



MOP AMENDMENT

CANYON OPEN CUT COAL MINE WESTERN EXTENSION

APPLICATION DATE: August 2008

ENVIRONMENTAL MANAGER: *Danny Young*
Ph:67497700

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PLANS (After Statutory Declaration)

MOP Plan 4

MOP Plan 5

MOP Plan 6

APPENDIX 1 (After Plans)

Security Deposit Calculation.

Plan of Domain Locations (Security Deposit Calculation)

1.0 TITLE DETAILS

Current title details are as listed in Table 1.0

Table 1.0

<i>Mine Name:</i>	<i>Canyon Open Cut Coal Mine</i>
<i>Company/Operator:</i>	<i>Whitehaven Coal Mining Pty Ltd</i>
<i>Mining Title/Lease:</i>	<i>ML's 1464 and 1471</i>
<i>MOP Term:</i>	<i>1st March 2006 – 30th June 2008</i>
<i>Statutory Declaration Included:</i>	<i>Yes</i>
<i>Existing Security:</i>	<i>\$5,555,763.26</i>
<i>Date of Calculation for Security Deposit:</i>	<i>June 2006</i>
<i>Calculated Security for amendment:</i>	<i>\$2,757,798.04</i>
<i>Identification of accompanying MOP plans</i>	<i>MOP Plans 4, 5, 6</i>

2.0 MINE CONTACTS

The management personnel responsible for operational and environmental performance at the Whitehaven (Canyon) Coal Mine and their relevant contacts are as follows:

- Mr Paul Hensley – Registered Mine Manager, Contact: 0418680022.
- Mr Casper Dieben – General Manager, Open Cut Operations, Contact 0407 123 958.
- Mr Colin Hulm – Project Manager, Contact 0418 685 110.
- Mr Danny Young – Environmental Manager, Contact 0427 497 710.

3.0 EXISTING CONSENTS

The range of existing consents, consent authorities, licences and leases are as presented in Table 2.0

Table 2.0

Issuing/Responsible Authority	Type of Lease, Licence, Consent	Date of Issue	Expiry
Department of Mineral Resources	Exploration Licence (EL 4699)	1994	20/09/2010
Department of Mineral Resources	Mining Lease 1464	21/12/1999	21/12/2020
Environment Protection Authority	Environment Protection Licence No. 10094	10/02/2000	Nil
Minister for Urban Affairs and Planning	DA 72-03-2000	10/08/2000	31/12/2005
Department of Land and Water Conservation	Water Licence 90BL249901 90BL252067	06/09/2000 12/05/2004	Nil Nil
Department of Mineral Resources	ML1471	07/09/2000	07/09/2021
Minister for Infrastructure and Planning	Modification MOD-8-2-2003-1	03/09/2003	07/09/2015
Minister for Infrastructure and Planning	DA 8-1-2005	30/06/2005	07/09/2015
Department of Mineral Resources	Mining Operations Plan	08/08/2006	30/06/2008
Minister for Planning	DA 8-1-2005 MOD 1	22/08/2007	07/09/2015
Department of Primary Industries	Mining Operations Plan - Modification	19/10/2007	30/06/2008

3.1 Requirement for Development Consent.

The proposed amendment to the MOP did require a modification to Development Consent 8-1-2005 by an extension to the western consent area boundary. This modification has been lodged with the Department of Planning as a Section 96(1A), and is currently awaiting determination. There are no other regulatory requirements associated with the MOP amendment.

4.0 DETAIL OF MOP AMENDMENT

4.1 Justification for MOP Amendment

The MOP amendment is being sought on the basis of accessing additional reserves of coal within the mining lease. Exploration drilling to the west of the current canyon boundary has confirmed an additional 440,000t of coal which can be accessed by extension of the western boundary of the existing pit. Access to this resource will extend the operations of the Canyon mine by a further 18 months which will enable the coordination of the Canyon closure with the commencement of the Rocglen operation further to the east. This will ensure limited impact of the closure of the Canyon operation by relocation of staff and equipment to the new site.

The proposed extension to the Canyon pit is of a minor nature only, and will remain well within the confines of the ML boundary to ensure a barrier of greater than 20m from the active working face to the ML boundary. The existing environmental management controls for the Canyon operation will remain relevant and applicable to the proposed additional area. Rehabilitation actions following extension of the pit will involve an additional minor area for reshaping and infill planting to native vegetation. This will also result in a minor modification to the locality of the final void as initially presented in the conceptual final rehabilitation plan in the current MOP. The locality of the final void is amended as per the modified MOP Plan 6 attached. The area impacted on by the proposal comprises Community 1 type vegetation of cleared cultivated/uncultivated pasture land. The area comprises isolated individual Bimble Box and Pilliga Grey Box trees that will be removed as part of the pit extension. This equates to 12 mature trees for removal, which will be assessed for any fauna habitation prior to felling. Felled trees will be retained for replacement on the final landform. Rehabilitation requirements for this area will include reshaping and development of the final void, as well as infill planting of native vegetation to provide suitable habitat for fauna species in conjunction with corridor connectivity with retained remnant

4.2 Description of MOP amendment

The additional area proposed for working is defined on Plan 4 attached. The plan shows the proposed new pit limit to the west of the current Canyon boundary, as well as a limit of disturbance boundary 30 metres outside the pit high-wall. As identified on the plan, the pit limit will remain well inside the ML boundary. The amendment will result in an additional area of approximately 8 hectares being subject to open-cut mining. This additional area will not result in the pit high-wall being any closer to retained vegetation as occurs with the remainder of the Canyon area. In addition to the area proposed for working in this MOP amendment, it is proposed that the timeframe of the current MOP, be extended to 30th June 2010. This will ensure adequate time for completion of mining activity within the additional area as proposed.

4.3 Area of amendment

The total area of impact as a result of the amendment is approximately 8 hectares.

5.0 SCHEDULE OF IMPLEMENTATION

Due to the small scale of the proposed amendment, the activities associated with the additional area will be undertaken in conjunction with the existing pit development. Blasting and working of the additional blocks in the amendment area will take place as the pit extends west from the forecasted completion of the Canyon area in September 2008. Mining of the additional reserves of coal is expected to be completed by 31st May 2010.

6.0 IMPACT ON STAKEHOLDERS AND INTERNAL OPERATIONS

The proposed activity will not result in any additional impacts on adjoining landholder's or on the internal activity of the mine site. As the additional area is immediately adjacent to the current pit, there will be no requirement to amend existing management plans. The development of the additional area will, however, impact on a groundwater monitoring piezometers P1, P2 and P3, and as a consequence, replacement piezometers will be established to the south, east and west of the extension area. The development of new piezometers will be undertaken in consultation with the Department of Water and Energy. All current activity in relation to noise, blast, and air quality will continue as per the existing environmental management plans. An updated Site Water Management Plan will be prepared to address the modified piezometer locations and to demonstrate sufficient sediment storage capacity in the sediment basin system to accommodate a 90%ile (5 day event) as prescribed by the DECC. The updated plan will be referred to relevant agencies for review prior to formal approval through the Department of Planning.

Internal operations will continue as normal, with the only impact being an extension of the area to be worked, which will be identified in the pit schedule, and worked as part of the western progression of the pit.

7.0 PROVISIONAL PRODUCTION AND WASTE SCHEDULE

An Amended Production and Waste Schedule is presented below in Table 3.0 identifying the additional overburden, ROM coal, strip ratio and soil to be stripped in the amendment area up to end of August 2009.

TABLE 3.0

Overburden Volume ('000 bcm)	Budgetted ROM Coal Production ('000 t)	Average Stripping Ratio	Soil Stripped ('000 m3)
3,200	440	7:27	52

8.0 SUMMARY OF PROPOSED REHABILITATION

Table 4.0 below presents an amended summary of rehabilitation activities associated with the development, including provision for the amendment area subject to this application.

TABLE 4.0

		Area Affected (hectares)		
		Total Area, Start of MOP(Amend)	Total Area, End of MOP	At Mine Closure (anticipated)
A: MINE LEASE AREA				
A1	Mine Lease(s) Area	416.64		
B: DISTURBED AREAS				
B1	Infrastructure area	10.1	10.1	2.0
B2	Active Mining Area (excluding B3-B5 below)	13.9	1.7	Nil
B3	Waste emplacements	20.8	21	Nil
B4	Tailings emplacements	Nil	Nil	Nil
B5	Shaped waste emplacement	8.3	12.5	Nil
ALL DISTURBED AREAS		53.1	45.9	
C: REHABILITATION PROGRESS				
C1	Total Rehabilitated Area:	81.5	138.4	200
	Under Maintenance:	46.4	52.9	Nil
	Complete:	35.1	85.5	Nil
D: REHABILITATION ON SLOPES				
D1	10 to 18 degrees	22.2	26.5	53.5
D2	Greater than 18 degrees	Nil	Nil	Nil
E: SURFACE OF REHABILITATED LAND				
E1	Pasture and Grasses	35.1	41.1	51.9
E2	Native forest/ecosystems	46.4	97.3	148
E3	Plantations and Crops	Nil	Nil	Nil
E4	Other	Nil	Nil	Nil

Note: Rehabilitation complete assumes no maintenance requirement after 3 years establishment
Mine Closure equates to lease relinquishment.

9.0 REVISION OF EXISTING SECURITY DEPOSIT

As a consequence of the proposed amendment to the Mining Operations Plan, a review of the calculated security deposit, determined in June 2006, has been undertaken. The review utilised the DPI-MR Rehabilitation Cost Calculation Tool. As a consequence of the review, taking into consideration completed rehabilitation works, and the proposed additional activity, the calculated security deposit has been determined at \$2,757,798.04. This represents a significant reduction in security based upon the extent of rehabilitation that has been completed to date and the reduced size of active

mining area. Upon approval of the amendment to the Mining Operations Plan, action will be undertaken to amend the existing security deposit to the required amount. The calculation tool results are attached as Appendix 1.

STATUTORY DECLARATION

STATUTORY DECLARATION

New South Wales

STATUTORY DECLARATION

OATHS ACT, 1900

EIGHTH SCHEDULE

I,, of
in the State of New South Wales, solemnly and sincerely declare as follows:

1. I am the duly appointed

.....(*management position*)

for(*mine name*)

2. I am authorised to make this Declaration on behalf of the Lease Holder,

.....(*name of leaseholder*),

A.C.N.....

3. All works and activities described in the Mining Operations Plan to which this declaration is attached comply with the conditions of the title of the mining lease (or mining leases) shown in the Mining Operations Plan, and with the conditions of Development Consent and all other relevant Government Agency approvals and licences granted in respect of them.

4. I confirm that all of the works and activities referred to in the previous paragraph lie wholly within the area shown in the Mining Operations Plan and that the tenements (mining leases, colliery holdings, land ownership) details of those tenements are correct.

And I make this solemn Declaration, conscientiously believing the same to be true and by virtue of the provisions of the *Oaths Act, 1900*.

Subscribed and Declared at

in the State of New South Wales this day of.....in

the year

(sgd)

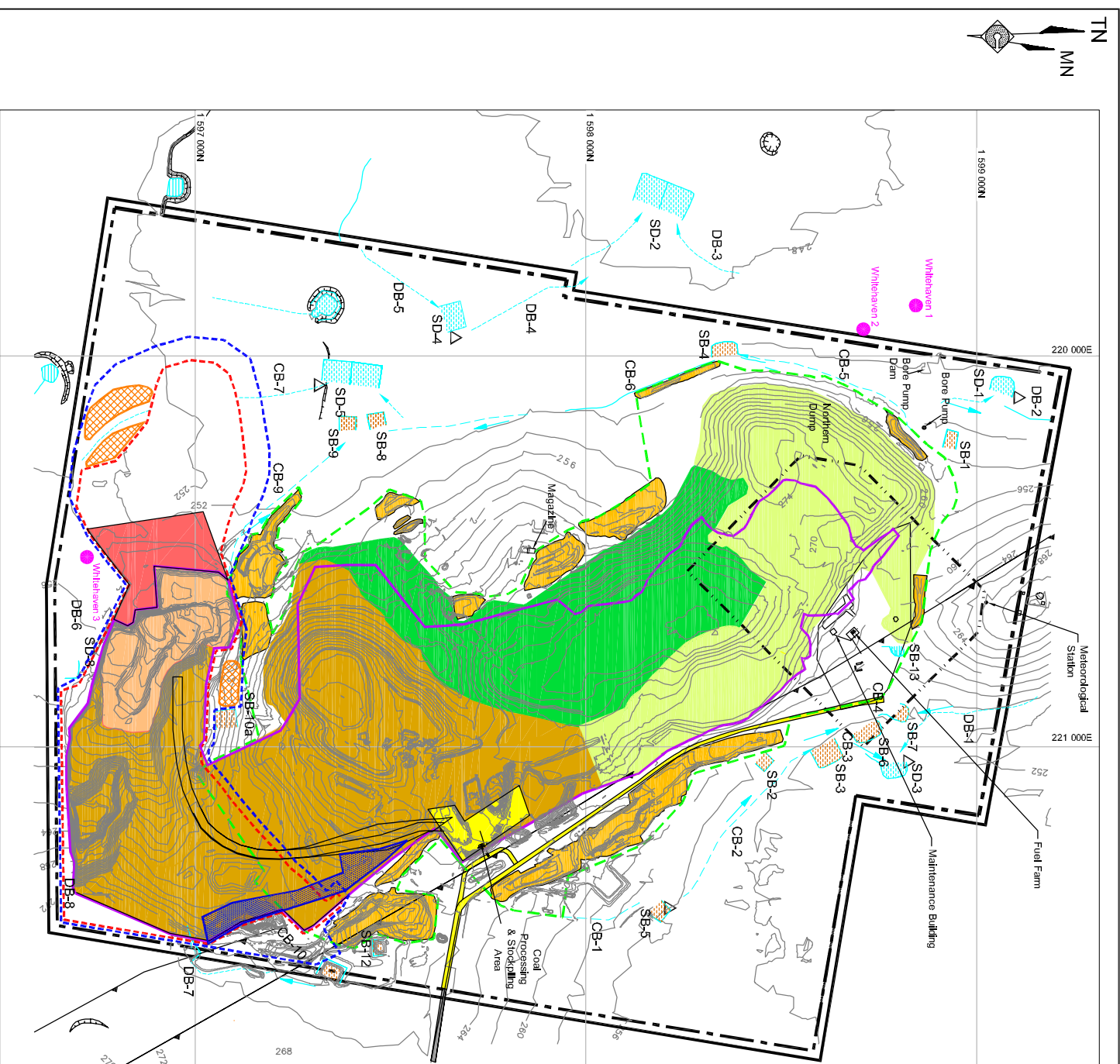
before me (sgd)Justice of the Peace

PLANS

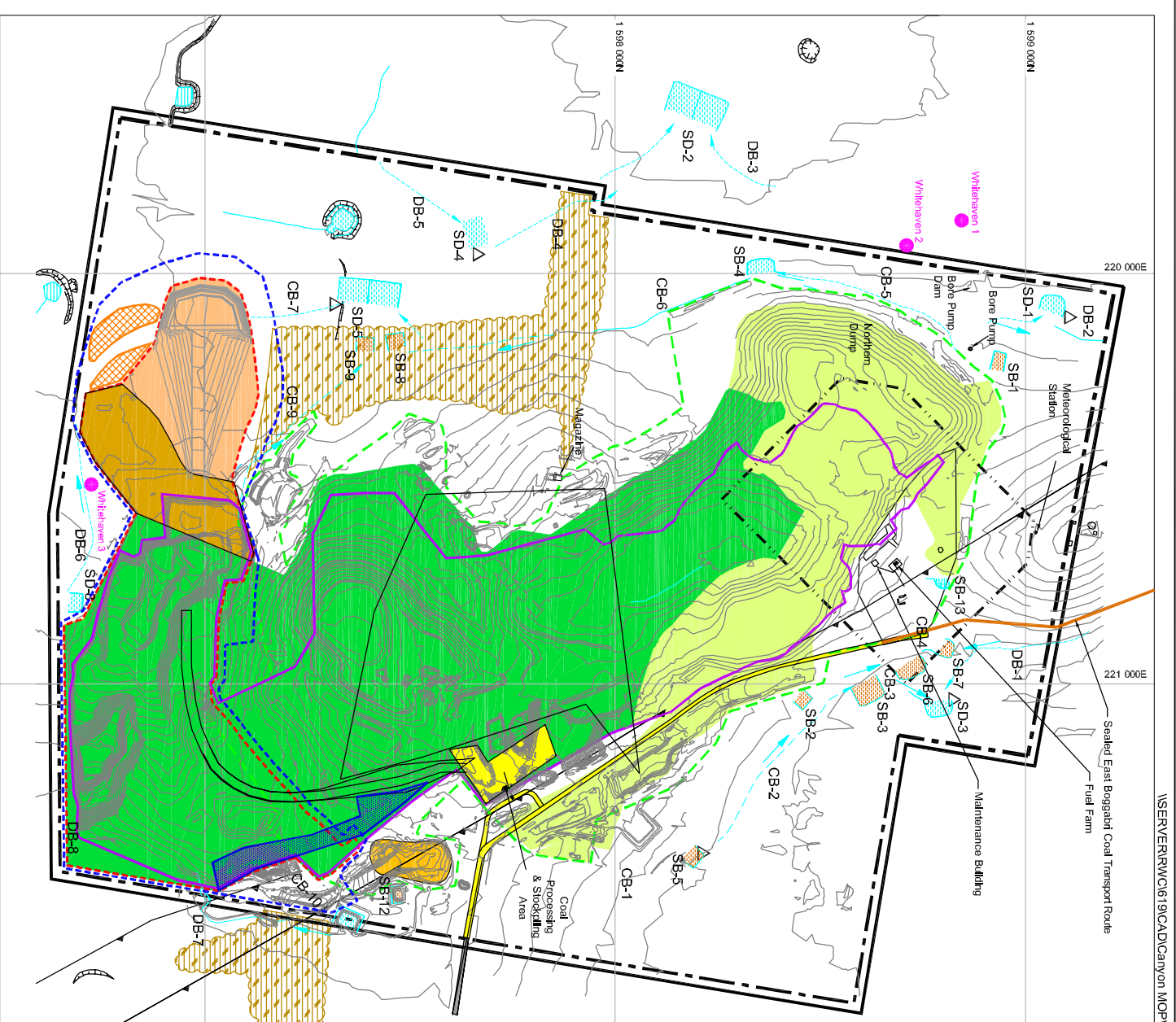
MOP PLAN 4

MOP PLAN 5

MOP PLAN 6



a: Pre-MOP

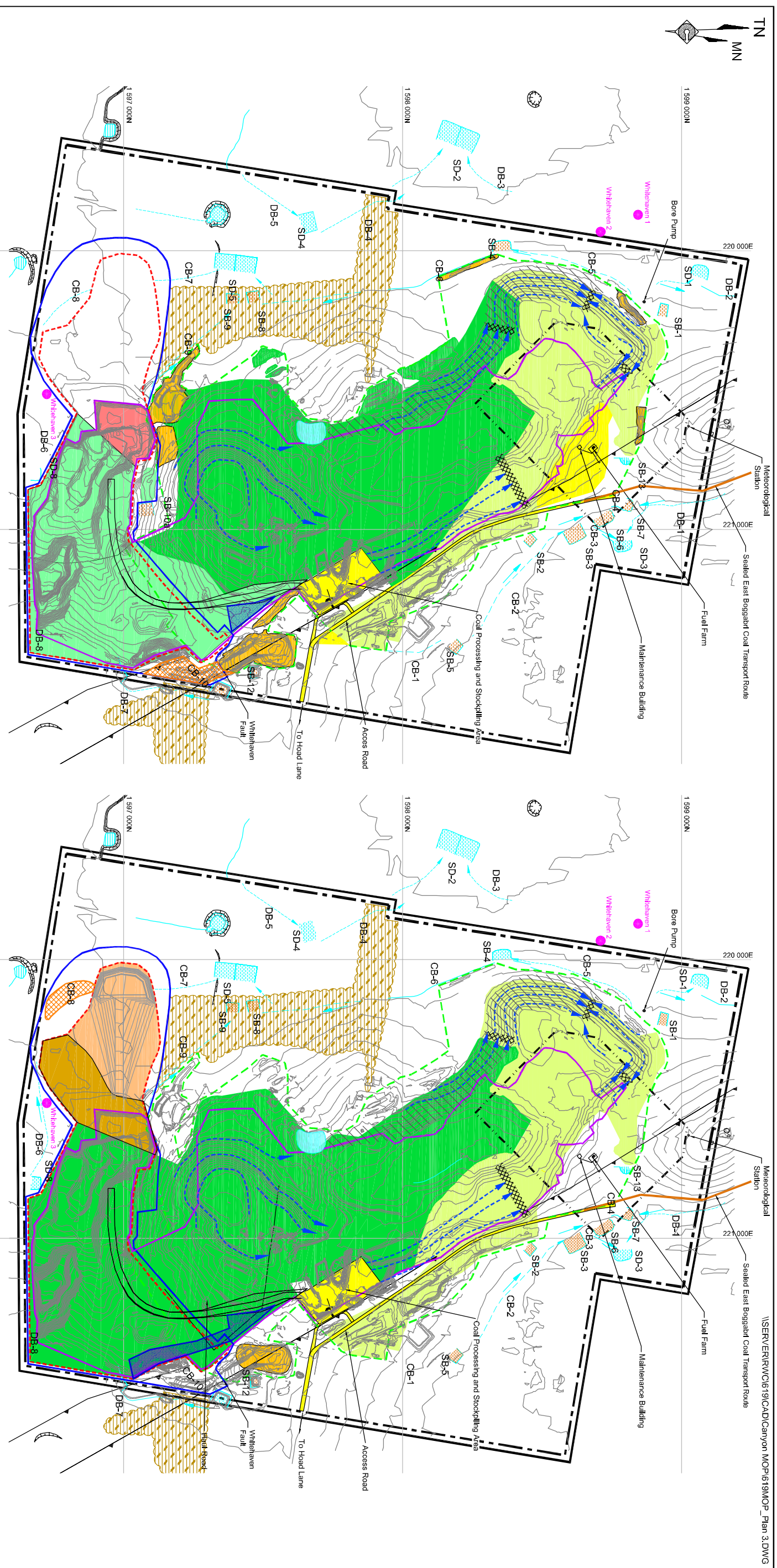


c: End of MOP 2010

REFERENCE

- ML 147/Boundary
 - ML 1464 Boundary
 - Colliery Holding Boundary
 - Limit of Extraction (Start of this MOP)
 - Limit of Surface Disturbance (Start of this MOP)*
 - Proposed Extraction Area (This MOP)
 - Proposed Limit of Disturbance (This MOP)
 - Contour (m, AHD)
 - Fence
 - Fault Line
-
- Existing Farm Water Storage
 - Storage Dam (SD)
 - Sediment Basin (SB) / Watercourse
 - Bank / Drain / Flow Direction (Clean)
 - Bank / Drain / Flow Direction (Dirty)
 - Water Monitoring Site
 - Unshaped Overburden Dump
 - Shaped Overburden Dump
 - Rehabilitated & Under Maintenance - Native Vegetation
 - Rehabilitated & Under Maintenance - Pasture (with tree lots)
 - Topsoil/Subsoil Stockpile Area
 - Proposed Soil / Vegetation Stockpiling Areas (Nominal)
 - Reject Emplacement Area

PROPOSED MINING ACTIVITIES
Plan 4



a - December 2008

REFERENCE

b - End of MOP 2010

SCALE 1:15 000

Date of Application:	
Compiled by:	
Revised by:	
Checked by:	
Certified by: (Mine Surveyor)	
Endorsed by: (Mine Manager)	

- ML 1471 Boundary
- ML 1464 Boundary
- Colliery Holding Boundary
- Limit of Surface Disturbance (Start of this MOP)
- Proposed Limit of Disturbance (This MOP)
- Contour (m, AHD)
- Fault Line
- Existing Farm Water Storage
- Storage Dam
- Sediment Basin
- Rock Lined Waterway
- Bank / Drain / Flow Direction (Clean)
- Bank / Drain / Flow Direction (Dirty)

- Unshaped Overburden Dump
- Shaped Overburden Dump
- Infrastructure (Other than Out-of-Pit Overburden Dumps)
- Topsoil/Subsoil Stockpile Area
- Proposed Soil / Vegetation Stockpiling Areas (Nominal)
- Rehabilitated & Under Maintenance - Native Vegetation
- Rehabilitated & Under Maintenance - Pasture (with / without tree jobs)
- Active Mining Area
- Rehabilitated Slopes (10° - 18°)
- Area of Enrichment Planting

Note: Water Containment / Control Structures on Final Landform to be Designed & Constructed in Accordance with DLWC Advice

Note: No Rehabilitated Slopes >18°

Note: Mining will proceed no closer than 20m from the boundary of ML 1471 without prior approval of the Chief Inspector of Coal Mines

PROPOSED REHABILITATION
Plan 5

