	Average Annual Daily Traffic
ABARE	Australian Bureau of Agricultural and Resource Economics
ABS	Australian Bureau of Statistics
ACARP	Australian Coal Association Research Program
ACOL	Ashton Coal Operations Pty Limited
ACP	Ashton Coal Project
AEMR	Annual Environmental Management Report
AGO	Australian Greenhouse Office
AHD	Australian Height Datum
Al	Aluminium
ANC	Acid Neutralising Capacity
ANFO	Ammonium nitrate fuel oil
ANZECC	Australian and New Zealand Environment and Conservation Council
ARD	Acid Rock Drainage
ARI	Average Recurrence Interval
ARTC	Australian Rail Track Corporation
AS	Australian Standard
As	Arsenic
AUL	Auxiliary Left Turn
AUSRivAS	Australian River Assessment System

B

Bcm Bank cubic metre

C

Ca	Calcium
CCC	Community Consultative Committee
CCSD	Cooperative Research Centre for Coal in Sustainable Development
Cd	Cadmium
CH₄	methane

CHPP	Coal Handling and Preparation Plant
CHR	Channelized Right Turn
cLET	Centre for Low Emission Technology
CMA	Catchment Management Authority
CO₂	carbon dioxide
Co2CRC	Cooperation Research Centre for Greenhouse Gas Technologies
CPP	Coal Preparation Plant
Cr	Chromium
CSIRO	Commonwealth Scientific and Industrial Research Organisation
Cu	Copper

D

DA	Development Application
dB	decibel
dBA	A weighted decibel
dB L	Linear decibel
DCC	Department of Climate Change
DECC	Department of Environment and Climate Change (now DECCW)
DECCW	Department of Environment, Climate Change and Water
DEWHA	Department of Environment Heritage & Arts (Commonwealth)
DGRs	Director General's Requirements
DII	Department of Industry and Investment
DITR	Department of Infrastructure Tourism and Resources
DMR	Department of Mineral Resources
DO	Dissolved Oxygen
DoP	Department of Planning
DPI	Department of Primary Industries (now DII)
DSC	Dam Safety Committee

DWE Department of Water and Energy (now within DECCW and DII)

E

EA Environmental Assessment

EAR Environmental Assessment Requirements

EAT Emmerson Aggregate Test

EC Electrical Conductivity

EEC Endangered Ecological Communities

EL Exploration Licence

EMP Environmental Management Plan

EMS Environmental Management Strategy

ENCM Environmental Noise Control Manual (EPA, 1994)

ENM Environmental Noise Model

EP Endangered Population

EP&A Act 1979 *Environmental Planning and Assessment Act 1979* (NSW)

EP&A Regs,2000 *Environmental Planning and Assessment Regulation 2000* (NSW)

EPA Environment Protection Authority of NSW

EPBC Act *Environment Protection and Biodiversity Conservation Act 1999* (Commonwealth)

EPL Environment Protection Licence

ESD Ecologically Sustainable Development

EST Eastern Standard Time

F

Fe Iron

FM Act *Fisheries Management Act 1994*

FRL Felix Resources Limited

G

g/m²/month grams per square metre per month

GDE Groundwater Dependant Ecosystems

GJ gigajoules

GWMP Groundwater Management Plan

H

ha hectares

HCR CMA Hunter Central Rivers Catchment Management Authority

Hg mercury

HRSTS Hunter River Salinity Trading Scheme

HVAS high volume air sampler

HVCCLT Hunter Valley Coal Chain Logistics Team

HVRF Hunter Valley Research Foundation

HVS high volume sampler

I

IEA International Energy Agency

INP Industrial Noise Policy

IPCC Intergovernmental Panel on Climate Change

J

JCB Joint Coal Board

K

kcal kilocalories

kg kilograms

kL kilolitres

km kilometres

kph kilometres per hour

kV kilovolt

kV Kilovolt (1000 volts)

L

LEP Local Environmental Plan

LGA Local Government Area

LoS Level of Service

LRMP Landscape Revegetation Management Plan

M

m metres

m/s metres per second

Mbcm Million bank cubic metres

MCA Minerals Council of Australia

Mg magnesium

MIC Maximum Instantaneous Charge

MJ megajoules

ML megalitres

µg/m³ micrograms per cubic metre

mL millilitres

ML Mining Lease
MLA Mining Lease Application
mm millimetres
Mn Manganese
MOP Mining Operation Plan
MR Main Road
MRT Mine Response Team
MSB Mine Subsidence Board
MSDS Material Safety Data Sheets
Mt million tonnes
Mtpa million tonnes per annum
MUSIC Model for Urban Stormwater Improvement
MVKT Million Vehicle Kilometres Travelled
MWh megawatt hours

N

N₂O Nitrous Oxide
Na Sodium
NAF Non-acid forming
NAG Net Acid Generation
NAPP Net Acid Producing Potential
NEOC North East Open Cut
NEPM National Environment Protection Measures
NGGI National Greenhouse Gas Inventory
NGRS National Greenhouse Response Strategy
NGS National Greenhouse Strategy
NPWS National Parks and Wildlife Service
NSW New South Wales
NTU Nephelometric Turbidity Unit

O

OC Open Cut

P

PAD Potential Archaeological Deposit
PAF Potentially acid forming
PAF-LC Potentially acid forming low capacity
Pb Lead
PDP Project Development Plan
PFM Planning Focus Meeting
PHA Preliminary Hazard Analysis

PM₁₀ particulate matter with a diameter less than 10 micrometres
POEO Act *Protection of the Environment Operations Act 1997 (NSW)*
poly pipe polyethylene pipe lines
ppm parts per million

Q

QEMR Quarterly Environmental Management Report

R

RASS Radio Acoustic Sensor System
RBL Rating Background Level
RCE Riparian Channel Environment
RH Relative Humidity
RL Relative Level
ROM run-of-mine
RTA Roads and Traffic Authority
RTNP Environmental Criteria for Road Traffic Noise (EPA 1999)

S

S Sulphur
Se Selenium
SEDA NSW Sustainable Energy Development Authority
SEOC South East Open Cut
SEPP State Environmental Planning Policy
SIGNAL Stream Invertebrate Grade Number Average Level
SISD Safe Intersection Site Distance
SLEP Singleton Local Environmental Plan 1996
SKM Sinclair Knight Merz
SMP Subsidence Management Plan
SOC Statement of Commitments
SODAR Sonic Detection and Ranging System
SO₄ Sulfate
SWMP Site Water Management Plan

T

t tonne
TAPM The Air Pollution Model

TDS Total Dissolved Solids

TEOM Tapered Element Oscillating
Microbalances

tph tonnes per hour

TSC Act *Threatened Species Conservation Act* 1995 (NSW)

TSP total suspended particulate matter,
usually in the size range of zero to 50
micrometres

TSR Travelling Stock Reserve

TSS Total Suspended Solids

U

UCC Ultra Clean Coal

UG Underground

UNFCCC United Nations Framework
Convention of Climate Change

V

VCA voluntary conservation area

VPA Voluntary Planning Agreement

W

WES Wells Environmental Services

WML White Mining Limited

Y

yr Year

Z

Zn Zinc