



MGO Aboriginal Cultural Heritage Management Plan

DPHI Approval Date: 20/12/2024

Table of Contents

1.	Commitment and Policy	6
1.1	Background	6
1.2	Objectives of the ACHMP	11
1.3	Requirements of the ACHMP	11
1.3.1	Statutory Requirements	11
1.3.2	GCAA Requirements	21
1.4	Consultation	21
1.4.1	Consultation with Internal (MGO) Stakeholders.....	22
1.4.2	Consultation with External Stakeholders	22
1.4.2.1	Aboriginal Cultural Heritage Working Group.....	22
1.4.2.2	Access to Aboriginal sites and stored Aboriginal objects	23
1.5	Dispute Resolution Process.....	23
2.	Aboriginal Cultural Heritage Sites	25
2.1	Sites within Approved Disturbance Area	25
2.2	Socio-Cultural Values	25
2.2.1	Value of Aboriginal sites.....	25
2.3	Previous Archaeological Investigations.....	25
2.4	Known Aboriginal Sites Remaining in Place	26
2.5	Cultural Values Assessment	26
3.	Management Strategy and Plan.....	29
3.1	Aboriginal Heritage Impacts.....	29
3.2	Impact and Non-Impact Areas within the ACHMP Area	29
3.2.1	Management Areas	31
3.2.1.1	Yorks Creek Voluntary Conservation Agreement Area.....	31
3.2.1.2	Yorks Creek Catchment Enhancement Project	31
3.2.1.3	Bettys Creek Habitat Management Area	32
3.2.1.4	Biodiversity Offset Areas	32
3.2.1.5	Bowmans Creek and Swamp Creek Landscape	33
3.3	Management of Sites Outside Impact Areas	34
3.4	Protection Measures for Cultural Heritage Sites	34
3.4.1	General Controls	34
3.4.2	Monitoring of Aboriginal Sites in Non-Impact Areas	34
3.4.3	Verification of Aboriginal Sites in Non-Impact Areas.....	35
3.4.4	Landform and Revegetation Involvement	35
4.	Operational and Training Protocols.....	36
4.1	Obligation to Protect Aboriginal Cultural Heritage	36
4.1.1	Obligation to Avoid Harm.....	36

4.1.2	Obligation to Protect.....	36
4.1.3	Obligation to Implement Management Measures for Aboriginal Heritage Impacts.....	36
4.1.3.1	Aboriginal Heritage Induction and Permitting Process	37
5.	Aboriginal Heritage Protection.....	38
5.1	Measures to Protect Aboriginal Sites.....	38
5.2	Fencing	38
5.2.1	Fencing of Sites within Management Areas.....	38
5.2.1.1	Yorks Creek VCA.....	38
5.2.1.2	Biodiversity Offset Areas and the Bettys Creek HMA.....	38
5.2.1.3	Bowmans Creek and Swamp Creek Landscape	38
5.2.2	Fencing of Sites outside of Management Areas.....	38
5.2.2.1	Swamp Creek Sites.....	39
5.2.2.2	MOCO MOD 6 Assessment Boundary Demarcation.....	39
5.2.2.3	MOCO MOD 7 Assessment Boundary Demarcation.....	39
5.3	Land Management within Management Areas	39
5.3.1	Erosion Control.....	39
5.3.2	Bushfire Hazard Reduction.....	40
5.3.3	Exclusion of Stock.....	40
5.3.4	Weed Control	40
5.3.5	Land Management in the York's Creek Catchment Enhancement Project.....	40
5.3.6	Land Management in the York's Creek VCA.....	40
5.3.7	Wollombi Brook teaching and keeping place.....	41
5.3.7.1	Historical Information.....	41
5.3.7.2	Interim Storage Strategy.....	41
5.3.7.3	Wollombi Brook Plan of Management Consultation Procedure	41
5.4	Site Monitoring	41
5.4.1	Photographic Monitoring.....	42
5.4.2	Site Condition Monitoring.....	42
6.	Detailed Procedures	43
6.1	Discovery of Aboriginal Ancestral Remains.....	43
6.2	Discovery of Unrecorded Aboriginal Sites	43
6.2.1	Newly Recorded Sites within Impact Areas	43
6.2.1.1	Group 1: Surface Artefact Collection	44
6.2.1.2	Group 2: Limited Salvage Excavation.....	45
6.2.2	Newly Recorded Sites Outside of Impact Areas.....	45
6.3	Managing Impact to Sites Outside of Impact Areas.....	46
6.3.1	AHIMS Site #37-3-0687	46
6.3.2	Archaeologically Sensitive Areas.....	46
6.4	Managing Impact to Sites Inside of Impact Areas.....	46
6.5	Incident Controls.....	47

6.5.1	Stakeholder Notification	47
6.5.2	Incident Review	47
6.5.3	Incident Records and Reporting	47
6.5.4	Cultural Heritage Risk	48
7.	Record Keeping and Reporting Requirements	48
7.1	Project Records	48
7.2	Statutory Reporting Requirements	48
7.2.1.1	Discovery of Aboriginal Objects	48
7.2.1.2	Care Agreement Application	48
7.2.1.3	Reporting Impact to Aboriginal Sites	49
7.2.1.4	Reporting of ACHMP Non-compliance Incident	49
8.	Review and Improvement	50
8.1	Plan Review	50
9.	Completed MGO ACHMP Commitments	51
10.	Accountabilities	58
11.	Definitions	59
12.	Document Information	62
12.1	Relevant Legislation	62
12.2	Related Documents	62
12.3	Reference Information	62
12.4	Change Information	65
Appendix A - Endorsement of Appointment of Consultant		68
Appendix B - External Consultation Records		69
B.1	Email to all RAPs 16th April 2018	69
B.2	Email to all RAPs 20TH April 2018	69
B.3	Response from Wonaruah Local Aboriginal Land Council 23rd April 2018	70
B.4	Minutes from the MGO ACHWG meeting 26th April 2018	72
B.5	ACHMP sit down with Tocomwall Pty Ltd 9th May 2018	72
B.6	Approval email from Planning Development & Environment Department	73
B.7	Email to RAPs 12th November 2019	73
B.8	Response from Wonnarua Nation Aboriginal Corporation 20th November 2019	74
B.9	Email to all RAPs 29th July 2021	74
B.10	Response from Didge Ngunawal Clan 2 nd August 2021	75
B.11	Email to all RAPs 24 th August 2021	75
B.12	Response from Wonnarua Nation Aboriginal Corporation 24 th August 2021	75
B.13	Response from Aboriginal Heritage Regulation Branch – North, Heritage NSW 23 rd September 2021	76
Appendix C - Aboriginal Cultural Heritage Management Plan Approval		78

Appendix D - Mount Owen Glendell Operations Aboriginal Cultural Heritage Working Group.....	79
Appendix E - Yorks Creek Plan of Management	80
E.1 Acknowledgement	80
E.2 Purpose	80
E.3 Scope	84
E.4 Background to the Yorks Creek PoM	84
E.5 Heritage Values at YCCEP	84
E.5.1 Aboriginal Cultural Values	84
E.6 Aboriginal Scientific Values	85
E.7 Historic Scientific Values	90
E.8 Management of the YCCEP area	90
E.9 Permitted Developments within the YCCEP Area	95
E.10 Implementation	95
E.11 Measurement and Evaluation	95
E.12 Review and Improvement	96
E.13 Accountabilities	96
E.14 Document Information	96
E.14.1 Terms and Abbreviations	96
E.15 Reference Information	97
E.16 Change Information	97
Appendix F - Known Aboriginal Sites Remaining in Place	98

1. Commitment and Policy

1.1 Background

This Aboriginal Cultural Heritage Management Plan (ACHMP, the Plan) is one of a series of Environmental Management Plans that together form the Environmental Management Strategy (EMS) for the Mt Owen Glendell Operations (MGO).

MGO is located within New South Wales (NSW), approximately 20 kilometres north-west of Singleton. Mount Owen Pty Limited (Mt Owen), a subsidiary of Glencore Coal Pty Limited currently owns the three open cut operations in MGO, including:

- a) Mount Owen (North Pit), approved under Development Consent SSD-5850;
- b) Ravensworth East (Bayswater North Pit), approved under Development Consent SSD-5850; and
- c) Glendell Mine (Barrett Pit) approved under Development Consent DA 80/952.

Mount Owen Mine and Ravensworth East Mine collectively comprise the Mount Owen Continued Operations (MOCO). Mining operations at MGO include the integrated use of the Mount Owen coal handling and preparation plant (CHPP), coal stockpiles and rail load-out facility.

This Plan documents procedures and management of Aboriginal cultural heritage values for MGO, incorporating MOCO SSD-5850 and Glendell DA 80/952, as modified. Collectively these will be referred to as the ACHMP Area.

Eight modifications have been approved to SSD-5850, including:

- Modification 1 (MOCO MOD 1), to facilitate the construction of a water pipeline to convey mine water from Integra Underground Mine to MGO (Hansen Bailey 2017), which was granted on 15 September 2017;
- Modification 2 (MOCO MOD 2), to maximise reserve recovery within the Glencore mining tenements, whilst minimising the overall project disturbance area (Umwelt 2018a). MOCO MOD 2 was approved by the NSW Department of Planning and Environment (DP&E) on 4 September 2019;
- Modification 3 (MOCO MOD 3), an administrative modification was approved by the Department of Planning, Industry and Environment (DPIE) on 30 January 2020. There were no changes to statutory conditions associated with MOCO MOD 3;
- Modification 5 (MOCO MOD 5), as approved by DPIE on 15 January 2021 to amend the MGO Biodiversity Offset Strategy (Umwelt 2020a);
- Modification 6 (MOCO MOD 6), as approved by DPIE on 3 June 2021. MOCO MOD 6 allows the construction and operation of an additional pipeline between MGO and Ravensworth Operations to transfer water under the already approved Greater Ravensworth Area Water and Tailings Scheme (GRAWTS) (Umwelt 2020b);
- Modification 7 (MOCO MOD 7), as approved by DPE on 15 May 2023. MOCO MOD 7 allows for operational efficiencies between Liddell Coal Operations and MGO by facilitating more efficient water and tailings transfers. This would enable additional tailings emplacement within the South Cut Void at Liddell Coal Operations to minimise the overall size and depth of the final void, as well as minimise the need to establish additional tailings emplacement areas at Mount Owen and Ravensworth Operations.

- Modification 9 (MOCO MOD 9) was approved by DPHI on 21 August 2024 to make changes to minor errors within the consent and correct miscalculations in the offset areas in Table 9 of SSD-5850.
- Modification 10 (MOCO MOD 10) approved by DHI on 09/09/2025 and involves the ability to transfer water to Integra, alongside the construction and utilization of ancillary water pipelines, communications, and services necessary for the purpose of pumping water to Integra Underground. This initiative aims to ensure a reliable water supply for operational needs while maintaining effective communication and service infrastructure throughout the process.

DA 80/952 has been modified on four occasions, of which the following remain applicable:

- Glendell MOD2 was approved on 25 February 2008 and increased the production rate to 4.5 Mtpa of ROM coal and extended the period of mining until 30 June 2024;
- Glendell MOD3 was approved on 1 December 2016 and facilitated the realignment of a powerline;
- Glendell MOD4 was approved by DPIE on 4 March 2020 for Glendell Mine. The modification allows for a minor extension of the approved pit shell in order to access an additional 2.0 million tonnes run of mine (Mt ROM) coal from the Barrett Pit under the existing approval Umwelt, 2018b); and
- Glendell MOD5 was approved on 1 July 2024 and permits the carrying out of mining operations until the 30 June 2026 to enable recovery of the remaining coal reserves approved for mining in MOD4.

This ACHMP has been updated in 2025 to incorporate the requirements of MGO MOCO SSD-5850 MOD10 and supersedes the previous version of the Plan.

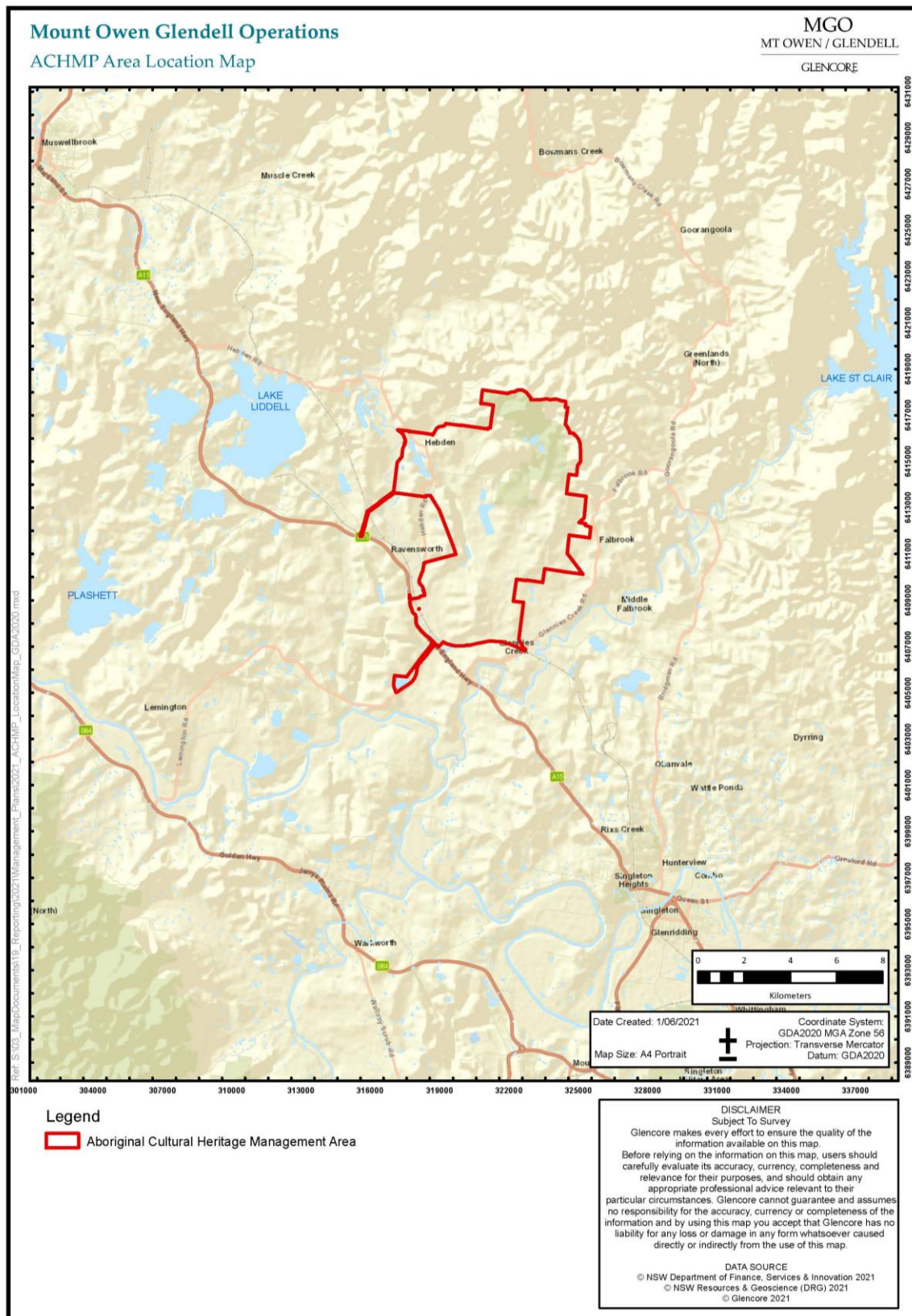


Figure 1-1– ACHMP Area Location Map

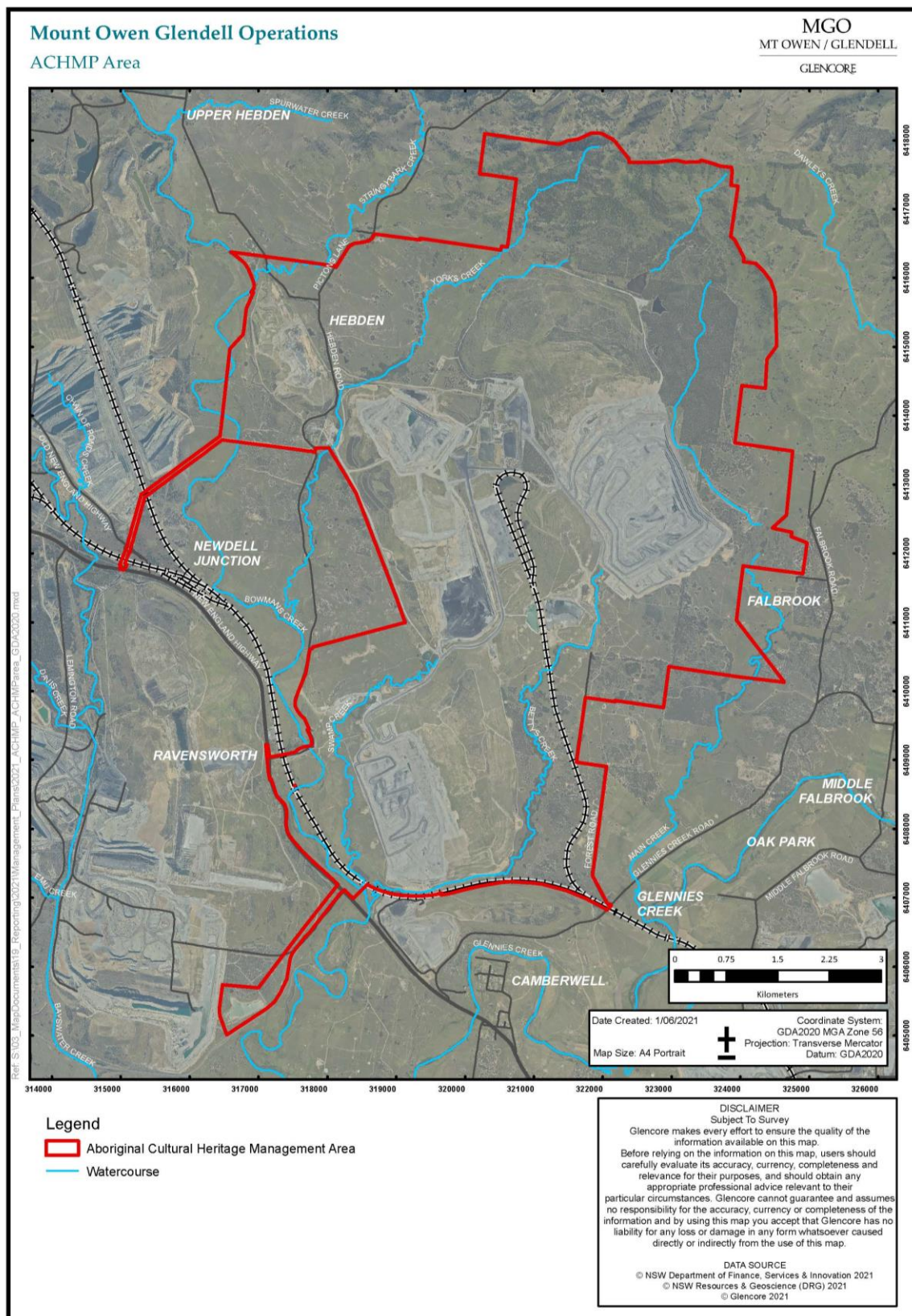


Figure 1-2 – ACHMP Area

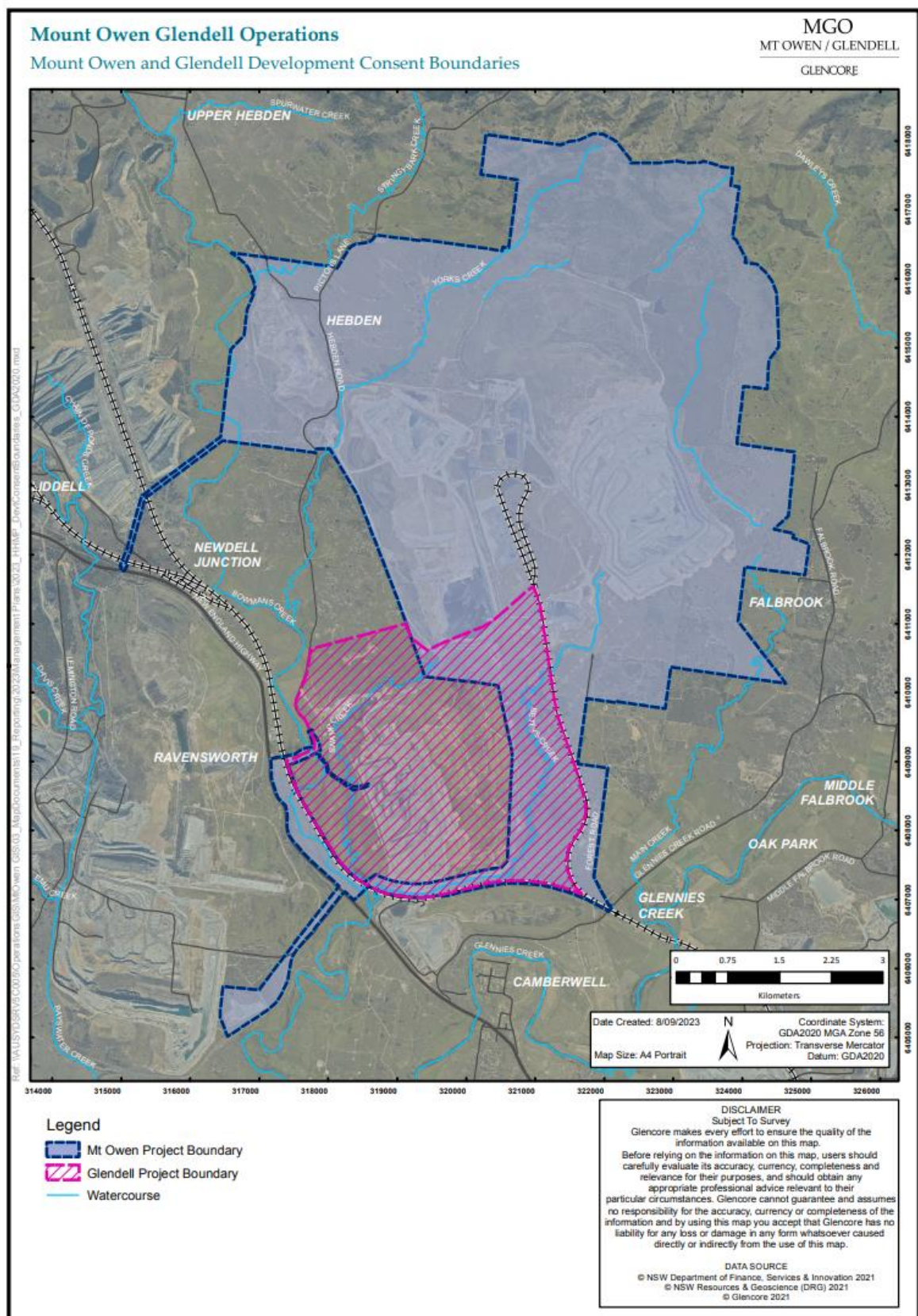


Figure 1-3 – Mount Owen and Glendell Development Consent Boundaries

1.2 Objectives of the ACHMP

This Plan has been developed to satisfy consent requirements under development approvals SSD-5850 and DA 80/952, and to ensure that Aboriginal cultural heritage within MGO is managed in accordance with all relevant legislation and in consultation with relevant Aboriginal parties.

The objectives of this Plan are to set out controls and protocols to prevent unapproved impact to any identified and/or unidentified Aboriginal cultural heritage sites and values on land occupied by MGO.

This Plan:

- a) Details the management procedures for Aboriginal heritage within MGO;
- b) Details reporting requirements;
- c) Presents a detailed process for ongoing Aboriginal consultation;
- d) Outlines the obligations of project personnel to protect Aboriginal sites not subject to approved harm;
- e) Describes the roles and responsibilities of MGO staff in managing Aboriginal heritage sites before and after salvage works; and
- f) Provides for continuous improvement through auditing and Plan modification.

The manner in which this Plan addresses the statutory requirements of SSD 5850 and DA 80/952 are detailed in **Section 1.3.1**.

1.3 Requirements of the ACHMP

1.3.1 Statutory Requirements

Both the Mt Owen (SSD-5850) and the Glendell Mine (DA 80/952) development approvals stipulate requirements related to this Plan. These are summarised in **Table 1-1**.

Table 1-1 – Relevant Development Consent Conditions

Mount Owen Continued Operations (SSD 5850, Schedule 3)	Glendell Mine (DA 80/952, Schedule 3)	Condition	Relevant Section of Plan
30A		Water Pipeline Infrastructure During construction of the water pipeline infrastructure, the Applicant must implement the mitigation and management measures specified in SEE (Mod 6) (including the measures to avoid and minimise impacts to items of Aboriginal and historic heritage).	Section 3.3 and Section 5.2.2
33		Protection of Aboriginal Heritage Items	Section 5

Mount Owen Continued Operations (SSD 5850, Schedule 3)	Glendell Mine (DA 80/952, Schedule 3)	Condition	Relevant Section of Plan
		Unless otherwise authorised under the NP&W Act ¹ , the Applicant must ensure that the development does not cause any direct or indirect impact on identified Aboriginal heritage items located outside the approved disturbance of the development.	
34		Aboriginal Heritage Management Plan The Applicant must prepare an Aboriginal Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:	
34 (a)		be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary;	Appendix A (this endorsement is for the initial version of this Plan). This Plan has since been reviewed and updated, where required. This version was reviewed and endorsed by Ben Churcher of OzArk Environment & Heritage.
34 (b)		be prepared in consultation with Heritage NSW ² , RAPs ³ and relevant landowners, and be submitted to the Secretary for approval prior to commencement of development under this consent, unless the Secretary agrees otherwise;	Section 1.4 and Appendix B (all heritage items to be managed by this Plan are located on land owned by Glencore Coal Assets Australia Pty Limited. As such, additional landholder consultation was not required)
34 (c)		include the following for the management of Aboriginal heritage: an Aboriginal cultural heritage education program, to be developed in consultation with relevant RAPs, and used for the induction of all personnel and contractors involved in construction or surface disturbance activities under this consent;	Section 4
34 (c)		details regarding the establishment and role of the Aboriginal Cultural Heritage Working Group in monitoring and managing cultural heritage;	Section 1.4.2.1 and Appendix D
34 (c)		details regarding the management of the Yorks Creek Voluntary Conservation Area and Aboriginal heritage sites	Section 3 and Appendix E

¹ National Parks and Wildlife Act 1974 (NPW Act).

² The heritage compliance functions of the Biodiversity and Conservation Division (BCD) were transferred to Heritage NSW (HNSW) in 2020.

³ Registered Aboriginal Parties (RAPs)

Mount Owen Continued Operations (SSD 5850, Schedule 3)	Glendell Mine (DA 80/952, Schedule 3)	Condition	Relevant Section of Plan
		within the Mount Owen Complex ⁴ that would not be disturbed by the development;	
34 (c)		a program and description of the measures/procedures that would be implemented for: protecting, monitoring and/or managing (including any proposed archaeological investigations and/or salvage measures) Aboriginal cultural heritage on site including specific measures to protect AHIMS Site #37-3-0687 (unless separate approval is obtained for its salvage);	<i>Section 5.3, 6 and Section 6.3.1</i>
34 (c)		managing any new Aboriginal objects or skeletal remains discovered during the development;	<i>Section 6.1 and Section 6.2</i>
34 (c)		maintaining and managing reasonable access for relevant Aboriginal stakeholders (including RAPs) to heritage items on site and within offset areas;	<i>Section 1.4.2.2</i>
34 (c)		ongoing consultation and involvement of relevant Aboriginal stakeholders in the conservation and/or management of Aboriginal cultural heritage on the site; and	<i>Section 1.4</i>
34 (c)		a strategy for the storage of heritage items salvaged on site, both during the development and in the long term, including: – an interim strategy for the storage of heritage items pending the completion of the Wollombi Brook VCA ⁵ Artefact Storage Facility; and	<i>Section 5.3.7</i>
34 (c)		– a procedure to consult with the Mount Owen Complex Aboriginal Cultural Heritage Working Group in the development of the Plan of Management for the Wollombi Brook VCA Artefact Storage Facility.	<i>Section 5.3.7</i>
34 (c)		A detailed description of the measures to be implemented to: – avoid and minimise impacts to items of Aboriginal heritage associated with the construction of the water pipeline infrastructure describe in SEE (Mod 6); and	<i>Section 3.3 and Section 5.2.2</i>
34(c)		– satisfy the requirements of condition 30A of Schedule 3.	<i>Section 5</i>
34		The Applicant must implement the Aboriginal Heritage Management Plan as approved by the Secretary.	<i>This Plan</i>

⁴ The Mt Owen Complex is now referred to as MGO.

⁵ Voluntary Conservation Area (VCA). The Wollombi Brook VCA is the Wollombi Brook Conservation Agreement Area (WBCAA)

Mount Owen Continued Operations (SSD 5850, Schedule 3)	Glendell Mine (DA 80/952, Schedule 3)	Condition	Relevant Section of Plan
	44	Aboriginal Cultural Heritage Management Plan The applicant must prepare and implement an Aboriginal Cultural Heritage Management Plan to the satisfaction of the Secretary. This plan must:	
	44 (a)	be prepared in consultation with BCS ⁶ and the Registered Aboriginal Parties.	Section 1.4 and Appendix B
	44 (b)	be submitted to the Secretary for approval prior to the disturbance of an Aboriginal object or site.	Appendix C
	44 (c)	include a: management plan for all Aboriginal sites and potential archaeologically sensitive areas within the development disturbance area;	Section 3 and Section 6
	44 (c)	detailed description of the measures that would be implemented to protect Aboriginal sites and potential archaeologically sensitive areas outside the development disturbance area;	Section 5
	44 (c)	description of the measures that would be implemented if any new Aboriginal objects or skeletal remains are discovered during the development; and	Section 6.1 and Section 6.2
	44 (c)	protocol for the ongoing consultation and involvement of the Registered Aboriginal Parties in the conservation and management of Aboriginal cultural heritage on the site.	Section 1.4
	44	The Applicant must implement the approved Plan as approved from time to time by the Secretary.	Section 8.1
	SOC 1.12.1	Aboriginal Cultural Heritage Management Plan Within 12 months of granting of the modified consent, the Applicant will complete (and following approval implement) an Aboriginal Cultural Heritage Management Plan (ACHMP), in consultation with BCS and relevant Aboriginal stakeholders, and will incorporate the relevant outcomes of this approval. The plan will include provisions for the conservation of the seven remaining registered Aboriginal sites within the Glendell Mine site and for the management of the Bettys, Swamp and Bowmans Creek areas that fall outside the Proposed Disturbance Area which despite being salvaged, still retain Aboriginal and archaeological values that require protection. Specific initiatives under the plan will include implementation of a Management Committee composed of the Environmental and Community Officer and the Mine Management and at least three representatives of the Aboriginal stakeholder groups. The Management Committee will also have access to a qualified Archaeologist to assist with issues as	This Plan

Mount Owen Continued Operations (SSD 5850, Schedule 3)	Glendell Mine (DA 80/952, Schedule 3)	Condition	Relevant Section of Plan
		required. The Management Committee will have the responsibility of strategic overview and input during the implementation of the following:	
	SOC 1.12.1	the formulation of an Aboriginal cultural heritage awareness training package to be incorporated into the mine and contractor induction process;	<i>Section 4.0</i>
	SOC 1.12.1	fencing of remaining sites and sensitive areas outside the Proposed Disturbance Area to protect them from further disturbance. The fencing will be undertaken in accordance with the specific requirements outlined in the ACHMP;	<i>Section 5.2.2</i>
	SOC 1.12.1	annual monitoring of the remaining sites and sensitive areas remaining within the Glendell Mine site by representatives of the Management Committee to monitor ongoing protection; and	<i>Section 5.4</i>
	SOC 1.12.1	developing management procedures for control of: - feral animals, livestock and noxious and pest weeds; - erosion; - bushfire hazard; and - any other environmental management strategies or procedures which have the potential to affect the in situ management of sites or sensitive areas outlined in the ACHMP.	<i>Section 6.0</i>

⁶Biodiversity Conservation and Science Group of NSW Department of Climate Change, Energy, the Environment and Water (BCS)

In addition, MGO outlined a number of commitments as part of the following:

- Environmental Impact Statement (EIS) for the Mt Owen Continued Operations (MOCO) Project (Umwelt 2015);
- Mount Owen Continued Operations Project Modification 2 Statement of Environmental Effects (MOCO MOD2) (Umwelt 2018a);
- Environmental Assessment for Modification 3 to Glendell Mine (Hansen Bailey 2017);
- Modification 4 Statement of Environmental Effects Glendell (Glendell MOD4) (Umwelt 2018b) and associated Response to Submissions (Umwelt 2019); and
- Mount Owen Continued Operations Modification 6, Modification Report (Umwelt 2020) and the associated Submissions Report (Umwelt 2021).

- Mount Owen Continued Operations Modification 7, Modification Report (James Bailey & Associates 2022) and the associated Submissions Report (James Bailey & Associates 2023).

The outstanding commitments are outlined in **Table 1-2** and the section of the Plan where these items are addressed are noted. Completed commitments have been removed from this table and are discussed in **Table 9-1**.

Table 1-2 – Aboriginal Cultural Heritage Management Commitments

MGO On-Site Management Measures			
ID	Commitment	ACHMP Section(s)	Action
MOCO MOD 7			
MOD 7	Given that no heritage sites were recorded within the Modification Study Area, no additional management measures are required for the Modification. In the unlikely event that heritage items are encountered during the construction or operation of the pipeline, the contingency procedures in the approved MGO Aboriginal Cultural Heritage Management Plan will be implemented.	Section 6.1	Continue to provide cultural heritage awareness training and implementation of the Ground Disturbance Permit process.
MOCO MOD 6			
MOD 6 R1	An appropriate mitigation strategy is to be developed to record and collect all surface artefacts from within the Assessment Boundary. The salvage would include collecting two artefacts from Bowmans Creek 17, the three artefacts from Bowmans Creek 18, and the two isolated finds; ROC IF-1 and ROC IF-2.	Section 6.2.1 and Section 6.4	Salvage sites ROC IF-1, ROC IF-2, Bowmans Creek 17 and Bowmans Creek 18 prior to MOCO MOD 6 disturbance.
MOD 6 R2	There are some known sites within 50 m of the Assessment Boundary. A range of management recommendations are recommended to ensure that these sites are not inadvertently impacted by the Proposed Modification including temporary fencing of both the aboriginal sites and the assessment boundary.	Section 3.3 and Section 5.2.2	Maintain fences around Swamp Creek OS1, Glendell North OS31 and Glendell North IF23.
MOD 6 R3	There are three known sites (MOCO OS-6, MOCO OS-9 and GN OS33) within 50 m of the pipeline route; although all are separated from the proposed pipeline route by clearly defined features such as an access road and the Bettys Creek diversion channel. These sites should be noted during the Ground Disturbance Permit process to ensure that they are avoided.	Section 3.3 and Section 5.2.2	Include sites MOCO OS-6, MOCO OS-9 and GN OS33 on Ground Disturbance Permits for MOCO MOD 6 construction activities.
MOD 6 R4	Should unanticipated Aboriginal objects or human skeletal remains be encountered during the construction of the Modification, then the relevant ACHMP should be consulted for the appropriate procedure.	Section 6.1 and Section 6.2	Consult ACHMP if unanticipated object or human skeletal remains encountered.
MOCO MOD 6 Submissions Report			
MOD 6 RTS R1	Mount Owen Complex Aboriginal Cultural Heritage Management Plan (ACHMP) will be revised to include:	Section 6.2.1 and Section 6.4	ACHMP updated accordingly.

MGO On-Site Management Measures			
ID	Commitment	ACHMP Section(s)	Action
	An appropriate mitigation strategy to record & collect all artefacts from within the assessment boundary;		
MOD 6 RTS R2	Known sites within 50 m of the assessment boundary will be temporarily fenced;	<i>Section 5.2.2</i>	Maintain fences around Swamp Creek OS1, Glendell North OS31 and Glendell North IF23 (if not already salvaged for Glendell). Erect temporary fencing along the Assessment Boundary for MOCO MOD 6 near sites that are within 50 m of boundary.
MOD 6 RTS R3	The known sites within 50 m of the pipeline route sites will be avoided; and	<i>Section 5.2.2</i>	Include known sites within 50 m of the pipeline route on Ground Disturbance Permits.
MOD 6 RTS R4	Should unanticipated Aboriginal objects or human skeletal remains be encountered during the construction of the Modification, then the relevant ACHMP should be consulted for the appropriate procedure.	<i>Section 6.1 and Section 6.2</i>	Consult ACHMP if unanticipated Aboriginal objects or human skeletal remains are encountered.
Glendell MOD 4			
RTS R5	Should Aboriginal artefacts or human skeletal material be uncovered during works within the study area, all work should cease and the Mount Owen Complex ACHMP Sections 6.1 or 6.2 should be followed.	<i>Section 6.1 and Section 6.2</i>	
RTS R6	Work crews should undergo cultural heritage induction to ensure they recognise Aboriginal artefacts and are aware of the legislative protection of Aboriginal objects under the National Parks and Wildlife Act 1974 and the contents of the Mount Owen Complex ACHMP.	<i>Section 4</i>	Included in site training
MOCO MOD 2			
MOD 2 R5	Aboriginal Cultural Heritage - AHIMS Site #37-3-0687 (MC-7) is not within the proposed modification boundary and may not be harmed AHIMS Site #37-3-0687 (MC-7) is more than 42 metres outside of the MOD 2 Boundary and therefore may not be harmed by works within the MOD 2 Project Area. The artefact scatter site cannot be salvaged as part of the MOD 2 Project.	<i>Table 2-1</i>	Included in the quarterly monitoring program
MOCO			
R11	Yorks Creek Artefact Storage Facility The MGO will construct a suitable fit for purpose artefact storage facility to store cultural heritage artefacts recovered during	<i>Section 5.3.7</i>	The facility (Minimbah Teaching Place) is located at the Wollombi Brook

MGO On-Site Management Measures			
ID	Commitment	ACHMP Section(s)	Action
	previous research and salvage programs, and for items recovered for the MOCO Project. The preferred location for the storage facility will be in the Yorks Creek VCA, subject to an agreed modification of the existing Plan of Management for the VCA. The facility will provide suitable shelving and storage to allow for the curation of artefacts to be stored and accessible to researchers and RAPs. The artefact storage facility will be constructed within 2 years of MOCO Project approval. A protocol for the use of the Yorks Creek VCA artefact storage facility will be developed as part of the MGO ACHMP including accessibility and use of the facility by researchers and RAPs.		Conservation Agreement Area at Bulga Coal
R12	Repatriation of artefacts from the MGO Cultural heritage artefacts recovered from the MGO area during previous archaeological surveys and salvage programs that have been previously analysed and catalogued, will be returned to the site to be stored in the new artefact storage facility. Artefacts recovered for the MOCO Project will be suitably categorised and labelled to allow for future research or repatriation to the landscape. Artefacts previously recovered have been analysed and indexed and will be placed appropriately within the new storage facility.	<i>Section 5.3.7</i>	Artefacts will be stored at the Minimbah Teaching Place located at Wollombi Brook Conservation Agreement Area at Bulga Coal
R14	Yorks Creek VCA and new Facilities The Yorks Creek area contains of VCA of 28.5ha that was consented in 1998. The VCA is surrounded by a larger area that was identified as an area of cultural significance in 2005. The Yorks Creek Cultural Landscape Restoration Project involves the restoration of the Upper Reaches of Yorks Creek covering approximately 212 ha. The project commenced in 2005 and involved a partnership between the MGO and the local Aboriginal community. The MGO will work with the ACHWG⁶ to develop appropriate improvements to the Yorks Creek VCA. Such improvements may include a formed access road, the establishment of a car parking area, an artefact storage facility with rainwater tank and toilets with tables and benches, and signage to identify the extent of the conservation area and its purpose. The MGO will commit funding to the establishment of such facilities.	<i>Section 5.3.5 and Section 5.3.7 Appendix E</i>	Sites within the Yorks Creek VCA are monitored during the quarterly site monitoring. Minimbah Teaching Place now located at the Wollombi Brook Conservation Agreement Area at Bulga Coal

⁶ Aboriginal Cultural Heritage Working Group (ACHWG).

MGO On-Site Management Measures			
ID	Commitment	ACHMP Section(s)	Action
R16	Annual Cultural Heritage Open Day The MGO will also host an annual open day for our RAPs to attend the Yorks Creek VCA and spend the day on the land, and use the facilities provided in the VCA. Possible activities to be considered for the day may include: · Teaching and learning outcome through Elders; · Visitation to rehabilitation and conservation areas; · Use of the artefact storage facility; · Update on progress of cultural heritage management programs for all RAPs; and · Walks on country, including conservation sites, rehabilitation and 'song lines' owned by the MGO.	Section 1.4.2.2	This is an annual, ongoing commitment
Off-Site Management Measures			
R18	Massacre Site Surveys The MGO through research studies recommended in the ACHAR, and through field studies and walks on country with the RAPs will better understand the history of the area and conflict with settlers and the Aboriginal community in the local area. MGO will support funding of a memorial story board or other suitable marker, located in an appropriate location. The wording of any plaque shall be developed through the ACHWG.		Program updated in 2024, in consultation with WLALC. No specific ACHMP policies pertain to this commitment that will be managed between MGO and the ACHWG.
R19	Landscape and Video 3D Model MGO will investigate the potential for a 3D digital model of the ACHMP Area to be developed to illustrate the cultural sites in the ACHMP Area landscape for intergenerational equity. This will be undertaken in consultation with the ACHWG and will include layers of appropriate cultural knowledge and values across the landscape.		No specific ACHMP policies pertain to this commitment that will be managed between MGO and the ACHWG.
R22	Yorks Creek VCA and New Facilities The Yorks Creek VCA Plan of Management includes the ongoing maintenance of the area. RAPs including the Wonnarua Nation Aboriginal Corporation, the Plains Clans of the Wonnarua People and the Wonnarua Traditional Custodians groups will be given opportunity to tender for carrying out these works. The MGO will commit funding to help facilitate this outcome in consultation with the ACHWG. The framework to manage such a process will be included in the ACHMP.	Section 5.3.7	Minimbah Teaching Place now located at the Wollombi Brook Conservation Agreement Area at Bulga Coal.
R26	Travelling Stock Reserve (TSR)		No specific ACHMP policies pertain to this commitment

MGO On-Site Management Measures			
ID	Commitment	ACHMP Section(s)	Action
	There is a TSR in the ACHMP Area that was set aside as part of the Mount Owen DA 14-1-2004 as a biodiversity offset. MGO will provide the RAPs, as requested, with any information regarding any proposed changes to land use or from its current status as Crown Land.		that will be managed between MGO and the ACHWG. The TSR was removed as a Biodiversity Offset in SSD-5850 MOD 5 and remains in the ownership of Crown Land.
R27	Landform and Revegetation Involvement The MGO will consult with the RAPs on the final landform, flora and fauna corridors, water courses and revegetation strategies. The MGO through the ACHWG and the Annual Open day will update the RAPs on the progress on the landform and rehabilitation outcomes.	<i>Section 3.4.4</i>	This is an ongoing commitment
R28	DVD or other Recording for Teaching Purposes The MGO will provide funding toward the development of an educational DVD or reference material to record the cultural knowledge as identified in the ACHAR including the cultural context and relationship to significant Creation story sites, song lines, and other significant sites in the local area.		Program updated in 2024, in consultation with WLALC. No specific ACHMP policies pertain to this commitment that will be managed between MGO and the ACHWG.
R29	Wonnarua Educational Material Funding MGO will support programs that enable information gained through the research programs noted in these recommendations to be prepared into education materials. These may be for use by Wonnarua, used to assist in educational material for schools, or provide opportunities for publishing of research articles.		In progress. No specific ACHMP policies pertain to this commitment that will be managed between MGO and the ACHWG
R30	Education - Cultural Related Areas During the life of the Project, the MGO will offer assistance towards three trainee scholarships (up to three years in duration) to be undertaken in culture related training areas. The training and education opportunity will include opportunities which may arise from vocational based learning including graduate and postgraduate studies.		Completed. No specific ACHMP policies pertain to this commitment that will be managed between MGO and the ACHWG
R31	Wonnarua Lore and Custom Training The MGO will commit to funding and support for specific Wonnarua lore and custom training. The identified training programs in the ACHAR process were stone tool making or possum skin cloaks as well as other possible programs.		Program updated in 2024, in consultation with WLALC . No specific ACHMP policies pertain to this commitment that will be managed between MGO and the ACHWG
R32	St Clair Mission Facilities The MGO will provide support for the ongoing development of the St Clair facility in line with the existing Plan of Management.		Completed No specific ACHMP policies pertain to this commitment that will be managed

MGO On-Site Management Measures			
ID	Commitment	ACHMP Section(s)	Action
			between MGO and the ACHWG

1.3.2 GCAA Requirements

A set of guiding principles has been developed which describe how Glencore's Coal Assets Australia (GCAA) will engage with Aboriginal people to pursue mutually beneficial outcomes:

- a) Principle 1: GCAA respects the interests, cultures and customs of Aboriginal people with a demonstrated traditional and cultural connection with the land associated with GCAA's mining operations and projects;
- b) Principle 2: GCAA will work closely with Aboriginal people with a legitimate connection or interest in its mining operations or projects, and other interested stakeholders, to mitigate impacts on Aboriginal cultural heritage;
- c) Principle 3: GCAA will communicate with Aboriginal people in a respectful and culturally appropriate manner through all stages of mining and will establish forums for information exchange on mining operations and projects, where relevant;
- d) Principle 4: GCAA will engage with Aboriginal people to build constructive and sustainable relationships based on openness, trust, honesty, fairness and a mutual understanding of each other's roles and responsibilities and needs;
- e) Principle 5: GCAA understands that its employees and contractors must be conscious and respectful of the uniqueness and diversity of Aboriginal culture and of the importance of the landscape and its values to Aboriginal people. In recognition of this, all relevant employees and contractors will be provided with cultural awareness training;
- f) Principle 6: GCAA will identify opportunities to support Aboriginal communities in the areas of employment, business, education and training and economic development through its established Corporate Social Involvement (CSI) Program; and
- g) Principle 7: GCAA will comply with the requirements of all existing cultural heritage and native title legislation.

The right of Aboriginal peoples to free, prior and informed consent is recognised, and engagement with these communities is based on principles of good faith negotiation and relevant legislation as outlined in the GCAA document *Human Rights and Our People*.

Systematic engagement with Aboriginal peoples' representative bodies as well as individual members of Aboriginal communities is undertaken in a way that is consistent with the GCAA *Community and Stakeholder Engagement Standard* (see *Section Error! Reference source not found.*) and the *International Council on Mining & Metals Position Statement on Indigenous Peoples and Free, Prior and Informed Consent*.

1.4 Consultation

The GCAA *Protocol for Aboriginal Cultural Heritage - NSW* outlines the GCAA's policy of engagement with Aboriginal people in all aspects of cultural heritage assessment, reporting and conservation.

The GCAA *Community and Stakeholder Engagement* standard outlines GCAA's protocol for community engagement. This protocol has been considered in development of the consultation mechanisms described in this Plan.

1.4.1 Consultation with Internal (MGO) Stakeholders

This Plan has been reviewed by MGO and GCAA personnel. Details of Training and Communication arrangements are outlined in **Section 4**.

1.4.2 Consultation with External Stakeholders

DP&E endorsed the appointment of Ben Churcher, OzArk Environment & Heritage (OzArk) to prepare the 2016 version of this Plan. Since his endorsement Ben Churcher has continued to prepare and review subsequent revisions of this Plan, including this version. A copy of correspondence confirming this endorsement is included in **Appendix A**.

This Plan has been prepared in consultation with the MGO Aboriginal Cultural Heritage Working Group (ACHWG), the Registered Aboriginal Parties (RAPs) for MOCO and Glendell, and Heritage NSW (HNSW).

Following approval of MOD 2 for MOCO, the ACHMP was reviewed with a draft sent to members of the MGO ACHWG on 11 November 2019 to provide members with an opportunity to comment.

All RAPs for MOCO received a copy of the draft Plan on 11 November 2019 with a request that any comments be received by the MGO by 25 November 2019. A reminder email was also sent to members of the ACHWG.

A further revision of the ACHMP was undertaken following the receipt of approval for MOD 4 of DA 80/952. The revised Plan was provided to the Glendell RAPs and ACHWG for comment on 10 March 2020.

The ACHMP was further reviewed in July 2021 following approval of MOCO MOD 5 and MOCO MOD 6. The revised draft plan was distributed to the ACHWG and relevant RAPs for comment over the period 29 July 2021 to 26 August 2021. In the unlikely event that heritage items are encountered during the construction or operation of the pipeline, the contingency procedures in the approved MGO Aboriginal Cultural Heritage Management Plan will be implemented. A copy of external consultation records is provided in **Appendix B**.

The ACHMP was again reviewed in August 2023 following approval of MOCO MOD 7 in May 2023. Given that no heritage sites were recorded within Modification study area and no additional management measures were required for the Modification. The revised draft plan was not distributed to the ACHWG and relevant RAPs for comment as this update has resulted in administrative changes only and therefore further consultation with external stakeholders was not considered in accordance with schedule 2 condition 18 of SSD-5850.

A revision of this plan was undertaken in September 2024 following approval of Glendell MOD5 (DA 80/952) and MOCO MOD 9 SSD-5850. The revised Plan was provided to MGO RAPs and ACHWG for comment on 9 October 2024.

THE ACHMP was reviewed following the approval of MOCO MOD 10 in September 2025.

1.4.2.1 Aboriginal Cultural Heritage Working Group

The MGO ACHWG oversees the implementation of the ACHMP and actively contributes to the development of cultural heritage management options and recommendations for Aboriginal objects or places associated with the operation. This is achieved by:

- a) Providing relevant information about the cultural significance and values of the Aboriginal object(s) and/or place(s);
- b) Providing for ongoing communication of information on mining operations and cultural heritage management and the Aboriginal community;
- c) Providing advice on how to address community relationships; and
- d) Commenting on draft assessment reports and management plans before they are submitted to regulatory authorities.

The ACHWG comprises of the following representatives:

- a) Two representatives of the Wonnarua Nation;
- b) Two representatives of the Plains Clans of the Wonnarua People;
- c) Two representatives of the Wanaruah Local Aboriginal Lands Council; and
- d) At least three representatives of the MGO (including the Environment and Community [E&C] Manager) who may be employees or suitably qualified heritage professionals as required.

Only one representative from each of the above groups is required to attend meetings. Each group nominates a primary representative and provides a backup if the primary is not able to attend.

Members are appointed for a period of three years and may be re-appointed for subsequent terms at the discretion of the MGO. A list of the current membership of the ACHWG is included in **Appendix D**.

At least two meetings of the ACHWG are held per calendar year. In addition, an Annual Open Day is held to which all MGO RAPs will be invited to attend (see **Section 1.4.2.2**).

Meetings will be held in accordance with the Terms of Reference (ToR) agreed by the committee.

All consultation with the ACHWG and RAPs will be recorded by MGO E&C, which includes ACHWG meeting and Yorks Creek Annual Open Day invitations. If no response is received, invitations will be resent and recorded. If ACHWG members and RAPs are not able to attend ACHWG meeting or Yorks Creek Annual Open Day the meeting presentation and meeting minutes will be emailed to ACHWG members and RAPs for consultation.

1.4.2.2 Access to Aboriginal sites and stored Aboriginal objects

Local Aboriginal community access to Aboriginal sites and stored Aboriginal objects will be made available by the MGO subject to reasonable safety and security measures. These could include the location of mining operations and availability of MGO assistance. Any request to visit is to be made to the MGO E&C team.

MGO will also host an annual open day for our RAPs to attend the Yorks Creek Voluntary Conservation Area (VCA) and spend the day on Country. Possible activities to be considered for the day may include:

- a) Teaching and learning outcome through Elders;
- b) Visitation to rehabilitation and conservation areas;
- c) Update on progress of cultural heritage management programs for all RAPs; and
- d) Walks on Country, including conservation sites, rehabilitation and 'song lines' owned by the MGO.

1.5 Dispute Resolution Process

Communications with stakeholders are recorded in a centralised location, Consultation Manager.

Complaints will be recorded and investigated by the E&C team. Initial response to the complainant will be made as soon as practicable.

Follow up correspondence with the complainant will be made explaining the outcome of complaint investigations.

If required, the investigation will involve:

- a) Receipt of complaint and details of the complaint will be recorded;
- b) Investigation of the complaint and recording of details into an actions tracking database;
- c) Responding to the complaint as soon as practicable following receipt and investigation; and
- d) Corrective action and implementation of training, where applicable.

If the complainant is not satisfied with the actions of the MGO or the MGO is not satisfied with those proposed by the complainant, the matter will be referred to a DPIE appointed independent dispute facilitator.

2. Aboriginal Cultural Heritage Sites

2.1 Sites within Approved Disturbance Area

All sites previously recorded under DA 80/952 and MOCO SSD-5850 within approved disturbance areas have been salvaged.

The Aboriginal Cultural Heritage Assessment Report, for MOCO MOD 6 (OzArk 2020) identified total impact would likely occur to three sites and partial impact to one site, as a result of the modification. This includes total impact to Bowmans Creek 17, ROC-IF1 and ROC IF-2 and partial impact to Bowmans Creek 18.

All artefacts will be recorded and collected from within the MOCO MOD 6 disturbance area, as detailed in **Section 6.2.1.1**. This will include the salvage of two artefacts from Bowmans Creek 17, three artefacts from Bowmans Creek 18, and the two isolated finds ROC-IF1 and ROC IF-2.

The Aboriginal Cultural Heritage Assessment Report, for MOCO MOD 7 (OzArk 2021) did not identify any site located within the Modification 7 Study Area. Additionally, the potential for subsurface archaeological deposits to be present within the Modification 7 Study Area is low due to the lack of archaeologically sensitive landforms.

Modification 5 to DA 80/952 was approved to extend mining operations until June 2026 and did not constitute a change to the Development Consent boundary. Therefore, the modification report did not identify any new sites of cultural heritage significance for inclusion in existing site management processes.

Modification 9 to SSD-5850 was administrative in nature and there were no impacts to cultural heritage.

2.2 Socio-Cultural Values

2.2.1 Value of Aboriginal sites

The ACHMP Area is located within the traditional country of the Wonnarua people. The physical evidence of Aboriginal life throughout this country is pervasive. Cycles of life, interaction, ceremony, and death are all represented in a range of sites throughout the Hunter Valley and beyond.

A prevailing view throughout the Aboriginal community is the importance of all physical evidence of Aboriginal life to current Aboriginal communities. Aboriginal sites provide a tangible connection to pre-European Aboriginal land use. Aboriginal sites are valuable in sustaining contemporary Aboriginal identity through opportunities for teaching and engagement with heritage in field investigations.

RAPs have identified concerns with current and future mining within the MGO area and the broader region, and that this mining poses a significant threat to Aboriginal cultural heritage values. It is believed that mining continues to cause fragmentation to the cultural, spiritual, and historic values of the cultural landscape including degradation to important waterways.

2.3 Previous Archaeological Investigations

A detailed GIS heritage database of Aboriginal archaeological sites previously identified within the ACHMP Area has been developed to assist in the management of Aboriginal cultural heritage.

421 sites have been recorded within the ACHMP area during previous archaeological investigations. These assessments began in the early 1980s and have continued to the present day.

289 of these sites have been recorded as artefact scatters although it is noted that a majority of these recorded 10 or less artefacts. 129 sites are listed as isolated finds with the remaining three sites being a potential archaeological deposit (PAD), a grinding groove site, and a stone arrangement.

These sites are shown on *Figure 2-1*.

2.4 Known Aboriginal Sites Remaining in Place

Of the 421 sites, 134 remain intact or partially intact and the remainder have been salvaged under permit (*Figure 2-2* and *Appendix F*). There are three sites that are likely destroyed by previous mine activity although they are regarded as valid sites and are included in *Appendix F*. In addition, there are eight archaeologically sensitive areas that are not registered with AHIMS.

2.5 Cultural Values Assessment

To gain an understanding of the importance or the cultural significance of MGO to Aboriginal people, RAPs were invited to participate in a cultural values assessment process as part the MOCO Project Aboriginal Cultural Heritage Assessment Report (ACHAR, 2015). This included opportunity for independent statements to be provided in writing and verbally. The details of the extensive community consultation are provided in the ACHAR (Umwelt 2015 Appendix 13a).

Cultural values expressed by the RAPs are detailed in the ACHAR and are summarised here.

- The submissions made during the RAP workshops clearly communicate a deep contemporary attachment to place, although in common with most of the more urbanised regions of Australia, the understanding of 'place' and the cultural lore and traditions associated with it exist in a somewhat fragmentary state;
- The landscape of the ACHMP Area has a fundamental significance because of its historical, social, and scientific value. The ACHMP Area and surrounds is a complex, multi-layered cultural landscape where in combination (a) the biophysical attributes of the landscape including the drainage systems, fauna and flora, geology and soils; (b) the material traces of traditional Wonnarua people; (c) the historical associations and experiential reference points of its members and (d) the various spiritual, lived experiences contribute to a high level of cultural significance for which words are considered inadequate to describe;
- There is a discussion of creation or ancestral beings (i.e. Baiame and Wedge-tailed eagles) in one of the cultural value reports that form the cultural values assessment in the ACHAR and some mentions of ritual practices or ritualised places, named landscape features or places within or in proximity to the MGO where ritual or lore was physically practiced. There are also known Bora grounds in the region surrounding the MGO, and there is also reference to a stone arrangement within the MGO being described as a 'birthing site'; and

The disclosed material within the ACHAR seeks to demonstrate cohesive group ownership and control of the MGO area by the Wonnarua people, albeit through the auspices of different knowledge holder groups. This exertion of group ownership from all RAPs extends to all aspects of the natural and cultural environment, as well as to the spiritual and mythical realms. However, the level of direct knowledge of traditional ancestral lifeway's (i.e. creation myths, ongoing ceremonial activities, ritualised lore, custom and practices and language) existing prior to white settlement is generally limited, and detailed information about these matters is also limit

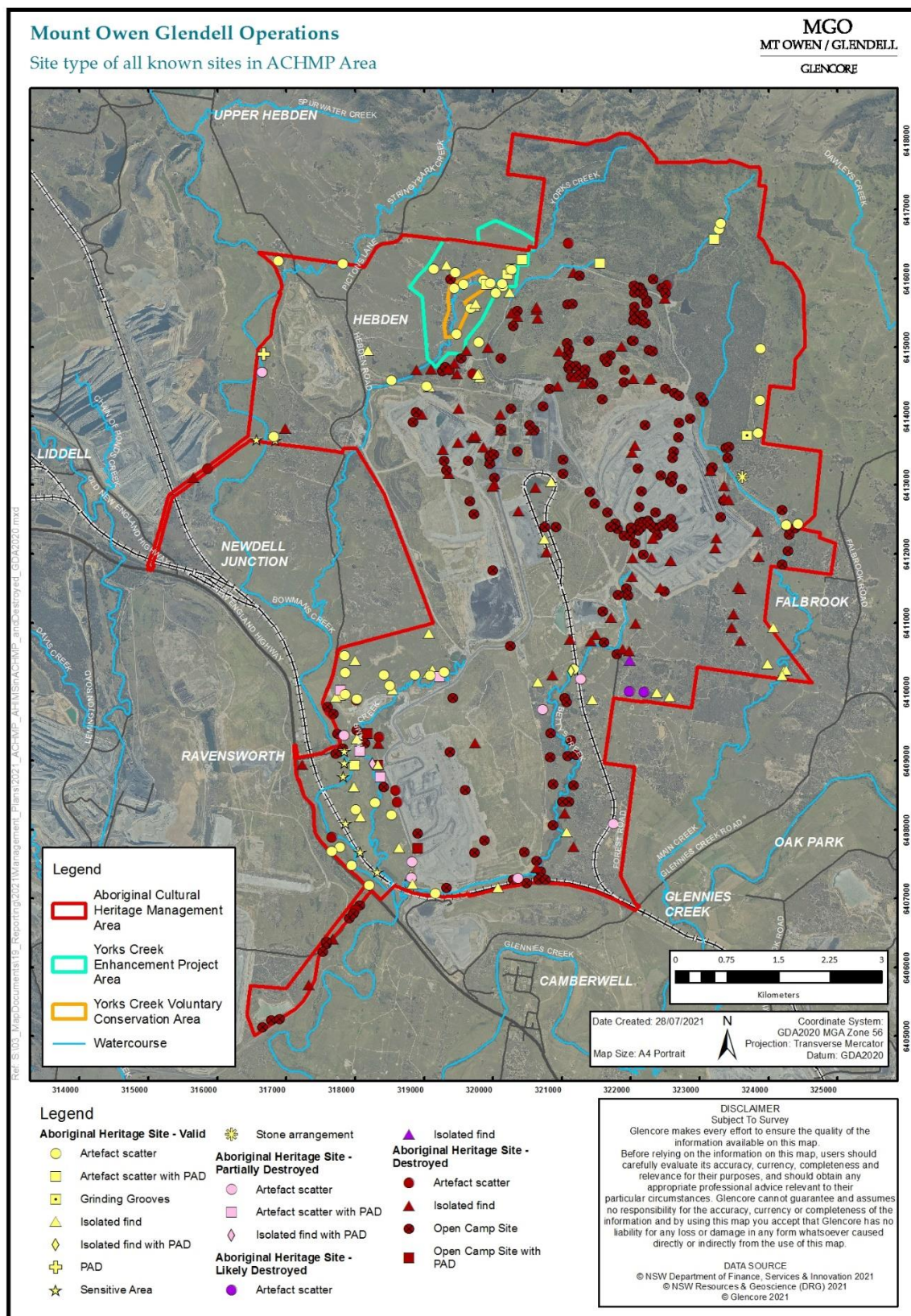


Figure 2-1: Site types in ACHMP area

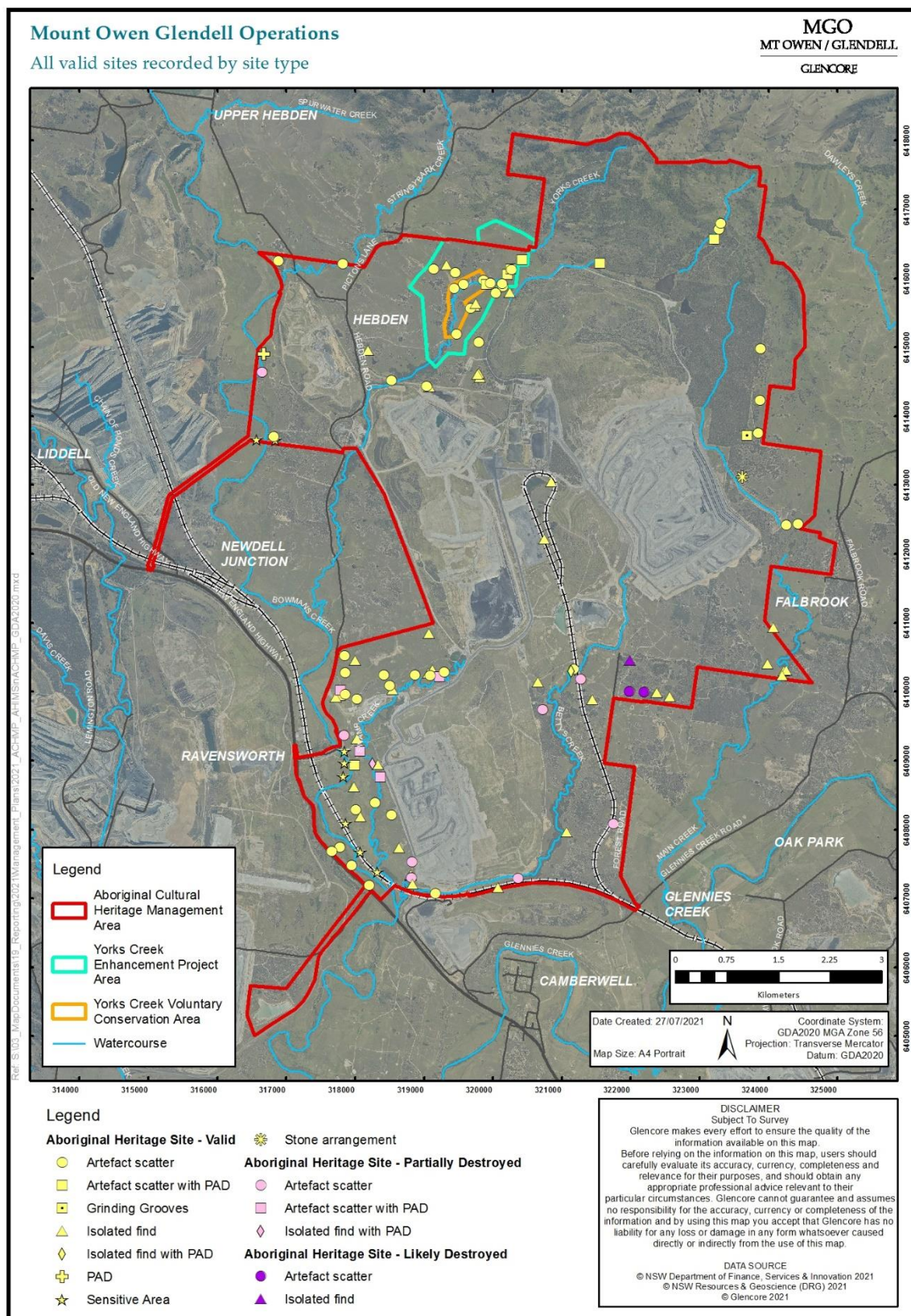


Figure 2-2 – All known valid sites in the ACHMP Area

3. Management Strategy and Plan

3.1 Aboriginal Heritage Impacts

Approved mining activities have resulted in impacts to some Aboriginal objects both at Aboriginal sites where objects are visible, as well as below the ground surface where they are not readily apparent. However, not all parts of the ACHMP Area will be impacted by approved activities and therefore many Aboriginal sites will not be harmed.

Aboriginal site investigations undertaken to date confirm that Aboriginal stone artefacts additional to those originally recorded may continue to be found in low numbers across the landscape as exposure conditions change. These findings confirm that Aboriginal stone artefacts are broadly distributed within the soil across the ACHMP Area and that vegetation cover and soil exposure conditions can change to reveal previously obscured artefacts. Such exposed artefacts are referred to as “sites” which means the site where Aboriginal objects may be observed in the present. Similarly changing environmental conditions can obscure previously visible Aboriginal objects. The phenomenon of previously recorded “sites” not being discoverable at a later time is also common.

The management strategy addresses the recorded sites of Aboriginal objects as well as the inferred broad distributions of Aboriginal stone artefacts reflecting past Aboriginal activity in all parts of the landscape. Because Aboriginal objects occur within the topsoil in parts of the ACHMP Area, impacts to undiscovered Aboriginal objects may occur. The management strategy is provided as mitigation of all Aboriginal heritage impacts, including impacts to those Aboriginal objects that have been recorded and Aboriginal objects which may occur unrecorded within the topsoil.

3.2 Impact and Non-Impact Areas within the ACHMP Area

Several defined areas occur within the ACHMP Area where specific management measures will be implemented for the protection of Aboriginal sites. The areas identified in the development consent as requiring management within the ACHMP Area include:

- a) Impact areas: approved disturbance areas for the Mt Owen and the Glendell mines; and
- b) Non-impact areas: includes all areas outside of approved disturbance areas but within the ACHMP Area that will not be impacted by approved activities. Within this category are five Management Areas that are described in **Section 3.2.1**.

These areas are described below and are shown on **Figure 3-1**. The common management measures for these areas are described in **Section 5**.

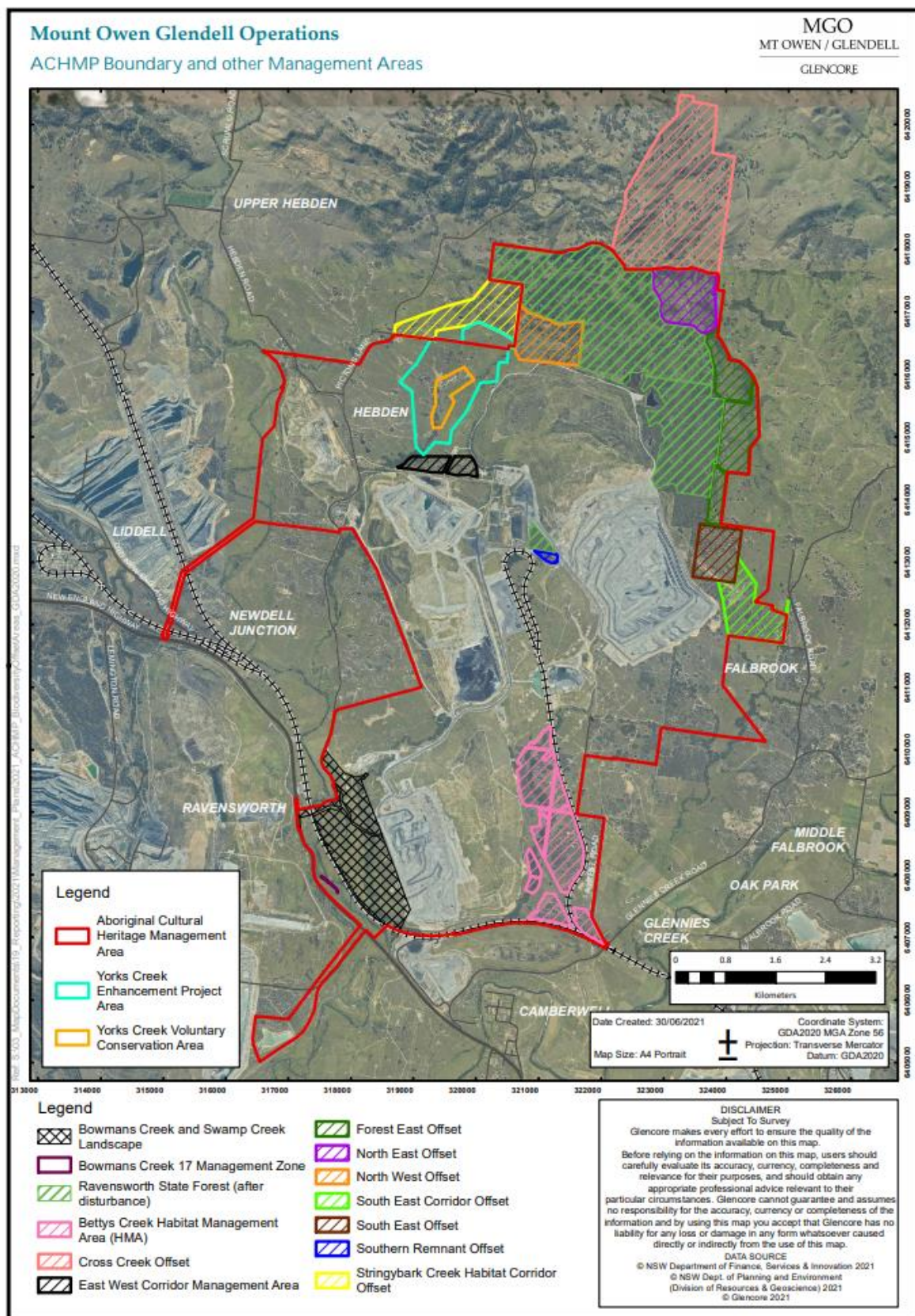


Figure 3-1 – Aerial showing management areas

3.2.1 Management Areas

3.2.1.1 Yorks Creek Voluntary Conservation Agreement Area

Aboriginal occupation and use of the Yorks Creek area is described in detail in a number of existing reports outlining previous Aboriginal archaeology assessments within the general area. Previous surveys of the Yorks Creek catchment have indicated a high density of archaeological material, particularly adjacent to the drainage lines. Knapping floors and dense surface scatters of artefacts, including a possible hearth were identified within the existing Yorks Creek VCA.

Figure 3-1 shows the location of the Yorks Creek VCA. The management plan for the Yorks Creek VCA is presented in **Appendix E**.

3.2.1.2 Yorks Creek Catchment Enhancement Project

In recognition of the need to offset the destruction of a significant number of Aboriginal archaeological sites across the Glendell and Mount Owen mine leases, the MGO proposed a Yorks Creek Catchment Enhancement Project (YCCEP) area as an alternative to setting aside a land package. Subsequently, the Office of Environment and Heritage (OEH; now HNSW) accepted the YCCEP area as an appropriate offset arrangement. The implementation of the YCCEP area with an aim to conserving a significant cultural landscape was required under Section 90 Consent # 2131, Special Condition 4, issued to the MGO by the OEH on 22 February 2005, in relation to site destruction within the Mount Owen West Dump area.

The Yorks Creek area has been highly disturbed by past land clearing and agricultural activities and comprises degraded open pasture land and areas of historic and active erosion along Yorks Creek and its tributaries. The YCCEP area incorporates the existing Yorks Creek VCA and land adjoining this area.

The design and implementation of the YCCEP area, including the assessment and selection of remediation options, design of work program and co-ordination of on-ground works involves a partnership between the MGO, HNSW and RAPs.

An Aboriginal Cultural Landscape Remediation and Management Plan (ACLRMP) was prepared in 2007 to guide the implementation of the YCCEP area by a working group comprising representatives from the MGO, the OEH (now HNSW), the relevant Aboriginal stakeholders, and an independent land management consultant (Global Soil Solutions). The close involvement of the Aboriginal stakeholders was integral to the overall success of the ACLRMP given the presence of Aboriginal sites throughout the YCCEP area and their significance to the Aboriginal community.

The following benefits to the Aboriginal community have arisen from the project:

- Offsets for the loss of Aboriginal cultural heritage sites and values within the Glendell and Mount Owen mining areas;
- Establishment of an ongoing relationship with the relevant Aboriginal stakeholders;
- Restoration of cultural landscape values within the YCCEP area by controlling erosion and rehabilitating with locally indigenous vegetation;
- Training and skill development for Aboriginal stakeholder representatives through involvement in the design and implementation of the YCCEP, which has included assessment of remediation options, fencing, erosion control works, tree planting, maintenance works etc.;
- Facilitation of the review of the Plan of Management for the existing Yorks Creek VCA area with HNSW;

- Provision of increased opportunities and the desirability of the use of the existing VCA by the Aboriginal community for educational purposes by improving access to the site and remediating cultural landscape values;
- Provision of further protection for archaeological sites along Yorks Creek outside of the existing Yorks Creek VCA area;
- Rehabilitation of the upper catchment of Yorks Creek, which has been highly degraded from past land clearing and agricultural activities and provision of a wildlife corridor link to rehabilitation at Mount Owen, the Mount Owen Biodiversity Offset Areas and remnant vegetation to the north of Mount Owen; and
- The improvement of the visual amenity of the overall Yorks Creek landscape.

The ACLRMP was not finalised during 2007, therefore management measures for the YCCEP area have been incorporated into the Yorks Creek Plan of Management. The Yorks Creek Plan of Management supersedes the 2007 ACLRMP and is presented in **Appendix E**.

3.2.1.3 Bettys Creek Habitat Management Area

As part of the 2007 modification to DA 80/952, the MGO committed to establishing a Habitat Management Area (HMA) within the Bettys Creek area (refer to **Figure 3-1**). While the HMA has been established primarily in response to the conservation of ecological values within the Glendell Mine area, the HMA contains three known Aboriginal sites:

- 37-3-0294 - Site 2 (MORL2);
- 37-3-0612 - Bettys Creek 22; and
- 37-3-1194 – MOCO OS-6.

It also contains an area that was noted to have Aboriginal cultural values in the Umwelt 2004 survey and assessment report. These values included (Umwelt 2005: 7.9 to 7.14):

- A ridge that affords expansive views of the Bettys Creek valley;
- Areas along Bettys Creek and on the lower slopes where five or more useful/edible plants were recorded during the survey;
- Semi-permanent water from Bettys Creek and associated billabongs (old meander cut-offs) and a permanent waterhole in the vicinity of Bettys Creek 21 (now salvaged), Bettys Creek 22 and MORL-2; and
- Numerous creek confluences with associated areas of low gradient suitable for camping.

It is probable that further artefacts may remain in association with the main creek channel of Bettys Creek and along the tributaries that drain the slopes.

In summary, the HMA contains three known Aboriginal sites, the potential for Aboriginal artefacts in a subsurface context (in association with the creek line and tributaries) and it contains important Aboriginal values that will be protected into the future as part of this Plan **Figure 3-1** shows the location of the Bettys Creek HMA.

3.2.1.4 Biodiversity Offset Areas

In 2006, Umwelt was commissioned by MGO to conduct an archaeological survey of the Mount Owen Biodiversity Offset Areas to satisfy the requirements of the previous Mount Owen development consent. The following is a summary list of the findings of that report:

- a) Two recorded sites existed in the Biodiversity Offset Areas prior to the survey undertaken by Umwelt in 2006. Both sites were stone arrangements recorded in 1980 and 2004⁷; and
- b) The 2006 survey recorded seven new sites within the Biodiversity Offset Areas, which were artefact scatters varying number of artefacts from two to eighty-one.

OzArk has also undertaken further archaeological surveys within Biodiversity Offset Areas during the development and operational phase of MOCO.

Figure 3-1 shows the location of the Biodiversity Offset Areas.

3.2.1.5 Bowmans Creek and Swamp Creek Landscape

The Glendell Mine site contains a substantial area of floodplain and slopes associated with Bowmans Creek and Swamp Creek (including the majority of the shared Bowmans Creek and Swamp Creek floodplain) that will not be impacted by mining under the approved disturbance plan. During the Umwelt 2004 survey and assessment these areas were noted to have nine Aboriginal sites, of which seven were salvaged under Section 90 Consent #2267, as they were within areas that were proposed under the initial mine plan for disturbance. The landscape contains known Aboriginal sites, six of the eight archaeologically sensitive areas, and these sites/areas will be protected under this Plan. Even though most of the sites have been salvaged, it is probable that further artefacts may remain in a subsurface context within parts of this area associated with the creek lines. The areas also retain Aboriginal cultural heritage values including (Umwelt 2005: 7.9 to 7.14):

- A ridge that affords expansive views of the Swamp Creek valley (Swamp Creek);
- Areas along Bowmans Creek and Swamp Creek and on the lower slopes where five or more useful/edible plants were recorded during the survey;
- Semi-permanent water from Swamp Creek and associated billabongs (old meander cut-offs) and most likely permanent water from Bowmans Creek;
- Outcropping stone (on hilltop) and cobble bed load in creek channel suitable for tool manufacture (Bowmans Creek); and
- Numerous creek confluences with associated areas of low gradient suitable for camping.

In summary, the area of Bowmans Creek and Swamp Creek within the Glendell Mine site, but outside the mine disturbance area, contains known Aboriginal sites and six of the eight archaeologically sensitive areas. As there is potential for Aboriginal artefacts in a subsurface context in association with the creek lines and tributaries, this landform will be protected into the future as part of this Plan.

Portions of this landform were impacted by approved mining operations, particularly near the Hebden Road upgrade works.

Figure 3-1 shows the location of the Bowmans Creek and Swamp Creek Landscape.

⁷ Subsequent investigations have demonstrated that there is only one stone arrangement feature that has been recorded twice.

3.3 Management of Sites Outside Impact Areas

This management strategy will be implemented with participation of the ACHWG and registered Aboriginal parties.

Aboriginal sites within the ACHMP Area but outside of the approved disturbance areas, such as those within the Yorks Creek VCA, will not be impacted. The following management strategies apply to these sites:

- a) Previously recorded Aboriginal sites not impacted by development will be considered for protection by fencing and/ or signage (see **Section 5.2**), and will be subject to monitoring (see **Section 5.4**); and
- b) Protected Aboriginal sites, including partially protected sites where impacts have not extended to all of the site, within the ACHMP Area will be actively managed to prevent deterioration.

3.4 Protection Measures for Cultural Heritage Sites

MGO will consult with the RAPs on matters raised in the ACHAR, to better understand where there may be changes or improvements to existing cultural heritage management mechanisms and protocols.

3.4.1 General Controls

The following general Aboriginal heritage management measures have been implemented at MGO:

- a) A significant area of MGO has been previously surveyed for Aboriginal heritage sites by archaeologists and Aboriginal community groups;
- b) A GIS heritage database of Aboriginal sites has already been established for MGO;
- c) MGO maintains an up to date mine plan which minimises mining in areas of high Aboriginal significance;
- d) There is an Aboriginal heritage section within MGO site induction;
- e) Pre-clearance surveys are undertaken prior to ground disturbance; and
- f) Ground disturbance permit ensures Aboriginal Heritage is reviewed prior to ground disturbance.

The following controls have been established at MGO to protect and conserve Aboriginal cultural heritage values. These include:

- a) Consultation with the Aboriginal community (undertaking field study and reviewing reports);
- b) Contractors working in MGO to be made aware of responsibilities under *National Parks and Wildlife Act 1974* (NPW Act) and location of known sites; and
- c) Location of known sites to be added to GIS heritage database which is reviewed prior to any site disturbance through the Ground Disturbance Permit (GDP) process.

3.4.2 Monitoring of Aboriginal Sites in Non-Impact Areas

Monitoring of non-impacted sites will take two forms:

- a) Photographic monitoring: will consist of photographic monitoring every three years at a representative sample of up to 10 Aboriginal sites with more than 10 artefacts. Further details are provided in **Section 5.4.1**; and

- b) Site condition monitoring: will consist of RAPs or their representatives, as well as a suitably qualified archaeologist, inspecting a roster of Aboriginal sites on an annual basis. Further details are provided in **Section 5.4.2**.

The aim of the monitoring survey is to recommend procedures to ensure that these sites are preserved in the landscape. In most cases, this preservation will involve fencing and/ or signage (if not already in place), although if erosion threatens a site, broader erosion controls / sandbagging of banks etc may be needed to ensure the site's preservation. MGO has committed funding to review and monitor these sites, including remediation activities.

The monitoring program will be confined to MGO owned land and not the entire ACHMP Area. For example, sites within Ravensworth Operations owned land will be monitored by Ravensworth Operations.

3.4.3 Verification of Aboriginal Sites in Non-Impact Areas

In the past, MGO has supported a project to study the archaeological values in non-impact areas. The study focused on the registered sites in the ACHMP Area and involved monitoring surveys to ground truth the location and condition of all previously recorded sites. The project ensured that the GIS heritage database agrees with the Aboriginal Heritage Information Management System (AHIMS) register and that there is a high degree of certainty about the location and size of sites.

The verification project continues to be run in conjunction with the monitoring program set out in **Section 3.4.2**. The program also includes periodic review of the GIS heritage database to ensure its accuracy.

3.4.4 Landform and Revegetation Involvement

MGO will consult with the RAPs on the final landform, flora and fauna corridors, water courses, and revegetation strategies (R27).

MGO through the ACHWG and the Annual Open day (**Section 1.4.2.2**) will update the RAPs on the progress on the landform and rehabilitation outcomes.

4. Operational and Training Protocols

MGO recognises that training and awareness is an important aspect of the Environmental Management System. All MGO personnel and contractors are required to complete a Glencore generic, and a site-specific induction prior to commencing works on the site. Personnel undertaking works in the Yorks Creek VCA and the Biodiversity Offset Areas are required to complete a specific Cultural Heritage induction.

All relevant mining personnel associated with surface activities have knowledge in the recognition of Aboriginal materials. The E&C Manager understands Aboriginal heritage legislation (NPW Act) and the legislative process.

4.1 Obligation to Protect Aboriginal Cultural Heritage

4.1.1 Obligation to Avoid Harm

Employees, contractors, sub-contractors, and visitors to the ACHMP Area have an obligation to avoid harming Aboriginal heritage unless engaged in approved development activity in an area where Aboriginal salvage obligations have been met as described in this Plan.

The definition of harm used in this Plan stems from the definition in Section 5 of the NPW Act. The examples used below are for illustrative purposes and are not exhaustive.

Harm to an Aboriginal object or Aboriginal site means:

- a) Moving or collecting stone artefacts (although picking up artefacts and inspecting them is acceptable as long as they are immediately returned to their original location;
- b) Disturbing the earth where stone artefacts are located, e.g. by earthworks for drains, roads, etc.;
- c) Breaking stone artefacts, e.g. by running over them in a vehicle;
- d) Causing damage to a grinding groove sandstone platform by creating or exacerbating cracks; and
- e) Cutting down, disturbing or otherwise marking scarred trees.

Trivial or negligible impacts to Aboriginal objects are not regarded as harm. However, 'trivial' is defined, for example, as breaking an artefact during gardening. Activities on a mine site would rarely be regarded as 'trivial'.

4.1.2 Obligation to Protect

Mine personnel, contractors and subcontractors having responsibility for land management or construction have an obligation to protect Aboriginal heritage within their area of work responsibility.

Protection means active recognition of known Aboriginal heritage and active measures to avoid Aboriginal heritage. This may include fencing, mitigation of erosion effects, and modification of work plans to avoid Aboriginal heritage such as changing vehicle access routes.

4.1.3 Obligation to Implement Management Measures for Aboriginal Heritage Impacts

Mining personnel, contractors and subcontractors have a responsibility to ensure that the appropriate Aboriginal heritage salvage has been conducted prior to or in association with their activities which impact Aboriginal objects. This is achieved through use of the work authorisation and a GDP.

4.1.3.1 Aboriginal Heritage Induction and Permitting Process

Employees, contractors, sub-contractors, and visitors to the ACHMP Area will be made aware of the obligation to avoid harm to Aboriginal heritage through an Aboriginal heritage component of the site induction and the GDP process.

The Aboriginal heritage induction includes the following points expressed in plain language:

- a) Aboriginal sites occur extensively across the ACHMP Area;
- b) Aboriginal sites are of great significance to the Aboriginal community, are important to the wider community and will be treated with respect;
- c) Aboriginal sites are protected by law;
- d) Aboriginal sites include stone tool sites, a stone arrangement site, and a grinding groove site;
- e) Aboriginal sites can be hard to recognise, so refer to the GIS heritage database to determine site locations; and
- f) Many Aboriginal artefacts are hidden within the topsoil and are not readily visible. The apparent absence of a site does not mean it is no longer in existence.

MGO revised regularly its onsite induction program to include material to raise awareness of Aboriginal cultural values of the ACHMP Area and local area more generally. The induction material positively messages the Aboriginal cultural heritage values of the area (R06 and RTS R6).

The induction materials and content were developed in consultation with the relevant RAPs through the ACHWG.

5. Aboriginal Heritage Protection

5.1 Measures to Protect Aboriginal Sites

Measures to protect and manage Aboriginal sites and Aboriginal heritage management areas not impacted by development activities include fencing, land management, recording, interpretation, and monitoring. The common measures for all sites and areas are described below.

5.2 Fencing

5.2.1 Fencing of Sites within Management Areas

5.2.1.1 Yorks Creek VCA

Refer to **Appendix E**.

5.2.1.2 Biodiversity Offset Areas and the Bettys Creek HMA

Fencing the perimeter of the Biodiversity Offset Areas and the Bettys Creek HMA will be considered. As these areas are not solely for the conservation of Aboriginal cultural heritage sites, signage at entry points will indicate:

- a) The area contains Aboriginal cultural heritage sites;
- b) No ground disturbing impacts without authorisation; and
- c) No vegetation removal beyond weed control.

5.2.1.3 Bowmans Creek and Swamp Creek Landscape

The Bowmans Creek and Swamp Creek Landscape will either have a perimeter fence and/or individual sites be fenced if they are not already in place. This landscape will be noted in the GIS heritage database as an area of archaeological sensitivity. Should ground disturbing impacts be required within this landscape, the exact location of the impacts will be assessed by a suitably qualified archaeologist to determine the level of impact to the archaeological values of this landscape.

5.2.2 Fencing of Sites outside of Management Areas

A number of sites are located in non-impact areas outside of the Management Areas and the approved disturbance areas.

Individual fencing at these sites will be considered on a case-by-case basis with the desired outcome being the long-term preservation of the site.

Fencing at these sites, if required, shall constitute at a minimum star pickets placed outside the limits of observable Aboriginal objects and signage to identify the area as being significant. Where there is doubt over the extent of surface artefacts, a competent person will be involved in an inspection to identify the extent of visible Aboriginal objects (usually stone artefacts) on the surface. Where grazing by stock poses a risk to a site, discussion with RAPs during monitoring program may result in more substantial, stock proof fencing where required.

Where there has been partial impact on an Aboriginal site the remaining portion shall be fenced.

Fencing at any individually fenced sites shall be maintained for both site presentation as well as being a visible impact deterrent.

Fencing may be omitted or removed if it brings undesired attention to the site from vandals or otherwise increases risk of damage to the site. If fencing is omitted or removed, other management options to protect the site will be considered on a case-by-case basis in consultation with MGO RAPs.

5.2.2.1 Swamp Creek Sites

Following the approved impacts associated with DA 80/952 MOD4 and MOCO MOD 6, the portions of Swamp Creek OS1 (37-3-1499, incorporating Swamp Creek IF-2 to Swamp Creek IF-4) and Glendell North OS31 (37-3-1545) located outside of the disturbance area will be individually fenced and signposted to ensure they are conserved within the landscape.

Glendell North IF23 (37-3-1513) is located within the approved disturbance area for Glendell Mine and can be salvaged at any time under current approvals and in accordance with the ACHMP. However, if this site is not salvaged prior to works commencing for MOCO MOD 6, the existing fence should be maintained to ensure the site is conserved during construction activities.

5.2.2.2 MOCO MOD 6 Assessment Boundary Demarcation

To ensure that no inadvertent impact occurs to previously recorded sites located near the Assessment Boundary for MOCO MOD 6, no-go areas should be marked in the field for the duration of construction activity associated with MOCO MOD 6. At a minimum this will include high visibility temporary fencing for the duration of MOCO MOD 6 construction activities along:

- The eastern edge of Assessment Boundary near Glendell North OS32 (37-3-1544);
- The north-eastern edge of the Assessment Boundary near Swamp Creek OS1 (37-3-1499); and
- The north-western edge of the Assessment Boundary near Bowmans Creek 18 (37-3-1578).

There are also three known sites, MOCO OS-6, MOCO OS-9 and GN OS33, within 50 metres (m) of the pipeline route for MOCO MOD 6. These sites are separated from the pipeline route by clearly defined features such as an access road and the Bettys Creek diversion channel and therefore additional demarcation is not warranted. However, these sites will be noted during the GDP process to ensure that they are avoided.

5.2.2.3 MOCO MOD 7 Assessment Boundary Demarcation

There are 58 recorded sites located within 2 km of the Modification 7 Study Area, however none are located within the Modification Study Area. MGO will apply the GDP process for construction works to ensure sites are appropriately identified and any management measures required are adequately implemented.

5.3 Land Management within Management Areas

This section deals with land management practices in areas designated as Management Areas that include cultural heritage sites and values. The Management Areas include the Biodiversity Offset Areas, the Bettys Creek HMA, and the Yorks Creek VCA.

5.3.1 Erosion Control

Erosion control measures may be implemented at known protected Aboriginal sites under erosion threat.

If erosion control measures are to be carried out:

- a) The area will be inspected by a suitably qualified archaeologist and representatives of the RAPs and/ or Wonnarua Knowledge Holders to determine precisely the likely impacts of the erosion works and to determine appropriate management recommendations;
- b) Management measures will be discussed with, and agreed upon by the ACHWG and MGO E&C staff;
- c) Minor movement of individual artefacts is permissible on the condition that artefacts are returned to their original location immediately after the erosion control management action; and
- d) Before and after photographs will record erosion control actions. Such records will be retained in association with this Plan.

5.3.2 Bushfire Hazard Reduction

If bushfire hazard reduction is to be carried out within 50 metres of a known archaeological site, the appropriate safeguards should be in place:

- a) All personnel working within the area should be informed of the site's location and its legislative protection under the NPW Act;
- b) Clearing of excess fuel load will be undertaken in a manner that minimises ground disturbance; and
- c) Management measures will be discussed with and agreed upon by the ACHWG and MGO E&C staff. Preferred methods of hazard reduction include manual brush cutting and grass slashing with the slasher set at a minimum of 150 millimetres to avoid impacting surface Aboriginal stone artefacts.

5.3.3 Exclusion of Stock

Stock will be excluded from Management Areas except Bowmans Creek and Swamp Creek Landscape to avoid impact to identified Aboriginal heritage values.

5.3.4 Weed Control

If weed control is to be carried out within 50 metres of a known archaeological site, the appropriate safeguards should be in place:

- a) All personnel working within the area should be informed of the site's location and its legislative protection under the NPW Act;
- b) No ground disturbing activities associated with weed control can take place; and
- c) Management measures will be discussed with and agreed upon by the ACHWG and MGO E&C staff.

5.3.5 Land Management in the York's Creek Catchment Enhancement Project

Land management practices within the YCCEP area are contained in **Appendix E**.

5.3.6 Land Management in the York's Creek VCA

Management protocols regarding the York's Creek VCA are contained in **Appendix E**.

5.3.7 Wollombi Brook teaching and keeping place

5.3.7.1 Historical Information

MGO has committed to funding the establishment of an artefact storage facility at the Yorks Creek VCA (R14). However, this location is impracticable, and in consultation with the ACHWG, MGO has agreed to house all artefacts from MGO at the Wollombi Brook Conservation Agreement Area (WBCAA) also known as Minimbah Teaching Place at the Bulga Coal Complex. This purpose-built teaching and keeping place will house artefacts from several Glencore mines in the Hunter Valley. All artefacts from MGO will be stored in separate archive boxes to artefacts from other mine sites.

At mine closure, or at any time prior, the artefacts can be transferred from the WBCAA teaching and keeping place to a facility nominated by the RAPs subject to approval by HNSW in a Section 85 Care Agreement (NPW Act). Where an agreed facility cannot be nominated, consideration will be given to lodging the material with either the Australian Museum (subject to its acceptance), a local Aboriginal cultural centre (if one is present), or a local heritage museum that can provide secure ongoing storage and curation. Where no facility can be identified, the artefacts may be reburied within MGO in a secure manner that allows later retrieval. The location must be chosen following consultation with all MGO RAPs and be notified to the HNSW in the designated manner.

5.3.7.2 Interim Storage Strategy

In response to MOCO MOD 2 Schedule 3 Condition 34c the interim strategy for the storage of heritage items defines storage of heritage items pending the completion of the WBCAA teaching and keeping place. December 2021, WBCAA teaching and keeping place is constructed. . Previously salvaged heritage items currently stored at Umwelt (75 York St, Teralba NSW 2284), with more recently salvaged items securely stored onsite at Mt Owenmine as below:

- a) Information from each artefact will be stored in a full catalogue, including photographic records;
- b) The catalogue will be kept in printed form with the stored artefacts and in an electronic database containing all records;
- c) All stone artefacts must be either individually bagged or bagged in appropriate and identifiable units (e.g. excavation or collection units) that can be referenced back to the catalogue;
- d) The stone artefacts are to be stored in good quality, double-bagged plastic zip-lock bags;
- e) The bags will be externally labelled using permanent marker, and an 'independent' label on robust material written with permanent marker must be placed inside each bag; and
- f) The collection will be securely stored in an impervious container.

As of April 2024, MGO has been in the process of transferring previously salvaged heritage items from Umwelt to WBCAA teaching and keeping place.

5.3.7.3 Wollombi Brook Plan of Management Consultation Procedure

In accordance with MOCO MOD 2 Schedule 3 Condition 34c and Schedule 2 Condition 17, the ACHWG and RAPs will be given the opportunity to comment on the draft Plan of Management for the WBCAA teaching and keeping place. Consultation will continue in the form of biannual updates, discussions at the ACHWG meetings, and regular meetings held at Bulga.

5.4 Site Monitoring

Site monitoring shall take two forms:

- a) Photographic monitoring shall be undertaken at up to 10 representative sites within the ACHMP boundary with more than 10 artefacts in the non-impact area; and
- b) Site condition monitoring will be undertaken quarterly with the aim to visit each site within a year.

A site included in the photographic monitoring group could also be in the site condition monitoring group if it is assessed that annual visits would be advantageous to maintain the site's condition.

Should any site included in either monitoring program be assessed as not requiring further monitoring, it can be substituted for another site.

5.4.1 Photographic Monitoring

The objectives of photographic monitoring are to:

- a) Document land condition prior to management measures;
- b) Measure effects of erosion;
- c) Measure efficacy of land management measures to mitigate erosion; and
- d) Document Aboriginal site condition over time.

Photographic monitoring will entail:

- a) Taking photographs from at least two fixed locations at each site at least every three years;
- b) Placing permanent photo points (such as a star picket with signage) at all photographic monitoring sites;
- c) All photographs will include a range pole placed approximately 10 m from the camera to create a scaled reference point. If topography or vegetation does not allow the range pole to be placed 10 m from the camera, a shorter distance can be used but this will be noted in the report and replicated during the next photographic monitoring program;
- d) Photographs will be taken in high definition with images stored in digital form at MGO in association with this Plan;
- e) The results and recommendations of the photographic monitoring shall be presented in a monitoring report and a summary included in the annual review; and
- f) Colour printouts will be available to interested Aboriginal parties on request for review as to the efficacy of land management measures in relation to Aboriginal heritage.

5.4.2 Site Condition Monitoring

The objectives of site condition monitoring are to:

- a) Measure efficacy of land management measures to mitigate erosion; and
- b) Document Aboriginal site condition over time.

The site condition monitoring program will entail:

- a) Visiting a roster of sites annually to identify impacts, recommend mechanisms to avoid impact and/or maintain, where appropriate, any preventive erosion mechanisms at the site;
- b) Assessing the efficacy of any erosion control measures; and
- c) Maintaining a photographic and written record of each site and presenting the results and recommendations in a monitoring report.

6. Detailed Procedures

6.1 Discovery of Aboriginal Ancestral Remains

In the event known or suspected Aboriginal skeletal remains are encountered at the MGO, the following procedure will be followed:

- a) All work close to the find will cease immediately and an area of 10 m radius around the find will be cordoned off with temporary construction fencing;
- b) The find will be immediately reported to the work supervisor who will immediately advise the E&C Manager or another nominated senior staff member;
- c) MGO will promptly notify the police (as required for all human remains discoveries);
- d) MGO will contact HNSW for advice on identification of the skeletal material as Aboriginal and management of the material; and
- e) If the remains are Aboriginal ancestral remains, the RAPs will be contacted within two working days and consultative arrangements will be made to discuss ongoing care of the remains, including advice on recommended forensic anthropologists.

6.2 Discovery of Unrecorded Aboriginal Sites

In the event of discovery of unrecorded Aboriginal sites which are more than 50 m from previously recorded boundaries of Aboriginal sites, all work close to the discovery will cease and an area of 10 m around the site fenced with temporary construction fencing. An archaeologist and members of the RAPs will be contacted to determine the significance of the Aboriginal object(s) present. Newly recorded sites will be registered in the AHIMS register (see **Section 7.2.1.1**).

6.2.1 Newly Recorded Sites within Impact Areas

Any newly identified Aboriginal site within approved disturbance areas will be temporarily fenced⁸ as quickly as possible. Signage on the fencing is to state that the area is subject to environmental protection, where no ground disturbance is allowed, and will include relevant contact details for MGO E&C department. The minor impact to the ground surface during installation of fence posts is permissible on condition that no soil is to be removed off site. The following procedure will be implemented for any newly identified sites:

- a) The personnel who encountered the site will contact the MGO E&C Manager immediately;
- b) The site will be assessed by a qualified archaeologist and members of the RAPs;
- c) The site will be temporarily fenced (see **Section 5.2**);
- d) The site location will be registered with AHIMS and a site card submitted;
- e) The site location will be entered on to the GIS heritage database;
- f) Depending on the Aboriginal cultural heritage values at the site and the degree of immediate threat to the site, the site will be salvaged according to the methodology in this Plan (**Section 6.2.1.1** and **6.2.1.2**);

⁸ A temporary fence will consist of 3-4 star pickets with caution tape strung between the star pickets.

- g) A brief report of the salvage will be produced to record the findings;
- h) On the completion of salvage at such sites, an AHIMS *Aboriginal Site Impact Recording Form* (ASIRF) will be completed (see **Section 7.2.1.3**). Copies of the forms will be archived. Digital copies will be submitted to the AHIMS Registrar soon after completion of salvage fieldwork. The form will be lodged within a reasonable time of fieldwork completion and certainly within six months; and
- i) All artefacts salvaged will be stored at the WBCAA teaching and keeping place (**Section 5.3.7**).

6.2.1.1 Group 1: Surface Artefact Collection

This category includes sites where surface artefacts are identified but where sub-surface archaeological deposits are considered unlikely.

Detailed recording and collection of surface artefacts would be the primary management approach for sites in this category. All sites in this group would have a low scientific value and only limited further investigation is considered necessary.

In the cases where sites may partially overlap with the approved disturbance area, surface collection will be confined to the impact footprint with a five metre (m) buffer.

The following methodology will apply to all Group 1 sites:

- a) All visible artefacts at a site will be flagged in the field;
- b) The site will be photographed after flagging and before recording;
- c) All artefacts will have the following artefact information recorded:
 - location
 - artefact type
 - size
 - reduction level
 - raw material
 - notes.
- d) A selection of indicative and / or unusual artefacts from each site will be photographed;
- e) Once all recording is complete, the artefacts will be collected and relocated to the WBCAA teaching and keeping place (see **Section 5.3.7**);
- f) Should a human burial be encountered, all work will cease in the area and advice from the police (in the first instance) and HNSW/RAPs (should the remains be Aboriginal) sought (see **Section 6.1**);
- g) The recording of the artefacts recovered will largely be completed in the field and this data would be incorporated into a report to be produced in a timely manner subsequent to the surface collection; and
- h) The supervising archaeologist would be responsible for submitting an ASIRF to the AHIMS to update the register with the results of the salvage works.

6.2.1.2 Group 2: Limited Salvage Excavation

In rare cases where a significant site with suspected subsurface deposits is at risk of destruction, Group 2 management will be applied to the site. Group 2 sites would have a moderate or high scientific significance.

Limited salvage excavation will be undertaken by manual means.

The manual excavation at these locations will follow the following framework.

The following research aim and design will govern the manual excavation at these locations:

- **Research Aim:** Are there either subsurface artefacts or intact archaeological deposits at the location?
- **Action:** To conduct targeted, limited archaeological excavations at the site.
- **Research Design:** Up to eight 0.5 m by 0.5 m excavation squares will be excavated at any one location. The excavation squares could be grouped to maximise information in one area or spaced out to maximise cover. If spread out, it is recommended that pairs of 0.5 m by 0.5 m squares are excavated together to gain a meaningful sample from any area. These squares, in 0.5 m by 0.5 m increments, could be expanded if finds or deposits indicate that it would be advantageous. Spits at each area would start in five centimetre (cm) increments although 10 cm increments could be used once it is established it is archaeologically prudent to do so and all deposits will be dry sieved at location. Should the excavations encounter a human burial, all work will cease in the area and advice from authorities and RAPs (should the remains be Aboriginal) sought (see **Section 6.1**). All excavated material (stone tools, bone, shell etc) will be fully analysed and a report of the findings prepared.

6.2.2 Newly Recorded Sites Outside of Impact Areas

Any new Aboriginal site identified outside the approved disturbance areas will be managed in accordance with the following procedure:

- a) the site will be assessed by a qualified archaeologist and members of the RAPs;
- b) the site will be considered for fencing and signage;
- c) the site location will be registered with AHIMS and a site card submitted;
- d) the site location will be entered on to the GIS heritage database;
- e) if the site contains Aboriginal objects of interest such as a large number of artefacts or rare features such as a hearth that is located in an area of active and destructive erosion, the site may be subject to limited salvage excavation in accordance with the methodology set out in **Section 6.2.1.2**. The aim of any salvage undertaken in this instance would be to prevent the loss of information from ongoing erosion and will only be undertaken in extreme and obvious circumstances with the full consultation and participation of the RAPs;
- f) on the completion of salvage at such sites, an AHIMS ASIRF will be completed (see **Section 7.2.1.3**). Copies of the forms will be archived. Digital copies will be submitted to the AHIMS Registrar soon after completion of salvage fieldwork. The form will be lodged within six months from the completion of fieldwork; and
- g) outside of emergency situations as set out above, any impact to sites outside of the approved disturbance area will require an Aboriginal Heritage Impact Permit (AHIP).

6.3 Managing Impact to Sites Outside of Impact Areas

Proposed impact by mining or related activities to any site outside of the approved disturbance areas, other than the rescue salvage described in **Section 6.2.2 (e)**, will require an AHIP to be obtained from the HNSW.

6.3.1 AHIMS Site #37-3-0687

AHIMS Site 37-3-0687 (MC7) is located on the eastern boundary of the Mt Owen Mine pit shell. The site is located outside of SSD-5850 and will not be salvaged unless separate approval is obtained.

Within 3 months of approval, in accordance with Schedule 3 Condition 34(C) of SSD 5850 and in consultation with RAPs, MGO will review the requirements to fence, sign, and ensure no erosional impacts to 37-3-0687.

37-3-0687 will be included in the site annual monitoring program which also allows RAPs to define if further management and preservation works are required over time. (**Section 5.4.2**).

6.3.2 Archaeologically Sensitive Areas

OzArk was engaged in 2015 by MGO to complete an archaeological Due Diligence assessment of a power line relocation (Glendell Mine MOD 3, Hansen Bailey 2016).

The assessment identified eight archaeologically sensitive areas. The general location of the sensitive areas is shown on **Figure 2-2**.

Due to the absence of visible surface artefacts, an assessment of the archaeological significance of the area was made based on landscape features and existing disturbance. The areas were classified as 'Sensitive Areas' rather than 'known Aboriginal sites'.

These areas have no statutory protection and are not registered with AHIMS. However, the location of these archaeologically sensitive areas will be considered with future development plans and all efforts made to avoid these areas. If an artefact happens to be present and is disturbed, penalties may be incurred as per Section 5 of the NPW Act.

Should impacts to these areas be proposed, the location of the impacts will be inspected by a suitably qualified archaeologist and a Due Diligence assessment will be undertaken.

6.4 Managing Impact to Sites Inside of Impact Areas

All sites previously recorded under DA 80/952 and MOCO SSD-5850 located within approved impact areas have been salvaged.

Two artefacts from Bowmans Creek 17, three artefacts from Bowmans Creek 18, and two isolated finds ROC IF-1 and ROC IF-2 will be salvaged as Group 1 sites in accordance with MOCO MOD 6 approval. Recording and collection of artefacts will be undertaken in accordance with the procedures detailed in **Section 6.2.1.1**.

In addition, as the landform containing Bowmans Creek 17 has potential to contain subsurface Aboriginal objects, the area shown as the 'Bowmans Creek 17 Management Zone (refer to **Figure 3.1**) should:

- a) Be impacted as little as possible. This includes grading the surface or otherwise creating a ground surface impact; and
- b) If a gravel bed is required for the access track, geofabric should be placed on the ground surface prior to placing gravel on top of the geofabric.

6.5 Incident Controls

All incident investigations relating to Aboriginal cultural heritage will be undertaken in accordance with the *MGO Hazard and Incident Management Procedure* and *GCAA HSEC Standard 6.0 Incident* (or its latest revision). The following measures are to be put in place if there is an unintentional impact to Aboriginal heritage items occurring from the MGO operation. These include:

- a) The person who disturbed a site/artefact will contact the MGO E&C Manager immediately;
- b) The MGO E&C Manager or delegate will visit the site of the disturbance and record the disturbance with photographs;
- c) The MGO E&C Manager will correspond with the HNSW regarding disturbance as soon as is possible;

Direction from the HNSW will be followed; and

- d) An investigation will be commenced to determine the cause of the event in accordance with MGO procedures and GCAA Standard 6.0 incident.

6.5.1 Stakeholder Notification

In the event of a cultural heritage incident, MGO will engage with relevant community stakeholders including members of the Aboriginal Cultural Heritage Working Group (ACHWG) and Registered Aboriginal Parties (RAPs). MGO will provide these stakeholders with information on management actions to be implemented relating to any cultural heritage incident.

Relevant stakeholders will be consulted in regards to appropriate remedial actions and MGO will follow the guidance of these stakeholders in the case of an incident occurring. This process will be managed by the MGO E&C Manager.

6.5.2 Incident Review

MGO will also undertake regular reviews of cultural heritage incidents to prevent reoccurrence and to identify trends relating to cultural heritage incidents.

Following an incident, and if needed the MGO E&C team will share the lessons learned with relevant internal stakeholders. The aim of this exercise will be to prevent reoccurrence of future incidents and to gain insight into possible improvements that can be made proactively.

6.5.3 Incident Records and Reporting

In accordance with the *GCAA HSEC and HR Standard 6.0 Incident*, MGO will aggregate data and contribute, as required, to overall Group-level data collection and public disclosure and reporting requirements (eg, via Monthly Status reporting or similar).

6.5.4 Cultural Heritage Risk

In accordance with MGO Environmental Management Strategy (*MGOOC-1779562647-11191*) cumulative impacts from external activities adjacent to the site or within MGO are considered when assessing cultural heritage risk. Cultural heritage risk assessments are done in accordance with GCAA Risk Management Standard (*GCAA-625378177-2844*), where MGO has adopted various risk assessment methodologies, each dependent on the type of activity undertaken relating to cultural heritage. Cultural heritage risks and opportunities are also reviewed annually as a component of MGO Environment and Community Risk Assessment (ECRA).

7. Record Keeping and Reporting Requirements

7.1 Project Records

Copies of all project records will be kept at a secure location at MGO.

Project records include:

- a) this Plan;
- b) The GIS heritage database;
- c) field recording forms (if available);
- d) maps showing site location;
- e) excavation plans (if available); and
- f) Aboriginal site salvage database files in digital and hard copy for reports.

7.2 Statutory Reporting Requirements

7.2.1.1 Discovery of Aboriginal Objects

Under s89A of the NPW Act, it is a requirement that HNSW is notified of the existence of Aboriginal objects as soon as practicable after they are first identified. This is usually done through the completion of an Aboriginal site card which is submitted to the Registrar of the AHIMS for inclusion on the Aboriginal sites register. Information regarding AHIMS and site recording forms can be downloaded from the HNSW website⁹.

7.2.1.2 Care Agreement Application

Under s85A of the NPW Act Aboriginal objects remain the property, and under the protection of, the Crown until formal transfer to an Aboriginal owner or Aboriginal owners occurs. An application for a

⁹ <https://www.heritage.nsw.gov.au/protecting-our-heritage/record-aboriginal-sites/>

Care Agreement will be made to HNSW. Care Agreement application forms can be downloaded from the HNSW website¹⁰.

7.2.1.3 Reporting Impact to Aboriginal Sites

Although not strictly required by the NPW Act, HNSW expects that information on authorised impacts to Aboriginal sites be reported to them on ASIRF which can be downloaded from the HNSW website¹¹.

7.2.1.4 Reporting of ACHMP Non-compliance Incident

Should any Aboriginal cultural heritage site or area be impacted by works not authorised as described in this Plan, MGO will report the non-compliance or potential non-compliance to the HNSW as soon as practicable after identifying the incident. This report will include a description of the incident, its circumstances and the corrective measures undertaken.

¹⁰ <https://www.heritage.nsw.gov.au/protecting-our-heritage/care-agreements/>

¹¹ <https://www.environment.nsw.gov.au/resources/cultureheritage/aboriginal-site-impact-recording-form-120558.pdf>

8. Review and Improvement

8.1 Plan Review

This Plan will be reviewed in accordance with the MGO Environmental Management Framework that is within three months of:

- a) The submission of an incident report related to cultural heritage management;
- b) The submission of the Annual Review;
- c) The submission of an Independent Audit Report; and
- d) Any modification to the relevant conditions of the consent for either Mt Owen or Glendell Mine.

Furthermore, changes may be made to this Plan where new Aboriginal sites are discovered which require specific management approaches proportionate to their cultural significance and which are not otherwise covered in this Plan.

Where changes are made to the Plan, a draft of the modified Plan will be subject to Aboriginal consultation in accordance with the Plan. Matters raised in consultation which are specific to the changes in the Plan may be acknowledged and addressed in the modified Plan.

9. Completed MGO ACHMP Commitments

The ongoing / outstanding commitments regarding Aboriginal cultural heritage undertaken by MGO are presented in **Table 1-2** those commitments which have been completed are located below in **Table 9-1**.

Table 9-1 – Completed MGO ACHMP Commitments

No.	Completed Commitment	Relevant Section of Plan	Comments
Mt Owen On-Site Management Measures			
R01	Update ACHMP The ACHMP will include a staged approach to the required research and salvage works to ensure that areas required for construction are completed as a priority.		All applicable MOCO salvage has been completed. Salvage associated with MOCO MOD 2 and Glendell MOD 4 will be completed prior to any activity associated with the modifications.
R02	Heritage Management Protocols MGO shall consult with the Registered Aboriginal Parties (RAPs) on matters raised in the MOCO Aboriginal Cultural Heritage Assessment Report (ACHAR), in order to better understand where there may be changes or improvements to existing cultural heritage management mechanisms and protocols.	Section 3.4	RAP consultation is ongoing through the ACHWG, annual open days, quarterly monitoring, and this Plan.
R03	Consultation in ACHMP Management Measures Encourage active participation of all RAPs to inform the stages of Aboriginal cultural heritage management; which will include participation in the development, implementation and review of Aboriginal Cultural Heritage management measures. Seek to establish an Aboriginal Cultural Heritage Working Group (ACHWG) within 6 months of Project approval to include representatives of Traditional Owner groups, the RAPs and the Wanaruah Local Aboriginal Land Council.	Section Error! Reference source not found., Appendix D	The ACHWG has been established
R04	Bi Annual Work Group Site Meetings Seek to establish a regular meeting for engaging with the RAPs through the ACHWG, to discuss Project status and cultural heritage matters and intergenerational equity outcomes related to the Project. The meeting will	Section 1.4.2.1 Appendix D	Meetings have been established. Biannual work group site meetings are held at MGO.

No.	Completed Commitment	Relevant Section of Plan	Comments
	include an opportunity to Walk on Country. The meetings shall consider the inclusion of a process for monitoring and measurement, including the ongoing recording and reporting on Aboriginal cultural heritage conservation outcomes.		
R05	ACHMP Dispute Resolution Process The ACHMP will include specific provisions regarding ongoing engagement with the RAPs and would include mechanisms for dispute resolution and communication protocols.	<i>Section 1.5</i>	This Plan provides specific provisions for ongoing engagement including dispute resolution and communication protocols.
R06	Recognition of Cultural Values in Site Induction Material MGO will revise its onsite induction program within 12 months of MOCO Project approval being granted to include material to raise awareness of Aboriginal cultural values of the ACHMP Area and local area more generally. The induction material will positively message the Aboriginal cultural heritage values of the area. The induction materials and content has been developed in consultation with the ACHWG.	<i>Section 4.1.3.1</i>	The induction material has been revised in consultation with the ACHWG.
R07	Survey, Collection and Analysis Salvage (excavation, analysis and collection) as per the recommendations of the MOCO ACHAR of the sites to be harmed within the MOCO Project Disturbance Area.		All applicable salvage associated with the MOCO has been completed. Salvage associated with MOCO MOD 2 and Glendell MOD 4 will be completed prior to any activity associated with the modifications.
R08	Discovery of previously unknown cultural heritage items MGO agrees to follow all relevant NSW Government guidelines regarding the location of human skeletal remains. MGO will apply the precautionary principle to the development of management measures for the MOCO Project Disturbance Area. This approach will include the development of culturally appropriate management measures for the	<i>Section 6.2</i>	This is a general NSW Government requirement and the protocol is addressed in the ACHMP.

No.	Completed Commitment	Relevant Section of Plan	Comments
	management of human remains, should this occur during the MOCO Project life. Protocols and approach will be developed in consultation with RAPs and updated in the revised ACHMP (this Plan).		
R09	Recording of Archaeological Sites Sites identified in the Mount Owen ACHAR have been recorded on site cards and submitted to OEH. The ACHMP will include the new sites identified in the MOCO ACHAR.	<i>Appendix F</i>	All sites recorded in the MOCO ACHAR have been registered with the AHIMS register and on the GIS heritage database.
R10	Care Measures regarding Aboriginal Objects Care management measures will be developed and included in the ACHMP for Aboriginal objects recovered through the salvage program and long-term storage of artefacts recovered from previous salvage programs. Care management measures will include provision for: Interim storage during research and salvage program; Artefact analysis as recommended in the MOCO ACHAR; and Development of a long-term Care strategy – building of an artefact storage facility at the Yorks Creek Voluntary Conservation Area (VCA).	<i>Section 5.3.7</i>	Care measures have been developed and are addressed in this Plan.
R13	Sites not to be Impacted MGO will implement the Aboriginal archaeological management measures program for sites in the ACHMP Area that will not be impacted by the Project as recommended in the ACHAR for the MOCO Project. During construction there will be protective fencing of the sites outside the project disturbance envelope that were identified by the OzArk <i>Aboriginal Archaeological Values Assessment</i> .	<i>Section 5</i>	This has been completed.
R15	Research and Management Program MGO will support a project to study the archaeological values in areas that are outside of the current proposed	<i>Section 3.4.3</i>	MGO supports the research and management program.

No.	Completed Commitment	Relevant Section of Plan	Comments
	Disturbance Area but located within the ACHMP Area. Such a study would focus on the AHIMS registered sites in the ACHMP Area and involve survey to ground truth the location and condition of all previously recorded sites. The aim of this survey would be to recommend procedures to ensure that these sites are preserved in the landscape. In most cases, this preservation would involve fencing and signage (if not already in place), although if erosion threatens a site, broader erosion controls / sandbagging of banks etc may be needed to ensure the site's preservation. MGO will commit funding to review and monitor these sites, including and remediation activities.		This is ongoing, occurring on a quarterly basis throughout MGO.
Glendell On-Site Management Measures			
2.1.7	The Applicant will implement identified management measures to avoid potential impacts to Aboriginal heritage sites MOCO OS-10 and Sensitive Areas 1 to 6 during MOD 3 activities.		All Glendell Mine MOD 3 construction activities have been completed
2.1.8	Should any unidentified Aboriginal archaeological sites be located during operations, the procedures of the approved ACHMP and the 'Unanticipated Finds Protocol' will be followed.	<i>Section 6</i>	This is a general requirement. The 'Unanticipated Finds Protocol' has addressed in the ACHMP.
Off-Site Management Measures			
R17	Bowmans Creek Bridge Construction Protocol The ACHAR for the MOCO Project identified that some knowledge holder groups believe that Bowmans Creek has significant cultural values and is believed to form a regional song line. MGO's bridge design shall span the low flow channel of Bowmans Creek. MGO will consult with the ACHWG on appropriate and practical cultural protocols to be adopted during the construction of the bridge, piers and other infrastructure in this area.		This has been addressed with the ACHWG. No specific ACHMP policies pertain to this commitment that will be managed between MGO and the ACHWG
R20	3D Scan Bowmans Creek		This has been addressed with the ACHWG.

No.	Completed Commitment	Relevant Section of Plan	Comments
	MGO will undertake a 3D scan of area of the high significance identified in the ACHAR. MGO in consultation with the RAPs shall review and recommend the scan area.		The area was determined to be located at Ravensworth Operations. No specific ACHMP policies pertain to this commitment that will be managed between MGO and the ACHWG.
R21	Naming of Infrastructure MGO will consult with the RAPs and other stakeholders including Singleton Council in the naming of infrastructure works on Hebden Road and Bowmans Creek. MGO supports the naming of the expanded Bowmans Creek Bridge on Hebden Road to reflect the cultural importance of the area and reflecting traditional Aboriginal names from the area.	<i>Section 1.4.2.1</i>	This has been addressed with the ACHWG.
R23	Bettys Creek The portion of Bettys Creek that lies within the existing Bettys Creek Habitat Management Area is managed by Glendell Mine pursuant to the existing development consent.	<i>Section 3.2.1.3</i>	
R24	Potential Grave Site Subsequent to preparation of the MOCO ACHAR, the NSW police investigated the potential grave site. The police investigation concluded that 'There does not appear to be any disturbance in the soil or any other items located to suggest this area is a grave site' (NSW Police Force Forensic Services Group 2014). Based on these investigation conclusions that the site is not a grave, this recommendation does not form part of the management measures in this ACHMP.		Not applicable
R25	Cultural Site Conservation In the non-disclosed reports, the relevant Knowledge Holders have indicated that there are areas of high cultural value located in the vicinity of MGO but are outside the ACHMP Area. Mount Owen will engage in consultation with the relevant Knowledge Holders		MGO has engaged with the relevant Knowledge Holders. No specific ACHMP policies pertain to this commitment that will be managed between MGO and the ACHWG.

No.	Completed Commitment	Relevant Section of Plan	Comments
	regarding these areas to determine appropriate management and / or conservation outcomes.		
Modification 1 Environmental Assessment Commitments			
R33	Off-site Fencing Fencing will be established around 37-3-1173, 37-3-0294 & 37-3-1193 in associated with the construction of the Integra Underground water pipeline.		Completed. No specific ACHMP policies pertain to this commitment.
Mount Owen Modification 2 Environmental Assessment Commitments			
MOD 2 R3	Aboriginal Cultural Heritage - The Aboriginal Cultural Heritage Management Plan should be updated to include mitigation of all Aboriginal sites within the proposed Modification 2 Boundary. OEH ¹² recommends that on approval of the proposed modification the consent issued includes a consent condition that the Aboriginal Cultural Heritage Management Plan for Mount Owen Open Cut (OzArk 2018) ¹³ be updated to include mitigation of any Aboriginal sites within the MOD 2 Boundary	Refer to SSD-5850, Schedule 3 Condition 34. Figure 1, 2 and 3 <i>Appendix C</i>	ACHMP updated and submitted to the Secretary
MOD 2 R4	Aboriginal Cultural Heritage - AHIMS Site #37-3-1172 (MOCO-IF3) will be harmed by the proposed modification and requires collection under the Aboriginal Cultural Heritage Management Plan OEH recommends that any consent issued for the proposed modification includes a consent condition that provides for Aboriginal objects at AHIMS Site #37-2-1172 (MOCO-IF3) to be collected prior to ground surface disturbance works in accordance with the Aboriginal Cultural Heritage Management Plan for Mount Owen Open Cut (OzArk 2018).	<i>Section 6.4</i> Action to Salvage prior to disturbance	Salvage Site #37-3-1172 (MOCO IF-3) has been salvaged (prior to MOCO MOD 2 disturbance)
Glendell Modification 4 Environmental Assessment Commitments			
RTS R1	The Mount Owen Complex ACHMP should be updated to include the management recommendations contained in this report.	<i>Section 12.4</i>	ACHMP updated in consultation with RAPs and submitted to the Secretary

¹² The Office of Environment and Heritage (OEH) is nor HNSW.

¹³ Now the MGO ACHMP.

No.	Completed Commitment	Relevant Section of Plan	Comments
	To update the ACHMP, consultation with the Aboriginal community is required as set out in Section 8.1 of the Mount Owen Complex ACHMP ¹⁴ .		
RTS R2	The updated ACHMP should stipulate that the recording and collection of surface artefacts occur at three sites: Swamp Creek OS1 (37-3-1499); Glendell North OS28 (37-3-1508); and Glendell North OS31 (37-3-1545). The collection of surface artefacts should follow the procedure set out in the Mount Owen Complex ACHMP Section 6.2.1.1.	<i>Section 6.4</i>	Glendell North OS28; and portions of Swamp Creek OS1; and Glendell North OS31, have been salvaged (prior to Glendell MOD 4 disturbance)
RTS R3	Only the portions of Swamp Creek OS1 (37-3-1499) and Glendell North OS31 (37-3-1545) within the Proposed Disturbance Area should be subject to the collection of surface artefacts.	<i>Section 6.4</i>	Portions of Swamp Creek OS1 and Glendell North OS31 have been salvaged (prior to Glendell MOD 4 disturbance)
RTS R4	The portions of Swamp Creek OS1 (37-3-1499) and Glendell North OS31 (37-3-1545) outside of the Proposed Disturbance Area should be fenced to ensure they are conserved within the landscape.	<i>Section 5.2.2.1</i>	Sites Swamp Creek OS1 and Glendell North OS31 have been individually fenced

¹⁴ Now MGO ACHMP.

10. Accountabilities

Table 10-1 outlines the accountabilities associated with this Plan.

Table 10-1 – Accountabilities

Role	Accountabilities for this document
Operations Manager	Approve the Aboriginal Cultural Heritage Management Plan. Provide adequate resources for the implementation of this Plan.
E&C Manager	Implement the Aboriginal Cultural Heritage Management Plan. Include any actions undertaken in the Annual Review report. Coordinate relevant specialist personnel to conduct salvage as specified in the Plan. Ensure inclusion of Aboriginal heritage in worker inductions through delivery or input to induction documents. Distribute copies of this Plan as required. Maintain records of Aboriginal consultation and past ACHMPs. Arrange for review of the Plan as set out in Section 8.1 .
E&C Coordinator / Officer	Assist the E&C Manager as required in implementation of this Plan.
All personnel	Report all potential sites and incidents.

11. Definitions

The following terms have been used in this Plan and are detailed in **Table 11-1**.

Table 11-1 – Archaeological definitions

Term	Definition
Aboriginal heritage	Those aspects of Aboriginal culture that are inherited from the past may be referred to as Aboriginal heritage. For the purpose of this Plan the term is used to collectively refer to Aboriginal sites and archaeologically sensitive areas.
Aboriginal object	A physical manifestation of past Aboriginal activity. The legal term is defined in the National Parks and Wildlife Act 1974 Section 5 as: any deposit, object or material evidence (not being a handicraft made for sale) relating to the Aboriginal habitation of the area that comprises New South Wales, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction, and includes Aboriginal remains. Typical examples include stone artefacts, grinding grooves, Aboriginal rock shelters which by definition include physical evidence of occupation, midden shell, hearths, stone arrangements and other landscape features which derive from past Aboriginal activity.
Aboriginal site	The location where a person in the present day can observe one or more Aboriginal objects. The boundaries of a site are limited to the extent of the observed evidence. A 'site' does not include the inferred extent of unobserved Aboriginal objects (such as archaeological deposit). Different archaeologists can have varying definitions of a 'site' and may use the term to reflect the assumed extent of past Aboriginal activity beyond visible Aboriginal objects. Such use of the term risks defining all of Australia as a single 'site'.
Aboriginal stone artefact	A stone object with morphological features derived from past Aboriginal activity such as intentional fracture, abrasion or impact. Artefacts are distinguished by morphology and context. Typically, flaked stone artefacts are distinguished from naturally broken stone by recognition of clear marginal fracture initiation (typically hertzian/conchoidal or wedging initiation) on highly siliceous stone types which can often be exotic to the area. Care must be taken to distinguish modern broken stone in machine impacted contexts and therefore context must be carefully considered as well as morphology.
ACHMP	Aboriginal Cultural Heritage Management Plan. Describes this document which is a requirement of State Significant Developments (SSDs). An ACHMP both manages impacts to Aboriginal cultural heritage within approved disturbance areas (AHIPs are not required), as well as management of Aboriginal cultural heritage sites and values outside of approved impact areas but within land able to be managed by MGO.
ACHAR	The Aboriginal Cultural Heritage Assessment Report. This report includes the archaeological values assessment and is part of the project EIS. The ACHAR discusses all cultural heritage values of the

Term	Definition
	project area including cultural, scientific, aesthetic, and historical values.
ACHWG	The Mount Owen Complex Aboriginal Cultural Heritage Working Group. See <i>Section 1.4.2.1</i> .
AHIMS	Aboriginal Heritage Information Management System – a computer software system used to manage many aspects of Aboriginal site recording and permitting. AHIMS includes an Aboriginal sites database which can be accessed via an internet portal.
AHIP	Aboriginal Heritage Impact Permit – issued to permit harm to Aboriginal objects under section 90 the NPW Act.
Archaeological deposit	Aboriginal objects occurring within one or more soil strata. The most common form of archaeological deposit relates to the presence of a single conflated layer of Aboriginal stone artefacts worked into the topsoil through bioturbation.
ASIRF	Aboriginal Site Impact Recording Form. A standardised OEH form for recording authorised impacts to Aboriginal sites. Only with a completed ASIRF can a site be listed as ‘destroyed’ on the AHIMS.
Deposit	In archaeology a deposit refers to a discrete unit or layer of soil where artefacts within the one deposit have a high chance of being associated with each other.
DPE	Department of Planning and Environment (formerly DPIE). DPE is the NSW government department responsible for project approval and the administration of this Plan.
EIS	Environmental Impact Statement. This is the document which includes all environmental factors, including heritage, which is used by the government to determine the merits of a particular development proposal.
Grinding grooves	Grinding grooves typically derive from the sharpening of stone hatchet heads on sandstone rock. Grooves appear as elliptical depressions of around 25cm length with smooth bases. Although mostly occurring in association with water to wash the abraded stone dust away from the groove, such sites have been recorded away from water. Narrow grooves or broad abraded areas may occur less commonly and may be derived from spear sharpening or other grinding activities.
HNSW	NSW Heritage within the Department of Premier and Cabinet. HNSW is the government department tasked with managing regulation and compliance associated with the NPW Act.
Isolated find	A single artefact not directly associated with any other artefacts. The origin of an isolated find may be the spot of the loss or the discard of an artefact, however, most commonly they are artefacts that have been dislodged from their original context by erosion or another impact and redeposited elsewhere. As such, isolated finds rarely have a high archaeological value.
Open stone artefact site/stone artefact site	An unenclosed area where Aboriginal stone artefacts occur – typically exposed from a topsoil archaeological deposit by erosion. Typically, the term is used to refer to two or more artefacts although this is an

Term	Definition
	arbitrary distinction. A general 'rule of thumb' boundary definition employed by archaeologists is that artefacts or features more than 50 metres apart are regarded as separate sites; however, there is no theoretical imperative dictating such as rule. (The 50 m separation rule may not have been used consistently in previous site recording).
PAD	Potential Archaeological Deposit. Used to describe a suitable landform for the retention of archaeological deposits where artefacts are not visible on the surface due to low ground surface visibility or other factors. Generally, PADs are test excavated to determine their validity as a site.
RAP	Registered Aboriginal Party.
Salvage	In the face of an impact an appropriate mitigation strategy for archaeological sites is to salvage the site to protect individual artefacts from harm but, more importantly, to record as much information about the site before it is impacted, and the information lost. Salvage can take many forms. In this Plan salvage is limited to the collection and recording of surface artefacts and the archaeological excavation of sites to determine the nature and extent of subsurface deposits.

12. Document Information

12.1 Relevant Legislation

The following legislation is relevant to this Plan:

- *Environmental Planning and Assessment Act 1979; and*
- *National Parks and Wildlife Act 1974.*

12.2 Related Documents

Related documents, listed in **Table 12-1** below, are internal documents directly related to or referenced from this document.

Table 12-1 – Related documents

Number*	Title
GCAA	
625378177-9995	9.0 Human Rights and Our People
625378177-9977	10.0 Community and Stakeholder Engagement
625378177-10266	11.2 Protocol for Aboriginal Cultural Heritage - NSW
CAA HSEC PRO 0002	Ground Disturbance Permit
625378177-9992	6.0 Incident Standard
Mount Owen / Glendell	
MGOOC-1779562647-11191	Environmental Management Framework
MGOOC-899305957-18	Hazard and Incident Management Procedure
SC 0126	Ground Disturbance Permit Training Presentation
GLD SD TRN 0505	Ground Disturbance Permit Process for Task Coordinators Competency
MGOOC-1779562647-11389	Biodiversity and Offset Management Plan

* Latest versions will be used as these documents are updated.

12.3 Reference Information

Reference information, listed in **Table 12-2**, is information that is directly related to the development of this document or referenced from within this document.

Table 12-2 – Reference information

Reference	Title
ACHM 2013	Aboriginal Cultural Heritage Assessment Report and Consultation Records. Mount Owen Continued Operations Project.

Reference	Title
DECCW 2010	Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW.
GSS Environmental 2006	Project Plan for Stages 1 – 3 Yorks Creek Catchment Enhancement Project, Mt Owen Mine, Hunter Valley, NSW.
Hansen Bailey 2016	Glendell Mine 132 Kv Powerline Relocation MOD 3 Environmental Assessment.
Hansen Bailey 2017	Integra to Mount Owen Complex. Water pipeline Modification Environmental Assessment.
James Bailey and Associates 2022	Greater Ravensworth Area Water and Tailings Scheme Modification. Modification Report (MOCO MOD7)
NSW Department of Community Service 2009	Working with Aboriginal people and communities. A practice resource.
OzArk 2013	Aboriginal Archaeological Values Assessment. Mount Owen Continued Operations.
OzArk 2020	Aboriginal cultural heritage & historic heritage assessment report. Mount Owen Continued Operations Modification 6.
Tocomwall 2013	Beginning & Belonging: The traditional, historical & contemporary cultural landscape of the Mount Owen Continued Operations Project Area: A Plains Clans of the Wonnarua Peoples Perspective.
Umwelt 2005	Research Design and Methodology to Accompany a Section 90 Consent Application for Aboriginal Sites within the Glendell Open Cut Mine Project, Singleton, NSW.
Umwelt 2006	Aboriginal Cultural Heritage Management Strategy for the Mt Owen Biodiversity Offset Areas. Report for Xstrata Mt Owen.
Umwelt 2015	Mount Owen Continued Operations Project Environmental Impact Statement
Umwelt 2018a	Mount Owen Continued Operations Project Modification 2 Statement of Environmental Effects
Umwelt 2018b	Modification 4 Statement of Environmental Effects Glendell Mine
Umwelt 2019	Glendell Mine Modification 4 Response to Submissions
Umwelt 2020	Mount Owen Continued Operations Project Modification 6, Modification Report
Umwelt 2021	Mount Owen Continued Operations Project Modification 6, Submissions Report
James Bailey and Associates 2022	Mount Owen Continued Operations Project Modification 7, Modification Report
James Bailey and Associates 2023	Mount Owen Continued Operations Project Modification 7, Submissions Report
James Bailey and Associates 2023	Glendell Mine Modification 5, Modification Report

Reference	Title
James Bailey and Associates 2023	Glendell Mine Modification 5, Submissions Report
James Bailey and Associates 2024	Mount Owen Continued Operations - Modification 9 Modification Report
Wonnarua Nation Aboriginal Corporation 2013	Wonnarua Cultural Heritage Assessment for the Mt Owen Continued Operations Project.
Wonnarua Traditional Custodians 2013	Aboriginal Cultural Heritage Values Assessment, Mt Owen Project.

12.4 Change Information

A summary of the document history is provided in **Table 12-3** below.

Table 12-3 – Change information

Document Number	Version	Date	Author/Owner	Description	DPE Approval
XMO SD PLN 0060	1	November 2016	Glenn Cook Bret Jenkins Shane Scott Vicki McBride ACHWG Ben Churcher, OzArk EHM Office of Environment and Heritage	First plan for SSD-5850, addressing new project requirements for the approval of Mount Owen Continued Operations and incorporating the previous Glendell Aboriginal Cultural Heritage Management Plan (updated for MOD 3).	24/11/2016
XMO SD PLN 0060	2	January 2017	E&C Manager	Update to management strategy for Sensitive Area 6; Minor typographical errors amended in Table 7-1; and Update to Table 7-1 and Figure 7-1 as a result of advice received from Ashton Coal Operations.	29/03/2017
XMO SD PLN 0060	3	October 2017	E&C Manager	Commitment R33 (Table 1-2) has been added to the ACHMP as a requirement of the 2017 Integra to Mount Owen Complex Water Pipeline Modification 1 Environmental Assessment (Hansen Bailey 2017).	17/10/2017

Document Number	Version	Date	Author/Owner	Description	DPE Approval
MGOOC-1779562647-4159	4	November 2017	Document Control	Migration to new SharePoint	
MGOOC-1779562647-4159	5	March 2018	E&C Manager and Commercial Officer	ACHMP revised to: Take into account the completion of all salvage activities associated with SSD-5850; Consider the completion of commitments made during the MOCO approval; To remove reference to the construction of an artefact storage facility at the Yorks Creek VCA; and Document properties on title page updated to reflect correct details of document.	29/05/2018
MGOOC-1779562647-4159	6	November 2019	E&C Department (Officer)	ACHMP revised to: Include provisions following the approval of MOCO MOD 2	Resubmitted for approval as Version 7 (to include MOD 4 revisions)
MGOOC-1779562647-4159	7	March 2020	E&C Department (Officer) Ben Churcher, OzArk EHM	ACHMP revised to: Include provisions following the approval of Glendell MOD 4	2/04/2020
MGOOC-1779562647-4159	8	June 2021	E&C Department (Officer) James Bailey & Associates Ben Churcher, OzArk EHM	ACHMP revisions to include provisions following the approval of MOCO MOD 5 and MOCO MOD 6. This ACHMP was provided to MGO RAPs for review during this period.	18/10/2021

Document Number	Version	Date	Author/Owner	Description	DPE Approval
MGOOC-1779562647-4159	9	October 2023	E&C Manager	ACHMP revisions to include provisions following the approval of MOCO mod 7 and following submission of MGO 2022 Annual review.	03/10/2023
MGOOC-1779562647-4159	10	October 2024	E&C Department	Added reference to MGO Hazard and Incident Management Procedure, GCAA HSEC STD 6.0 Incident and revised to include provisions following the approval of Glendell MOD 5 and Mt Owen Mod 9	20/12/2024
MGOOC-1779562647-4159	11	September 2025	E&C Department	Revised to include changes following the approval of Mt Owen Mod 10	

Appendix A - Endorsement of Appointment of Consultant



**Planning &
Environment**

Planning Services
Resource Assessments & Compliance
Contact: Thomas Watt
Phone: 9274 6375
Email: thomas.watt@planning.nsw.gov.au

Vicki McBride
Approval Manager
Glencore
PO Box 320
SINGLETON NSW 2330

Dear Vicki,

Endorsement of Consultants – Mt Owen Continued Operations Project

I refer to your letter dated 9 November 2016 requesting the Secretary's endorsement of suitably qualified and experienced persons to prepare the Aboriginal Heritage Management Plan (AHMP), as required by condition 34 in Schedule 3 of SSD 5850.

The Secretary is satisfied Mr Ben Churcher and Dr Jodie Benton from OzArk Environmental and Heritage are suitably qualified and experienced persons and has consequently endorsed their appointment to prepare the AHMP.

If you wish to discuss this matter, please contact Thomas Watt on 9274 6375.

Yours sincerely,

A handwritten signature in blue ink that reads 'Howard Reed'.

Howard Reed
Director
Resource Assessments
as nominee of the Secretary

24.11.16

NSW Department of Planning & Environment, GPO Box 39, SYDNEY NSW 2001
www.planning.nsw.gov.au

Appendix B - External Consultation Records

B.1 Email to all RAPs 16th April 2018

Good morning,

The Mt Owen Glendell Operations Aboriginal Cultural Heritage Management Plan (ACHMP) was scheduled for review. As such, we have worked with OzArk Environment and Heritage Management (Ben Churcher) to prepare a Draft Aboriginal Cultural Heritage Management Plan (ACHMP) which now includes the management measures for Yorks Creek.

A copy of the Draft ACHMP and YCMP is attached for your review and comment.

If you choose to make comment, please do so by 23 April 2018.

If you would like to discuss any aspect of the ACHMP, please contact me on 0423 043 919 or Melanie.Dillon@glencore.com.au.

Kind regards,

Melanie Dillon
Environment and Community Officer

Mt Owen Glendell Operations

T: +61 265202622

M:0423043919

E. Melanie.Dillon@glencore.com.au

B.2 Email to all RAPs 20TH April 2018

Good morning,

As discussed below, if you choose to make comment on the Mt Owen Glendell Operations Aboriginal Cultural Heritage Management Plan (ACHMP) please do so by 23 April 2018.

Just a friendly reminder the Aboriginal Cultural Heritage Working Group meeting is scheduled for Thursday 26th April at 10am in the Glendell Training room.

If you require any further information, please feel free to give me a call.

Regards,

Melanie Dillon
Environment and Community Officer

Mt Owen Glendell Operations

T: +61 265202622

M:0423043919

E. Melanie.Dillon@glencore.com.au

B.3 Response from Wonaruah Local Aboriginal Land Council 23rd April 2018

Dear Melanie,

Wanaruah LALC does not at this stage support the Keeping place at the Bulga offset on the Wollombi Brook. There has been no security plan detailed for this facility, nor has there been adequate clarification for its ongoing management and maintenance or how the Aboriginal community will have ongoing access to the resources.

Until such time as these concerns are adequately met Wanaruah LALC will not support the keeping place being in a remote location with limited access and even less security.

GCAA Requirement 1.3.2 (b) Principle 2:

GCAA will work closely with Aboriginal people with a legitimate connection or interest in its mining operations or projects, and other interested stakeholders, to mitigate impacts on Aboriginal cultural heritage;

- Why do the Registered Aboriginal People need to have “a legitimate connection or interest in its mining operations or projects”? Surely it is enough that they have an interest in and connection to the area?

In the paragraph below 1.3.2(g) Glencore Coal Assets Australia acknowledges the right of our community to make free, prior and informed consent. Yet they employ consultants with vested personal interests in the outcomes to deliver on community values reports. I would suggest for Glencore to not be in breach of this clause and possibly GCAA’s own policy (Human Rights and Our Peoples) the Cultural Values report being done by the PCWP will need to be recognised and classed as the PCWP’s personal values statement and one part of a larger document yet to be done for the Upper Hunter Aboriginal Community by an independent consultant not by just one of many vested interest groups.

Section 1.4.1 Consultation:

- Wanaruah LALC will need to see and agree to the GCAA protocol for Aboriginal Heritage NSW and the GCAA Community and Stakeholder Engagement Standard before we would support this Section.

Section 1.4.3.1 Aboriginal Cultural Heritage Working Group (ACHWG).

- Wanaruah LALC does not support the exclusion of any Aboriginal person or Group who wish to be part of the ACHWG. Wanaruah LALC believes these meetings must be open to all interested Aboriginal parties.

Section 1.4.3.2 Access:

- There needs to be a defined process included here acceptable to the Registered Aboriginal Parties before Wanaruah LALC will support this section.

Section 2. Aboriginal Cultural Sites.

- Wanaruah LALC is hesitant to support the claim “the area is located within the traditional country of the Wonnarua people.” Wanaruah LALC believes there is as yet no definitive evidence to support this. This is not to say families and individuals do not have connection to this area but until such time as proven otherwise Wanaruah LALC will not recognise any exclusive or preferential treatment for any individual or family or group of families. Wanaruah LALC would see greater emphasis put on what the Aboriginal community agree on as a whole rather than try to choose one side over another and neither having a definitive answer.

Only some 25km South West of Mount Owen, in 1819 John Howe recorded the area of the Hunter Valley adjacent to Doyle’s Creek as Gummun Kumleroy (or Gummun Comleroy). This generally translates to Smaller or Lesser Kamilaroi.

According to Edward Ogilvie (who resided at Merton near Denman from around 1825 or 26 for 15 or 20 years until he took up his own holdings further north) there were 4 tribes of the Gummun Kumleroy (Lesser Kamilaroi of the Upper Hunter).

These are:

- Marowancal
- Tooloompikilal,
- Gundical
- Paninpikilal

We know the Marowancal were over near Denman (Merton) on the Eastern side of the Hunter River, and the Gundical are believed to be from Gunda (Gundy) and include the Tullong Clan whose country was the catchment of the Coomawidyera (Dartbrook) and Murrain Clans whose country was the catchment of the Pages River (the area between Hecknadiiey (Hecknaduey) and Dilgoor.)

There is mention of a clan from Puen Buen (Scone) in Mitchell’s 1830’s expedition through to lands known as Kumleroy (European corruption of this was Corborn Comleroy generally meaning Greater/ Larger Kamilaroi now known as the Liverpool Plains). The Puen Buen Clan could be (most likely are) part of the Tullong who also lived along the Coomawidyera or they may be a clan in their own right as yet we are still researching this.

Later Authors suggest the Tullong and Murrain were part of the Geawegal people. However the main source of information seems to be from G.W. Rusden who places the Geawegal people inhabiting an area of approximately 30 miles on either side of the Glendon Brook catchment near Singleton.

Sadly from about 1875 (through to the 1980’s) the Colonial government in its migration to federation and independence from England, with the need for evidence to support their making Aboriginal people wards of the state and non-entities in the constitution had scholars conduct “Research” regarding Aboriginal people. If you compare what the settlers had written in the preceding 60 years to these “Scientific Papers”, there is little if any resemblance. Many of these alleged scientific papers are still used and cited today as evidence of Aboriginal People and Cultural practices.

Section 3

- Wanaruah LALC notes there are no defined processes for impacting cultural sites.
- Wanaruah LALC notes there are no defined processes involving community in the protection and management of sites.
- Wanaruah LALC notes there are no defined processes for communication to notify all Registered Aboriginal Parties of “un-intentional impacts /damage” to sites. (We suggest within 48 hours of known impact).

Section 5.3.1 Erosion Control.

- Wanaruah LALC will not support erosion control measures that involve further destruction and impacts to sites and soil profiles or landscaping of creeks and gullies when there are other less invasive measures and methods more suitable for landscape protection.

Section 5.3.4 Weed Control.

- Wanaruah LALC does not advocate or support chemical weed control unless absolutely necessary. Chemicals have a negative effect on microbiological ecosystems which reverberate up the chain. Where possible other methods are to be employed. The Use of Chemical spraying is to be avoided at all costs.

Section 5.5

- Wanaruah LALC does not at this stage support the Keeping place at the Bulga offset on the Wollombi Brook. There has been no security plan detailed for this facility, nor has there been adequate clarification for its ongoing management and maintenance or how the Aboriginal community will have ongoing access to the resources.

Until such time as these concerns are adequately met Wanaruah LALC will not support the keeping place being in a remote location with limited access and even less security.

Yours Truly
Noel Downs
CEO
Wanaruah LALC

B.4 Minutes from the MGO ACHWG meeting 26th April 2018

Ned Stephenson (NS) and Melanie Dillon (MD) provided updates on the changes made to the ACHMP.

Key topics raised:

- Completed commitments had been moved from the commitments table to the Appendix (i.e. completed commitments). Noel Downes (ND) supported this approach.
- Changing the commitment to build an artefact keeping place at the Yorks Creek VCA and changing the location to the Wollombi Brook VCA keeping place was discussed ND raised concerns about the ongoing management of artefacts, particularly the security of the proposed storage facility. ND said the Land Council will support one location as long as it is secure and enables community access.

B.5 ACHMP sit down with Tocomwall Pty Ltd 9th May 2018

Key topics raised:

- Replace section 2.4 Page 19 use Cultural connection report from MGO ACHAR

- Update wording in commitment R26. Remove the use of ownership and land ownership from paragraph.

B.6 Approval email from Planning Development & Environment Department

Hi Ned,

Please find attached a letter approving the revised Aboriginal Heritage Management Plan for the Mt Owen Continued Operations Project (SSD 5850).

Please place a final (untracked) version on your website at your earliest convenience.

Regards

Melissa

Melissa Anderson
Environmental Assessment Officer

Resource Assessments
320 Pitt Street | GPO Box 39 | Sydney NSW 2001
T 02 8275 1392

B.7 Email to RAPs 12th November 2019

Good afternoon,

The Mt Owen Glendell Operations Aboriginal Cultural Heritage Management Plan has been reviewed and updated post Mt Owen Continued Operations Modification 2.

Find attached the draft ACHMP for your review and comment.

Please have comments submitted by COB 27th November 2019.

If you have any further questions, please do not hesitate to give me a call.

Kind regards,

Mel

Melanie Dillon
Environment and Community Officer

Mt Owen Glendell Operations, GLENORE
158 Hebden Rd Ravensworth, 2330
P: +61 02 6520 2622
M: +61 423 043 919
E: melanie.dillon@glencore.com.au
W: www.glencore.com

B.8 Response from Wonnarua Nation Aboriginal Corporation 20th November 2019

Hi Melanie

Received

cheers

Laurie Perry

CEO - Wonnarua Nation Aboriginal Corporation

Ground Floor 254 John St Singleton NSW

PO BOX 3066

Singleton Delivery Centre 2330

Ph : (02) 6571 8595

Fax : (02) 6545 2099

Mob : 0412 593 020

enquiries@wonnarua.org.au

l.perry@optusnet.com.au

www.wonnarua.org.au

- No other responses were received

B.9 Email to all RAPs 29th July 2021

Good afternoon,

The Mt Owen / Glendell Operations Aboriginal Cultural Heritage Management Plan has been reviewed and updated following the approval of Mt Owen Continued Operations Modification 6.

Please find attached the Final Draft ACHMP for your review and comment.

Please have comments submitted to myself by **COB 26th August 2021**.

If you have any further questions please do not hesitate to give me a call.

Kind regards,

Stuart Fredericks

Environment & Community Officer

Mount Owen / Glendell Operations

M: 0417 530 325

P: 02 6520 2633

E: stuart.fredericks@glencore.com.au

B.10 Response from Didge Ngunawal Clan 2nd August 2021

DNC Is happy from our end from your management plan

B.11 Email to all RAPs 24th August 2021

Good morning,

This is a friendly reminder that any comments on the attached MGO Aboriginal Cultural Heritage Plan need to be submitted to myself by COB 26th August 2021. The Plan will then be submitted to the Department of Planning, Industry & Environment (DPIE) for review, including any comments provided by yourselves.

If you have any further questions, please do not hesitate to get in touch.

Kind regards,

Stuart Fredericks
Environment & Community Officer
Mount Owen / Glendell Operations
M: 0417 530 325
P: 02 6520 2633
E: stuart.fredericks@glencore.com.au

B.12 Response from Wonnarua Nation Aboriginal Corporation 24th August 2021

Hi Stuart.

We hope all is well with you guys. First up thanks for the opportunity to respond to this ACHMP. The one concern that we have is last paragraph in 6.3 dealing with managing impacts to sites out side of impact areas. We believe that ASAP at least 2 local Raps and Arch's to investigate any damage etc. Other than that we fully support the ACHMP. Ps All stay safe. Regards Arthur- Kauwul.

B.13 Response from Aboriginal Heritage Regulation Branch – North, Heritage NSW 23rd September 2021



Our reference: DOC21/764077

Mr Stuart Fredericks
Environment and Community Officer
Mt Owen /Glendell Operations, Glencore
stuart.fredericks@glencore.com.au

Advice referred through the Major Project Portal

Dear Stuart

**Re: Post Approval Review of Mount Owen Continued Operations MOD SSD-5850 -
Aboriginal Cultural Heritage Management Plan**

I refer to your correspondence received by Heritage NSW (HNSW) on 1 September 2021, requesting review of the recently updated *MGO Mt Owen/Glendell, Glencore - Aboriginal Cultural Heritage Management Plan (ACHMP)*, dated 31 August 2021.

HNSW understands that the draft ACHMP documents procedures for the management of Aboriginal cultural heritage values within the approval area for the Mount Owen/Glendell Operations (MGO), incorporating Mount Owen Continued Operations (MOCO) SSD-5850 (as modified) and the Glendell Mine DA 80/952. Collectively these areas are referred to in the ACHMP, as the ACHMP Area.

HNSW have reviewed the revised (in draft) ACHMP and acknowledge the inclusion of additional measures to mitigate modification impacts, in alignment with the recommendations listed in the *Mount Owen Continued Operations Project Modification 6 – Modification Report* (Umwelt November 2020) and reiterated in advice from HNSW, 3 December 2020.

HNSW is satisfied that the current version of the ACHMP will adequately manage and mitigate any impacts to Aboriginal cultural heritage values located within the ACHMP Area.

If you have any questions regarding these comments, please contact Rebecca Yit, Archaeologist, at Heritage NSW, on 4927 3244.

Yours sincerely

A handwritten signature in blue ink, appearing to be 'SH'.

Dr Samantha Higgs
Senior Team Leader
Aboriginal Heritage Regulation Branch - North
Heritage NSW

23 September 2021

Level 6, 10 Valentine Ave Parramatta NSW 2150 ■ Locked Bag 5020 Parramatta NSW 2124
P: 02 9873 8500 ■ E: heritagemailbox@environment.nsw.gov.au

B.14 Email to all RAPs 9th October 2024

MGO ACHMP for review

SS

Satinathan, Sonia (Mount Owen Glendell Operations - AU)

To

Cc

Bcc

Moreno, Sebastien (Mount Owen Glendell Operations - AU); Billings, Anthony (Mount Owen Glendell Operations - AU)

'project33@gcaa.in.consultationmanager-preview.com'; 'aga.services@hotmail.com'; 'classic_black_sampson@hotmail.com'; 'alierafrenchttrading@outlook.com'; 'K.Sampson@hotmail.com.au'; 'cacatua4service'; 'Tracey Skene'; 'm-desley@hotmail.com'; 'deckavale@hotmail.com'; 'drm.cm@hotmail.com'; **+28 others**

🗨️

↩️ Reply

↩️ Reply All

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Wed 9/10/2024 2:22 PM

📎

20241009 MGO Aboriginal Cultural Heritage Management Plan_Final draft.pdf

5 MB

Good afternoon,

The Mt Owen / Glendell Operations Aboriginal Cultural Heritage Management Plan has been reviewed and updated following the approval of Mt Owen Continued Operations Modification 9 and Glendell Modification 5.

Please find attached the Final Draft ACHMP for your review and comment.

Please have comments submitted to me by **COB 25th October 2024**.

If you have any further questions, please do not hesitate to give me a call.

Kind regards,
Sonia Satinathan
Environment and Community Officer
Glencore Mt Owen / Glendell Operations
M: +61 484 314 171
E: Sonia.Satinathan@glencore.com.au

Appendix C - Aboriginal Cultural Heritage Management Plan Approval

Department of Planning, Housing & Infrastructure



Our ref: SSD-5850-PA-100

Sebastien Moreno
Environment and Community Manager
Mt Owen Pty Ltd
158 Hebden Road
Ravensworth, NSW, 2330

20/12/2024

Subject: Mount Owen Continued Operations (SSD-5850) - Revised Aboriginal Cultural Heritage Management Plan

Dear Mr Moreno,

I refer to your submission dated 4 November 2024, requesting approval of the revised Mount Owen Glendell Operations (MGO) Aboriginal Cultural Heritage Management Plan (Version 10.0, dated October 2024).

The Department has carefully reviewed the document and is satisfied that it meets the requirements of the relevant conditions of consent for Mount Owen Continued Operations Project (SSD-5850).

Accordingly, as nominee of the Planning Secretary, I approve the MGO Aboriginal Cultural Heritage Management Plan (Version 10.0, dated October 2024).

You are reminded that if there are any inconsistencies between the Plan and the conditions of approval, the conditions prevail. Please ensure you make the document publicly available on the project website at the earliest convenience.

If you wish to discuss the matter further, please contact Kiera Plumridge at kiera.plumridge@dpi.nsw.gov.au.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Jack Turner".

Jack Turner
A/ Team Leader
Resource Assessments

As nominee of the Planning Secretary

4 Parramatta Square, 12 Darcy Street, Parramatta NSW 2150
Locked Bag 5022, Parramatta NSW 2124

www.dphi.nsw.gov.au

1

Appendix D - Mount Owen Glendell Operations Aboriginal Cultural Heritage Working Group

Representative Group	
Mt Owen Glendell Operations	
Operations Manager	
E&C Manager	
E&C Coordinator	
E&C Officer	
E&C Officer	
Wanaruah Local Aboriginal Lands Council	
Representative	
Representative	
Wonnarua Nation	
Representative	
Representative	
Plains Clan of the Wonnarua People	
Representative	
Archaeologist	

Appendix E - Yorks Creek Plan of Management

E.1 Acknowledgement

MGO acknowledges the Wonnarua Knowledge Holders of the area, as well as the wider Wonnarua and Local Aboriginal community.

MGO recognises, values and respects the ongoing cultural responsibilities of Wonnarua people over their traditional Country, and acknowledges the unique and significant contribution made by Aboriginal people and organisations to the local community and to Australia's identity. MGO acknowledges the need to strengthen the voice of Aboriginal people in local decision making and the fundamental right of the Aboriginal community members, including young people, to engage about the matters that are important to their communities. MGO recognises the respected role of Elders and/or Knowledge Holders and the important leadership role they have in guiding current and future generations of Aboriginal communities.

MGO acknowledges that protection and conservation of Aboriginal cultural heritage is important for all Australians. MGO recognises the need to create culturally safe and respectful environments and provide services in a way that demonstrates cultural understanding and ensures Aboriginal people feel recognised and respected. MGO will actively work with Aboriginal people to respond to and address racism should it occur to ensure that the cultural values and human rights of Aboriginal people are respected.

MGO acknowledges the significant social and economic contribution that is provided by the unique skills of people within the Aboriginal community. It will partner with local Aboriginal people to create opportunities for employment and support local economic participation of Aboriginal businesses.

E.2 Purpose

The purpose of the Yorks Creek Plan of Management (PoM) is to provide a framework for the conservation and management of Aboriginal heritage within the Yorks Creek VCA, and more broadly, the Yorks Creek Catchment Enhancement Project (YCCEP) area.

The YCCEP area encompasses the Yorks Creek VCA.

The YCCEP area is located within buffer land, to the west of the Mt Owen Mine It is bound by part of the MGO mining operations to the east and south, and buffer land and biodiversity offset areas to the north, north-west and north-east. (*Figures 1 and 2*).

The Yorks Creek VCA covers 28.5 hectares (ha). The YCCEP area covered approximately 212ha, this has now been reduced to 192 ha as the northern portion overlapped with the Stringybark Creek Habitat Corridor biodiversity offset area.

The YCCEP area covers:

- Lot 13 DP 665120
- Lot 2 DP 730978
- Lot 23 DP 6842
- Lot 2 DP823167
- Lot 12 DP 1017435.

This PoM satisfies:

- conditions 34 (c) and 42 of development approval (DA) SSD-5850
- recommendations R11, R14, and R22 of the MGO ACHMP.

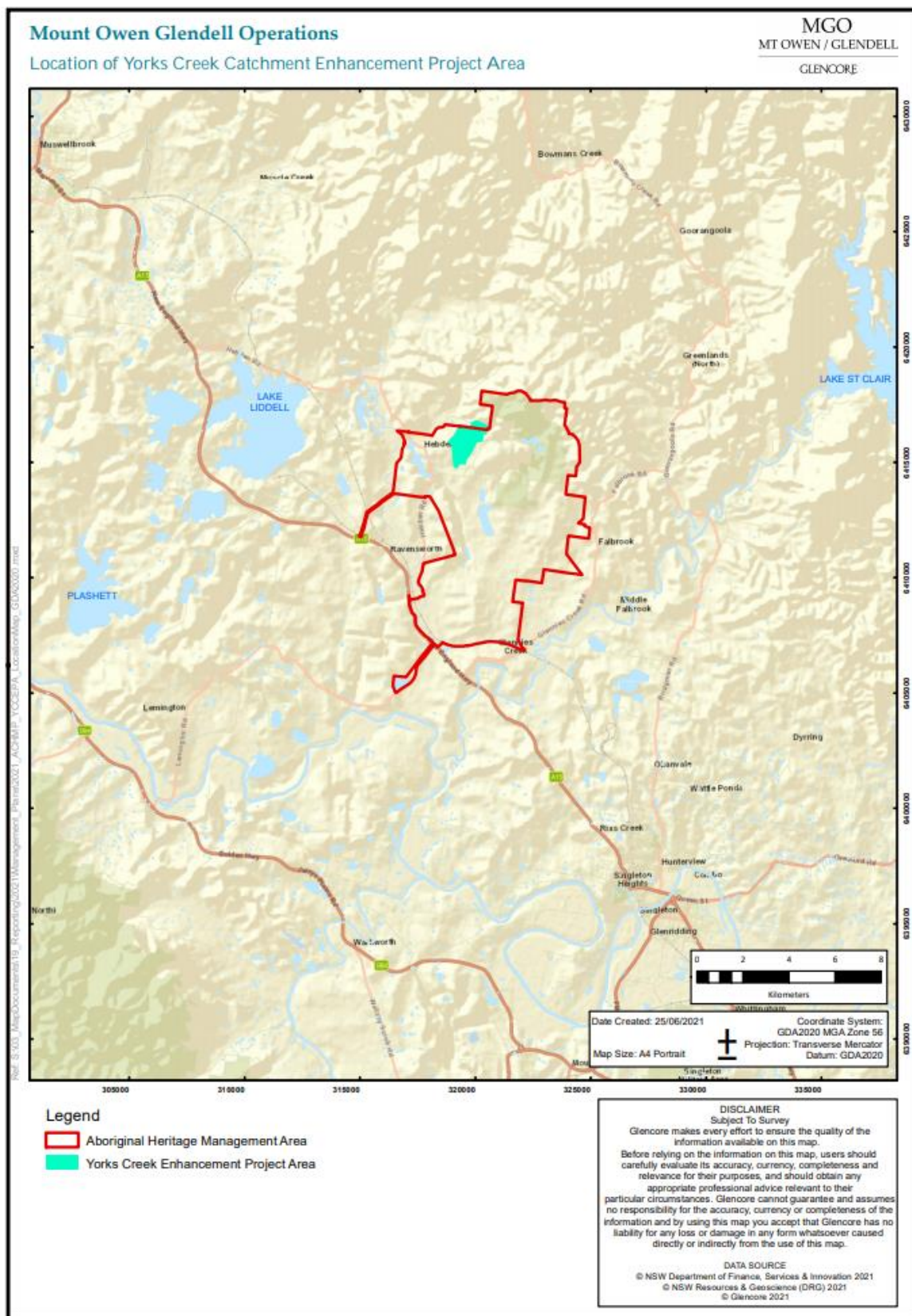


Figure 1– Location of the YCCEP area

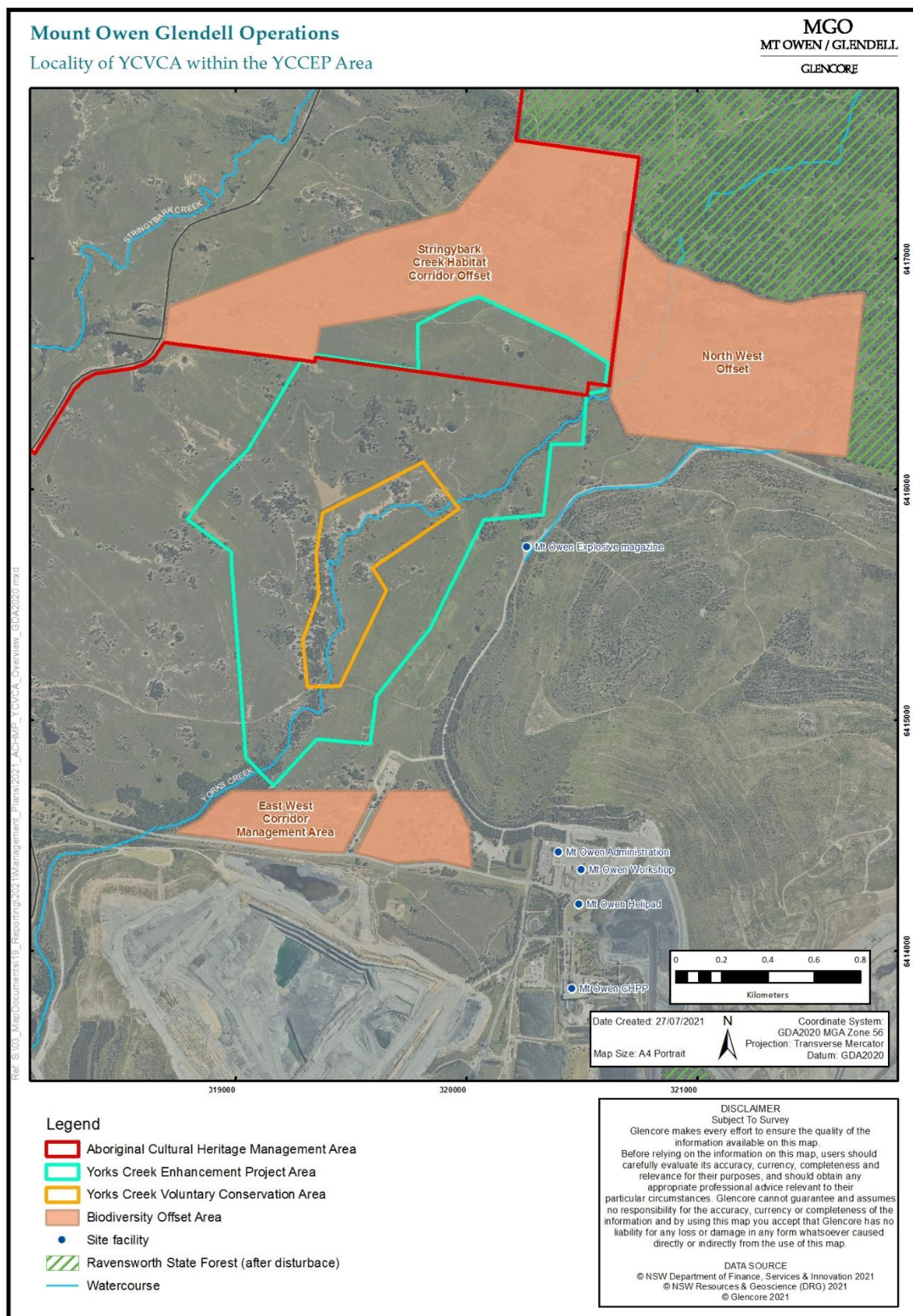


Figure 2 – Location of the Yorks Creek VCA within the YCCEP area

E.3 Scope

The PoM refers to the conservation and management of Aboriginal cultural heritage values and historic heritage values within the YCCEP area. It is to be used in conjunction with the MGO ACHMP.

General management regimes relating to within the YCCEP area are set out in various sections of the MGO Management Plans and will not be duplicated in this PoM:

- Biodiversity and Offset Management Plan (BOMP);
- Water Management Plan (WMP);
- Erosion and Sediment Control Plan (ESCP);
- Surface Water Management Plan (SWMP);
- Surface and Groundwater Response Plan (SWGWRP); and
- Bushfire Emergency Response Poster.

E.4 Background to the Yorks Creek PoM

Sections 3.2.1.1 and 3.2.1.2 of the MGO ACHMP outlines the history of the establishment of the Yorks Creek VCA and the YCCEP area.

E.5 Heritage Values at YCCEP

The YCCEP area is located within the traditional homelands of the Wonnarua and within the modern day Wonnarua Local Aboriginal Land Council boundary. Through the involvement of RAPs and Wonnarua Knowledge Holders who identify a range of connections to both Country and community, and through a number of past heritage investigations, the YCCEP area is understood to contain a range of sites and areas of cultural, historic and aesthetic value, and to contain archaeological sites and features that are of cultural and scientific value.

E.5.1 Aboriginal Cultural Values

The YCCEP area is a place with social, scientific, and aesthetic significance. It has great significance to the local Aboriginal community as a traditional camping area and provides a spiritual continuity with their ancestors.

There is general traditional and historic knowledge about the area, and it is part of a landscape where their people resisted white settlement and fought to keep their culture strong. Within the YCCEP area, Aboriginal people feel grounded, calm and a sense of belonging, giving the place's aesthetic significance.

With secure land tenure and good exposure of stone artefacts, the place has educational value for both the Aboriginal and wider community. It is a place where people can learn from Wonnarua people about Aboriginal culture in the Hunter region, and the strength of that culture today. The YCCEP area has scientific significance as it contains a representative sample of evidence of Aboriginal occupation along a semipermanent creek within a central lowland context.

There is also a high potential for intact deposits, and opportunities for further archaeological research. Finally, this is one of few areas within the Hunter Valley which have been set aside as a Conservation Area for the protection of Aboriginal heritage, and it is a place where Aboriginal people can make decisions about managing their heritage.

E.6 Aboriginal Scientific Values

There have been at least four previous Archaeological Surveys either within the immediate YCCEP area or nearby. The following is a summary of these surveys and the key findings that are relevant to the YCCEP area:

- Dean-Jones (Resources Planning 1991): This survey included 370 hectares (ha) of the land in and around the then proposed Mt Owen Mine. Whilst Yorks Creek was outside the proposed mining area, it was included in the survey as the information was intended to be used in the formation of a Conservation Zone along Yorks Creek (now the Yorks Creek VCA). The key findings of the investigation that are relevant to the YCCEP area include:
 - The 22 sites recorded by Dean-Jones in the broader Yorks Creek area were not recorded in detail. The sites tended to be larger and included the remnants of knapping floors, with dense concentrations of flaked stone of uniform raw material;
 - Yorks Creek contained dense clusters of sites;
 - Some raw materials predominated with silcrete being prolific; and
 - Yorks Creek had the potential for absolute dating for the occupation of the area through the presence of hearths.
- Witter (1994, cited in GSS 2006): Witter investigated an area in the northern part of the Yorks Creek Catchment. Three samples of 100 artefacts were collected to assist in the construction of a behavioural model for the area. The research led Witter to conclude that Yorks Creek was primarily used as a micro-blade workshop but had also been utilised as a day foraging campsite and as a satellite campsite.
- Wonnarua Tribal Council (1996): Mt Owen Mine Management commissioned the Wonnarua Tribal Council to undertake an archaeological survey to accompany a Development Application. Jill Ruig was engaged by the Wonnarua Tribal Council to undertake the archaeological assessment and prepare the report on their behalf. The key findings of the investigation that are relevant to the YCCEP area include:
 - Of the areas surveyed there were no areas that were considered as being of high archaeological sensitivity. One area (along Yorks Creek itself) was assessed as being of moderate archaeological sensitivity, with the artefact density estimated at 247 artefacts/hectare with the deposits being relatively undisturbed. The remaining areas within the survey were assessed as being of low archaeological sensitivity; and
 - All sites were assessed by the Wonnarua Tribal Council as being of “low” cultural significance.
- Perry (2000, cited in GSS 2006): Junburra Aboriginal Consultancy Services were engaged by the Hunter Valley Coal Corporation to re-survey an area previously surveyed by Ruig (1996) to locate, record, and salvage any Aboriginal artefacts within the proposed footprint of a 1000 megalitre Water Storage Dam (note: the dam was not constructed) The key findings of the investigation that are relevant to the YCCEP area include:
 - Three of an original eight sites were not identified during the survey due to natural regeneration of the grassland following the removal of cattle from the area; and
 - One new site not previously recorded was located during the investigation.
- YCCEP Working Group 2005 (GSS 2006): In October 2005 Aboriginal community members participated in undertaking a walk over inspection of the YCCEP area to identify any areas within the YCCEP area that may have artefacts present. While all observed artefacts were recorded, the primary aim and focus of the fieldwork was to identify artefacts in the areas where possible

remediation works (earthworks) were being proposed. The intention being that this information would be used in the planning phase for the YCCEP erosion remediation project to ensure that any proposed earthworks would not disturb or destroy any Aboriginal or archaeological site. A total of ten areas were inspected during the field inspections with several hundred artefacts identified. However, many of these locations were not registered with the AHIMS register. While not recorded with AHIMS, GSS 2016 presents a figure showing the location of the 2005 findings (reproduced as **Figure 3**).

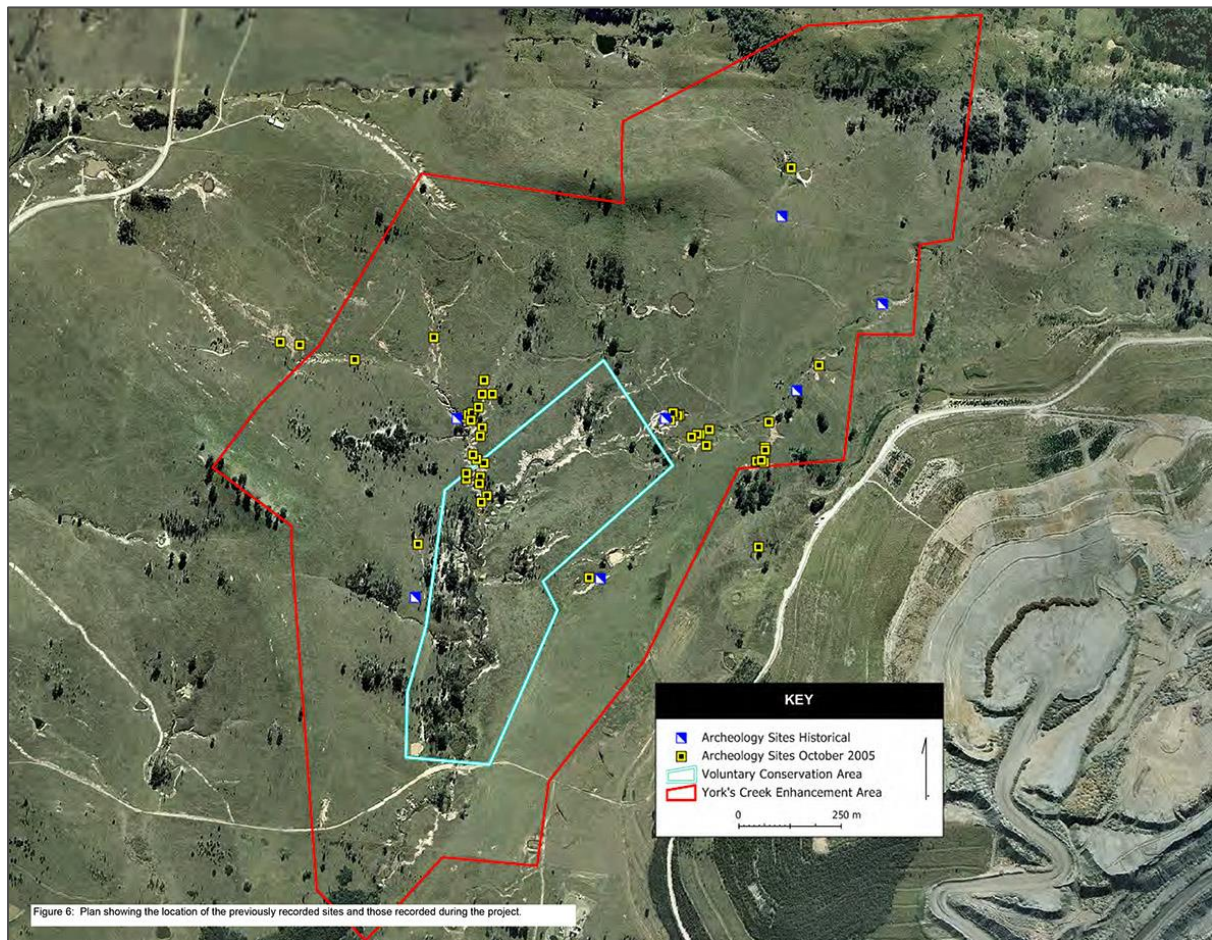


Figure 3 – Location of sites recorded in 2005.

In 2007 GSS Environmental produced a Cultural Landscape Remediation Management Plan (GSS 2007) based on the findings of the Project Plan for Stages 1 - 3 (GSS 2006).

In January 2007 the then Department of Environment and Conservation (HNSW) issued Permit 2604 under Section 87 of the NPW Act to *'temporarily move Aboriginal objects during environmental conservation works associated with the Mt Owen Biodiversity Offset Areas and the Yorks Creek Catchment Enhancement Project Area within the Mt Owen Mine Lease area, Ravensworth.'*

With the issue of Permit 2604, erosion remediation works as set out in GSS 2006 were able to commence. These works included dam construction, contour banking, and revegetation works. While the erosion remediation works were largely successful, no report on the works was produced and it is not known which sites were impacted under Permit 2604 and where artefacts were relocated. As such, while the AHIMS sites listed in **Table 1** are listed as 'valid', it is not known whether any of these sites were impacted in 2007 under the authority of Permit 2604.

There are currently 18 registered sites within the YCCEP area, four of which are in the Yorks Creek VCA (**Table 1** and **Figure 4**).

Table 1. Aboriginal cultural heritage sites at the YCCEP

AHIMS #	Site Name	GDA Zone 56 Easting	GDA Zone 56 Northing	Site Type	Location
37-3-0050	Yorks Creek Yorks Creek A	319470	6415189	Artefact scatter	YCCEP
37-3-0355	Mt Owen (1996) 20	319862	6415971	Artefact scatter	Within Yorks Creek VCA
37-3-0356	Mt Owen (1996) 18	320215	6416059	Artefact scatter with PAD	YCCEP
37-3-0357	Mt Owen (1996) 17	320425	6416269	Artefact scatter with PAD	YCCEP
37-3-0362	Mt Owen (1996) 24	319735	6415599	Isolated find	YCCEP
37-3-0691	Mt Owen(1996) 7	320146	6415881	Artefact scatter	YCCEP
37-3-0692	Mt Owen(1996) 16	320266	6416131	Artefact scatter with PAD	YCCEP
37-3-0693	Mt Owen(1996) 19	319907	6415911	Artefact scatter with PAD	Within Yorks Creek VCA
37-3-0694	Mt Owen(1996) 23	319676	6415561	Artefact scatter	YCCEP
37-3-0726	Yorks Creek (Mt Owen Mine) 1	320272	6416121	Artefact scatter	YCCEP
37-3-0728	Yorks Creek (Mt Owen Mine) 3	320138	6415921	Artefact scatter	YCCEP
37-3-0729	Yorks Creek (Mt Owen Mine) 4	319574	6415913	Artefact scatter	YCCEP
37-3-0730	Yorks Creek (Mt Owen Mine) 5	319965	6415925	Artefact scatter	YCCEP
37-3-0731	Yorks Creek (Mt Owen Mine) 6	319436	6415852	Artefact scatter	Within Yorks Creek VCA
37-3-0732	Yorks Creek (Mt Owen Mine) 7	319136	6416136	Artefact scatter	YCCEP
37-3-0733	Yorks Creek (Mt Owen Mine) 8	319330	6416189	Isolated find	YCCEP
37-3-0734	Yorks Creek (Mt Owen Mine) 9	319452	6416084	Artefact scatter	Within Yorks Creek VCA

AHIMS #	Site Name	GDA Zone 56 Easting	GDA Zone 56 Northing	Site Type	Location
37-3-0735	Yorks Creek (Mt Owen Mine) 10	319754	6415634	Isolated find	Within Yorks Creek VCA

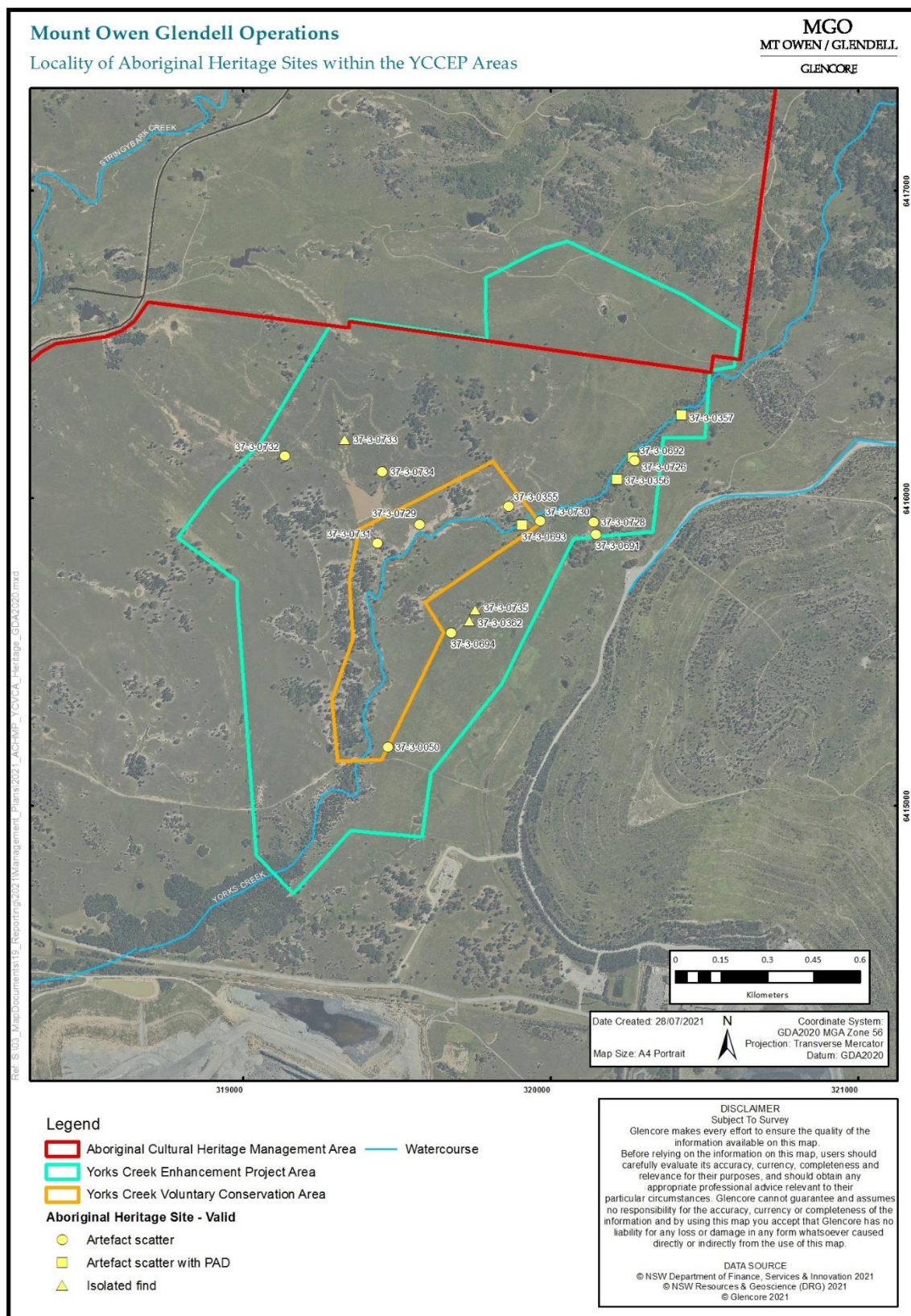


Figure 4: Location of Aboriginal heritage sites in the YCCEP area

E.7 Historic Scientific Values

There are no known items of historic heritage significance located in the YCCEP area. The historic items noted by GSS (**Figure 3**) in the YCCEP area are utilitarian items associated with the area's agricultural phase of land use. These items do not have heritage significance. Within the Yorks Creek VCA are the remains of a timber farm bridge that once crossed Yorks Creek. While of interest, this item also has no significant heritage values.

E.8 Management of the YCCEP area

Table 2 outlines the management protocols applicable to the YCCEP area.

Table 2. Management protocols applicable to the YCCEP area

Management Aspect	Management Strategy
Consultation Protocols	See: MGO ACHMP Section 1.4
Site Security and Access	Access to the site is to be limited by way of locked gate. Signs are to be erected around the perimeter of the YCCEP area, identifying that the area is a Conservation Area. Any person wishing to visit the area is to inform the MGO E&C team at least 48 hours prior to each visit. All contractors working in the Yorks Creek VCA are to be trained in the significance of Aboriginal heritage of the area Prior to entering the area, all personnel are to be made aware of the contents of this PoM. Vehicles are not permitted within 50 m of a known Aboriginal site.
Aboriginal Heritage	See: MGO ACHMP Section 4 All mining personnel and contractors will receive Cultural Heritage Awareness Training as part of site induction. Any personnel working directly in the area are to be made aware of the contents of the ACHMP and this PoM, prior to accessing the area. Where inspections and management measures are required to be undertaken in the YCCEP area, a work authorisation and if necessary, appropriate permit, is to be completed. Permits are to include a map of heritage sites within the area, and any constraints around these sites. The YCCEP area will be included in the quarterly monitoring of Aboriginal cultural heritage sites. Monitoring will be undertaken annually in the area by a suitably qualified archaeologist, and representatives of the RAPs and/ or Wonnarua Knowledge Holders.
Provision of access to the YCCEP area and the archaeological sites	The main access road to the YCCEP area will be maintained to provide access to the YCCEP area but will not extend into the YCCEP area itself. The access road is an all-weather unsealed road.
Erosion of the archaeological sites	See: MGO ACHMP Section 5.3.1

Management Aspect	Management Strategy
	BOMP* Section 4.6 ESCP Section 4 If erosion control measures are to be carried out within the YCCEP area: - the area will be inspected by a suitably qualified archaeologist and representatives of the RAPs and/ or Wonnarua Knowledge Holders to determine precisely the likely impacts of the erosion works and to determine appropriate management recommendations - management measures will be discussed with, and agreed upon, by the ACHWG and MGO E&C staff.
Revegetation works within the YCCEP area	See: BOMP* Section 4.8 If revegetation works are to be carried out within the YCCEP area: - the area will be inspected by a suitably qualified archaeologist and representatives of the RAPs and/ or Wonnarua Knowledge Holders to determine precisely the likely impacts of the revegetation works and to determine appropriate management recommendations - management measures will be discussed with, and agreed upon, by the ACHWG and MGO E&C staff.
Impact by growth of noxious weeds and/or by removal of noxious weeds	See: ACHMP Section 5.3.4 BOMP* Section 4.2 If weed control is to be carried out within 50 m of a known archaeological site, the appropriate safeguards should be in place: - all personnel working within the area should be informed of the site's location and its legislative protection under the NPW Act - no ground disturbing activities associated with weed control can take place - management measures will be discussed with, and agreed upon, by the ACHWG and MGO E&C staff.
Impact by feral animals and/or by the control of feral animals	See: BOMP* Section 4.3 - If pest control is to be carried out within 50 m of a known archaeological site, the appropriate safeguards should be in place: - all personnel working within the area should be informed of the site's location and its legislative protection under the NPW Act - no ground disturbing activities associated with pest control can take place

Management Aspect	Management Strategy
	management measures will be discussed with, and agreed upon, by the ACHWG and MGO E&C staff.
Grazing	Periodic grazing is permitted within the greater YCCEP area (excluding the Yorks Creek VCA) in a manner that does not adversely impact on long term conservation values. Refer to <i>Figure 5</i>. Three grazing areas have been established in the YCCEP area: - Class A: Grazing totally excluded - Class B: Grazing currently excluded, but intermittent grazing possible in the future - Class C: Selective grazing allowed for short periods No livestock is permitted within rehabilitated areas.
Impact by works associated with bushfire management	See: ACHMP <i>Section 5.3.2</i> BOMP* Section 4.7 Bushfire Emergency Response Poster Routine activities to clear potential fire hazards within the YCCEP area and Yorks Creek VCA will be undertaken in consultation with the ACHWG. The use of machinery to control fire hazards within the YCCEP area, but outside known archaeological sites (including a 50 m buffer), will be permissible if approved by the ACHWG. Where possible, any fire breaks required will be placed outside the boundary fence of the YCCEP area. In an emergency, firebreaks within the YCCEP area will be permissible if they will act to conserve important cultural heritage or ecological values. The local Rural Fire Service (RFS) should be advised of the presence of the archaeological sites to encourage, where possible, the RFS to avoid impacts within the YCCEP area and particularly within the defined site areas. Any approved works will be undertaken manually and supervised by the ACHWG and MGO E&C staff.
Accidental impact to the archaeological sites from other mine related works	All mining personnel and contractors will receive Cultural Heritage Awareness Training as part of site induction (MGO ACHMP <i>Section 3.4.1</i>). Any personnel (employees and contractors) working in the area are to be made aware of the contents of the MGO ACHMP and this PoM, prior to accessing the area. The YCCEP area will be fenced and display appropriate signage. If any other mine related activities resulting in ground disturbance (including vehicle movements outside existing tracks) are proposed to be undertaken within the YCCEP area, consultation will be undertaken with the MGO E&C team, and the ACHWG before works may proceed. Any locations where ground disturbance is proposed, should be first inspected by a suitably qualified archaeologist, representatives of

Management Aspect	Management Strategy
	the RAPs and/ or Wonnarua Knowledge Holders to determine precisely the likely impacts of the works and to determine appropriate management recommendations.
Access to the YCCEP area for archaeological research	Requests to undertake archaeological research within the YCCEP area will be considered by the ACHWG and judged on their merit.
Monitoring of erosion and water quality in the YCCEP area	See: BOMP* Section 4.6 WMP Section 4.1 ESCP Section 4 SWMP Section 4 SWGWRP Section 3

Note

**Note that this management plan refers specifically to Biodiversity Offset Areas, however, management principles of the BOMP are to be generally adopted for the YCCEP area, in consultation with the ACHWG.*

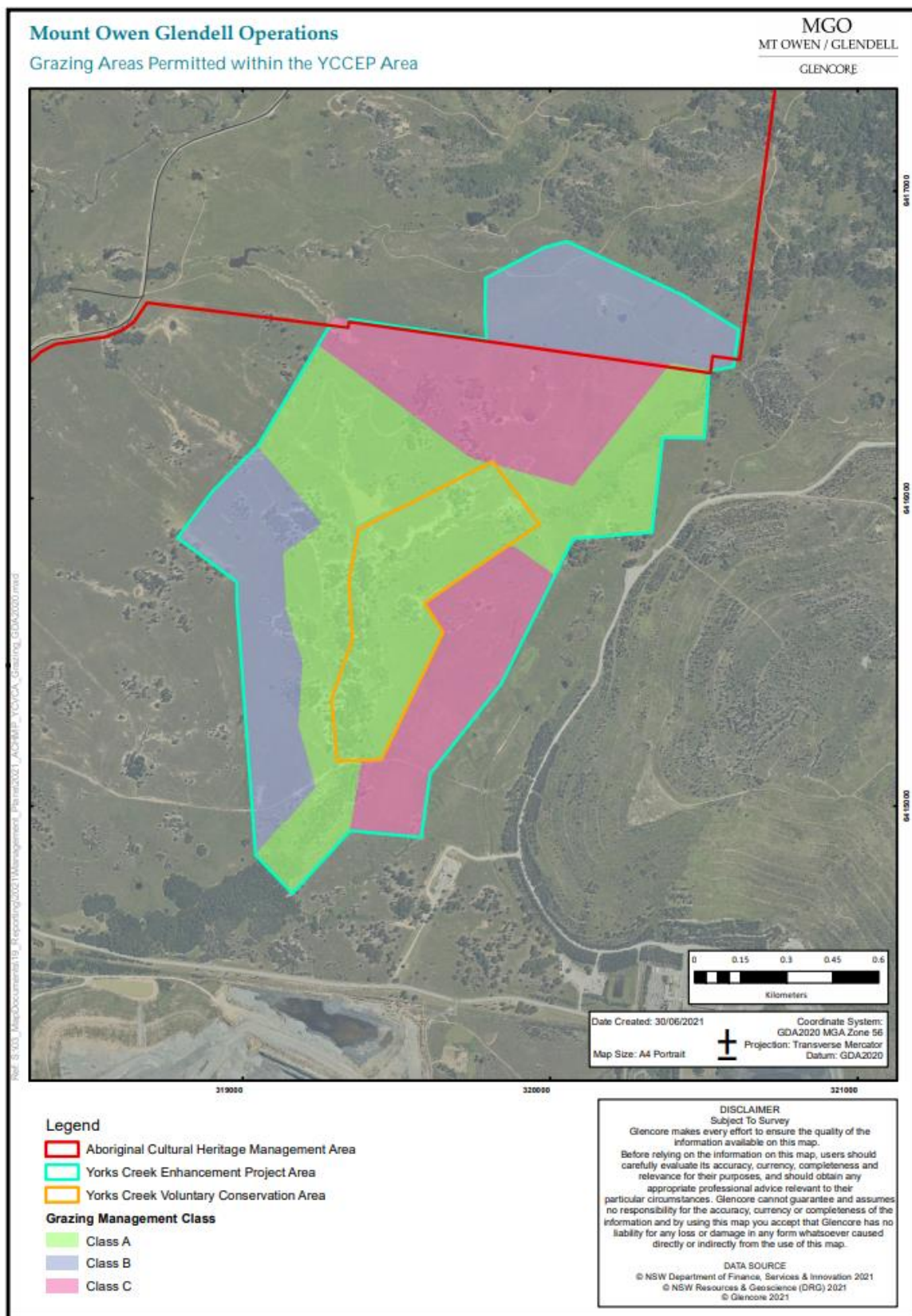


Figure 5 – Grazing activity permitted within the YCCEP area

E.9 Permitted Developments within the YCCEP Area

Under this PoM, MGO may construct fencing to continue to exclude livestock from certain areas of the YCCEP area, and if required, to construct a firebreak around the outside of the YCCEP boundary fence perimeter.

Other permitted developments could include signage. **Table 3** includes developments that the Aboriginal community and MGO may undertake within the YCCEP area.

All “Permitted Developments” must be undertaken in a manner that they do not conflict with legislation such as the *Threatened Species Conservation Act 1995* and the NPW Act that protects, for example, natural heritage and Aboriginal sites.

Table 3 – Permitted Developments within the YCCEP area

Potential Development	Management Strategy
Stock Exclusion / Construction of Boundary Fence	Construction of boundary fencing and/or stock exclusion fencing will be undertaken. The corridor cleared for the fence will not be greater than 3 m wide.
Signage	Signage may be required at various points within the YCCEP at the boundary of archaeological sites where no fencing is required. Alternatively, discussions should be held with MGO and the ACHWG regarding fencing and signing of the whole area, rather than individual sites.
Erosion Remediation	Erosion remediation may be required throughout certain areas of the YCCEP area. Specific erosion and sediment control designs and works are to be discussed with MGO and the ACHWG prior to any works being undertaken.

E.10 Implementation

Implementation of this PoM will be the responsibility of MGO following approval from the DPIE.

Rostered RAPs and/ or Wonnarua Knowledge Holders are involved in the on-going monitoring of the YCCEP area as part of the MGO quarterly site monitoring program, as per the MGO ACHMP **Section 3.4.2**.

Management strategies will be first discussed with the ACHWG, prior to any works being undertaken.

E.11 Measurement and Evaluation

The on-going monitoring of the YCCEP area will be carried out under the terms of the MGO ACHMP.

Quarterly site monitoring has been established across the MGO. MGO will ensure that the YCCEP area is visited as part of this program at least once every calendar year. The area is to be regularly monitored and issues of maintenance can be addressed. Monitoring will be discussed with the ACHWG. Reports will be published on the MGO public website, with a brief summary provided in the Annual Review.

If a complaint is received by MGO in relation to the YCCEP area, it will be managed in accordance with the site complaints management procedure.

E.12 Review and Improvement

This PoM, specifically the on-going maintenance of the YCCEP, can be reviewed on a 'as needed' basis by the ACHWG, or during the review of the MGO ACHMP (MGO ACHMP **Section 8.1**).

Should it be deemed necessary, and with agreement from MGO, the ACHWG can propose that maintenance issues at the YCCEP area be addressed.

E.13 Accountabilities

Table 4 – PoM accountabilities

Role	Accountabilities for this Role
MGO E&C Manager	Ensure that adequate resources are available for the implementation of the management plan.
MGO E&C Officer and Coordinator	Implementation of the management plan. Responsible for protection, monitoring, fencing and signage, track maintenance, pest management, weed management, revegetation, erosion and sedimentation management, and bushfire management of the YCCEP.
All personnel working in the YCCEP area	Comply with the requirements of this PoM. Report all non-compliances with the Plan to their immediate supervisor.

E.14 Document Information

This PoM is for the management of Aboriginal heritage at the YCCEP area, including the Yorks Creek VCA.

It satisfies Conditions 34 (c) and 42 of SSD-5850.

E.14.1 Terms and Abbreviations

Abbreviation	Definition
ACHMP	Aboriginal Cultural Heritage Management Plan
ACHWG	Aboriginal Cultural Heritage Working Group
AHIMS	Aboriginal Heritage Information Management System
E&C	MGO Environment and Community team
HNSW	Heritage NSW
MGO	Mt Owen Glendell Operations
PoM	Plan of Management
RAPs	Registered Aboriginal Parties
Yorks Creek VCA	Yorks Creek Voluntary Conservation Area
YCCEP	Yorks Creek Catchment Enhancement Project

E.15 Reference Information

Reference information, listed in **Table 5** below, is information that is directly related to the development of this document or referenced from within this document.

Table 5 – Reference information

Title
Aboriginal Cultural Heritage Management Plan
Biodiversity and Offset Management Plan (BOMP)
Water Management Plan (WMP)
Erosion and Sediment Control Plan (ESCP)
Surface Water Management Plan (SWMP)
Surface and Groundwater Response Plan (SWGWRP)
Bushfire Emergency Response Poster
GSS Environmental 2006. Project Plan for Stages 1-3 Yorks Creek Catchment Enhancement Project, Mt Owen Mine, Hunter Valley, NSW. Report for Xstrata Mt Owen Pty Ltd.
GSS Environmental 2007. Cultural Landscape Remediation Management Plan. Yorks Creek Catchment Enhancement Project, Mt Owen Mine, Hunter Valley. Report for Xstrata Mt Owen Pty Ltd.
Resources Planning 1991. Environmental Impact Statement. Mount Owen Coal Project. Hebden, New South Wales. Report for Hunter Valley Coal Corporation Pty Ltd.
Wonnarua Tribal Council 1996. Archaeological Survey for Aboriginal Sites. Mt Owen, Hebden Road, Via Singleton, Hunter Valley, New South Wales. Report for Hunter Valley Coal Corporation Pty Ltd.

E.16 Change Information

Full details of the document history are recorded in the document control register, by version. A summary of the current change is provided in **Table 6**.

Table 6 – Change information

Version	Date	Review team (consultation)	Change Summary
1.0	April 2018	MGO E&C OzArk EHM	Initial issue
1.1	November 2019	MGO E&C OzArk EHM	Review post MOCO MOD 2 approval
1.2	March 2020	MGO E&C OzArk EHM	Review post Glendell MOD 4 approval
1.3	July 2021	MGO E&C OzArk EHM	Review post MOCO MOD 5 and MOCO MOD 6 approval

Appendix F - Known Aboriginal Sites Remaining in Place

AHIMS ID	Site Name	GDA Zone 56 East	GDA Zone 56 North	Site type	Status
37-3-0039	Stringybark Creek	317820	6416209	Artefact scatter	Valid
37-3-0050	Yorks Creek Yorks Creek A	319470	6415189	Artefact scatter	Valid
37-3-0056	Stringybark Creek Hebden	316890	6416254	Artefact scatter	Valid
37-3-0294	Site 2 (MORL2)	321168	6410327	Artefact scatter	Valid
37-3-0343	Mt Owen (1996) 1; MTO1	318524	6414512	Artefact scatter	Valid
37-3-0346	Mt Owen (1996) 6	320245	6415789	Isolated find	Valid
37-3-0355	Mt Owen (1996) 20	319862	6415971	Artefact scatter	Valid
37-3-0356	Mt Owen (1996) 18	320215	6416059	Artefact scatter with PAD	Valid
37-3-0357	Mt Owen (1996) 17	320425	6416269	Artefact scatter with PAD	Valid
37-3-0359	Mt Owen (1996)_3	319792	6415070	Artefact scatter	Valid
37-3-0360	Mt Owen (1996)_2	319084	6414419	Isolated find	Valid
37-3-0362	Mt Owen (1996) 24	319735	6415599	Isolated find	Valid
37-3-0469	Bowmans/Swamp Creek Trench 1	318072	6409137	Artefact scatter with PAD	Partially destroyed
37-3-0494	MO-IF2	319060	6410265	Isolated find	Valid
37-3-0499	ASH 3	317582	6406366	Isolated artefact	Valid
37-3-0521	MO-IF1	319123	6410319	Isolated find	Valid
37-3-0527	Ashton EWA17	320079	6407153	Isolated find	Valid
37-3-0612	Bettys Creek 22	321138	6410296	Isolated find with PAD	Valid
37-3-0615	Bowmans Creek 3	317989	6408929	Artefact scatter with PAD	Valid
37-3-0637	Bettys Creek Stone Arrangement	323618	6413117	Stone arrangement	Valid
37-3-0642	Liddell Pipeline 1	316646	6414633	Artefact scatter	Partially destroyed
37-3-0643	Bowmans Creek 1 PAD	316669	6414898	PAD	Valid
37-3-0670	Liddell Pipeline	316646	6414633	Artefact scatter	Partially destroyed

AHIMS ID	Site Name	GDA Zone 56 East	GDA Zone 56 North	Site type	Status
37-3-0689	G11 Glendell	319223	6410211	Artefact scatter with PAD	Partially destroyed
37-3-0691	Mt Owen(1996) 7	320146	6415881	Artefact scatter	Valid
37-3-0692	Mt Owen(1996) 16	320266	6416131	Artefact scatter with PAD	Valid
37-3-0693	Mt Owen(1996) 19	319907	6415911	Artefact scatter with PAD	Valid
37-3-0694	Mt Owen(1996) 23	319676	6415561	Artefact scatter	Valid
37-3-0695	Mt Owen(1996) 25	320044	6415780	Artefact scatter	Valid
37-3-0697	GCS9	321986	6410422	Isolated find	Valid
37-3-0698	GCS8	322383	6409981	Isolated find	Valid
37-3-0699	GCM1	321997	6409794	Artefact scatter	Valid
37-3-0701	GCS-10	321976	6410000	Artefact scatter	Valid
37-3-0702	Forest East Offset 1 (FEO 1)	323878	6414226	Artefact scatter	Valid
37-3-0703	Forest East Offset 2 (FEO 2)	323885	6414975	Artefact scatter	Valid
37-3-0704	Forest East Offset 3 (FEO 3)	323852	6413751	Artefact scatter	Valid
37-3-0705	Northeast Offset 1 (NEO 1)	323209	6416566	Artefact scatter with PAD	Valid
37-3-0706	Northeast Offset 2 (NEO 2)	323283	6416707	Artefact scatter	Valid
37-3-0707	Northeast Offset 3 (NEO 3)	323309	6416793	Artefact scatter	Valid
37-3-0708	Northwest Offset 1 (NOW 1)	321558	6416221	Artefact scatter with PAD	Valid
37-3-0726	Yorks Creek (Mt Owen Mine) 1	320272	6416121	Artefact scatter	Valid
37-3-0727	Yorks Creek (Mt Owen Mine) 2	319041	6414427	Artefact scatter	Valid
37-3-0728	Yorks Creek (Mt Owen Mine) 3	320138	6415921	Artefact scatter	Valid
37-3-0729	Yorks Creek (Mt Owen Mine) 4	319574	6415913	Artefact scatter	Valid

AHIMS ID	Site Name	GDA Zone 56 East	GDA Zone 56 North	Site type	Status
37-3-0730	Yorks Creek (Mt Owen Mine) 5	319965	6415925	Artefact scatter	Valid
37-3-0731	Yorks Creek (Mt Owen Mine) 6	319436	6415852	Artefact scatter	Valid
37-3-0732	Yorks Creek (Mt Owen Mine) 7	319136	6416136	Artefact scatter	Valid
37-3-0733	Yorks Creek (Mt Owen Mine) 8	319330	6416189	Isolated find	Valid
37-3-0734	Yorks Creek (Mt Owen Mine) 9	319452	6416084	Artefact scatter	Valid
37-3-0735	Yorks Creek (Mt Owen Mine) 10	319754	6415634	Isolated find	Valid
37-3-0818	Narama Extended 5	316548	6405115	Scatter	Valid
37-3-0819	Narama Extended 6	316559	6405188	Scatter	Partially destroyed
37-3-0822	Narama Extended 9	317252	6405954	Scatter	Valid
37-3-0823	Narama Extended 10	316980	6405630	Scatter	Partially destroyed
37-3-0824	Narama Extended 11	316867	6405530	Scatter	Partially destroyed
37-3-0825	Narama Extended 12	316748	6405629	Scatter	Partially destroyed
37-3-0826	Narama Extended 13	316870	6405296	Scatter	Partially destroyed
37-3-0832	Narama Extended 19	316465	6405222	Scatter	Partially destroyed
37-3-0834	Narama Extended 21	316515	6405416	Scatter	Partially destroyed
37-3-0837	Narama Extended 24	316462	6405537	Scatter	Partially destroyed
37-3-0839	Narama Extended 26	316541	6405558	Scatter	Valid
37-3-0841	Narama Extended 28	317157	6405891	Scatter	Valid
37-3-0842	Narama Extended 29	317232	6405793	Scatter	Valid
37-3-0846	Narama Extended 34	317293	6405962	Isolated artefact	Valid
37-3-0848	Narama Extended 36	316995	6405693	Scatter	Valid

AHIMS ID	Site Name	GDA Zone 56 East	GDA Zone 56 North	Site type	Status
37-3-0849	Narama Extended 37	317060	6405642	Scatter	Partially destroyed
37-3-0921	MCISO1	324228	6410295	Isolated find	Valid
37-3-0922	MCISO2	324255	6410311	Isolated find	Valid
37-3-0923	MCISO3	324200	6410232	Isolated find	Valid
37-3-1005	REA124	317982	6408615	Isolated find	Valid
37-3-1009	REA131	318080	6408179	Isolated find	Valid
37-3-1011	REA133	317656	6407681	Artefact scatter	Valid
37-3-1013	REA141	318206	6407187	Artefact scatter	Valid
37-3-1156	MT OWEN ISOLATED FIND1	318001	6410455	Isolated find	Valid
37-3-1173	MOCO IF-4	320849	6413041	Isolated find	Valid
37-3-1175	MOCO IF-6	320749	6412208	Isolated find	Valid
37-3-1185	MOCO IF-16	321445	6409882	Isolated find	Valid
37-3-1186	MOCO IF-17	321066	6407957	Isolated find	Valid
37-3-1193	MOCO OS-5	321277	6410178	Artefact scatter	Partially destroyed
37-3-1196	MOCO OS-8	321748	6408083	Artefact scatter	Partially destroyed
37-3-1197	MOCO OS-9	320364	6407290	Artefact scatter	Partially destroyed
37-3-1198	MOCO OS-10	317840	6409364	Artefact scatter	Partially destroyed
37-3-1214	MOCO IF-23	319809	6414557	Isolated find	Valid
37-3-1215	MOCO IF-24	319791	6414618	Isolated find	Valid
37-3-1216	MOCO IF-25	319780	6414604	Isolated find	Valid
37-3-1257	REA432	317222	6405811	Scatter	Valid
37-3-1263	REA423	317276	6405840	Scatter	Valid
37-3-1305	REA304	317291	6405892	Scatter	Valid
37-3-1311	REA307	316605	6405745	Scatter	Valid
37-3-1394	IF1.	323988	6410403	Isolated find	Valid
37-3-1395	IF2.	324075	6410925	Isolated find	Valid
37-3-1491	Swamp Creek IF-4	318805	6407340	Isolated find	Valid
37-3-1492	Swamp Creek IF-3	318805	6407330	Isolated find	Valid
37-3-1493	Swamp Creek IF-2	318807	6407327	Isolated find	Valid

AHIMS ID	Site Name	GDA Zone 56 East	GDA Zone 56 North	Site type	Status
37-3-1494	Swamp Creek IF-1	318640	6407727	Isolated find	Valid
37-3-1496	SCK-9	318871	6410241	Artefact scatter	Valid
37-3-1497	SCK-11	319089	6410231	Artefact scatter	Valid
37-3-1498	Swamp Creek-OS2	318006	6408283	Artefact scatter	Valid
37-3-1499	Swamp Creek-OS1	318819	6407299	Artefact scatter	Partially destroyed
37-3-1500	Main Creek-OS16	324256	6412412	Artefact scatter	Valid
37-3-1501	Main Creek-IF15	324426	6412429	Artefact scatter	Valid
37-3-1513	Glendell North IF23	318833	6407204	Isolated find	Valid
37-3-1514	Glendell North IF21	318328	6408936	Isolated find	Valid
37-3-1515	Glendell North IF20	318022	6409310	Isolated find	Valid
37-3-1517	Glendell North IF19	318543	6410024	Isolated find	Valid
37-3-1518	Glendell North IF18	317723	6409918	Isolated find	Valid
37-3-1519	Glendell North IF17	317777	6409943	Isolated find	Valid
37-3-1520	Glendell North IF16	319072	6410845	Isolated find	Valid
37-3-1535	Glendell North IF1	318189	6414948	Isolated find	Valid
37-3-1537	Glendell North OS23	318500	6410083	Artefact scatter	Valid
37-3-1538	Glendell North OS22	319293	6410281	Artefact scatter	Valid
37-3-1539	Glendell North OS21	318418	6410236	Artefact scatter	Valid
37-3-1540	Glendell North OS20	317856	6409957	Artefact scatter	Valid
37-3-1541	Glendell North OS18	317852	6410274	Artefact scatter	Valid
37-3-1542	Glendell North OS17	317850	6410521	Artefact scatter	Valid
37-3-1543	Glendell North OS33	319166	6407069	Artefact scatter	Valid
37-3-1544	Glendell North OS32	317951	6407475	Artefact scatter	Valid
37-3-1545	Glendell North OS31	318827	6407525	Artefact scatter	Partially destroyed
37-3-1546	Glendell North OS30	318530	6408206	Artefact scatter	Valid
37-3-1547	Glendell North OS29	318291	6408381	Artefact scatter	Valid

AHIMS ID	Site Name	GDA Zone 56 East	GDA Zone 56 North	Site type	Status
37-3-1560	Glendell North OS1	316819	6413702	Artefact scatter	Valid
37-3-1566	Glendell North IF26	318253	6408957	Isolated find with PAD	Partially destroyed
37-3-1570	Glendell North OS25	318367	6408758	Artefact scatter with PAD	Partially destroyed
37-3-1572	Glendell North OS19	317790	6410020	Artefact scatter with PAD	Partially destroyed
37-3-1576	Glendell North OS39	318028	6409888	Artefact scatter	Valid
37-3-1577	Bettys Creek 23	320652	6410133	Isolated find	Valid
37-3-1578	Bowmans Creek 18	318007	6406971	Scatter	Valid
37-3-1579	Bowmans Creek 17	317781	6407742	Artefact scatter	Valid
37-3-1584	ROC OS-1	318005	6406850	Scatter	Valid
37-3-1585	ROC IF-2	318054	6406952	Isolated artefact	Valid
37-3-1586	ROC IF-1	318022	6406946	Isolated artefact	Valid
37-3-1591	Forest East Grinding Grooves	323685	6413714	Grinding Grooves	Valid
37-3-1652	GCS-IF1	321916	6410409	Isolated find	Valid
Not registered	Sensitive Area 1	317850	6409135	Sensitive Area	Valid
Not registered	Sensitive Area 2	317845	6408965	Sensitive Area	Valid
Not registered	Sensitive Area 3	317830	6408770	Sensitive Area	Valid
Not registered	Sensitive Area 4	317860	6408085	Sensitive Area	Valid
Not registered	Sensitive Area 5	318075	6407670	Sensitive Area	Valid
Not registered	Sensitive Area 6	318320	6407385	Sensitive Area	Valid
Not registered	Sensitive Area 7	316570	6413656	Sensitive Area	Valid
Not registered	Sensitive Area 8	316845	6413648	Sensitive Area	Valid