

CONFIDENTIAL

Dartbrook Community Consultative Committee Extraordinary Meeting

Dartbrook Mining Operation Plan
(Care and Maintenance)

Jan 2018 – Dec 2020




AGENDA



DARTBROOK MOP CONSULTATION MEETING AGENDA:

- Introduction (of attendees)
- Purpose of Meeting
- Mining Operations Plan:
 - Background
 - Review Current MOP
 - New MOP Development (for Care and Maintenance):
 - Consultation
 - Post Mining Land Use
 - Rehabilitation Objectives
 - Completion Criteria
- Review of comments/recommendations from meeting
- Next Meeting Date
- Close




This is stage 2 of 3 stages of consultation:

Stage 1 Introduced the need for consultation and the requirement by DRG for Dartbrook to review the MOP. Carried out at the CCC on 13 June 2017.

Stage 2 Is to outline the need for consultation as required by the DRG and Dartbrook's Development Consent and to undertake that consultation. To be held on 7 September 2017.

Stage 3 To further discuss the progress and proposed final outcomes within the MOP which is planned to be submitted to the DRG on 20 October. Meeting is planned for 8 November 2017.



CONSULTATION CONTEXT

DA states:

2.1 (b) *The MOP shall:*

(i) *be prepared in accordance with DMR (now DRG) Guidelines.....*

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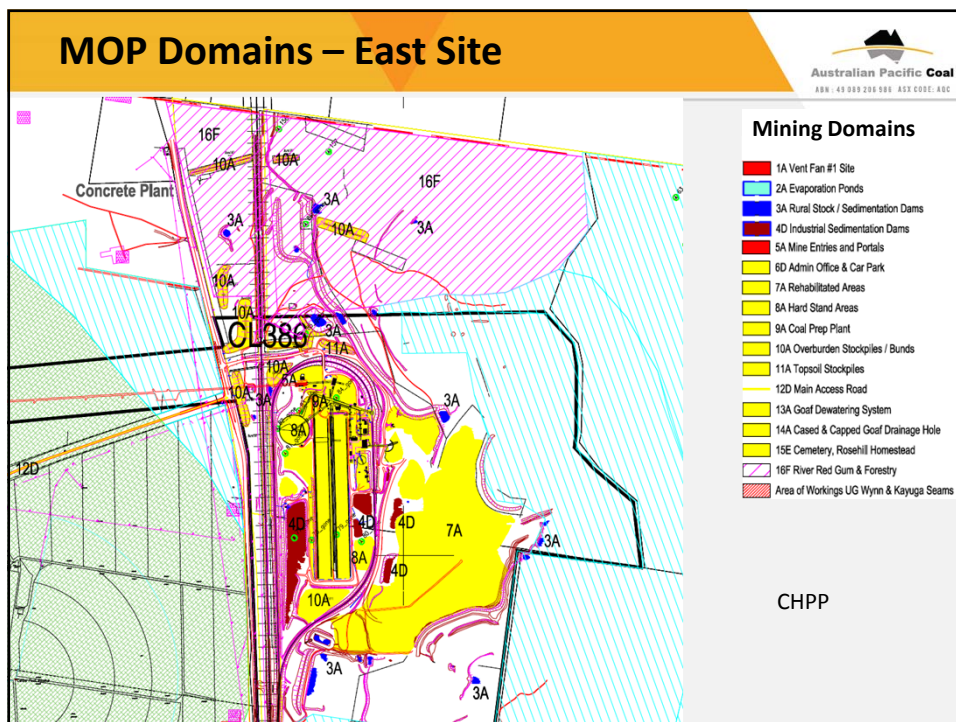
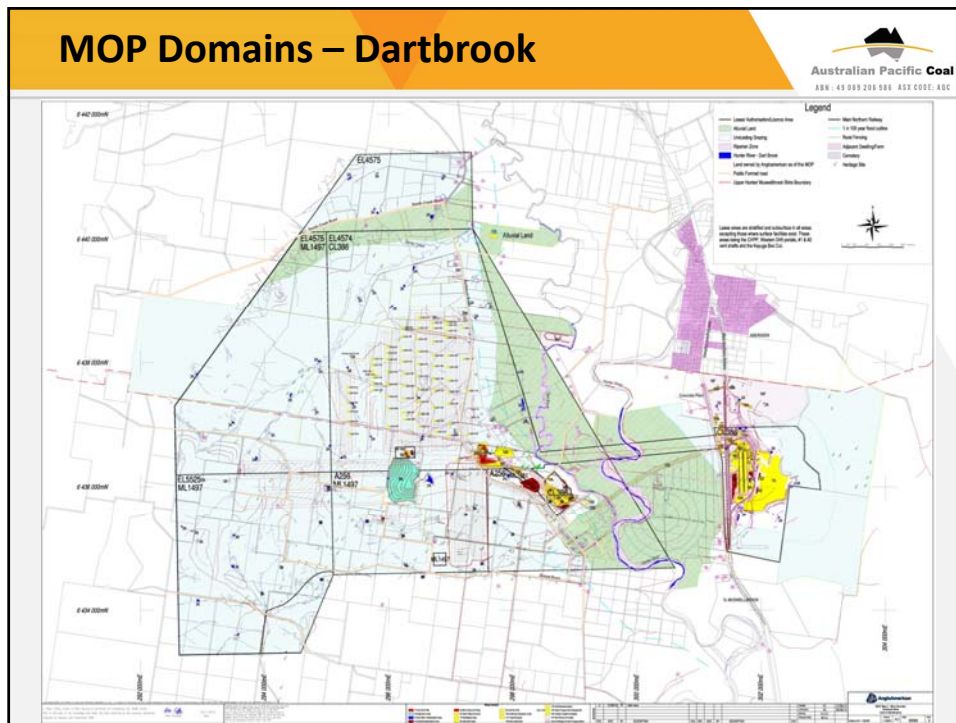
10.1 (i) *The Committee may make comments and recommendations about the implementation of the development and environmental management plans, monitor compliance with conditions of this consent.....*


DRG MOP Guidelines state:

1.4 *Stakeholder Consultation*

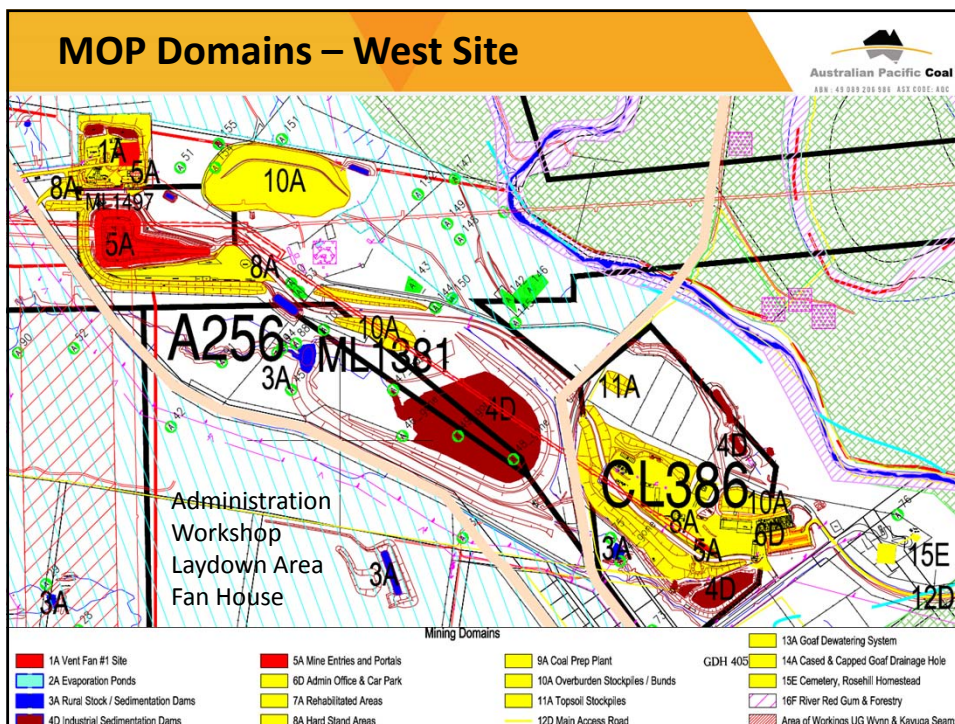
Summarise stakeholder involvement as pertains to the development of the MOP with government agencies, community groups and landholders.

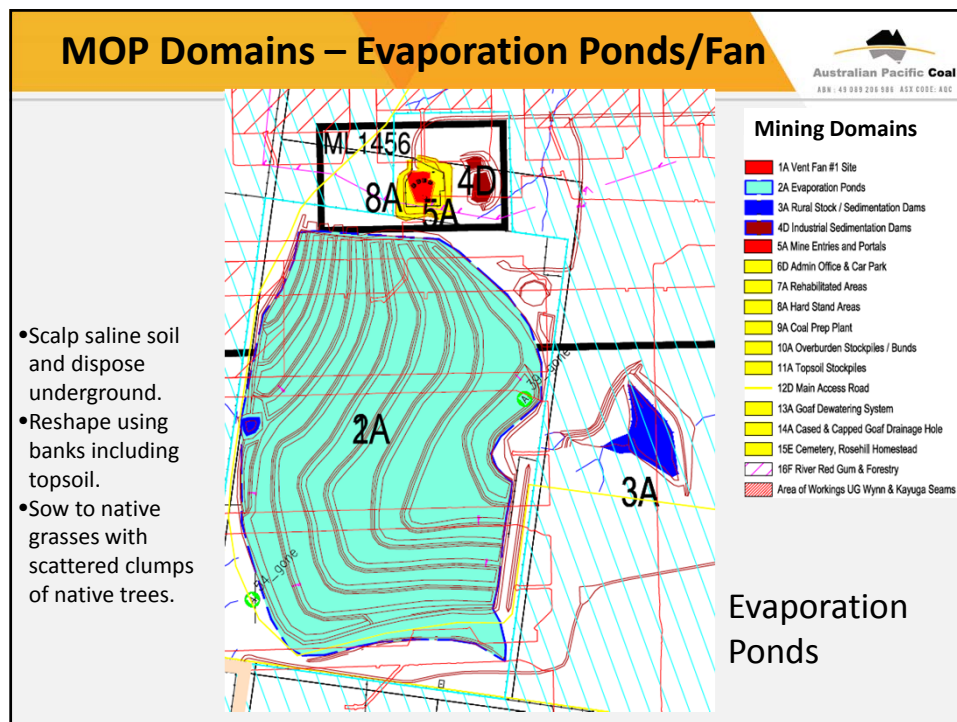
Summarise stakeholder expectations and agreements in relation to post mining landuse, rehabilitation objectives and completion criteria. Include timeframes for meeting these expectations were relevant.





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- Propose to:
 - Decommission and remove all infrastructure
 - Reshape the area to self draining, including sediment control until sufficiently vegetated
 - Import topdressing where required
 - Seed with native tree and grasses
 - Woodland species including *Eucalyptus crebra*, *E. moluccana*, *Corymbia maculata*, *Angophora floribunda*, *Acacia* spp. (e.g. *A. salicina*, *A. falcata*, *A. decora*).
 - Examples of native grasses include Wallaby Grass, Kangaroo Grass, *Bothriochloa* spp., *Dicanthium* sp. and *Stipa* sp.
 - Riparian Species (as required) including *Casuarina cunninghamiana*, *Allocasuarina luehmannii*, *Eucalyptus blakelyi*, *Eucalyptus camaldulensis*






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- Secure fencing (no grazing for 5yrs)
 - Feral animal, weed and fire hazard management
 - Monitor for up to 3 to 5 years
 - TARPS developed for threats to rehabilitation success
 - Acceptance of lease relinquishment
 - Divestment strategy

Trigger Action Response Plan (TARP)					
Aspect	Key Element	Trigger Response	Normal	Level 1	Level 2
Landform Establishment	Slope	Trigger	REA Stage 4/bunds: <14°, other areas: <10°	Rehabilitated slopes >10° but <14°	Rehabilitated slopes >14%
		Response	No action required	Regrade the area to achieve desired slope.	Review landform design and Regrade the area to achieve desired slope.
	Erosion & Sediment Control	Trigger	No evidence of tunnel or gully erosion	Minor rilling, gully or tunnel erosion (<300mm depth)	Significant rilling, gully or tunnel erosion (>300mm depth)
		Response	No response. Monitor as required.	Monitor erosion. May require remediation. E.g. minor earthworks	Inspection by appropriately qualified person and recommended actions. May involve more complex earthworks and drainage design, & re-establishment of suitable groundcover. Ongoing monitoring until stable/groundcover established.
	Drainage	Trigger	2% slope, stable and comparable drainage systems	Minor issues with drainage that do not impact on rehabilitation	Significant drainage system failure impacting on rehabilitation success
		Response	No response. Monitor as required.	Site inspection, investigation and remedial action.	Drainage system review, investigation & recommendations. Implementation as soon as practicable.

Trigger Action Response Plan (TARP)					
Aspect	Key Element	Trigger Response	Normal	Level 1	Level 2
Vegetation Establishment	Groundcover	Trigger	70% groundcover established	<70% but >50% groundcover established	<50% groundcover established
		Response	No response. Monitor as required.	Investigate cause. Implement recommended remedial actions (e.g. minor preparation and re-seeding).	Investigate cause. May need to further investigate growth medium parameters and species selection/timing of seeding. Implement recommended remedial actions.
	Species Composition	Trigger	Species composition of 2yr old rehab is within 20% of analogue sites	Species composition of 5yr old rehab is within 20%-30% of analogue sites	Species composition of 5yr old rehab >30% of analogue sites
		Response	No response. Monitor as required.	Confirm extent via field inspection & survey if required. Investigate cause. Re-seed areas or plant tube stock as required. Monitor remedial work.	Complete field survey & investigate cause. May require further advice from a consultant or soil testing. Re-seed areas, plant tube stock and/or other treatment as required. Monitor remedial work.
	Presence of weeds/ non-target spp.	Trigger	No significant weed infestations within 2 years.	10% to 25% cover of undesirable species within 2 years.	> 25% cover of undesirable species within 2 years.
		Response	No response. Monitor & maintain as required.	Implement weed management controls (via weed contractor and/or introducing competition with desirable species if required)	Engage weed management contractor to remove undesirable species. Consider methodology to increase competition from desirable species (such as fertiliser, re-seeding etc.)



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- Questions?