

Attachment 1
Statutory Requirements

This Attachment outlines relevant statutory and guideline requirements and provides the relevant section of the Extraction Plan where the requirements are addressed. This Attachment considers the statutory instruments and guidelines in Table A1-1.

Table A1-1: Relevant Statutory Instruments and Guidelines

Statutory Instrument or Guideline	Attachment 1 Reference
Stage 1 Project Approval (05_0117)	Table A1-3
Requirements of Mining Leases 1605 and 1628 Relating to the Extraction Plan	Table A1-4
Extraction Plan Guideline	Table A1-5

MCO has committed to recommendations provided on the previous UG4 LW401-408 Extraction Plan, and associated End of Panel Reports and the UG4 LW401-408 Extraction Plan Revised Groundwater Technical Report. This Attachment considers the commitments provided in Table A1-2 and provides updates on their current status.

Table A1-2: Previous Reports with Recommendations or Commitments

Previous Report with Recommendations or Commitments	Attachment 1 Reference
Moolarben Coal Complex UG4 LW401-408 Extraction Plan	Table A1-6
Moolarben Coal Operations UG4 LW401, LW402, LW403 – End of Panel Report	Table A1-7
UG4 LW401-408 Extraction Plan Revised Groundwater Technical Report	Table A1-8

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Table A1-3: Project Approval (05_0117) Requirements Relating to the Extraction Plan

Condition Number	Condition	Document Reference/Comment	
Performance Measures – Natural and Heritage Features			
Condition 73, Schedule 3	<i>The Proponent shall ensure that the project does not cause any exceedances of the performance measures in Table 14, to the satisfaction of the Secretary.</i>	<p>This Extraction Plan has been developed to meet the subsidence impact performance measures.</p> <p>Sections 1.7 and 3.1 of the Extraction Plan and Appendix H (Monitoring Program).</p> <p>Sections 1.7 and 3.1 of the Extraction Plan and Appendix H (Monitoring Program).</p> <p>Sections 1.7 and 3.1 of the Extraction Plan and Appendix B (Land Management Plan).</p> <p>Sections 1.7 and 3.1 of the Extraction Plan and Appendix D (Heritage Management Plan).</p> <p>Sections 1.5, 1.6 and 1.7 of the Extraction Plan.</p>	
	<i>Table 14: Subsidence Impact Performance Measures</i>		
	Special Feature		
	<i>The Drip and Goulburn River Gorge (see Appendix 7)</i>		<i>Nil impact or environmental consequences</i>
	Water Resources		
	<i>Goulburn River and the bed of the Goulburn River (see Appendix 7)</i>		<i>Negligible impact or environmental consequences. Remain outside the zone of recorded subsidence damage for longwall mining.</i>
	Land		
	<i>Cliff Line 3</i>		<i>Minimise subsidence damage</i>
	Heritage Sites		
	<i>Aboriginal heritage sites 264, 282, 283, 286 and 287 (see Appendix 7)</i>		<i>Reduce the likelihood of subsidence damage to low.</i>
<i>Aboriginal heritage site 280 (see Appendix 7)</i>	<i>Reduce the likelihood of subsidence damage to moderate.</i>		
<i>Historic heritage sites</i>	<i>No greater subsidence impact or environmental consequences than predicted in the EA</i>		
Mine Workings			
<i>First workings under an approved Extraction Plan beneath any feature where performance measures in this table require negligible impact, negligible consequence or negligible loss</i>	<i>To remain long-term stable and non-subsiding.</i>		
<i>Second workings</i>	<i>To be carried out only within the longwall mining domains, in accordance with an approved Extraction Plan.</i>		

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Table A1-3 (Continued): Project Approval (05_0117) Requirements Relating to the Extraction Plan

Condition Number	Condition	Document Reference/Comment
	<p><i>Notes:</i></p> <ul style="list-style-type: none"> <i>The locations of the features referred to in Table 14 are shown in Appendix 7.</i> <i>The Proponent will be required to define more detailed performance indicators (including impact assessment criteria) for each of these performance measures in the various management plans that are required under this approval.</i> <i>Measurement and/or monitoring of compliance with performance measures and performance indicators is to be undertaken using generally accepted methods that are appropriate to the environment and circumstances in which the feature or characteristic is located. These methods are to be fully described in the relevant management plans. In the event of a dispute over the appropriateness of proposed methods, the Secretary will be the final arbiter.</i> <i>The requirements of this condition only apply to the impacts and consequences of mining operations, construction or demolition undertaken following the date of this approval.</i> 	
Offsets		
<p>Condition 74, Schedule 3</p>	<p><i>If the Proponent exceeds the performance measures in Table 14 and the Secretary determines that:</i></p> <p><i>(a) it is not reasonable or feasible to remediate the impact or environmental consequence; or</i></p> <p><i>(b) remediation measures implemented by the Proponent have failed to satisfactorily remediate the impact or environmental consequence;</i></p> <p><i>then the Proponent shall provide a suitable offset to compensate for the impact or environmental consequence, to the satisfaction of the Secretary.</i></p> <p><i>Note: Any offset required under this condition must be proportionate with the significance of the impact or environmental consequence. Impacts to the Drip cannot be offset and consequently the proponent shall ensure that the project has no impact on the Drip or the water supply to the Drip.</i></p>	<p>Section 4 of the Extraction Plan.</p>

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Table A1-3 (Continued): Project Approval (05_0117) Requirements Relating to the Extraction Plan

Condition Number	Condition	Document Reference/Comment																		
Performance Measures – Built Features																				
Condition 75, Schedule 3	<p><i>The Proponent shall ensure that the project does not cause any exceedances of the performance measures in Table 15, to the satisfaction of the Secretary.</i></p> <p><i>Table 15: Subsidence Impact Performance Measures – Built Features</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="background-color: #cccccc;">Key public infrastructure:</th> </tr> </thead> <tbody> <tr> <td style="width: 35%;"><i>Gulgong-Sandy Hollow Railway Line</i></td> <td><i>Always safe and serviceable.</i></td> </tr> <tr> <td><i>Wollar-Wellington 330kV Transmission Line</i></td> <td><i>Damage that does not affect safety or serviceability must be fully repairable, and must be fully repaired.</i></td> </tr> <tr> <th colspan="2" style="background-color: #cccccc;">Other infrastructure:</th> </tr> <tr> <td><i>Roads</i></td> <td><i>Safe, serviceable and repairable unless the owner agrees otherwise in writing.</i></td> </tr> <tr> <td><i>Other built features and improvements, including fences</i></td> <td><i>Serviceability should be maintained wherever practicable. Loss of serviceability must be fully compensated.</i></td> </tr> <tr> <td></td> <td><i>Damage must be fully repairable, and must be fully repaired or else replaced or fully compensated.</i></td> </tr> <tr> <th colspan="2" style="background-color: #cccccc;">Public Safety</th> </tr> <tr> <td><i>Public safety</i></td> <td><i>Negligible additional risk</i></td> </tr> </tbody> </table> <p><i>Notes:</i></p> <ul style="list-style-type: none"> • <i>The locations of the features referred to in Table 15 are shown in Appendix 7.</i> • <i>The Proponent will be required to define more detailed performance indicators for each of these performance measures in Built Features Management Plans or Public Safety Management Plan (see condition 74 below).</i> • <i>Measurement and/or monitoring of compliance with performance measures and performance indicators is to be undertaken using generally accepted methods that are appropriate to the environment and circumstances in which the feature or characteristic is located. These methods are to be fully described in the relevant management plans. In the event of a dispute over the appropriateness of proposed methods, the Secretary will be the final arbiter.</i> • <i>The requirements of this condition only apply to the impacts and consequences of mining operations undertaken following the date of this approval.</i> • <i>Requirements under this condition may be met by measures undertaken in accordance with the Mine Subsidence Compensation Act 1961.</i> • <i>Requirements regarding safety or serviceability do not prevent preventative or mitigatory actions being taken prior to or during mining in order to achieve or maintain these outcomes.</i> 	Key public infrastructure:		<i>Gulgong-Sandy Hollow Railway Line</i>	<i>Always safe and serviceable.</i>	<i>Wollar-Wellington 330kV Transmission Line</i>	<i>Damage that does not affect safety or serviceability must be fully repairable, and must be fully repaired.</i>	Other infrastructure:		<i>Roads</i>	<i>Safe, serviceable and repairable unless the owner agrees otherwise in writing.</i>	<i>Other built features and improvements, including fences</i>	<i>Serviceability should be maintained wherever practicable. Loss of serviceability must be fully compensated.</i>		<i>Damage must be fully repairable, and must be fully repaired or else replaced or fully compensated.</i>	Public Safety		<i>Public safety</i>	<i>Negligible additional risk</i>	<p>This Extraction Plan has been developed to meet the subsidence impact performance measures.</p> <p>Sections 1.7 and 3.2 of the Extraction Plan.</p> <p>Sections 1.7 and 3.2 of the Extraction Plan and Appendix E (Built Features Management Plans).</p> <p>Sections 1.7 and 3.2 of the Extraction Plan and Appendix F (Public Safety Management Plan).</p>
Key public infrastructure:																				
<i>Gulgong-Sandy Hollow Railway Line</i>	<i>Always safe and serviceable.</i>																			
<i>Wollar-Wellington 330kV Transmission Line</i>	<i>Damage that does not affect safety or serviceability must be fully repairable, and must be fully repaired.</i>																			
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<i>Public safety</i>	<i>Negligible additional risk</i>																			

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Table A1-3 (Continued): Project Approval (05_0117) Requirements Relating to the Extraction Plan

Condition Number	Condition	Document Reference/Comment
Performance Measures – Built Features (Continued)		
Condition 76, Schedule 3	<i>Any dispute between the Proponent and the owner of any built feature over the interpretation, application or implementation of the performance measures in Table 15 is to be settled by the Secretary, following consultation with Resources Regulator. Any decision by the Secretary shall be final and not subject to further dispute resolution under this approval.</i>	This Extraction Plan has been developed to meet the subsidence impact performance measures. Sections 1.7 and 3.2 of the Extraction Plan and Appendix E (Built Features Management Plans).
Extraction Plan		
Condition 77, Schedule 3	<p><i>The Proponent shall prepare and implement an Extraction Plan for all second workings on site to the satisfaction of the Secretary. Each extraction plan must:</i></p> <ul style="list-style-type: none"> <i>(a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary;</i> <i>(b) be approved by the Secretary before the Proponent carries out any of the second workings covered by the plan;</i> <i>(c) include detailed plans of existing and proposed first and second workings and any associated surface development;</i> <i>(d) include detailed performance indicators for each of the performance measures in Tables 14 and 15;</i> <i>(e) provide revised predictions of the potential subsidence effects, subsidence impacts and environmental consequences of the proposed second workings, incorporating any relevant information obtained since this approval;</i> <i>(f) describe the measures that would be implemented to ensure compliance with the performance measures in Tables 14 and 15, and manage or remediate any impacts and/or environmental consequences;</i> 	<p>Section 1.2 of the Extraction Plan and Attachment 2 (Relevant Consultation Records). This Application.</p> <p>Section 1.5 of the Extraction Plan and Appendix G (Subsidence Monitoring Program). Sections 3.1 and 3.2 of the Extraction Plan and Appendices A to F and H.</p> <p>Section 2.1 of the Extraction Plan and Technical Reports 1 to 5.</p> <p>Section 3 of the Extraction Plan and Appendices A to H.</p>

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Table A1-3 (Continued): Project Approval (05_0117) Requirements Relating to the Extraction Plan

Condition Number	Condition	Document Reference/Comment
Extraction Plan (Continued)		
Condition 77, Schedule 3 (Continued)	<p>(g) include a Built Features Management Plan, which has been prepared in consultation with Resources Regulator and the owners of affected public infrastructure, to manage the potential subsidence impacts and/or environmental consequences of the proposed second workings, and which:</p> <ul style="list-style-type: none"> i. addresses in appropriate detail all items of key public infrastructure and other public infrastructure and all classes of other built features; ii. has been prepared following appropriate consultation with the owner/s of potentially affected feature/s; iii. recommends appropriate remedial measures and includes commitments to mitigate, repair, replace or compensate all predicted impacts on potentially affected built features in a timely manner; and iv. in the case of all key public infrastructure, and other public infrastructure except roads, trails and associated structures, reports external auditing for compliance with ISO 31000 (or alternative standard agreed with the infrastructure owner) and provides for annual auditing of compliance and effectiveness during extraction of longwalls which may impact the infrastructure; <p>(h) include a Water Management Plan, which has been prepared in consultation with EPA and DPIE Water, which provides for the management of the potential impacts and/or environmental consequences of the proposed second workings on watercourses and aquifers, including:</p> <ul style="list-style-type: none"> i. surface and groundwater impact assessment criteria, including trigger levels for investigating any potentially adverse impacts on water resources or water quality; ii. a program to monitor and report stream flows, assess any changes resulting from subsidence impacts and remediate and improve stream stability; iii. a program to monitor and report groundwater inflows to underground workings; iv. a program to predict, manage and monitor impacts on groundwater bores on privately-owned land; and 	<p>Section 3.2 of the Extraction Plan, Attachment 2 (Relevant Consultation Records) and Appendix E (Built Features Management Plans).</p> <p>Section 3.1 of the Extraction Plan, Attachment 2 (Relevant Consultation Records), Appendix A (Water Management Plan) and Appendix H (Monitoring Program).</p>

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Table A1-3 (Continued): Project Approval (05_0117) Requirements Relating to the Extraction Plan

Condition Number	Condition	Document Reference/Comment
Extraction Plan (Continued)		
Condition 77, Schedule 3 (Continued)	<p>(i) include a Biodiversity Management Plan, which has been prepared in consultation with BCD, which provides for the management of the potential impacts and/or environmental consequences of the proposed second workings on aquatic and terrestrial flora and fauna, with a specific focus on threatened species, populations and their habitats; endangered ecological communities; and water dependent ecosystems;</p> <p>(j) include a Land Management Plan, which has been prepared in consultation with any affected public authorities, to manage the potential impacts and/or environmental consequences of the proposed second workings on land in general;</p> <p>(k) include a Heritage Management Plan, which has been prepared in consultation with BCD and relevant stakeholders for both Aboriginal and historic heritage, to manage the potential environmental consequences of the proposed second workings on both Aboriginal and non-Aboriginal heritage items, and reflects all requirements under conditions 38-39 of Schedule 3;</p> <p>(l) include a Public Safety Management Plan, which has been prepared in consultation with DRG, to ensure public safety in the mining area;</p> <p>(m) include a Subsidence Monitoring Program, which has been prepared in consultation with Resources Regulator, to:</p> <ul style="list-style-type: none"> i. describe the on-going subsidence monitoring program; ii. provide data to assist with the management of the risks associated with subsidence; iii. validate the subsidence predictions; iv. analyse the relationship between the predicted and resulting subsidence effects and predicted and resulting impacts under the plan and any ensuing environmental consequences; and v. inform the contingency plan and adaptive management process. <p>(n) include a contingency plan that expressly provides for adaptive management where monitoring indicates that there has been an exceedance of any performance measure in Tables 14 and 15, or where any such exceedance appears likely;</p>	<p>Section 3.1 of the Extraction Plan, Attachment 2 (Relevant Consultation Records) and Appendix C (Biodiversity Management Plan).</p> <p>Section 3.1 of the Extraction Plan, Attachment 2 (Relevant Consultation Records), Appendix B (Land Management Plan) and Appendix H (Monitoring Program).</p> <p>Section 3.1 of the Extraction Plan, Attachment 2 (Relevant Consultation Records) and Appendix D (Heritage Management Plan).</p> <p>Section 3.2 of the Extraction Plan, Attachment 2 (Relevant Consultation Records) and Appendix F (Public Safety Management Plan).</p> <p>Section 3.4 of the Extraction Plan and Appendix G (Subsidence Monitoring Program).</p> <p>Sections 4.1 and 4.2 of the Extraction Plan and Appendices A to F and H.</p>

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Table A1-3 (Continued): Project Approval (05_0117) Requirements Relating to the Extraction Plan

Condition Number	Condition	Document Reference/Comment
Extraction Plan (Continued)		
Condition 77, Schedule 3 (Cont.)	<p>(o) proposes appropriate revisions to the Rehabilitation Management Plan required under condition 68 of Schedule 3; and</p> <p>(p) include a program to collect sufficient baseline data for future Extraction Plans.</p> <p>Note: To identify the longwall mining domains referred to in this condition, see Appendix 2.</p>	<p>Sections 3.3 and 4.5 of the Extraction Plan.</p> <p>Attachment 3 (Program to Collect Baseline Data for Future Extraction Plans).</p>
Condition 78A, Schedule 3	<p>Prior to the commencement of second workings in longwall LW12, the Proponent shall:</p> <p>(a) prepare a report:</p> <ul style="list-style-type: none"> i. analysing the subsidence, surface water, and groundwater impacts of the cumulative progress of longwall mining for the project, including consideration of data collected from the previously mined panels up to and including commencement in longwall LW11; ii. updating the predicted impacts based on the available local data and current scientific understanding of these relevant fields (demonstrating compliance with the requirements of this approval); <p>(b) commission suitably qualified subsidence and groundwater experts whose appointment has been approved by the Secretary to review the report, and if necessary recommend changes to the monitoring programs and/or mine plan for subsequent panels; and</p> <p>(c) submit a copy of the report and expert review to the Department, Resources Regulator, BCD and DPIE Water, including a response to any recommendations contained in the expert review; to the satisfaction of the Secretary.</p> <p>Note: The locations of LW9-LW14 are marked in Appendix 7, figure 7.1</p>	<p>Section 4.3.3, Appendices A to B and H, and Technical Reports 1 to 3.</p>
Condition 78, Schedule 3	<p>The Proponent shall ensure that the management plans required under conditions 77(g)-(l) above include:</p> <p>(a) an assessment of the potential environmental consequences of the Extraction Plan, incorporating any relevant information that has been obtained since this approval; and</p> <p>(b) a detailed description of the measures that would be implemented to remediate predicted impacts.</p>	<p>Appendices A to F and H.</p>
First Workings		
Condition 79, Schedule 3	<p>The Proponent may carry out first workings on site other than in accordance with an approved Extraction Plan, provided that Resources Regulator is satisfied that the first workings are designed to remain long-term stable and non-subsiding, except insofar as they may be impacted by approved second workings.</p>	<p>Confirmation from the Resources Regulator was provided on 8 July 2019 that the proposed first workings for UG4 satisfied the requirements of Condition 79, Schedule 3 of Project Approval (05_0117).</p>

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Table A1-3 (Continued): Project Approval (05_0117) Requirements Relating to the Extraction Plan

Condition Number	Condition	Document Reference/Comment
Payment of Reasonable Costs		
Condition 80, Schedule 3	<i>The Proponent shall pay all reasonable costs incurred by the department to engage suitably qualified, experienced and independent experts to review the adequacy of any aspect of an Extraction Plan.</i>	If required, MCO will pay all reasonable costs incurred by DPPI to engage suitably qualified, experienced and independent experts to review the adequacy of any aspect of the Extraction Plan.

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Table A1-4: Requirements of Mining Leases 1605 and 1628 Relating to the Extraction Plan

Condition Number	Condition	Document Reference/Comment
Mining Lease 1605 and 1628		
7	<p>Rehabilitation</p> <p><i>Disturbed land must be rehabilitated to a sustainable/agreed end land use to the satisfaction of the Director-General.</i></p>	Section 3.3 of the Extraction Plan.
8 (amended)	<p>Subsidence Management</p> <p>(a) <i>The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface.</i></p> <p>(b) <i>Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls of miniwalls, associated first workings (gateroads, installation roads and associated main headings, etc), and pillar extractions, and are otherwise defined by the Applications for Subsidence Management Approvals guidelines (EDG17).</i></p> <p>(c) <i>The lease holder must not commence or undertake underground mining operations that will potentially lead to subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the Mine Health & Safety Act 2004, or the document New Subsidence Management Plan Approval Process – Transitional Provisions (EDP09).</i></p> <p>(d) <i>Subsidence Management Plans are to be prepared in accordance with the Guideline for Applications for Subsidence Management Approvals.</i></p> <p>(e) <i>Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 3 and will be subject to the Annual Environmental Management Report process as set out under Condition 4. The SMP is also subject to the requirements for subsidence monitoring and reporting set out in the document New Approval Process for Management of Coal mining Subsidence – Policy.</i></p>	This Extraction Plan.
16	<p>Safety</p> <p><i>Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.</i></p>	Appendix F (Public Safety Management Plan).

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Table A1-4 (Continued): Mining Lease 1605 Requirements Relating to the Extraction Plan

Condition Number	Condition	Document Reference/Comment
18	<p>Prevention of Soil Erosion and Pollution</p> <p><i>Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.</i></p>	Appendix A (Water Management Plan) and Appendix B (Land Management Plan).
19	<p>Transmission lines, Communication lines and Pipelines</p> <p><i>Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions he may stipulate.</i></p>	Appendix E (Built Features Management Plans).
21	<p>Roads and Tracks</p> <p>(a) <i>Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior written approval of the Director-General and subject to any conditions he may stipulate.</i></p> <p>(b) <i>The lease holder must pay to the designated authority in control of the road (generally the local council or the Roads and Traffic Authority) the cost incurred in fixing any damage to roads caused by operations carried out under the lease, less any amount paid or payable from the Mine Subsidence Compensation Fund.</i></p>	Appendix E (Built Features Management Plans).

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Table A1-5: Extraction Plan Guideline Requirements Relating to the Extraction Plan

Guideline Section	Requirement	Document Reference/Comment
Introduction		
1	<ul style="list-style-type: none"> Title Page, executive summary and table of contents 	Document Control page and Overview.
	<ul style="list-style-type: none"> Background 	Section 1.1 of the Extraction Plan.
	<ul style="list-style-type: none"> Plans of the approved development 	Section 1.5 of the Extraction Plan.
	<ul style="list-style-type: none"> Scope of the plan 	Section 1.2 of the Extraction Plan.
	<ul style="list-style-type: none"> Plan structure 	Section 1.4 of the Extraction Plan.
Plan Development and Consultation		
2	<ul style="list-style-type: none"> Statutory requirements 	Section 1.3.1 of the Extraction Plan.
	<ul style="list-style-type: none"> Specialist assessments 	Section 1.2 of the Extraction Plan.
	<ul style="list-style-type: none"> Review of previous subsidence predictions 	Section 2.1 of the Extraction Plan.
	<ul style="list-style-type: none"> Risk assessment 	Section 2.2 of the Extraction Plan.
	<ul style="list-style-type: none"> Avoidance and minimisation strategies (if applicable) 	Section 1.5 of the Extraction Plan.
	<ul style="list-style-type: none"> Consultation 	Section 2.3 of the Extraction Plan.
Subsidence Assessment		
3	<ul style="list-style-type: none"> Overview only 	Sections 1.6, 1.7, 1.8 and 2.1 of the Extraction Plan, and Technical Report 1.
Monitoring Programs		
4	<ul style="list-style-type: none"> Subsidence monitoring program 	Section 3.4 of the Extraction Plan and Appendix G (Subsidence Monitoring Program).

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Guideline Section	Requirement	Document Reference/Comment
Monitoring Programs (Continued)		
4 (continued)	<ul style="list-style-type: none"> • <i>Environmental monitoring program</i> <ul style="list-style-type: none"> - <i>Baseline data</i> - <i>Surface water flows and quality</i> - <i>Swamps (if applicable)</i> - <i>Groundwater flows and quality</i> - <i>Landforms</i> - <i>Biodiversity</i> - <i>Heritage features</i> - <i>Infrastructure and other built features</i> • <i>Ongoing baseline data collection program</i> 	Section 3.4 of the Extraction Plan.
		Attachment 3 (Program to Collect Baseline Data for Future Extraction Plans).
		Section 3.4, Technical Report 3, and Appendix A (Water Management Plan) and Appendix H (Monitoring Program).
		Not Applicable.
		Section 3.4, Technical Report 2-1, Technical Report 2-2, and Appendix A (Water Management Plan) and Appendix H (Monitoring Program).
		Section 3.4, Technical Report 1, and Appendix B (Land Management Plan) and Appendix H (Monitoring Program).
		Section 3.4, Technical Report 4, and Appendix C (Biodiversity Management Plan).
		Section 3.4, Technical Report 5, and Appendix D (Heritage Management Plan).
		Section 3.4, Technical Report 1 and Appendix E (Built Features Management Plans).
	Attachment 3 (Program to Collect Baseline Data for Future Extraction Plans).	
Management, Mitigation, Remediation and Reporting Measures		
5	<ul style="list-style-type: none"> • <i>Performance measures and performance indicators</i> • <i>Management and mitigation measures</i> • <i>Remediation and rehabilitation measures</i> • <i>Master TARP</i> • <i>Adaptive management and contingency planning</i> 	Sections 1.7, 3.1 and 3.2 of the Extraction Plan.
		Sections 3.1 and 3.2 of the Extraction Plan.
		Section 3.3 of the Extraction Plan.
		Appendices A, B, C, E, F and H.
		Sections 4.1 and 4.2 of the Extraction Plan.

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Guideline Section	Requirement	Document Reference/Comment
Management, Mitigation, Remediation and Reporting Measures (Continued)		
5 (continued)	<ul style="list-style-type: none"> Incidents, complaints, exceedances and non-compliances 	Section 4.3 of the Extraction Plan.
	<ul style="list-style-type: none"> Reporting, review and auditing 	Section 4.3 of the Extraction Plan.
Plan Administration and Responsibilities		
6	<ul style="list-style-type: none"> Review of other management plans 	Section 3 of the Extraction Plan.
	<ul style="list-style-type: none"> Review of the extraction plan 	Section 4.4 of the Extraction Plan.
	<ul style="list-style-type: none"> Key responsibilities 	Section 4.5 of the Extraction Plan.
References		
7	Any relevant reference to other documents	Section 5 of the Extraction Plan.
Appendices		
8	<ul style="list-style-type: none"> Key sub-plans 	Key component management plans are provided in Appendices A to H: <ul style="list-style-type: none"> Appendix A – Water Management Plan; Appendix B – Land Management Plan; Appendix C – Biodiversity Management Plan; Appendix D – Heritage Management Plan; Appendix E – Built Features Management Plans; Appendix F – Public Safety Management Plan; Appendix G – Subsidence Monitoring Plan; and Appendix H – The Drip, Corner Gorge and Goulburn River Monitoring and Reporting Program.
	<ul style="list-style-type: none"> Required mine plans 	Appendix G (Plans 1 to 7).

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Table A1-5 (Continued): Extraction Plan Guideline Requirements Relating to the Extraction Plan

Guideline Section	Requirement	Document Reference/Comment
Other attachments		
9	<ul style="list-style-type: none"> Specialist assessment reports 	Specialist assessment reports are provided in Technical Reports 1 to 5: <ul style="list-style-type: none"> Technical Report 1 – Subsidence Report; Technical Report 2-1 – Groundwater Technical Report; Technical Report 2-2 – Groundwater Trigger Level Review; Technical Report 3 – Surface Water Technical Report; Technical Report 4 – Biodiversity Technical Report; and Technical Report 5 – Aboriginal Cultural Heritage Technical Report.
	<ul style="list-style-type: none"> Coal resources recovery plan (if required) 	Not Applicable.

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Table A1-6: Commitments Relating to Moolarben Coal Complex UG4 LW401-408 Extraction Plan

Commitment Number	Commitment	Timing	Status	Notes
UG4 Extraction Plan LW401-408 Conditional Approval				
1	<p>The Proponent must prepare a site-specific subsidence monitoring and mitigation program for Aboriginal heritage site S1MC 280 to the satisfaction of the Secretary prior to the commencement of longwall mining of LW402. The program must include:</p> <p>a) a suitable “early warning” subsidence monitoring site above the LW402/LW403 row of chain pillars, at least several pillars inbye of the site, to monitor the subsidence effects and impacts of both LW402 and LW403 to determine the actual subsidence, tilt and strain figures, by comparison to the predicted values;</p> <p>b) a comprehensive Trigger Action Response Plan for both the “early warning” site listed in (a) above, and for monitoring at the site;</p> <p>c) a comprehensive mitigation plan for the site, to cover all actions to prevent any significant subsidence impact to Site S1MC 280 due to subsidence, tilt or strain, including</p> <p>i. the planned stress-relief slotting design</p> <p>ii. consideration of temporary support of the rock shelter overhang; and</p> <p>iii. design of a LW403 Panel face shortening, to leave some additional coal in the vicinity of the site.</p> <p>For the purposes of this condition, significant subsidence impact means:</p> <ul style="list-style-type: none"> overhang collapse; or cracking of sandstone that coincides with the Aboriginal heritage feature(s) of the site that make it significant; or rock fall that damages the Aboriginal heritage feature(s) of the site that make it significant that cannot be attributed to natural weathering or deterioration. 	Prior to commencement of LW402	Completed	A site-specific subsidence monitoring and mitigation program for Aboriginal Heritage Site S1MC280 was submitted on 7 December 2022 and was subsequently reviewed again on 1 September 2023.
2	<p>The Proponent must prepare a Final Geological Structural Analysis that extends over the entire UG4 area prior to the commencement of longwall mining of LW404 or as otherwise agreed by the Secretary. The analysis must include an assessment of whether there are any natural defects in the geology that could enhance or restrict groundwater migration and flow, and necessitate expanded monitoring and/or updated modelling</p>	Prior to commencement of LW404	Completed	The Final Geological Structural Analysis was submitted on 28 September 2023.

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Table A1-6 (Continued): Commitments Relating to Moolarben Coal Complex UG4 LW401-408 Extraction Plan

Commitment Number	Commitment	Timing	Status	Notes
3	<p>Prior to the commencement of longwall mining of LW404 or as otherwise agreed by the Secretary, the Proponent must update the numerical groundwater model and predictions to the satisfaction of the Secretary, including:</p> <ul style="list-style-type: none"> a) review and update the model conceptualisation for the leakage between the Triassic sandstones and the Permian overburden; b) review and update the model conceptualisation of surface water – groundwater connectivity; c) reassess aquifer drawdown predictions and water balance estimates particularly mine water inflow volumes and groundwater baseflow losses to the Goulburn River; d) reassess the predicted groundwater take; e) complete an independent peer review of the current and updated model by a technical expert endorsed by the Secretary f) consideration of the Final Geological Structural Analysis in Condition 4; g) provide revised predictions based on the updated numerical model including a detailed technical report on: <ul style="list-style-type: none"> (i) predicted cumulative impacts from approved mining; and (ii) predicted impacts of only the LW401-408 panels. 	Prior to commencement of LW404	Completed	Updated numerical groundwater model and predictions was submitted on 31 August 2023.
4	<p>The Proponent must install groundwater monitoring sites PZ195 and PZ194 prior to the commencement of longwall mining of LW401.</p>	Prior to commencement of LW401	Completed	The monitoring sites PZ195 and PZ194 were installed prior to commencement of LW401.
5	<p>Prior to 30 June 2023, or as otherwise agreed by the Secretary, the Proponent must install at least two water monitoring sites in the Goulburn River, upstream and downstream of the Drip respectively, within the State Conservation Area or National Park. The monitoring sites must have continuous monitoring of water level, pH, temperature, EC; and monthly monitoring of other water quality parameters.</p> <p>For the purposes of Condition 6, water monitoring data can be used from existing water monitoring sites outside the State Conservation Area or National Park with the agreement of the Secretary.</p>	Prior to 30 June 2023 ¹	Completed	The monitoring sites (SW02 and SW22) were installed in 2023.

¹ An extension of time request was granted on 22 June 2023 for MCO to install the two water monitoring sites in the Goulburn River prior to 31 December 2023.

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Table A1-6 (Continued): Commitments Relating to Moolarben Coal Complex UG4 LW401-408 Extraction Plan

Commitment Number	Commitment	Timing	Status	Notes
MCO Commitments relating to the IAPUM Recommendations on UG4 Extraction Plan LW401-408				
1	<i>MCO will install an array of GNSS monitoring stations, including designing the system (with input from MSEC).</i>	Within 18 months and prior to extraction of LW405	Completed	Installed progressively prior to commencement of LW405.
2	<i>MCO will develop a heritage Site S1MC280 Site Specific Subsidence Monitoring Program (inclusive of Trigger Action Response Plans and proposed mitigation measures).</i>	Prior to commencement of LW402	Completed	S1M280 Subsidence Monitoring and Mitigation Plan submitted in January 2023 and subsequently reviewed in September 2023.
3	<i>MCO will submit an interim report on geological structure to the Department.</i>	Prior to 30 June 2022	Completed	Interim report on geological structures submitted to DPE on 28 September 2023.
4	<i>MCO will provide an updated Groundwater Technical Report and associated Peer Review report.</i>	Prior to 30 April 2023	Completed	Updated Groundwater Technical Report submitted on 31 August 2023.
5	<i>MCO will provide End of Panel Groundwater Monitoring Reports for LW401, LW402 and LW403.</i>	Following completion of secondary extraction in LW401, LW402 and LW403	Completed	End of Panel Groundwater Monitoring Reports were submitted 22 December 2023.
6	<i>MCO will provide progressive environmental monitoring installation reports to DPE.</i>	Following installation of monitoring components specified in this Table	Completed	-

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Table A1-6 (Continued): Commitments Relating to Moolarben Coal Complex UG4 LW401-408 Extraction Plan

Commitment Number	Commitment	Timing	Status	Notes
7	<i>MCO will monitor groundwater levels/pressure at two locations representative of the eastern edges of LW401/402 and LW403/404, respectively.</i>	Prior to commencement of LW401	Completed	The monitoring sites (PZ195, PZ195B, PZ195C, and PZPZ194, PZ194B, PZ194C) were installed prior to commencement of LW401.
8	<i>MCO will install a VWP 500 m north of LW408.</i>	Prior to 31 December 2022	Completed	The monitoring site PZ235A was installed on 14 November 2022 and decommissioned on 20 December 2023. PZ235B was installed on 9 November 2022.
9	<i>MCO will install a VWP close to the eastern edge of UG4, between PZ192 and PZ105.</i>	Prior to 31 December 2022	Completed	The monitoring site PZ236 was installed in 2022.
10	<i>MCO will install nested VWPs and shallow standpipes at two locations in the vicinity of the Goulburn River.</i>	Prior to 30 June 2023	Completed	The monitoring sites PZ234A/B/C and PZ237A/B/C were installed in 2023.

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Table A1-6 (Continued): Commitments Relating to Moolarben Coal Complex UG4 LW401-408 Extraction Plan

Commitment Number	Commitment	Timing	Status	Notes
11	<i>MCO will develop performance indicators and trigger levels for new monitoring sites.</i>	When sufficient baseline data is available	Complete	Trigger levels for newly installed groundwater monitoring sites (PZ234 and PZ237) and performance indicator for SW02 and SW22 specified in Appendix H (Monitoring Program)
12	<i>MCO will extend the baseline inspection of the Goulburn River to a point downstream of Corner Gorge.</i>	Prior to completion of LW401 followed by 6 monthly until 1 year after completion of LW408	Complete	Baseline monitoring has been undertaken up to a point downstream of Corner Gorge.
			Ongoing	Further baseline inspection proposed.

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Table A1-6 (Continued): Commitments Relating to Moolarben Coal Complex UG4 LW401-408 Extraction Plan

Commitment Number	Commitment	Timing	Status	Notes
13	<i>MCO will establish an additional surface water monitoring location on the Goulburn River (to supplement data obtained from UCML SW02 under a data sharing agreement).</i>	As soon as practicable	Completed	SW02 was installed in 2023.
14	<i>MCO will undertake event based water quality monitoring in Drainages Lines 1 and 2 and establish trigger levels if sufficient data can be obtained.</i>	Following >30 mm rainfall in 24 hours (subject to safe access)	Ongoing	Due to ephemeral nature of DL2, preliminary triggers to be updated once sufficient baseline data collected.

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Table A1-7: Commitments Relating to UG4 LW401, LW402, LW403 – End of Panel Report

Commitment Number	Commitment	Timing	Status	Notes
MCO Commitments relating to the IAPUM Recommendations on UG4 LW401, LW402, LW403 – End of Panel Report				
1	<i>Confirm that PZ235A has been replaced by PZ235C.</i>	Not Applicable	Complete	Confirmed in MCO Response to IEAPM Recommendations (Letter Dated 15 March 2024).
2	<i>Clarify the Triassic sandstone water level trends at PZ235A/C and PZ236A (located north of proposed LW408).</i>	Not Applicable	Complete	Confirmed in MCO Response to IEAPM Recommendations (Letter Dated 15 March 2024).
3	<i>Closely monitor drawdown in the Triassic sandstone and Permian overburden groundwater systems north of LW408 to minimise dewatering in this sensitive area, so as to maintain hydraulic gradients from/to the Goulburn River.</i>	Prior to completion of LW408	Ongoing	Monitoring results to be presented in the UG4 LW401-407 End of Panel Report.
4	<i>Closely monitor surface water-groundwater connectivity north of LW408 to identify any unacceptable mining-induced impacts.</i>	Prior to completion of LW408	Ongoing	Monitoring results to be presented in the UG4 LW401-407 End of Panel Report.
5	<i>Report and focus on these shallow groundwater and surface water trends in future annual reports.</i>	Prior to completion of LW408	Ongoing	Monitoring results to be presented in the UG4 LLW401-407 End of Panel Report.

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Table A1-7 (Continued): Commitments Relating to UG4 LW401, LW402, LW403 – End of Panel Report

Commitment Number	Commitment	Timing	Status	Notes
6	<i>Prepare historical (annual) water balances since 2020/21 that can be quoted in future reports and used for future model verification/recalibration.</i>	Prior to completion of LW408	Ongoing	Monitoring results to be presented in the UG4 LW401-407 End of Panel Report.
7	<i>Update the Water Management Plan to describe the expanded water monitoring network and include additional Triassic sandstone monitoring sites as water level trigger locations to protect the Triassic sandstone groundwater system close to the Goulburn River and 'The Drip'.</i>	Prior to completion of LW408	Complete	The Water Management Plan has been revised as part of this Extraction Plan, and has included trigger levels for recently installed monitoring sites where sufficient data has been collated.
MCO Commitments relating to the DPE Recommendations on UG4 LW401, LW402, LW403 – End of Panel Report				
1	<p><i>The Department requests that in accordance with the advice, you provide an End of Panel Report after the extraction of LW407 (and before the completion of LW408) including:</i></p> <ul style="list-style-type: none"> <i>an assessment of subsidence predictions and actual impacts,</i> <i>data and trends for all underlying groundwater systems, and an assessment of impacts to the Triassic sandstone aquifer and its environmental and cultural assets adjacent to and downstream of the UG4 area,</i> <i>surface water data and trends for the Goulburn River adjacent to and downstream of the UG4 area, and</i> <i>an assessment of cultural heritage impacts.</i> 	Prior to completion of LW408	Ongoing	-

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Table A1-8: Commitments Relating to UG4 LW401-408 Extraction Plan Revised Groundwater Technical Report

Commitment Number	Commitment	Timing	Status	Notes
MCO Commitments relating to the DPE-Water Recommendations on UG4 LW401-408 Extraction Plan Revised Groundwater Technical Report				
1	<p><i>In response to DPE Water’s specific comments, MCO commits to:</i></p> <ul style="list-style-type: none"> <i>Provide relevant water usage to Water NSW to update the Water Accounting System (noting historically there has been issues providing this data, as the Department’s system requires evidence of metering, which is not relevant to mining-induced groundwater losses, which can only be calculated via a groundwater model as per the NSW Aquifer Interference Policy).</i> <i>Reporting on how water take for the next ‘water year’ will be licensed in the preceding Annual Review.</i> 	Not Applicable	-	-
2	<i>The proponent should commit to incorporating assessment criteria and a trigger action response plan (TARP) for groundwater take from each of the relevant water sources into the next revision of the water management plan.</i>	Not Applicable	-	-
3	<i>The proponent should install a nested groundwater monitoring site near PZ191, targeting discrete lithologies of the alluvium and stratigraphic units above the Ulan Seam. Installation should be completed as soon as practically possible, and no later than 30 June 2024.</i>	Not Applicable	Complete	Confirmed in MCO Response to DPE-Water Recommendations (Letter Dated 6 December 2023).
4	<i>The proponent should clarify whether the modelled drawdown predictions (both cumulative and those specifically related to the Moolarben Coal Complex) represent total maximum drawdowns or are representative of the mining or post mining phase.</i>	Not Applicable	Complete	Confirmed in MCO Response to DPE-Water Recommendations (Letter Dated 6 December 2023).

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Table A1-8 (Continued): Commitments Relating to UG4 LW401-408 Extraction Plan Revised Groundwater Technical Report

Commitment Number	Commitment	Timing	Status	Notes
5	<p>The proponent should incorporate the following in the next revision of any management plan:</p> <ul style="list-style-type: none"> any new monitoring bores constructed per recommendation 2.1 above, or others (eg. PZ194 and PZ195) and include monitoring data, trigger levels and TARPs in the next revision of the water management plan relevant protocols developed per recommendation 1.2 above to ensure accurate and timely reporting of groundwater take in the next revision of the water management plan 	Not Applicable	Ongoing	-
MCO Commitments relating to the IEAPM Recommendations on UG4 LW401-408 Extraction Plan Revised Groundwater Technical Report				
1	Confirm that drawdown in the Triassic sandstone aquifer has commenced across the LW401 to 408 area and provide a time estimate as to when this shallow groundwater system will be dewatered.	Not Applicable	Complete	Confirmed in MCO Response to IEAPM Recommendations (Letter Dated 14 November 2023).
2	Provide an explanation as to why cumulative drawdown in excess of 5m due to all approved mining extends north to the Goulburn River beneath the proposed UG4 LW409-414 area.	Not Applicable	Complete	Confirmed in MCO Response to IEAPM Recommendations (Letter Dated 14 November 2023).
3	Improve the groundwater baseflow estimates to the Goulburn River downstream of proposed LW410 by committing to the installation of gauging stations upstream and downstream of 'The Drip' within the next 6 months.	Prior to 31 December 2023	Complete	Surface water monitoring sites SW02 and SW22 were installed in 2023.
4	Validate the nature of the local inferred fault that straddles LW406 and LW407 once mining intersects it.	Within 6 months of intersecting the fault	Complete	-

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Table A1-8 (Continued): Commitments Relating to UG4 LW401-408 Extraction Plan Revised Groundwater Technical Report

Commitment Number	Commitment	Timing	Status	Notes
5	<i>Install nested triple standpipes close to the Goulburn River (two sites) (monitoring alluvium if present, Triassic sandstone, and Permian ICM overburden) north of PZ101 and west of PZ128 in the vicinity of SW02, and at a second location near or downstream of SW01 (subject to suitable site access and appropriate approvals from National Parks).</i>	Prior to 31 December 2023	Complete	The monitoring sites PZ234A/B/C and PZ237A/B/C were installed in 2023.
6	<i>The installation of these standpipes (and two new nearby gauging stations as recommended above) is a priority; essential to establish the current 'baseline' conditions before the drawdowns within the UG4 area start affecting water table gradients in the Triassic sandstone south of the Goulburn River.</i>	Not Applicable	-	No comment/response required.
7	<i>Install new shallow standpipes into the Triassic sandstone in the area immediately north of 'The Drip' (subject to assess [SIC access] constraints) to confirm the separation of perched and regional water tables feeding 'The Drip' and the Goulburn River respectively.</i>	Not Applicable	Ongoing	MCO notes the installation of additional groundwater monitoring bores immediately north of the Drip are subject to ongoing discussion with the relevant landholder regarding an access agreement.
8	<i>Replace standpipe PZ236A (Triassic sandstone) as soon as practicable if it is deemed unreliable.</i>	Not Applicable	Complete	Replacement of standpipe PZ235A was completed in 2023 with PZ235C. <i>Note: it is assumed this recommendation is referring to PZ235A.</i>

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Table A1-8 (Continued): Commitments Relating to UG4 LW401-408 Extraction Plan Revised Groundwater Technical Report

Commitment Number	Commitment	Timing	Status	Notes
9	<i>Install standpipe PZ-A as committed to in the current Water Management Plan for LWs401-408 to monitor shallow groundwater west of LW409.</i>	Not Applicable	Complete	The monitoring site PZ-A (now PZ233) was installed in August 2025. Final trigger levels will be established once sufficient baseline data has been collected (indicatively Q4 2026).
DPE Conditional Approval of UG4 LW401-408 Extraction Plan Revised Groundwater Technical Report Commitments				
1	<i>The Applicant must validate the nature of the local inferred fault that straddles Longwalls LW406 and LW407. Within eight weeks of the intersection of the fault, unless otherwise agreed by the Secretary, a validation report must be submitted to the Department that includes analysis of data collected from the existing monitoring network, including the PZ103C standpipe and PZ103D vibrating wire piezometer.</i>	Within 8 weeks of intersecting the fault	Complete	-
2	<i>By 30 March 2024, the Applicant must provide an update to the Department on the progress of investigations to confirm the separation of perched and regional water tables feeding 'The Drip' and the Goulburn River, respectively. Investigations must include the installation new shallow standpipes into the Triassic sandstone in the area immediately north of 'The Drip'.</i>	Prior to 30 March 2024	Complete	MCO confirmed satisfaction with Condition 2 of the Conditional Approval in a letter dated 29 March 2024.
3	<i>The Applicant must install groundwater monitoring site PZ-A no later than 30 June 2024, unless otherwise agreed by the Secretary.</i>	Prior to 30 June 2024 ¹	Complete	The monitoring site PZ-A (now PZ233) was installed in August 2025. Final trigger levels will be established once sufficient baseline data has been collected (indicatively Q4 2026).

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Table A1-8 (Continued): Commitments Relating to UG4 LW401-408 Extraction Plan Revised Groundwater Technical Report

Commitment Number	Commitment	Timing	Status	Notes
4	<p><i>Unless otherwise agreed by DPE Water, the Applicant must install an additional nested groundwater monitoring site near PZ191 and by 30 June 2024, to demonstrate ongoing consensus between conceptualisation and modelling of alluvium contact with the Goulburn River / Goulburn River Diversion.</i></p> <p><i>The Applicant may recommend to DPE Water alternative monitoring arrangements to achieve the same outcome, for their consideration.</i></p>	Prior to 30 June 2024 ²	Complete	Groundwater Monitoring Sites PZ240 and PZ241 were installed in July 2024.
5	<p><i>By 16 February 2024, the Applicant must:</i></p> <p><i>(a) submit a schedule to the Department outlining how residual water take requirements will be obtained prior to water take occurring; and</i></p> <p><i>(b) incorporate assessment criteria and a trigger action response plan for groundwater take from each of the relevant water sources into the next revision of the water management plan.</i></p>	Prior to 16 February 2024	Complete	MCO confirmed satisfaction with Condition 5 of the Conditional Approval in a letter dated 12 February 2024.

¹ An extension of time request was granted on 27 September 2024 for MCO to install PZ-A prior to 21 February 2025.

² An extension of time request was granted on 29 June 2024 for MCO to install the additional nested groundwater monitoring sites prior to 30 September 2024.

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