



Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

RUSSELL VALE COLLIERY

RUSSELL VALE REVISED UNDERGROUND EXPANSION PROJECT

PUBLIC SAFETY MANAGEMENT PLAN

STAGES ONE and TWO - PC07, PC08 & PC21 to PC25 and PC27 to PC34

RVC EC PLN 009

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

Revision history

Property	Value
Approved by	Group Environment Manager
Document Owner	Group Environment Coordinator
Effective Date	

Revisions

Version	Date reviewed	Review team (consultation)	Nature of the amendment
D1 (Version 1)	03/08/2021	WCL	Draft document for consult
D2 (Version 1)	07/10/2021	WCL	Final draft for submission to DPE
D3 (Version 1)	18/11/2021	WCL	Final version following response to regulators
0	06/12/2021	-	Final as approved
D1 (Version 2)	04/04/2022	Luke Bettridge (Umwelt) / WCL	Updated to include "Stage 2" workings, PC27 to PC34.
D1 (Version 3)	31/05/2022	David Holmes (Umwelt) / WCL	Updated post stakeholder feedback
F1	31/05/2022	David Holmes (Umwelt)/WCL	Finalisation for submission to DPE

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

Contents

1	INTRODUCTION	5
1.1	Overview	5
1.2	Project Background	5
1.3	Extraction Plan Areas	5
1.4	Mine Design and Mining Method.....	6
1.5	Public Safety Features Covered by this Plan.....	6
2	STATUTORY REQUIREMENTS.....	9
2.1	Development Consent.....	9
2.2	Leases, Licenses and Permits.....	13
2.3	Consultation.....	13
2.3.1	Consultation During the Environmental Assessment Process.....	13
2.3.2	Consultation During the Preparation of the Management Plan.....	14
2.4	Report Structure	15
3	BASELINE.....	16
3.1	Site Description.....	16
4	PREDICTED SUBSIDENCE IMPACTS	18
5	PERFORMANCE MEASURES AND CRITERIA.....	19
5.1	Performance Measures.....	19
5.2	Adaptive Management.....	19
6	MONITORING AND REPORTING.....	22
6.1	Monitoring.....	22
6.1.1	Transport for NSW Infrastructure.....	22
6.1.2	Electrical Transmission Lines	22
6.1.3	Unsealed Access Roads and Fire Trails	22
7	MITIGATION AND MANAGEMENT STRATEGIES.....	23
7.1	General.....	23
7.2	RVC Environmental Management System.....	23
7.3	Trigger Action Response Plan (TARP).....	26
7.4	Contingency Plan	29
7.4.1	WaterNSW Special Areas.....	29
7.4.2	Built Features.....	30
7.4.3	Steep Slopes	30

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

7.5	Potential Incident Notifications	30
8	INCIDENTS, COMPLAINTS AND NON-COMPLIANCES	31
8.1	Incidents.....	31
8.2	Complaints Handling.....	31
9	REPORTING.....	32
10	PLAN ADMINISTRATION	33
10.1	Roles and Responsibilities	33
10.2	Resources Required.....	33
10.3	Training.....	33
10.4	Inductions.....	33
11	AUDIT AND REVIEW	35
11.1	Annual Review	35
11.2	Auditing.....	35
11.3	Plan Revision.....	36
12	REFERENCES	37
13	GLOSSARY OF TERMS AND ABBREVIATIONS	38
	APPENDIX A – TRIGGER ACTION RESPONSE PLAN.....	41
	APPENDIX B – CONSULTATION	44

Figures

Figure 1 - Russell Vale Colliery Locality Plan.....	7
Figure 2 - Public Safety Features	8
Figure 3 Adaptive Management Process.....	21
Figure 4 Environmental Management Framework.....	25
Figure 5 TARP Process.....	28

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

1 INTRODUCTION

1.1 Overview

Wollongong Coal Limited (WCL) operates the Russell Vale Colliery (RVC) (formerly the NRE No.1 Colliery) located in the Southern Coalfield of New South Wales (NSW). The mine is located at Russell Vale, approximately 8 km north of Wollongong and 70 km south of Sydney, within the local government areas (LGAs) of Wollongong and Wollondilly in the Illawarra region of NSW (Figure 1).

This Public Safety Management Plan (PSMP) has been prepared in support of an Extraction Plan (EP), as required by Condition 10 (g) (vii) of Development Consent MP09_0013 (the Development Consent).

As per the approved author appointment by the Department of Planning, Industry and Environment (DPIE) on 20/01/2022, this plan has been prepared by Luke Bettridge, Principal Environmental Scientist of Umwelt.

1.2 Project Background

RVC operates under the current Development Consent granted by the NSW Independent Planning Commission (IPC) on 8 December 2020. The Development Consent, known as the Underground Expansion Project (UEP), is based on the Revised Preferred Project Report (RPPR) and Response to Second PAC Review by Umwelt Environmental and Social Consultants Pty Ltd (Umwelt) dated July 2019. Under the Development Consent WCL may:

- extract 1.2 Mt of Run of Mine (ROM) coal per annum, with a maximum of 1 Mt of ROM coal being processed from site in a calendar year
- undertake mining operations for a period of five years from the date of commencement of mining operations.

The approved workings are contained within Consolidated Coal Lease 745 (CCL 745) and Mining Lease 1575 (ML 1575). In accordance with Condition C10(g)(ii), Part C of the Development Consent, this Public Safety Management Plan (PSMP) has been prepared as a component of the Russell Vale Colliery Extraction Plan (RVC EP) to manage the potential impacts to public safety features located in proximity to the proposed bord and pillar workings defined as being 'second workings' under MP09_0013. This PSMP covers the area relating to Pillars PC7, PC8 and PC 21 to PC25. PC7, PC8 and PC 21 to PC25 are situated to the west (PC21 to PC25), and south-east (PC7 and PC8) of the previously mined Longwall 6 (refer to **Figure 1**).

The secondary workings for the remaining panels approved under Development Consent MP_09_0013 will be mined in a staged approach and will therefore be subject to future Extraction Plans (EP).

1.3 Extraction Plan Areas

This PSMP applies to the EP Areas indicated in Figure 1 and incorporates features above panels PC07, PC08, PC21 to PC25 and PC27 to PC34.

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

The EP areas are located entirely within the 'Metropolitan Special Area' managed by Water NSW. The Metropolitan Special Area is a restricted area and cannot be accessed by the public, except with the specific consent of WaterNSW. This area is accessed by WNSW, WCL personnel and contractors for monitoring activities.

1.4 Mine Design and Mining Method

Full details on the EP Area mine design and mining method are outlined within the main EP. This LMP covers the mining plan layout found in Figure 1 and includes:

- one panel (PC21) and 4 sub-panels (PC22, PC23, PC24 and PC25) to the west of Mount Ousley Road adjacent to the Cataract Storage Reservoir
- two panels (PC07 and PC08) to the east of Mount Ousley Road.
- eight panels (PC27 to PC34) adjacent to the Cataract Creek Storage Reservoir.

Section 2 of the main EP, 'Project Description', provides a full summary of the project, including details on the:

- mine planning and design
- mining methodologies
- phasing of the surface infrastructure relating to the project
- staging of second workings
 - stage 1 (a)– PC07 and PC08
 - stage 1 (b) - PC21 and PC22 to PC25
 - stage 2 – PC27 to PC34.

1.5 Public Safety Features Covered by this Plan

The purpose of this PSMP is to document the potential risks to public safety associated with the Stage 1 and Stage 2 EP Areas and detail any measures to manage these risks.

This PSMP addresses the potential risks to public safety posed by the following hazards:

- potential impacts of subsidence on built features
- potential instability of steep slopes resulting from subsidence
- deformation or fracturing of land due to subsidence.

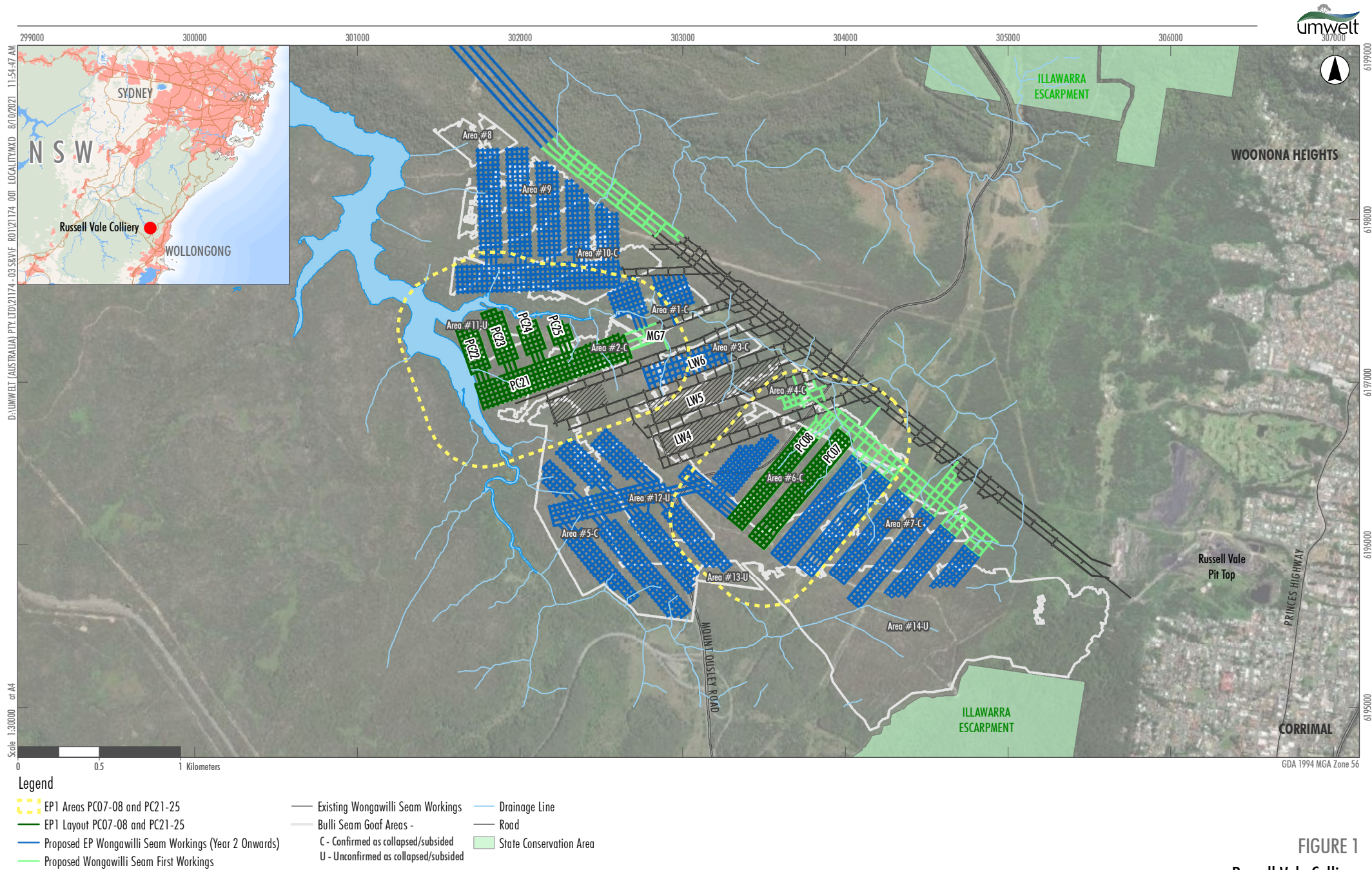






FIGURE 1
Russell Vale Colliery
Locality Plan



FIGURE 2

-  EP1 Areas PC07-08 and PC21-25
-  Proposed Wongawilli Seam 1st Workings
-  Proposed EP Wongawilli Seam Workings (Year 2 Onwards)
-  EP1 Layout PC07-08 and PC21-25

— Existing Wongawilli Seam Workings - - - Unsealed Access Roads and Fire Trails
 — Bulli Seam Goaf Areas - ■ Power Line
 C - Confirmed as collapsed/subsided ■ Transmission Tower Power Line
 U - Unconfirmed as collapsed/subsided ● Substation

- Cliffs (rock faces > 10 m high)
- Steep slopes (extended slopes > 1V:1H)
- Drainage Line
- Road

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

2 STATUTORY REQUIREMENTS

2.1 Development Consent

Condition C10 (g) (vii) of the Development Consent requires the preparation of a PSMP as a component of an EP.

Table 1 summarises the Development Consent conditions relevant to the PSMP.

In accordance with Condition C10 of the Development Consent, WCL will ensure implementation of this management plan upon approval by the Secretary.

Table 1 Extraction Plan Requirements

Condition	Condition Requirement	Section Addressed
Condition A1	Obligation to Minimise Harm to the Environment In addition to meeting the specific performance measures and criteria, the Applicant must implement all reasonable and feasible measures to prevent, and if prevention is not reasonable and feasible, minimise, any material harm to the environment that may result from the construction and operation of the development, and any rehabilitation required under this consent.	Section 7 and Appendix A
Condition C1	Performance Measures - Natural and Heritage Features etc The Applicant must ensure that the development does not cause any exceedances of the performance measures in Table 6 (refer to table in Development Consent), to the satisfaction of the Secretary. Note: <ul style="list-style-type: none">The Applicant 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 consent.	Section 5
Condition C2	Performance Measures - Natural and Heritage Measurement and monitoring of compliance with performance measures and performance indicators in this consent 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 and monitoring programs. In the event of a dispute over the appropriateness of proposed methods, the Planning Secretary will be the final arbiter."	Section 5
Condition C10	Extraction Plan	The Extraction Plan

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

Condition	Condition Requirement	Section Addressed
	The Applicant must prepare an Extraction Plan for all second workings on site to the satisfaction of the Secretary. The Extraction Plan must: (a) Be prepared in consultation with RR, DPIE Water and WaterNSW and by suitably qualified and experienced person/s whose appointment has been endorsed by the Secretary;	
	(b) Be approved by the Secretary before the Applicant carries out any second workings covered by the plan;	The Extraction Plan
	(g) describe in detail the performance indicators that would be implemented to ensure compliance with the performance measures in Tables 5 and 6, and manage or remediate any impacts and/or environmental consequences to meet the rehabilitation objectives in Table 4;	Section 5
	(g) (vii) Prepare a Public Safety Management Plan which has been prepared in consultation with NSW RR and WaterNSW, which ensures public safety and manages access on the site;	This PSMP Section 2.3
Condition F4	<p>Adaptive Management</p> <p>The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and/or performance measures in this consent. Any exceedance of these criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation, notwithstanding offsetting actions taken.</p> <p>Where any exceedance of these criteria and/or performance measures has occurred, the Applicant must, at the earliest opportunity:</p> <p>(a) Take all reasonable and feasible steps to ensure that the exceedance ceases and does not re-occur.</p> <p>(b) Consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action.</p> <p>(c) Within 14 days of the exceedance occurring, submit a report to the Secretary describing these remediation options and any preferred remediation measures or other course of action: and</p> <p>(d) Implement remediation measures as directed by the Planning Secretary.</p> <p>to the satisfaction of the Secretary.</p>	Section 5.2

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

Condition	Condition Requirement	Section Addressed
Condition F5	<p>Management Plan Requirements</p> <p>Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:</p> <p>(a) A summary of relevant background or baseline data.</p> <p>(b) Details of:</p> <p>(i) The relevant statutory requirements (including any relevant consent, licence or lease conditions);</p> <p>(ii) Any relevant limits or performance measures and criteria; and</p> <p>(iii) The specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures.</p> <p>(c) Any relevant commitments or recommendations identified in the document/s listed in condition A2;</p> <p>(d) A description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria.</p> <p>(e) A program to monitor and report on the:</p> <p>(i) Impacts and environmental performance of the development; and</p> <p>(ii) Effectiveness of the management measures set out pursuant to condition F5(c).</p> <p>(f) A contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible.</p> <p>(g) A program to investigate and implement ways to improve the environmental performance of the development over time.</p> <p>(h) A protocol for managing and reporting any:</p> <p>(i) Incident, non-compliance or exceedance of any impact assessment criterion or performance criterion.</p> <p>(ii) Complaint; or</p> <p>(iii) Failure to comply with other statutory requirements.</p> <p>(i) Public sources of information and data to assist stakeholders in understanding environmental impacts of the development; and</p>	<p>Section 3</p> <p>Section 5</p> <p>Section 5</p> <p>This plan</p> <p>Section 7</p> <p>Section 6</p> <p>Section 7 and Section 11</p> <p>Section 7.3</p> <p>Section 9</p> <p>Section 11</p>

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

Condition	Condition Requirement	Section Addressed
	(j) A protocol for periodic review of the plan.	
Condition F7	<p>Management Plan Requirements</p> <p>Within three months of:</p> <p>(a) the submission of an incident report under condition F9;</p> <p>(b) the submission of an Annual Review under condition F11;</p> <p>(c) the submission of an Independent Environmental Audit under condition F13; or</p> <p>(d) the approval of any modification of the conditions of this consent (unless the conditions require otherwise);</p> <p>the suitability of existing strategies, plans and programs required under this consent must be reviewed by the Applicant.</p>	Section 11
Condition F8	<p>If necessary, to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans and programs required under this consent must be revised, to the satisfaction of the Planning Secretary. Where revisions are required, the revised document must be submitted to the Planning Secretary for approval within 6 weeks of the review.</p> <p>Note: This is to ensure strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development.</p>	Refer to the Extraction Plan
Condition F9	<p>Incident Notification</p> <p>The Applicant must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must identify the development (including the development application number and name) and set out the location and nature of the incident.</p>	<p>Section 7.4</p> <p>Section 8</p>
Condition F10	<p>Non-Compliance Notification</p> <p>Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must set out the condition of this consent that the development is non-compliant with, why it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance</p>	Section 8

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

Condition	Condition Requirement	Section Addressed
Condition F11 and F12	Annual Review By the end of March each year after the commencement of the development under this consent, or other timeframe agreed by the Planning Secretary, a report must be submitted to the Department reviewing the environmental performance of the development, to the satisfaction of the Planning Secretary.	Section 11

2.2 Leases, Licenses and Permits

In addition to the requirements of the Development Consent, all activities at or in association with the Russell Vale Colliery are undertaken in accordance with the relevant conditions outlined within the licences, permits and leases in **Table 2**.

Table 2 Licences, Permits and Leases

Licence and/or Approval	Document Number	Issue Date	Expiry Date
Consolidated Coal Lease (CCL)	745	27/12/1990	30/12/2023
Mining Purposes Lease (MPL)	271	09/05/1991	09/05/2033
Mining Lease (ML)	1575	22/03/2012	22/03/2029
Special Area Consent	F2020/3092	04 March 2021	03 March 2026

2.3 Consultation

2.3.1 Consultation During the Environmental Assessment Process

Extensive community and government consultation has been carried out prior to and during the preparation of the original environmental assessment, the RPPR, the Submissions Report and other project-related assessment documentation. The primary objective of consultation was to keep the community, government agencies and other stakeholders informed and involved during project development process.

Community engagement was carried out in two phases and is summarised in Section 4.1.2 and Section 4.1.3 of the RPPR.

A complete summary of previous and ongoing government agency and stakeholder consultation is provided in Table 4.5 of the RPPR.

Consulted parties of relevance to this PSMP included:

- the Department of Planning and Environment (DPE) formerly Department of Planning, Industry and Environment (DPIE) (Stage 1 and Stage 2 EP)
- DPIE Mining Resources Regulator (NSW RR)
- WaterNSW

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

2.3.2 Consultation During the Preparation of the Management Plan

In accordance with Condition C10 (g) (vii) of the Development Consent, this PSMP has been prepared in consultation with the NSW RR and WaterNSW.

The consultation undertaken as part of the preparation of the management plan is included in Table 3. The information contained in **Table 3** refers to consultation undertaken under the Stage 1 and Stage 2 of the EP.

Table 3 Consultation Undertaken as Part of the Preparation of this Management Plan

Agency name	Issue	Where issue is addressed in Management Plan
Stage 1 EP		
DPIE	This table to be completed on finalisation of Management Plan	Comments will be included in Appendix B of the main EP.
WaterNSW	<p>a. Section [2.2] Table [2] must list the Special Area Consent (Consent No. F2020/3092; commenced on 4th March 2021 and valid until 3rd March 2026) – Issued by WaterNSW under Division 1 of Part 3 of the Water NSW Regulation 2020.</p> <p>b. Section 6.1.3 - WCL is responsible for any damage caused to fire trails due to its surface activities and must have mitigation and contingency measures in place to ensure all WaterNSW fire trails are safe, serviceable and repaired as soon as practical.</p> <p>c. Section 7.1 Para 4 – reference to WaterNSW Standard Conditions must be deleted. Applicable conditions and requirements are listed in WCL's Special Areas Consent (F2020/3092) and in any approvals including specific activity approvals issued by WaterNSW under Part 5 of the EP&A Act.</p> <p>d. Section 7.3.1 – WaterNSW Special Areas: Reference to WaterNSW track maintenance guidelines (including the Track Stabilisation and Control Manual) needs to be deleted as it is no longer used by WaterNSW. Recommended guidelines are specified in Schedule 5 of WCL's Special Areas Access Consent. Schedule 7 of WCL's Access Consent also specifies WaterNSW's road and fire trail rules and Schedule 4 specifies roads and fire trails WCL can access within the Metropolitan Special Areas. A list of the most relevant ones overlying the Russell Vale Colliery proposed extraction area must be listed here that will be utilized, monitored and maintained.</p>	<p>a. Section 2.2 Table 2</p> <p>b. Section 6.1.3</p> <p>c. Section 7.1</p> <p>d. Section 7.3.1</p>

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

Agency name	Issue	Where issue is addressed in Management Plan
NSW RR	No specific comments re the PSMP. Comments relating to the main EP are located in Appendix E of the EP document.	N/A
Stage 2 EP		
DPE	Regular engagement throughout process. No specific comments provided in relation to Public Safety in relation to Stage 2. Plan reviewed by DPE as part of approval process	N/A
WaterNSW	A response was received by WaterNSW on 27 April 2022. No specific comments relating to extraction of Stage 2 area.	N/A
NSW RR	A response was received by NSW RR on 13 May 2022. No specific comments provided in response to Stage 2 bord and pillar workings.	Refer to response provided to NSW RR on 31 May 2022 outlined in Appendix B.

Consultation is presented in **Appendix B**.

2.4 Report Structure

The remainder of this PSMP is structured as follows:

Section 2: Outlines the statutory requirements applicable to the Plan.

Section 3: Outlines the baseline data and impact assessments undertaken which support this PSMP.

Section 4: Describes the predicted subsidence applicable to public safety features.

Section 5: Details the performance measures and indicators that will be used to assess the Project.

Section 6: Describes the monitoring program and reporting requirements.

Section 7: Describes the management, remediation and mitigation measures that will be implemented to reduce potential impacts as well as the contingency plan to manage any unpredicted impacts and their consequences.

Section 8: Describes the protocols for the handling of incidents, complaints and non-compliances.

Section 9: Details the plan administration requirements.

Section 10: Details how the Plan will be implemented, managed, reviewed and updated.

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

3 BASELINE

This section is based on the subsidence assessment (SCT, 2019) conducted for the RPPR and the associated environmental assessment reports, and the updated subsidence reports for Stage 1 and Stage 2 EP Areas (SCT, 2021; SCT, 2022) as prepared in accordance with the **Condition C10(e)** of the Development Consent.

3.1 Site Description

The Stage 1 and Stage 2 EP Areas are located entirely within the 'Metropolitan Special Area' managed by WaterNSW. The Metropolitan Special Area is a restricted area and cannot be accessed by the public, except with the consent of WaterNSW. This area is accessed by WCL personnel and contractors for monitoring activities and access to its facilities in the catchment. The Metropolitan Special Area is also accessed by WaterNSW personnel. Access to the area to the west of the M1 is primarily via Fire Road 7D, and 7M, whilst to the East primarily via the Brokers nose Access track. Mount Ousley Road is a public road that passes through the Metropolitan Special Area.

Known natural surface features in the EP Areas that have the potential to affect public safety are managed within the Land Management Plan (LMP) (RVC EC PLN 035).

Hazards associated with the following built surface features are possible, however are expected to be minor and manageable with the appropriate risk control measures (refer to section 4 of the Built Features Management Plan (BFMP) (RVC EC PLN 002):

- Mount Ousley Road (now M1 Princes Motorway)
- Picton Road Interchange
- high voltage electricity transmission lines east of Mount Ousley Road
- mine infrastructure (exploration boreholes, electricity lines, and ventilation shafts)
- other roads (dirt roads and fire trails)
- decommissioned, WCL owned powerline.

Locations of these surface features are shown in **Figure 2**.

Mount Ousley Road (now M1 Princes Motorway) runs in a north-easterly direction over the previous mining leases. The interchange with Picton Road is located at the southern boundary and includes a concrete bridge and several drainage culverts. These assets are administered by Transport for NSW (TfNSW) and are addressed within the BFMP a sub plan to the main EP.

Located to the east of Mount Ousley Road in a common easements a 330 kV transmission line owned by TransGrid, and a 132 kV transmission line owned by Endeavour Energy. To the east of this line is another easement following a similar alignment for the Endeavour Energy with two single pole 33 kV transmission lines. Crossing into the northern portion of the Stage 2 EP Area is a decommissioned, WCL owned mining powerline.

A telecommunications installation is located adjacent the Illawarra Escarpment at Brokers Nose, approximately 600 m from the nearest proposed second workings. There is no potential for subsidence movements from either the mains headings or the planned mining of Panels PC07, PC08 and PC21-PC25 to impact on the Telstra infrastructure located adjacent to Brokers Nose



Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

because this infrastructure is located on the opposite side of main heading pillars in the Bulli Seam to the areas of proposed mining in the Wongawilli Seam. As a result Telstra infrastructure is not considered further in this plan.

Management of the built features assets discussed above is outlined in the BFMP.

There are no public amenities, agricultural lands, industrial/commercial establishments, or residential properties within the EP Areas. The EP Areas are not in a Subsidence Advisory NSW Mine Subsidence District (Subsidence Advisory, 2022).

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

4 PREDICTED SUBSIDENCE IMPACTS

SCT have completed the Russell Vale Colliery: Subsidence Assessments for PC07-08 and PC21-25, and PC27 - 34 (SCT, 2021; SCT, 2022a). The Subsidence Assessments determined that the mine design is not considered to have any potential to perceptibly impact on public safety.

Planned mining is not expected to cause perceptible subsidence effects or impacts to the powerlines, so no additional risk to public safety is expected. However, monitoring of the powerlines during the period of active mining is considered an appropriate risk control measure for this infrastructure and is presented within the BFMP.

Any potential impacts to Mount Ousley Road and the associated risk to public safety will also be managed within the BFMP which has been developed in consultation with TfNSW. The BFMP also presents proposed monitoring for any potential impacts from previous longwall mining in the Wongawilli Seam.

Any potential impacts to steep slopes and the associated risk to public safety are managed within the LMP (RVC EC PLN 035). It is noted, however that the mine design is not considered to have any potential to perceptibly impact on natural surface features including steep slopes, however it should be recognised that there is always potential for rock falls to occur naturally as part of the ongoing erosion process. Proposed mining is not expected to increase this potential.

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

5 PERFORMANCE MEASURES AND CRITERIA

5.1 Performance Measures

Performance measures for the management of public safety are set out in Table 6 of Condition C7 of the Development Consent and are reproduced here in **Table 4**.

Table 4 Subsidence Impact Performance Measures

Feature	Performance Measures	Performance Indicator	Monitoring
Public Safety			
Public Safety	Negligible additional risk	<ul style="list-style-type: none"> no impacts affecting the trafficability of fire trails and access tracks management of risks associated with steep slopes no impacts on public roads that would affect the safety of motorists. 	Visual inspection. Monitoring related to the M1 / Mt Ousley Road assets, survey markers, and Transmission Lines which are not owned by WCL. Refer to BFMP for M1 monitoring.

Public safety management will be undertaken in accordance with the process described in **Figure 3**.

5.2 Adaptive Management

Where investigations triggered by the TARPS indicate that the changed conditions of sites have been, or are likely to have been, caused by mining operations, the response to these impacts include adaptive management measures to ensure further impacts to the site will not occur or be mitigated, or that impacts to future sites do not occur in the future. Due to the nature of the proposed mining and low likelihood of underground mining resulting in any impacts to the site provided subsidence impacts remain within predictions, these adaptive management measures that will be implemented, will be considered in the investigation process. Adaptive management measures to be implemented in the event of a clear linkage between the mining authorised under the Development Consent and Public Safety Management Plan will include a review of the design and layout of future mining within areas that may potentially impact on such items to avoid a recurrence of any such impacts.

These adaptive management measures include:

- stop mining in the area and investigate causes of the potential exceedance of subsidence predictions.
- undertake a review of the panel design parameters in consultation with the NSW RR and affected stakeholders as required.

The Contingency Planning process set out in **Section 7.3** also covers this process.

The purpose of the adaptive management measures are to implement additional measures where necessary to:

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

- enable potential impacts associated with higher than predicted subsidence impacts to be monitored; and/or
- implement changes in mining operations to prevent performance criteria from being exceeded.

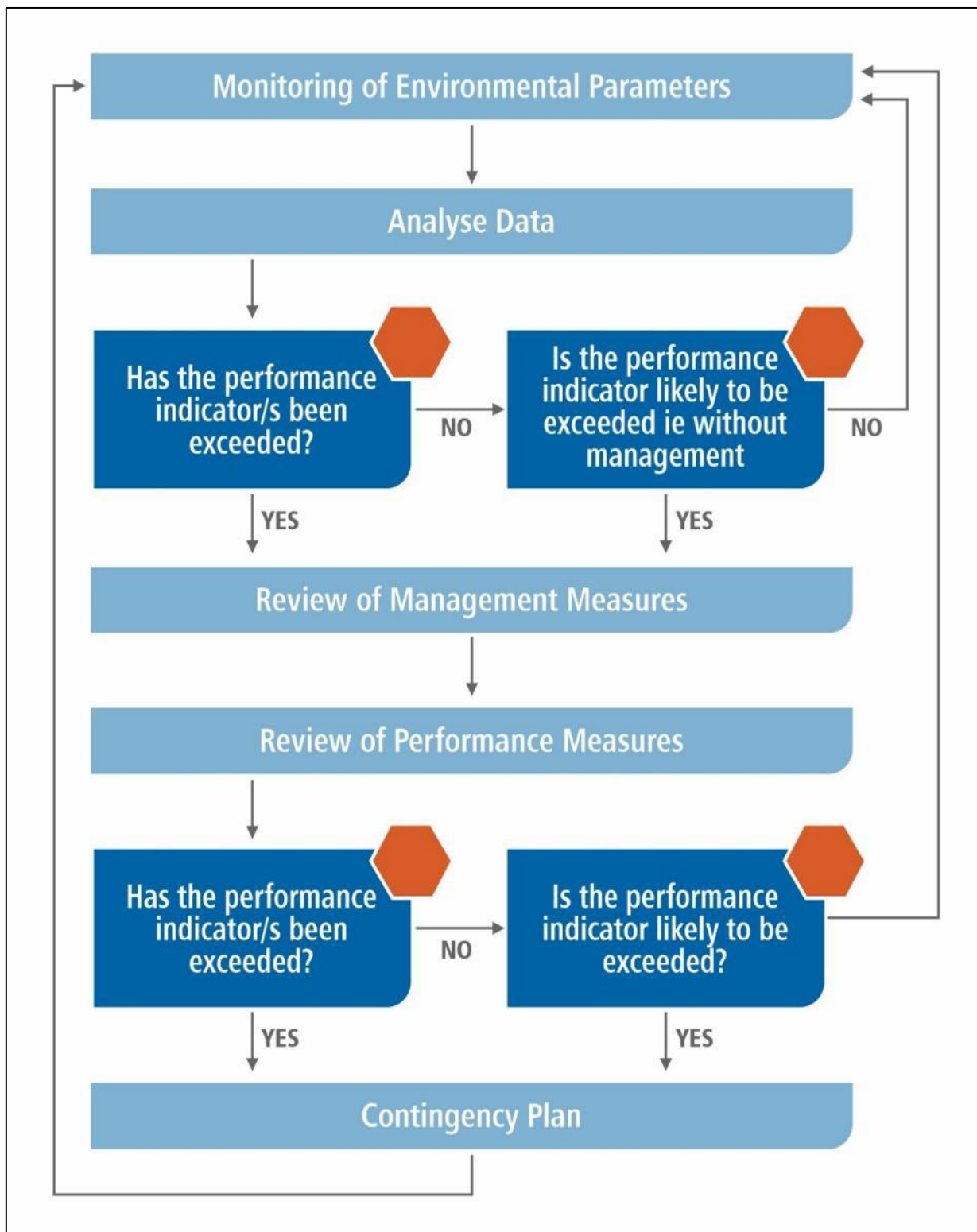
WCL will assess and manage development-related risks to ensure that there are no exceedances of the criteria and/or performance measures **Table 4** in accordance with Development Consent **Condition F4**. Any exceedance of the Subsidence criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation, notwithstanding offsetting actions taken.

Where any exceedance of the criteria and/or performance measures in **Table 4** has occurred, WCL will at the earliest opportunity:

- take all reasonable and feasible steps to ensure the exceedance ceases and does not re-occur;
- consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action;
- within 14 days of the exceedance occurring, submit a report to the Secretary describing these remediation options and any preferred remediation measures or other course of action; and
- implement remediation measures as directed by the Planning Secretary,

to the satisfaction of the Secretary.

Figure 3 Adaptive Management Process



Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

6 MONITORING AND REPORTING

6.1 Monitoring

The monitoring activities that will be undertaken to identify and manage risks to public safety are outlined in this section.

6.1.1 Transport for NSW Infrastructure

Monitoring of Mount Ousley Road and other road infrastructure will be undertaken as described in the BFMP. This includes monitoring of the road pavement and other associated infrastructure including bridges, culverts, cuttings and embankments.

6.1.2 Electrical Transmission Lines

Monitoring of electrical transmission lines and associated towers will be undertaken as described in the BFMP. This includes the monitoring of the 330 kV transmission lines owned by TransGrid and the 132 kV and 33 kV owned by Endeavour Energy. The decommissioned WCL owned transmission line in the vicinity of Stage 2 second workings will not be monitored.

6.1.3 Unsealed Access Roads and Fire Trails

The unsealed access roads and trails within the EP Areas are not likely to experience cracking due to the proposed mining.

The unsealed, four wheel drive access fire roads 7D and 7M traverse the Stage 2 extraction area, specifically crossing over the planned mining in PC30– PC34. Note however, that the access gates to Fire Road 7D on Mount Ousley Road, as well as the Bellambi Creek Crossing on 7D also, are well outside the EP Areas.

The southern section of Fire Road 7D has a creek crossing over exposed bedrock and some steeper sections. These features are located over a goaf area in the Bulli Seam workings of Corimal Colliery to the west of PC34 near the western edge of the EP Area. This goaf area formed in the 1950's is isolated from the Bulli Seam workings above PC27-34 by a 40m wide barrier of solid coal. Subsidence effects and impacts to these features are expected to be imperceptible.

The monitoring regime for unsealed roads is outlined in the Public Safety Trigger Response Action Plan (TARP) (attached as **Appendix A**). Visual inspections of the identified unsealed roads in the active EP areas will be undertaken fortnightly during the second workings extraction and monthly for a period of six months after mining.

In the most unlikely event that subsidence impacts do become apparent on any of the listed fire trails or access roads as listed in the WaterNSW special areas access consent (F2020/3092) minor remedial work may be required. Details on such minor remedial repairs as required to be undertaken by WCL in consultation with WaterNSW as soon as possible to maintain them in a working safe and serviceable condition. If cracks larger than 10 mm are identified, WCL will notify DPE, WaterNSW, and any other relevant agencies and prepare a remediation plan within one week.

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

7 MITIGATION AND MANAGEMENT STRATEGIES

7.1 General

The portion of the EP 1 Area to the east of Mount Ousley Road consists predominantly of WaterNSW managed land, with small areas of private land primarily owned by Wollongong Coal. Access to this land is restricted. Due to the restricted access to the land within the EP Areas, subsidence is not predicted to pose a significant risk to the general public. Nevertheless, WCL will implement several management measures to prevent, mitigate and promptly remediate hazards within the EP Areas.

The portions of the EP 1 and 2 Areas to the west of Mount Ousley Road are within the Metropolitan Special Area. The general public is not permitted to enter the Metropolitan Special Area (unless authorised by the WaterNSW). Signage installed at the entries to the WaterNSW Special Areas clearly stipulate that public access is restricted.

All WCL staff and contractors will be required to hold current WCL and WaterNSW inductions and are trained in personal safety requirements before accessing these lands. WCL personnel and contractors are required to wear the appropriate personal protective equipment (PPE) when working within the restricted area. The necessary PPE includes hard hat, protective boots, gloves, safety glasses, long-sleeved shirt and trousers.

WCL abide by the WNSW Special Area Consent (F2020/3092) including those detailed in the WNSW WCL Access Agreements, as well as Part 5 of the Environmental Planning and Assessment (EP&A) Act at all times while working in and accessing the Metropolitan Special Area.

Such conditions include:

- abiding by trail speed restrictions (40 km/h) or otherwise driving to conditions
- driving only on designated access tracks
- locking all gates after entering and leaving the area (to prevent public access)
- abiding by access restrictions (e.g. wet weather, total fire ban etc.)
- provision of appropriate documentation to WaterNSW prior to the commencement of works (including obtaining all relevant approvals and inductions)
- provision of emergency contact numbers.

WCL personnel and contractors will access these restricted areas to conduct monitoring activities. These areas may also be accessed by WaterNSW staff and other persons with permission from WaterNSW (e.g. asset owners such as TransGrid and Endeavour Energy). Therefore, such persons may be exposed to subsidence related risks in the unlikely event that the activities covered by the EP cause subsidence impacts which may affect public safety.

7.2 RVC Environmental Management System

RVC operate under the RVC Environmental Management Strategy (EMS) (RVC EC STD 001) which provides a framework to ensure activities at WCL are undertaken in an environmentally responsible manner and in general accordance with the following:



Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

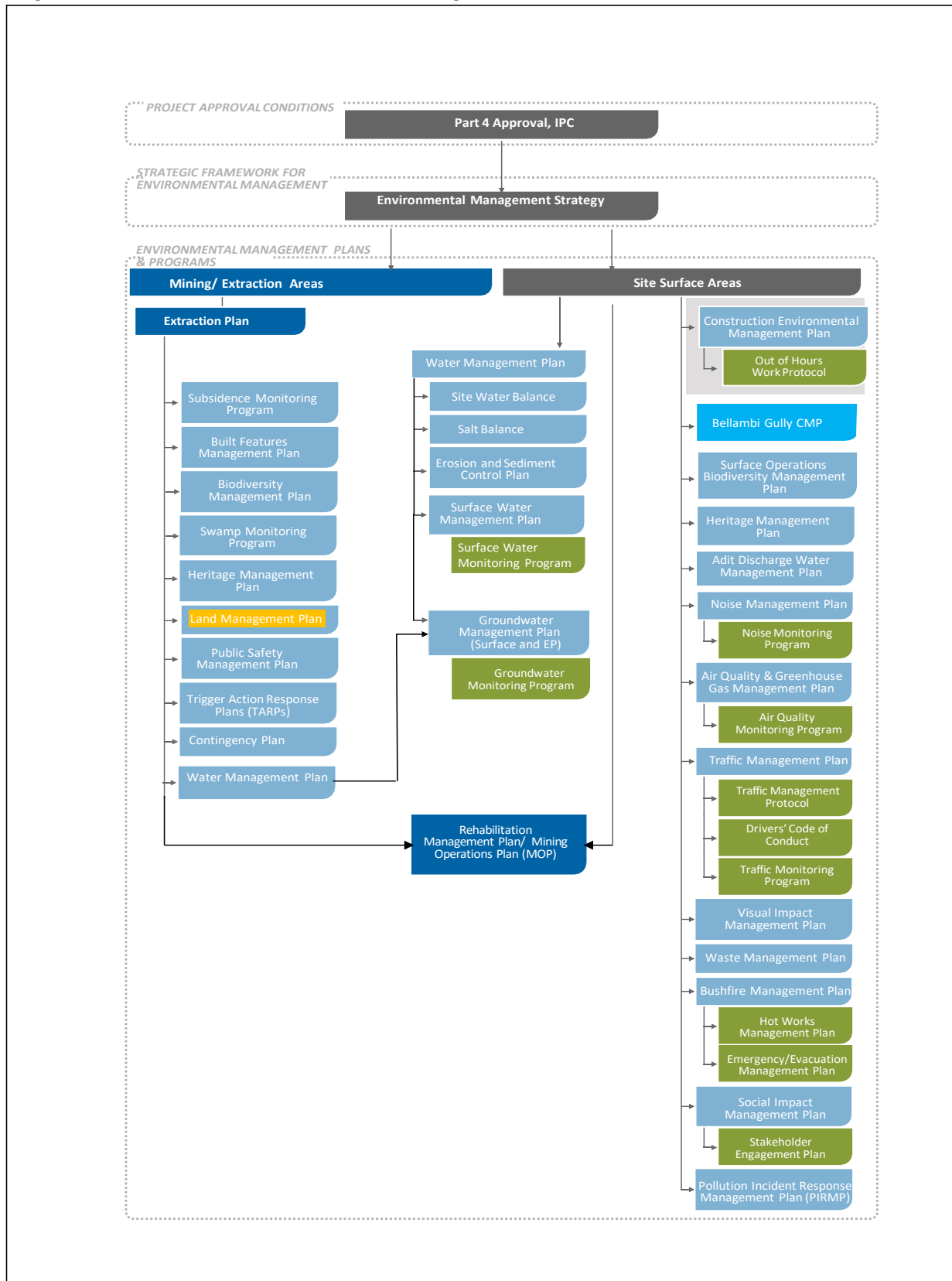
- Russell Vale Revised Preferred Underground Expansion Project Development Consent MP09_0013
- ISO14001 Environmental Management Standard
- legislative and other requirements.

While the EMS includes general requirements for the reporting and management of incidents, the EP provides specific requirements in relation to the management of subsidence related impacts associated with the mining covered by the EP and the EP requirements (including the requirements set out in this management plan) prevail to the extent of any inconsistency between documents.

The relationship between this plan, the EP, and the other sub plans as relevant to the EP is as shown in **Figure 4**.

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

Figure 4 Environmental Management Framework



Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

7.3 Trigger Action Response Plan (TARP)

In accordance with **Condition C10(g)(viii)** of the Development Consent, the EP and associated sub plans will identify TARPs to be implemented to manage potential impacts associated with underground mining.

These TARPs include the following:

- monitoring requirements (may include different locations);
- trigger levels that indicate a potential non-compliance or flag implementation of contingency measures;
- management and contingency actions (i.e. corrective and preventative actions) and reporting requirements;
- responsibilities; and
- timing.

These TARPs detail how the various predicted subsidence impacts, monitoring components, performance measures, and responsibilities are structured to achieve compliance with the relevant statutory requirements. They also form the framework for and contingency actions.

The Trigger Action Response Plan (TARP), as presented in **Appendix A**, has been designed specifically for this PSMP to illustrate how the various predicted subsidence impacts, monitoring components, performance measures, and responsibilities are structured to achieve compliance with the relevant statutory requirements, and the framework for adaptive management and contingency actions.

The TARP system provides a simple, transparent and useable record of the monitoring of environmental performance and the implementation of management and/or contingency measures. Due to the nature of predicted impacts associated with the proposed second workings, Performance Measure TARPs have been established.

If monitoring indicates a Level 2 or 3 trigger has been reached, an investigation will occur in all circumstances. The nature of the investigation will depend on the feature being monitored, the location of the trigger exceedance and Trigger level exceeded among other matters. Different investigation options are discussed in detail in the management plans specific to the feature being monitored.

Note: Level 3 Performance Measure TARP triggers do not, of themselves, constitute an incident or non-compliance under the Development Consent. Investigations following a Level 3 trigger will determine whether an exceedance or non-compliance of the performance measures or Development Consent conditions is likely or has occurred.

In the unlikely event that investigations of Level 3 TARP trigger exceedances determine that material harm has occurred *and* is attributable to the development approved under the Development Consent, the contingency plan and adaptive management measures outlined within **Section 5.2** will be implemented. In certain cases, management measures may be implemented in the absence of any clear link between the approved development and the observed impact to mitigate adverse environmental outcomes.



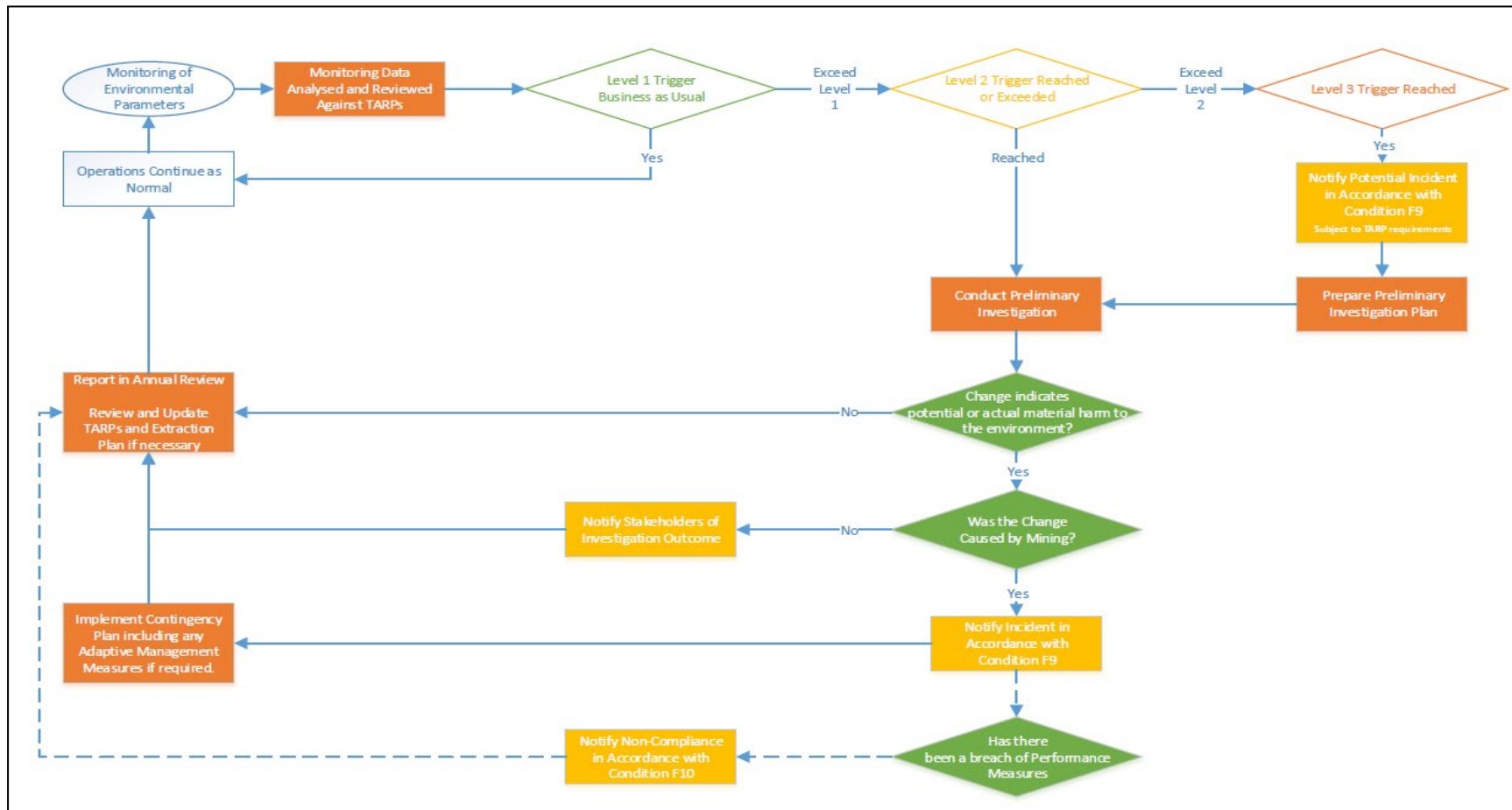
Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

Response to matters which are identified as Incidents or Non-Compliances will be implemented in consultation.

Figure 5 below provides a flow chart covering the TARP Process.

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

Figure 5 TARP Process



Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

7.4 Contingency Plan

In the event that the observed parameters or impacts exceed or are considered likely to exceed the performance measures detailed in the BFMP and in Section 5 of this PSMP, WCL will implement the following contingency plan:

- All reasonable measures will be taken to reduce any impact to public safety in a timely manner.
- The observation will be reported to the Group Environment Manager as soon as possible.
- The observation will be recorded.
- An investigation will be undertaken to identify the cause of the observed impacts (noting that the proposed Development is not anticipated to have any more than negligible impacts on public safety values).
- WCL will report any exceedances of the performance measure DPE and other relevant stakeholders as soon as practicable after WCL becomes aware of the exceedances.
- WCL will assess the exceedances referred to in the TARP (outlined in **Section 7.3**) and where appropriate, implement safety measures in accordance with the appropriate Management Plans.
- The Group Environment Manager will investigate any potential contributing factors and identify an appropriate action plan to manage the identified impacts, in consultation with specialists and/or relevant agencies if necessary.
- WCL will identify an appropriate action plan to manage the identified impacts, in consultation with other specialists and/or key stakeholders.
- WCL will submit the proposed course of action to DPE for approval.
- WCL will implement the approved course of action to the satisfaction of DPE.
- WCL will continue to monitor performance with the new action plan in place and, if successful will formalise these actions as part of this Plan.

Contingency measures will be developed in consideration of the specific circumstances of the issue and the assessment of consequences.

The following outlines general contingency measures that may be implemented in the event of subsidence related impacts that may impact on public safety.

7.4.1 WaterNSW Special Areas

Whilst surface cracking of access roads and fire trails is not expected. In the instance that significant surface cracks are identified along access roads and fire trails, remediation will be undertaken in consultation with WaterNSW and would be undertaken in accordance with Schedule 5 of WCL Special Areas Consent F2020/3092. Surface cracks would likely be remediated by the accepted remedial practice in-filling. The WaterNSW road and fire trail rules are outlined in Schedule 7, along with Schedule 4, which specifies which roads and fire trails WCL can access within the Metropolitan Special Area.

Those identified fire trails and access roads include:

- Brokers Nose Fire Trail

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

- Fire Trail 7D.
- Fire trail 7M

7.4.2 Built Features

Public roads and electricity transmission lines are not expected to be significantly impacted by the proposed second workings mining. If WCL or the asset owner considers that the integrity of the asset and/or public safety has been compromised as a result of subsidence, remediation works and/or contingency measures will be implemented in accordance with the relevant management plan or as otherwise agreed with the asset owner.

Risks to public safety as a result of impacts on road infrastructure or impacts on transmission lines will be managed in accordance with the BFMP.

7.4.3 Steep Slopes

The steep slopes that may be impacted by subsidence are located within the Metropolitan Special Area and are therefore not accessible to the public. To ensure the safety of personnel that have authority to access the area, the following safety measures will be implemented:

- Signs shall be prominently displayed at any area that has been identified as potentially being susceptible to failure. Signposts will warn specifically of the danger. Signposts that are to be installed on private or public property will be installed in agreement with the relevant authority.
- The location of all signs, fences, and other remedial or warning provisions established will be marked on a Plan. This Plan will be maintained as a record of any remedial measures instituted during mining.
- Any potentially unstable rock structures will be assessed and secured (if safe and practicable to do so). Methods used to secure unstable rock structures will be determined on a case-by-case basis and may include rock bolting or grouting of rock fractures. If required, measures to stabilise rock formations will be developed in consultation with the relevant regulatory agencies.

7.5 Potential Incident Notifications

Level 3 TARP are set at a level that may indicate more than trivial environmental harm. Where monitoring indicates a Level 3 TARP trigger has been exceeded but the cause of the trigger being exceeded is unclear, DPE (and other relevant stakeholders) will be notified of a *potential* incident. The notification will include the same matters required to be included in an incident notification as required by Condition F9 of the Development Consent, including the development (including the development application number and name) and set out the location and nature of the potential incident.

Unless the cause of the exceedance is clearly identifiable at the time the exceedance, the first step will be to investigate the likely cause or causes of the exceedance. A preliminary investigation plan will be developed to guide this investigation process and a copy provided to DPE and other relevant stakeholders. This is discussed further in **Section 8**.

The investigation process will also consider any remedial action that may be required.

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

8 INCIDENTS, COMPLAINTS AND NON-COMPLIANCES

8.1 Incidents

According to the Development Consent:

- An 'incident' is defined as "an occurrence or a set of circumstances that causes or threatens to cause material harm and which may or not be or cause a non-compliance". Examples may include a breach of specific Development Consent criteria or performance measure.
- An 'exceedance' or 'non-compliance' is defined as "an occurrence, set of circumstances or development that is a breach of this consent".

In both circumstances, an Incident or Non-Compliance must be attributable to the development approved under the Development Consent.

Material harm is defined in the Development Consent as:

"harm to the environment that:

- *involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or*
- *results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable costs and expenses that would be incurred in taking all reasonable and practical measures to prevent, mitigate or make good harm to the environmental)."*

This definition excludes "harm" that is authorised under either this Development Consent or any other consent.

The proposed 'second workings' which trigger the requirement for this EP are long term stable bord and pillar workings which are predicted to have only negligible subsidence effects. Incidents and associated reporting requirements will be managed through established procedures set out in Section 7.2 of the EP. The relevant authority will be notified of an incident with public safety implications immediately upon detection of the incident. In the event of a public safety incident related to road infrastructure, the incident will be reported to Transport for NSW. Public safety incidents involving electrical transmission lines would be reported to TransGrid or Endeavour Energy. Notification requirements for these built features can be found in the BFMP. Public safety incidents involving natural features and unsealed access roads and fire trails will be reported to WaterNSW and DPE.

8.2 Complaints Handling

Complaints will be managed through established WCL procedures developed in accordance with **Condition F5(h)** of the Development Consent by where a copy of a complaints register (updated on a monthly basis) will be kept on the WCL website. A summary of complaints will be available to regulatory authorities, community consultative committee (CCC), and interested persons upon request and provided in the Annual Reviews completed in accordance with Condition F11.



Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

9 REPORTING

The reporting framework set out in Section 7 of the EP will apply to the implementation of this PSMP. This reporting framework includes:

- incident reporting
- quarterly monitoring data reporting
- six monthly reporting
- impact reporting (in the event of an observed impact associated with the development covered by the EP)
- Annual Review reporting requirements.

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

10 PLAN ADMINISTRATION

10.1 Roles and Responsibilities

Environment and community management is regarded as part of the responsibilities of all Colliery personnel. The roles and function of the main personnel responsible for the implementation of environmental and community management including the plans, procedures and action plans contained in this LMP are outlined in WCL's Management Operating System.

10.2 Resources Required

In accordance with the WCL SYS POL 003 Environmental Policy, Management shall ensure that the appropriate resources are made available to achieve the implementation of this PSMP.

It is the role of the Group Environment Manager to ensure that these requirements are communicated to WCL Management.

10.3 Training

Staff training will consist of three levels of applicable to different types of staff:

- Level 1 – High level training on environmental legislative requirements (management staff)
- Level 2 – Operational level training (project managers, supervisors, surface personnel, control room operators)
- Level 3 – Basic awareness of environmental management (underground staff, all personnel).

Targeted training will be provided as required for all workers relevant to their activities to provide them with the knowledge, skills and awareness to minimize environmental impacts where they are undertaking an activity with a high risk of potential environmental impact in accordance with **Condition A28** of the Development Consent

The Group Environment Manager/Site Environment Representative and Mine Training Manager will review the training program and monitor its implementation.

10.4 Inductions

All personnel, including contractors, sub-contractors and staff, are required to attend a compulsory site induction that includes an environmental component prior to commencement on site.

The environmental component will include an overview of:

- Relevant details of this PSMP, including purpose and objectives.
- Key environmental issues (e.g. activities with potential to result in environmental impacts).
- Consent Conditions, relevant licences, and permits
- Specific management requirements and responsibilities, and Mitigation measures
- Incident response and reporting requirements.



Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

A record of all environmental training and inductions will be maintained and kept on site. The Group Environment Manager may authorise amendments to the induction where required to address project modifications, legislative changes or amendments to this BFMP or related documentation.

The Group Environment Manager or authorized delegate will review and endorse the induction program and monitor its implementation.

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

11 AUDIT AND REVIEW

11.1 Annual Review

In accordance with **Condition F11** of the Development Consent, an Annual Review (AR) of the environmental performance of the project is prepared.

The AR will:

- describe the development (including rehabilitation) that was carried out in the previous calendar year and the development that is proposed to be carried out over the current year
- include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, including a comparison of these results against the:
 - relevant statutory requirements, limits or performance measures/criteria
 - requirements of any plan or program required under the Development Consent
 - monitoring results of previous years
 - relevant predictions in the EA documents listed in the Development Consent **Condition A2(c)**
- identify any non-compliance or incidence which occurred in the previous calendar year, and describe what actions were (or are being) taken to ensure compliance and avoid recurrence
- evaluate and report on compliance with the performance measures, criteria, and operating conditions of the development
- identify any trends in the monitoring data over the life of the development
- identify any discrepancies between the predicted and actual impacts of the development and analyse the potential cause of any significant discrepancies
- describe what measures will be implemented over the next calendar year to improve the environmental performance of the development.

11.2 Auditing

In accordance with **Condition F13** of the Development Consent, an Independent Environmental Audit will be undertaken by a suitably qualified auditor and include experts in any field specified by the Secretary within 12 months of the Development Consent and every three years after that.

This audit must:

- be prepared in accordance with the Independent Audit Post Approval Requirements (DPIE 2020 or as updated)
- be led and conducted by a suitably qualified, experienced and independent auditor whose appointment has been endorsed by the Planning Secretary
- be conducted by a suitably qualified, experienced and independent team of experts (including any expert in field/s specified by the Planning Secretary) whose appointment has been endorsed by the Planning Secretary

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

- include consultation with the relevant agencies and the CCC
- assess the environmental performance of the development and whether it is complying with the relevant requirements in the Development Consent, water licences and mining leases for the development (including any assessment, strategy, plan or program required under these approvals)
- review the adequacy of any approved strategy, plan or program required under the abovementioned approvals
- recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment strategy, plan or program required under these approvals
- be conducted and reported to the satisfaction of the Planning Secretary.

In accordance with **Condition F14** of the Development Consent WCL would submit a copy of the audit report, along with responses to any recommendations contained within the report to the Planning Secretary. The audit and response to recommendations would be submitted within three months of the completion of the audit unless otherwise agreed by the Planning Secretary.

11.3 Plan Revision

In accordance with Condition F7 of the Development Consent, this PSMP will be reviewed within three months of:

- the submission of an incident report as per **Condition F9**
- the submission of an annual review under **Condition F11**
- the submission of an Independent Environmental Audit under **Condition F13**
- any modification to the conditions of the Development Consent (unless the conditions require otherwise or as otherwise agreed with DPE).

The revision status of this PSMP is indicated in the footer of each copy. Revisions to any documents listed within this PSMP will not necessarily constitute a revision of this document.

Where revisions are required, the document would be submitted to DPE within six weeks of the review.



Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

12 REFERENCES

DPIE, 2020. Independent Audit Post Approval Requirements

The Independent Planning Commission of NSW Development Consent Russell Vale Revised Preferred Underground Expansion Project MP09_0013.

SCT Operations (2014), *Update of Subsidence Assessment for Wollongong Coal Preferred Project Report Russell Vale No. 1 Colliery*.

SCT, 2019. Russell Vale Colliery: Subsidence Assessment for Proposed Workings in Wongawilli Seam at Russell Vale East. SCT report number: UMW4609.

SCT, 2021. Russell Vale Colliery: Subsidence Assessment for PC07-08 and PC21-25 Extraction Plan.

SCT, 2022. Russell Vale Colliery Subsidence Assessment for PC27-34 (Stage 2) Extraction Plan.

Subsidence Advisory, 2022. Mine Subsidence Districts,

<https://www.subsidenceadvisory.nsw.gov.au/districts>

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

13 GLOSSARY OF TERMS AND ABBREVIATIONS

Abbreviations	
CCC	Community consultative committee
DPIE	Department of Planning, Industry and Environment
DPE	Department of Planning and Environment
EP	Extraction Plan
LGA	Local Government Area
MSB	Mine Subsidence Board
IPC	Independent Planning Commission
PSMP	Public Safety Management Plan
RMS	Roads and Maritime Services (formerly the Roads and Traffic Authority)
ROM	Run of Mine
RPPR	Revised Preferred Project Report
RR	Resource Regulator
TARP	Trigger Action Response Plan
UEP	Underground Expansion Project
WNSW	Water NSW
WCL	Wollongong Coal Limited

Terms	
Baseline data	Monitoring conducted over time to collect a body of information to define specific characteristics of an area (e.g. species occurrence or noise levels) prior to commencement of a specific activity.
Bord and pillar	Mining method comprising of a series of self-supporting roadways (or bords) within the coal seam leaving a grid of pillars of unmined coal which are designed to be stable in the long term.
Built Features	Included any building or work erected or constructed on land, and included swellings and infrastructure such as any formed road, street, path walk, or driveway; any pipeline, water, sewer, telephone, gas or other service main.
Development Consent (the approval)	Russell Vale Revised Underground Expansion Project MP09-0013
Driveage	A horizontal or inclined heading or roadway in the process of construction. The roadway will be used to access a new mining area within the lease.
Dyke	A sheet like vertical intrusion of igneous rock cutting across the strata of older rocks.
Ecosystem	An interacting system of animals, plants, other organisms and non-living parts of the environment.
Fault	Major fracture of the earth's crust caused by the relative movement of the rock masses on either side.
First Workings	Involves the development headings or roadways which will provide access to the coal resource. They are developed using continuous miners with integrated roof and rib bolting rigs. First workings leave the coal pillars intact and the overlying strata fully supported

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

Terms	
Goaf (or goafing)	The space left following extraction of the coal seam where the roof material is allowed to collapse.
Habitat	The particular local environment occupied by an organism.
Incident	An occurrence or set of circumstances that cause or threaten to cause material harm and which may or may not be or cause a non-compliance
Infrastructure	The supporting installations and services that supply the needs of the Project.
Land	Has the same meaning as the definition of the term in section 1.4 the EP&A Act, except for where the term is used in the noise and air quality conditions in PARTB of this consent where it is defined to mean a whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of the development consent.
Longwall	A secondary extraction method of mining coal that continuously removes the coal from the working face onto a series of conveyors that transfer the coal to the surface. As the coal is cut away (a 'shear'), both the longwall machine (known as a 'shearer') and the hydraulic roof supports advance forward ready for the next shear.
Material Harm	Is harm to the environment that: <ul style="list-style-type: none"> Involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or Results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (such loss includes the reasonable cost and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment)
Mine Operations	The carrying out of mining, including the extraction, processing, stockpiling and transportation of coal on the site and the associated removal, storage and/or emplacement of vegetation, topsoil, overburden and reject material.
Non-compliance	An occurrence, set of circumstances or development that is a breach of the Development Consent.
Pillar Extraction	A continuous miner system of mining whereby coal pillars are systematically extracted.
Pillar Run	A large scale progressive collapse of coal pillars in a short period of time.
Privately-owned Land	Land that is not owned by a public agency or a mining, petroleum or extractive industry company (or its subsidiary or related party).
Project Approval	Russell Vale Revised Underground Expansion Project MP09-0013
Public infrastructure	Linear and related infrastructure and the like that provides services to the general public, such as roads, railways, water supply, drainage, sewage, gas supply, electricity, telephone, telecommunications etc.
Rehabilitation	The restoration of a landscape and especially the vegetation following its disturbance.
Second Workings	Extraction of coal from bord and pillar workings
Strain	The change in the horizontal distance between two points divided by the original horizontal distance between the points.
Subsidence	The totality of subsidence effects, subsidence impacts and environmental consequences of subsidence impacts
Subsidence effects	Deformation of the ground mass due to mining, including all mining-induced ground movements, such a vertical and horizontal displacement, tilt, strain and curvature.
Subsidence impacts	Physical changes to the ground and its surface caused by subsidence effects, including tensile and shear cracking of the rock mass, localised buckling of strata caused by valley closure and upsidence and surface depressions or troughs.



Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

Terms	
Tilt	The difference in subsidence between two points divided by the horizontal distance between the points.
Upsidence	Relative upward movement, or uplift, created by the horizontal compression and buckling behaviour of the rock strata in the vicinity of a valley floor
Valley closure	A phenomenon whereby one or both sides of a valley move horizontally towards the valley centreline, due to changed stress conditions beneath the valley and its confining land masses

Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

APPENDIX A – TRIGGER ACTION RESPONSE PLAN

Aspect	Monitoring				Trigger			
	Location	Parameters	Frequency/timing	Purpose	Level	Action/Reporting	Report Timing	Responsibility
Public Safety Features	All public safety features present as outlined within the PSMP within EP Stages: - 1a - 1b - 2	Visual Monitoring of key landscape features (Note: Public safety parameters relating to Built Features are outlined in the BFMP TARP).	Prior to, during and post secondary extraction	To determine if subsidence effects resulting from bord and pillar mining system result in impacts to public safety.	Within prediction (Level 1): No change in condition of features observed.	Continue monitoring. Report negligible impact in six monthly reports.	Six monthly reporting in accordance with Extraction Plan approval.	Russell Vale Colliery (Group Environment Manager)
					Within prediction (Level 2): Change in features condition is predicted to occur. No change to the condition of features is observed.	Continue monitoring. Inform DPE and WaterNSW of potential impact. Undertake site inspection to document and photograph any observed changes/ impacts. Report potential impacts in six monthly reports.	DPE and WaterNSW informed within one week. Six monthly reporting in accordance with Extraction Plan approval.	Russell Vale Colliery (Group Environment Manager)



Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

Aspect	Monitoring				Trigger			
	Location	Parameters	Frequency/timing	Purpose	Level	Action/Reporting	Report Timing	Responsibility
					Exceeding prediction (Level 3): Change in features condition is observed, and impact greater than predicted occurs.	<ul style="list-style-type: none"> Make area safe as soon as practicable. Continue monitoring. Inform DPE and WaterNSW of potential impact. Undertake site inspection to document and photograph any observed changes/impacts. Discussion of potential remediation/mitigation. NOTE: Consultation with relevant stakeholders will be required if remediation or mitigation measures are required. Use appropriate specialists to 	DPE and WaterNSW and informed within one week. Commence preparation of mitigation/action and monitoring plan within one week (if required). Six monthly reporting in accordance with Extraction Plan approval.	Russell Vale Colliery (Group Environment Manager)



Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

Aspect	Monitoring				Trigger			
	Location	Parameters	Frequency/timing	Purpose	Level	Action/Reporting	Report Timing	Responsibility
						undertake physical remediation activities. Report potential impacts in six monthly reports.		



Site	Russell Vale Colliery	DOC ID	RVC EC PLN 009
Type	Management Plan	Date Published	31/05/2022
Doc Title	PUBLIC SAFETY MANAGEMENT PLAN		

APPENDIX B – CONSULTATION

Consent: F2020/3092

Wollongong Coal Limited
PO Box 281
FAIRY MEADOW NSW 2519

ACN: 111 244 896

Attention: Mr Richard Sheehan, Group Environmental & Approvals Manager

Email: richard.sheehan@wcl.net.au

Special Area Consent – Issued under Division 1 of Part 3 of the Water NSW Regulation 2020

CONSENT SUMMARY

Consent No:

F2020/3092

Name of Consent Holder:

Wollongong Coal Limited

Address of Consent Holder:

7 Princes Highway, CORRIMAL NSW 2518

Commencement date:

4 March 2021

Expiry date:

3 March 2026

Hours of Operation

24 hours per day, 7 days per week unless otherwise specified in EP&A Act approval to a specific Permitted Activity

Contacts

Water NSW Incident Notification Number:

Ph: 1800 061 069

Operational issues:

Water NSW Catchment Assets Manager

Ph: 02 4886 9416

Material changes to Statutory Approvals:

Water NSW Mining Manager

Ph: 0436 861 165

Standard Conditions

1 Grant of Consent

1.1 Consent

- 1.1.1 In accordance with the provisions of Division 1 of Part 3 of the Water NSW Regulation 2020, Water NSW grants to the Consent Holder, Consent to enter upon and to pass and repass through the Special Area to enter and remain on the Designated Area for the purpose of undertaking the Permitted Activity in accordance with the conditions of this Consent.
- 1.1.2 The Consent Holder does not commit an offence under Part 3 of the Water NSW Regulation 2020 by reason of anything done in accordance with a Statutory Approval.
- 1.1.3 The Consent Holder must not undertake any activity in the Designated Area other than the Permitted Activity.
- 1.1.4 The employees, consultants and contractors of the Consent Holder who enter the Designated Area on behalf of the Consent Holder must comply with the Conditions on this Consent.
- 1.1.5 This Consent also extends to stakeholders of the Consent Holder as long as they are accompanied by an employee, consultant or contractor of the Consent Holder, on the condition that the Water NSW Catchment Assets Manager is informed 48 hours prior to entering the Designated Area, via the special_area_access@waternsw.com.au email address.

1.2 Term of Consent

The Consent is granted to the Consent Holder up until the Expiry Date or until such time as the Consent Holder ceases undertaking the Permitted Activity, whichever occurs first.

1.3 Responsibility for other persons

The Consent Holder must ensure that all persons carrying out the Permitted Activity in the Designated Areas are familiar with the terms of this Consent, including the requirement to comply with the conditions of this Consent.

1.4 Reservation of Rights by Water NSW

This Consent does not limit the statutory powers of Water NSW under the *Water NSW Act 2014* or the Water NSW Regulation 2020 or any other law.

1.5 No assignment

Subject to Condition 1.1.1, this Consent is personal to the Consent Holder and the Consent Holder may not assign, transfer, charge or otherwise deal with or dispose of its interest in this Consent.

2 Regulatory Conditions

2.1 Access to Information

The Consent Holder must notify the Water NSW Mining Manager, in writing, as soon as practical when there is a material change to any Statutory Approval.

2.2 Compliance with Statutory Requirements

The Consent Holder must comply with the Statutory Approvals in undertaking the Permitted Activity.

2.3 Consent Fee and Cost Recovery

2.3.1 The Consent Holder must pay to Water NSW the Consent Fee, if required, in the manner set out in Item 8 of the Reference Schedule (Schedule 1).

2.3.2 The Consent Holder must pay to Water NSW all reasonable costs incurred by Water NSW to engage suitably qualified and independent experts to review and advise for the purpose of determining:

- (a) the adequacy of any plans or monitoring programs reasonably required as a condition of this Consent; and
- (b) whether the Consent Holder has complied with the conditions of this Consent.

2.3.3 The Consent Holder must pay to Water NSW all rehabilitation and compliance costs incurred by Water NSW by reason of the breach of this Consent by the Consent Holder. Where possible Water NSW will consult with the Consent Holder in determining the value of these costs.

2.4 Goods and Services Tax

All sums payable under this Consent are exclusive of GST. Where those payments are consideration for a taxable supply, or adjustments to the consideration of a taxable supply, the amount payable will be increased by a sum equal to the amount of the payment multiplied by the then current rate of GST.

3 Operating Conditions

3.1 General

3.1.1 Subject to the terms of the Statutory Approvals, the Consent Holder is permitted to access the Designated Area during the Hours of Operation as set out in Item 6 of the Reference Schedule (Schedule 1).

3.1.2 Water NSW may restrict access to the Designated Area in accordance with the Water NSW Regulation 2020 at any time due to weather or fire conditions or any other operational and/or safety reason.

3.1.3 The Consent Holder must ensure all employees, contractors and consultants undertake any Designated Area inductions and training sessions reasonably required by Water NSW prior to their first entry onto the Designated Area and from time to time as required during the term of the Consent.

3.1.4 The on-site supervisor while conducting the Permitted Activity, must have in their possession a copy of this Consent, any environmental assessments, Statutory Approvals and associated Conditions of Approval, any related environmental management plan, rehabilitation plan, revegetation plan, soil and water management plan, water monitoring plan, the Safe Work Plan and a copy of all licences, permits and other approvals that are required in relation to the Consent Holder's activities in the Designated Area, available for reference purposes.

- 3.1.5 Waste as defined under the *Protection of the Environment Operations Act 1997* must not be brought into the Special Area.
- 3.1.6 Any imported fill material to be used in the Designated Area must be restricted to 'Virgin Excavated Natural Material' (VENM) that is not mixed with any other waste.
- 3.1.7 Prior to entry, all vehicles, machinery, and equipment to be used in the Special Area must be washed down, free of weeds, seeds, and soil.
- 3.1.8 Activities conducted under this Consent that are likely to cause a fire or create a fire hazard are not permitted without prior written approval from Water NSW.
- 3.1.9 All vehicles, machinery and equipment used by the Consent Holder in the Designated Area must be maintained in proper and efficient condition, be without risks to the health and safety of persons and must be operated in a safe, proper, and efficient manner.
- 3.1.10 Wet weather access must be in accordance with the approved *Special Area Wet Weather Management Plan* and *Special Area Wet Weather Trigger Action Response Plan* (Schedule 8).
- 3.1.11 The employees, consultants, and contractors of the Consent Holder:
 - a) may not access the Designated Area or any Water NSW water storages, rivers, lakes or other watercourses within the Designated Area by boat unless the Consent Holder obtains prior written approval from Water NSW and complies with the current version, as amended from time to time, of Water NSW's Safe Use of Watercraft Procedure, which is attached to this Consent; and
 - b) when working in or near water, as defined by Water NSW's Working in or Near Water Procedure which is attached to this Consent, must comply with Water NSW's Working in or Near Water Procedure.
- 3.1.12 Storage of fuels, oils or chemicals is not permitted in the Designated Area unless the Consent Holder obtains prior written approval from Water NSW or unless permitted by a Statutory Approval.
- 3.1.13 Appropriate and effective erosion and sediment controls must be designed, installed and maintained for areas disturbed as a result of the Permitted Activity, in accordance with *Landcom's Managing Urban Stormwater – Soils and Construction – Volume 1, 4th Edition 2004* (the 'Blue Book') until disturbed areas are stabilised.

3.2 Notification of Intent to Enter

- 3.2.1 Notification of the details of the employees, consultants and contractors of the Consent Holder involved in the Permitted Activity must be provided to Water NSW prior to their entry on the Designated Area.
- 3.2.2 The Consent Holder must notify Water NSW in relation to entry under this Consent at least two (2) business days prior to any inspection work and at least one (1) week prior to commencing works.
- 3.2.3 Notification must be through the special_area_access@waternsw.com.au email address. The notification must include the Consent reference number (**F2020/3092**), the specific location, dates of entry, description of work, vehicle types and registration numbers, and at least one contact telephone number of personnel conducting the works onsite.

3.3 Roads and Fire Trails

- 3.3.1 The Consent Holder must comply with the Water NSW's Road and Fire Trail Rules listed in Schedule 7.
- 3.3.2 The Consent Holder may utilise Water NSW roads and fire trails listed in Schedule 4.
- 3.3.3 The roads and fire trails that are the sole responsibility of the Consent Holder to maintain and repair are indicated in Schedule 4.
- 3.3.4 The Consent Holder must maintain and repair the roads and fire trails listed in Schedule 4 in accordance with the documents: *Managing Urban Stormwater – Soils and Construction – Volume 2C – Unsealed Roads* (Department of Environment & Climate Change NSW, 2008) and *NSW Rural Fire Service Fire Trail Design, Construction and Maintenance Manual* (Soil Conservation Service, 2017) (Schedule 5).

3.4 Security

- 3.4.1 When entering or exiting the Designated Area the Consent Holder must ensure that all site entry points including gates and barriers remain closed, locked or otherwise secured to prevent unauthorised entry to the Designated Area.
- 3.4.2 Any damaged gates or barriers must be temporarily secured by the Consent Holder and reported immediately to the Water NSW Incident Notification Number as shown in the Consent Summary.
- 3.4.3 The employees, contractors and consultants of the Consent Holder must:
 - (a) carry photographic identification which must always include the name and address of their employer when they are in the Designated Area; and
 - (b) produce the photographic identification if requested by an Authorised Officer of Water NSW.
- 3.4.4 Where short term or one-off access is required by contractors or consultants, they do not require photographic identification, provided they are accompanied by the Consent Holder who has photographic identification as required by 3.4.3(a).
- 3.4.5 Water NSW keys are issued to the Consent Holder for use by employees, contractors, and consultants of the Consent Holder. Water NSW keys are issued subject to the following conditions:
 - (a) Water NSW keys must only be used to access the Designated Area in accordance with the conditions of this Consent.
 - (b) keys are issued to the Consent Holder and must not be transferred.
 - (c) if the Consent Holder no longer requires access to the Designated Area to conduct the Permitted Activity or when this Consent expires, the Consent Holder must return all Water NSW issued keys to Water NSW.
 - (d) if a key is lost, the Consent Holder must notify Water NSW within 24 hours of becoming aware that the key has been lost. Notification must be made in writing to the Water NSW Catchment Assets Manager via the special_area_access@waternsw.com.au email address;

- (e) new keys will not be issued by Water NSW without a written request which provides detailed reasons why a new key is required. The Consent Holder will bear any costs incurred by Water NSW to issue new keys.
- (f) the Consent Holder agrees that all keys remain Water NSW property and undertakes to return keys from a key holder as soon as the valid need for access ceases; and
- (g) the Consent Holder agrees, if requested, to pay a bond of \$150.00 per key issued.

- 3.4.6 The Consent Holder must not place its own locks on gates in or to the Designated Area unless it obtains the prior written approval of Water NSW.
- 3.4.7 The Consent Holder must maintain a current list of all employees and contractors who have a Water NSW key in their possession and make that record available to Water NSW on request.
- 3.4.8 The Consent Holder must maintain a log of all persons entering the Designated Area under this Consent which includes details of the time of entry and exit on each day.

3.5 Waste Management

- 3.5.1 The Consent Holder must provide and maintain toilet facilities on the site where two or more persons are working in one location for a period of two days or more, and all site personnel must use and be instructed to use such facilities.
- 3.5.2 Where toilet facilities are not required by the Consent, human organic waste must be buried to a depth of no less than 150 millimetres and not within 100 metres of stored waters, creeks or drainage lines.

3.6 Work Health & Safety

- 3.6.1 All activities under this consent must be carried out in accordance with the duties under Work Health and Safety legislation.
- 3.6.2 Persons entering the Special Area must take reasonable care for his or her own health and safety and take reasonable care that his or her acts or omissions do not adversely affect the health and safety of other persons.
- 3.6.3 All activities under this consent must be carried out in accordance with an appropriate, relevant and specific Safe Work Plan (SWP), which has been approved or endorsed by the Consent Holder.
- 3.6.4 The employees, consultants, and contractors of the Consent Holder, when entering the Designated Area, must have suitable communications in place for reliable and effective use in remote areas, and have suitable arrangements in place to ensure safe egress from these areas.

4 Reporting Conditions

4.1 Incident Management

- 4.1.1 The Consent Holder must make each of its employees, consultants and contractors aware of the need to report and provide information via the **Water NSW Incident Notification Number (1800 061 069)** of any reportable designated incidents or events which are specified in Conditions 4.1.2, 4.1.3 and 4.1.4.

- 4.1.2 If the Consent Holder is required to report an incident or non-compliance under a Statutory Approval, the Consent Holder must also report that incident to Water NSW as soon as reasonably possible after becoming aware of that incident.
- 4.1.3 If a pollution incident occurs in the course of the Permitted Activity in the Designated Area so that material harm is caused or threatened to the environment as defined in section 147(1) of the *Protection of the Environment Operations Act 1997* the Consent Holder must notify Water NSW immediately of the incident and provide all relevant information.
- 4.1.4 If any Aboriginal or European cultural heritage site or artefact (as defined by the *National Parks and Wildlife Act 1974* or *Heritage Act 1977*) is identified during the Permitted Activity and does not already have an appropriate heritage plan that is being implemented, the Consent Holder's employees, consultants and/or contractors must **Stop Work immediately** at the location and ensure no further harm to the object. The Consent Holder must immediately report the find to Water NSW, and report to the regulator in accordance with legislation. The Permitted Activity must not commence in the vicinity of the find until any required approvals have been granted by the regulator. In the event that skeletal remains are encountered, the area must be secured to prevent unauthorised access and the Consent Holder must immediately contact NSW Police and Water NSW.

4.2 Non-Compliance

- 4.2.1 If the Consent Holder fails to comply with any condition of this Consent, the Consent Holder must notify Water NSW immediately upon becoming aware of the breach through the **Water NSW Incident Notification Number (1800 061 069)**. The Consent Holder must also provide Water NSW with a comprehensive written report in relation to the non-compliance within 14 days of first becoming aware of the non-compliance. The following must be addressed in the written report:
- (a) Consent reference and Condition number not complied with.
 - (b) Summary of particulars of non-compliance (no more than 50 words).
 - (c) Dates when the non-compliance occurred.
 - (d) Precise location where the non-compliance occurred (attach a map or diagram).
 - (e) Cause of Non-compliance.
 - (f) Action taken to mitigate any adverse of the non-compliance.
 - (g) Action taken to prevent a recurrence of the non-compliance.
- 4.2.2 The Consent Holder's compliance with the conditions of this Consent may be the subject of monitoring or audit by Water NSW from time to time. The Consent Holder must fully cooperate in the compliance monitoring or audit process.

4.3 Annual Statement of Compliance

The Consent Holder must provide Water NSW with a signed copy of the Russell Vale Colliery and Wongawilli Colliery Annual Environmental Management Report (AEMR), required under the mining leases outlined in Schedule 1 Item 2, containing an 'Annual Statement of Compliance with Consent Conditions' which is consistent with the form set out in Schedule 6. The annual statement of compliance will indicate compliance or otherwise with the conditions in this Consent for each 12 month reporting period (being 1 July to 30 June) with the reports due annually by 30 September, in line with the AEMR reporting period. The Consent Holder must sign and endorse the AEMR and submit it to Water NSW via email to compliance@waternsw.com.au.

5 General Conditions

5.1 Release

By accessing the Designated Area, the Consent Holder agrees to exercise the rights granted by Water NSW at its own risk and to release to the full extent permitted by law, Water NSW, its employees, agents and contractors, in the absence of any negligence on their part from all suits, actions, demands and claims of every kind resulting from any damage or destruction to any property (both real and personal) and injury suffered or sustained by any persons (including death) arising out of or in connection with the Permitted Activity.

5.2 Indemnity

- 5.2.1 By accessing the Designated Area, from the date of the consent, the Consent Holder agrees to indemnify and keep indemnified, Water NSW, its employees, agents and contractors in the absence of any negligence on their part from and against all its actions, demands, claims, proceedings, losses, damages, costs (including legal costs), charges or expenses incurred by Water NSW or for which Water NSW may become liable resulting from any damage or destruction to any property (both real and personal) and injury suffered or sustained by any persons arising out of or in connection with the Permitted Activity.

5.3 Warranty

Water NSW provides no warranty that the Designated Area is suitable for the Permitted Activity.

5.4 Insurance

- 5.4.1 The Consent Holder must, prior to accessing the Designated Area, provide Water NSW with a certificate of currency for Public Liability Insurance for the amount specified in Item 7 of the Reference Schedule covering property, injury or death arising from the Consent Holder undertaking the Permitted Activity in the Designated Area.
- 5.4.2 The policy must note the insurable interest of Water NSW.

5.5 Additional conditions

The Consent Holder must comply with the additional conditions contained in Schedule 2. To the extent that there is any inconsistency between the standard conditions of this Consent and the additional conditions in Schedule 2, the additional conditions take preference to the standard conditions in this Consent, to the extent necessary to resolve the inconsistency.

5.6 Definitions

- 5.6.1 In this Consent unless the contrary intention appears:
- a) **Authorised Officer** means a member of staff, and includes any class of persons prescribed by the regulations, who is designated by Water NSW as an authorised officer whose official duties are concerned with the enforcement of the *Water NSW Act 2014* and the *Protection of the Environment Operations Act 1997* or their regulations or with the investigation or prosecution of offences or alleged offences against these Acts or the regulations.

- b) **Authority** means any government or any governmental, semi-governmental, quasi-governmental, administrative, or judicial body, department, commission, authority, tribunal, or entity which has power to provide a Statutory Approval.
- c) **Commencement Date** means the commencement date of the Consent set out at Item 3 of the Reference Schedule.
- d) **Consent** means this document and all schedules to it.
- e) **Consent Holder** means the party identified at Item 1 of the Reference Schedule.
- f) **Consent Holder's Equipment** means all the equipment brought onto the Designated Area by the Consent Holder, its employees, contractors, and consultants.
- g) **Consent Fee** means the amount payable by the Consent Holder in accordance with Condition 2.3 and set out in Item 8 of the Reference Schedule.
- h) **Designated Area** means that part of Water NSW land described in Item 2 of the Reference Schedule.
- i) **EP&A Act** means the *Environmental Planning and Assessment Act 1979*.
- j) **Expiry Date** means the date of the Consent will expire as set out at Item 4 of the Reference Schedule.
- k) **Hours of Operation** means times at which the Consent Holder is permitted to access the Designated Area for the purpose of the Permitted Activity. Hours of Operation are outlined in the Consent Summary and Item 6 of the Reference Schedule.
- l) **Permitted Activity** means the activity for which the Consent is required as described in Item 5 of Reference Schedule.
- m) **Reference Schedule** means Schedule 1 of this Consent.
- n) **Statutory Approval** means any licence, approval or consent issued by any Authority permitting the Consent Holder to undertake the Permitted Activities in the Designated Area.
- o) **Water NSW Act** means *Water NSW Act 2014*.
- p) **Water NSW Regulation** means *Water NSW Regulation 2020*.
- q) **Water NSW Road and Fire Trail Rules** means the rules set out in Schedule 7.



Fiona Smith
Executive Manager Water and Catchment Protection
Water NSW

DATE: 3 March 2021

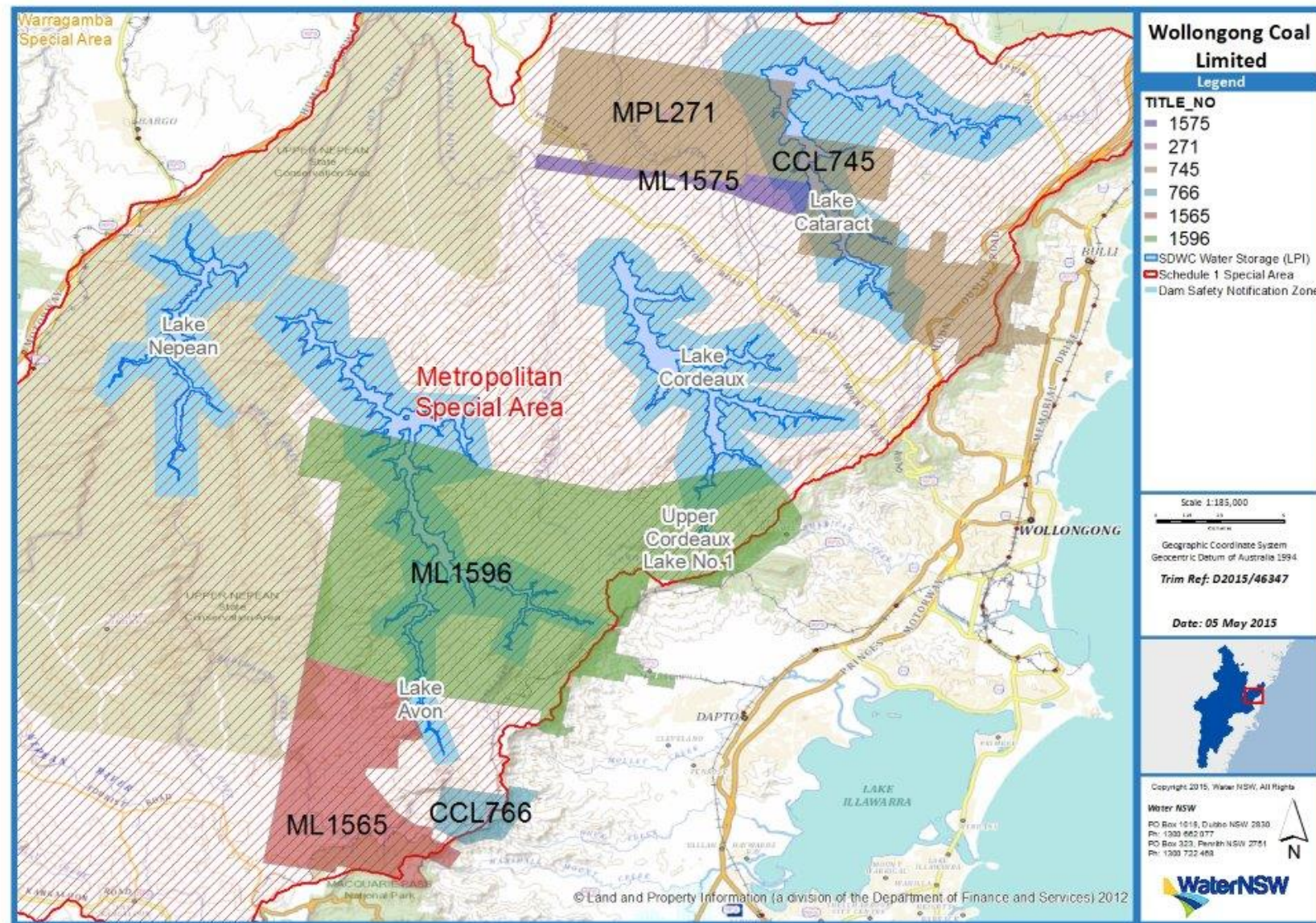
Schedule 1 – Reference Schedule

Item 1	Consent Holder:	Wollongong Coal Limited
Item 2	Designated Area:	The surface area of the Metropolitan Special Area associated with ML1565, ML1575, ML1596, MPL271, CCL745 & CCL766 as required to be accessed in accordance with a Statutory Approval as detailed in the map provided at Schedule 3.
Item 3	Commencement Date:	4 March 2021
Item 4	Expiry Date:	3 March 2026
Item 5	Permitted Activity:	To enter and remain on Special Area land and carry out activities that are otherwise prohibited by the Water NSW Regulation 2020 to the extent necessary to carry out the requirements of any Statutory Approval.
Item 6	Hours of Operation:	24 hours per day, 7 days per week unless otherwise specified in EP&A Act approval to a specific Permitted Activity.
Item 7	Insurance	Public Liability Insurance of up to \$25M for any one occurrence unlimited to the number of occurrences in any one policy year.
Item 8	Consent Fee	Not used.

Schedule 2 – Additional Conditions

Not Applicable.

Schedule 3 – Map showing location of ML1565, ML1575, ML1596, MPL271, CCL745 and CCL766



Schedule 4 – List of Fire Trails as at 3 March 2021

List of Water NSW roads and fire trails which may be utilised under this Consent:

1
1F
6A
6D
6F
6G
7
7C
7D
7J
7L
7M
8
8A*
8C*
8H
9G*
12
12B
15
15A
15E
15F
15G
15H
15I
15J
15M

** indicates the roads and fire trails that are the sole responsibility of the Consent Holder to maintain and repair in accordance with Schedule 5, except where damage is caused by another user

Schedule 5 – Managing Urban Stormwater – Soils and Construction – Volume 2C – Unsealed Roads, and NSW Rural Fire Service Fire Trail Design, Construction and Maintenance Manual

Managing Urban Stormwater – Soils and Construction – Volume 2C – Unsealed Roads (Department of Environment & Climate Change NSW, 2008)

NSW Rural Fire Service Fire Trail Design, Construction and Maintenance Manual (Soil Conservation Service, 2017)

Schedule 6 – Annual Statement of Compliance with Consent Conditions

Consent Holder

Wollongong Coal Limited

Consent Number

F2020/3092

Reporting Period

{insert dates}

Compliance with Consent Conditions

1. Were all the following documents complied with during the reporting period? (tick a box)

Consent/Approval	Yes	No
a. Conditions of this Consent;		
b. All Statutory Approvals;		
c. Any environmental management plans, rehabilitation plans, revegetation plans, soil and water management plans, water monitoring plans or other plans required by Water NSW.		

2. If you answered “No” to any part of question 1, please supply the name of the non-compliance/incident and the date the written report was provided to Water NSW, in the table below:

Non Compliance / Incident (one line)	Date written report provided to Water NSW	Relevant section of Annual Review (if applicable)

3. How many pages have you attached?
(Each attached page must be initialled by the person(s) who signs Section 4 of this Statement of Compliance)

4. Signature and Certification

The Statement of Compliance must only be signed by a person(s) with legal authority to sign it as set out below:

- By affixing the Common Seal in accordance with *Corporations Act 2001*, or
- By 2 Directors, or
- By a Director and a Company Secretary, or
- By a person delegated to sign on the company's behalf in accordance with the *Corporations Act 2001* and approved in writing by Water NSW to sign on the company's behalf.

Signature:

Name:

(printed)

Position

Date:

Signature:

Name:

(printed)

Position

Date:

SEAL (if signing under Seal)

The Consent Holder can request Water NSW approval for the compliance requirements of this Consent to be linked to and built into other compliance reporting that may be required under approvals issued under the EP&A Act.

Schedule 7 – Water NSW Road and Fire Trail Rules

1. The driver of any vehicle must hold a current driver's licence and obey all speed advisory and warning signs. Vehicle speed must not exceed **40 km/h** on public access roads at WaterNSW owned sites such as picnic grounds unless otherwise signposted and **60 km/h** for all other Water NSW roads and fire trails unless otherwise signposted.
2. Any motor vehicle used to travel on any surface within the Designated Area must be registered and suitable for the purpose for which it is being used. The minimum vehicle standard for use in the non-publicly accessible areas within the Designated Area is a vehicle with All Wheel Drive or Four-Wheel Drive capabilities.
3. All vehicles must carry appropriate safety and recovery gear consistent with the Consent Holder's Safe Work Plan or other Work Health and Safety requirements.
4. All drivers of vehicles must be competent to operate or drive, and be appropriately licensed, for the type of vehicle in use.
5. The Consent Holder must not drive or use any road or fire trail in the Designated Area if the road or fire trail is not suitable for type of vehicle in use, or if driving or using any road or fire trail will result or is likely to result in damage to the road or fire trail or damage to the surrounding catchment area.
6. Vehicles must not be driven on the roads or fire trails in the Designated Area if they have been closed by Water NSW for any reason, unless permitted by this Consent.
7. Vehicles may only be driven on formed fire trails in the Designated Area, unless permitted by the Statutory Approvals.
8. Vehicles must not be driven around fallen branches and trees on any road in the Designated Area. The Consent Holder must remove any items obstructing the road or report their location to Water NSW. Vehicles must not progress along a road unless the obstruction has been removed first.
9. Entry is restricted to vehicles essential to undertake the Permitted Activity and vehicle movements must be kept to a minimum.
10. For this section, the term "vehicles" includes all vehicles including cars, trucks and any machinery driven on roads and fire trails.

Schedule 8 – Special Area Wet Weather Management Plan and Trigger Action Response Plan

WaterNSW Special Areas Wet Weather Management Plan dated 30 September 2020 (Wollongong Coal DOC ID: WCL EC PLN 004) – WaterNSW Reference number: D2021/9895

Wet Weather – Trigger Action Response Plan (TARP) dated 30 September 2020 (Wollongong Coal DOC ID: WCL EC TARP 001) – Water NSW Reference number: D2021/9897

Nicholas Robinson

From: Richard Sheehan <richard.sheehan@wcl.net.au>
Sent: Tuesday, 10 August 2021 2:21 PM
To: Trescinda Brown
Cc: Luke Bettridge
Subject: FW: Submission of RVC Extraction Plan_Land Management Plan and Public Safety Plan for WNSW review
Attachments: fig2_21174_003_30K_Natural_Features_rev1.pdf; RVC EC PLN 009_Public Safety Management Plan _Rev 3_Draft.docx; 21174_Russell Vale UEP Land Management Plan_V2_Draft.docx

From: Richard Sheehan <richard.sheehan@wcl.net.au>
Sent: Tuesday, 3 August 2021 9:21 PM
To: 'Jessie Evans' <Jessie.Evans@waternsw.com.au>
Cc: 'Ravi Sundaram' <ravi.sundaram@waternsw.com.au>; 'Devendra Vyas' <DVyas2@wcl.net.au>
Subject: RE: Submission of RVC Extraction Plan_Land Management Plan and Public Safety Plan for WNSW review

Good evening Jessie and Ravi,

Further to our correspondence as attached please see for your information and review the WCL Extraction Plan Land Management Plan and Public Safety Plan in draft form.

To support the review of the Land Management Plan please also see the Figure 4 showing the identified natural features.

If you have any questions or comments on the attached please contact me at your convenience.

Regards

Richard Sheehan
Group Environmental & Approvals Manager



Wollongong Coal Limited
Russell Vale Colliery
7 Princes Highway, Corrimal NSW 2518

PO Box 281, Fairy Meadow NSW 2519
☎ Mob: 0404 972 746
✉ Email: Richard.sheehan@wcl.net.au

From: Richard Sheehan <richard.sheehan@wcl.net.au>
Sent: Thursday, 17 June 2021 10:28 PM
To: 'Jessie Evans' <Jessie.Evans@waternsw.com.au>
Cc: 'Ravi Sundaram' <ravi.sundaram@waternsw.com.au>
Subject: RE: Management plans

Thanks Jessie

Apologies as we had suggested we might have been able to meet to discuss last Friday as there are overlapping requirements with regard to the Land Management Plan, Public Safety Plan, and the Built Features Plan if we consider the high water line of the dam as that defining line for the asset being the dam catchment. I will take the points raised and get back to you on the specifics of a response including which document will address this requirement.

In addition we have consult with WNSW for comment via the DPIE portal, specifically reference PAE-20016268 and (MP09_0013-PA-19) being the UEP Extraction Plan Water Management Plan.

We are looking to complete the consultation phase of this management plan in the coming days so we can move towards finalisation and submission to DPIE next week in association with the Draft Extraction Plan. As such it would be greatly appreciated if you were able to provide comment early in the new week.

Regards

Richard Sheehan
Group Environmental & Approvals Manager



Wollongong Coal Limited
Russell Vale Colliery
7 Princes Highway, Corrimal NSW 2518
PO Box 281, Fairy Meadow NSW 2519
☎ Mob: 0404 972 746
✉ Email: Richard.sheehan@wcl.net.au

From: Jessie Evans <Jessie.Evans@waternsw.com.au>
Sent: Monday, 7 June 2021 9:53 AM
To: Richard Sheehan <richard.sheehan@wcl.net.au>
Cc: Ravi Sundaram <ravi.sundaram@waternsw.com.au>
Subject: Management plans

Hi Richard,

At the TWG we discussed getting together to work out what it include in the management plans Wollongong Coal is required to prepare. Having reviewed the conditions, I don't think we necessarily need to meet but Kel and I have put together some points for you to consider below. I strongly recommend having a look at Metropolitan Coal's management plans (available on their website) as they have similar requirements.

Management plans should look at the following, in particular,

- Roads - damage to roads from mining subsidence and overuse is a water quality and management issue. Long term use of roads and tracks and who pays for ongoing maintenance including cleaning out culverts and drains and repairs after heavy rain. What tracks are WCL going to manage?
- Infrastructure – Any WNSW assets needs to have a dilapidation survey to note current condition and recognise any damage from mining.
- Swamps – Access to piezometers in the middle of swamps needs to be minimised so that broad access ways are not made, minimal disturbance.
- Gates and fences need to be maintained in their current condition, no additional locks to maintain security.

I hope that helps.

Thanks

Jessie Evans
Mining Manager, Catchment Protection

*For noting: I am currently working remotely.
Please reach me via email or on my mobile*



Level 14, 169 Macquarie Street
PO Box 398
Parramatta NSW 2150

M: 0436 861 165

jessie.evans@waternsw.com.au
www.waternsw.com.au

The information contained in this electronic mail message is privileged and confidential, and is intended only for use of the addressee. If you are not the intended recipient, you're hereby notified that any disclosure, reproduction, distribution or other use of this communication is strictly prohibited. If you have received this communication in error, please notify the sender by reply transmission and delete the message without copying or disclosing it.

DISCLAIMER:

The information contained in this electronic communication is intended solely for the individual(s) or entity to which it is addressed. It may contain proprietary, confidential and/or legally privileged information. Any review, retransmission, dissemination, printing, copying or other use of, or taking any action in reliance on the contents of this information by person(s) or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this communication in error, please notify us by responding to this email or telephone and immediately and permanently delete all copies of this message and any attachments from your system(s). The contents of this message do not necessarily represent the views or policies of our company. Computer viruses can be transmitted via email. Our Group IT attempts to sweep e-mails and attachments for viruses, it does not guarantee that either are virus free. The recipient should check this email and any attachments for the presence of viruses. Jindal Steel & Power Ltd and associated business entities does not accept any liability for any damage sustained as a result of viruses.

Richard Sheehan

From: Ravi Sundaram <ravi.sundaram@waternsw.com.au> on behalf of Ravi Sundaram
Sent: Tuesday, 24 August 2021 3:02 PM
To: Richard Sheehan; Jessie Evans
Cc: Devendra Vyas
Subject: RE: RE: Submission of RVC Extraction Plan_Land Management Plan and Public Safety Plan for WNSW review

Hi Richard

Thank you for providing WaterNSW to review draft versions of the above plans. WaterNSW has reviewed the plans and has the following comments/suggestions for your consideration.

Public Safety Management Plan (PSMP)

Special Area Access Consent

Majority of the surface land overlying the proposed extraction area lies within WaterNSW land declared as a Special Area (specifically the Metropolitan Special Area) owned and managed by WaterNSW and provisions of the *WaterNSW Act 2013* and *WaterNSW Regulation 2020* apply. Maintaining the ecological integrity of the Special Areas is important and a key consideration of WaterNSW Mining Principles.

Section 2.3 Table 3 must list the Special Area Consent (Consent No. F2020/3092; commenced on 4th March 2021 and valid until 3rd March 2026) – Issued by WaterNSW under Division 1 of Part 3 of the *Water NSW Regulation 2020*.

Unsealed access roads and Fire trails (Section 6.1.3)

Fire trails within the Metropolitan Special Area and overlying the mining area have a low potential to be impacted by subsidence due to the mining method adopted. However, they can be directly impacted on the surface by WCL activities in relation to exploration and environmental monitoring. A list of Water NSW roads and fire trails which may be utilised by WCL are listed in Schedule 4 of the Consent. WCL is responsible for any damage caused to fire trails due to its surface activities and must have mitigation and contingency measures in place to ensure all WaterNSW fire trails are safe, serviceable and repaired as soon as practical.

Schedules in the WCL Special Area Consent detail necessary aspects in relation to maintenance of fire trails including:

- Schedule 5 – Guidelines
 - Managing Urban Stormwater – Soils and Construction – Volume 2C – Unsealed Roads, and
 - NSW Rural Fire Service Fire Trail Design, Construction and Maintenance Manual
- Schedule 7 - WaterNSW Road and Fire Trail Rules
- Schedule 8 – Special Area Wet Weather Management Plan and Trigger Action Response Plan

Section 7.1 Para 4 – reference to WaterNSW Standard Conditions must be deleted. Applicable conditions and requirements are listed in WCL's Special Areas Consent (F2020/3092) and in any approvals including specific activity approvals issued by WaterNSW under Part 5 of the EP&A Act. Section 7.3.1 – WaterNSW Special Areas: Reference to WaterNSW track maintenance guidelines (including the Track Stabilisation and Control Manual) needs to be deleted as it is no longer used by WaterNSW. Recommended guidelines are specified in Schedule 5 of WCL's Special Areas Access Consent. Schedule 7 of WCL's Access Consent also specifies WaterNSW's road and fire trail rules and Schedule 4 specifies roads and fire trails WCL can access within the Metropolitan Special Areas. A list of the most relevant ones overlying the Russell Vale Colliery proposed extraction area must be listed here that will be utilized, monitored and maintained.

Land Management Plan

Majority of the surface land overlying the proposed extraction area lies within WaterNSW land declared as a Special Area owned and managed by WaterNSW and provisions of the WaterNSW Act 2013 and WaterNSW Regulation 2020 apply. Maintaining the ecological integrity of the Special Areas is important and a key consideration of WaterNSW Mining Principles. Section 1.5 Natural Features must acknowledge this.

Section 2.3 Leases, Licences and Permits must list the Special Area Consent (Consent No. - F2020/3092; commenced on 4th March 2021 and valid until 3rd March 2026) – Issued by WaterNSW under Division 1 of Part 3 of the Water NSW Regulation 2020.

Please feel free to contact me if you need to clarify any information regarding the above.

Regards

Ravi

Ravi Sundaram
Mining Catchment Specialist



PO Box 398, Parramatta NSW 2124
Level 14, 169 Macquarie Street
Parramatta NSW 2150

T: 02 9865 2507

M.: 0428 226 152/ 0451 510 194

ravi.sundaram@waterNSW.com.au

www.waterNSW.com.au

Note: Please contact me by email or on my mobile until further notice as I may be working remotely.

The information contained in this electronic mail message is privileged and confidential, and is intended only for use of the addressee. If you are not the intended recipient, you're hereby notified that any disclosure, reproduction, distribution or other use of this communication is strictly prohibited. If you have received this communication in error, please notify the sender by reply transmission and delete the message without copying or disclosing it.

DISCLAIMER:

The information contained in this electronic communication is intended solely for the individual(s) or entity to which it is addressed. It may contain proprietary, confidential and/or legally privileged information. Any review, retransmission, dissemination, printing, copying or other use of, or taking any action in reliance on the contents of this information by person(s) or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this communication in error, please notify us by responding to this email or telephone and immediately and permanently delete all copies of this message and any attachments from your system(s). The contents of this message do not necessarily represent the views or policies of our company. Computer viruses can be transmitted via email. Our Group IT attempts to sweep e-mails and attachments for viruses, it does not guarantee that either are virus free. The recipient should check this email and any attachments for the presence of viruses. Jindal Steel & Power Ltd and associated business entities does not accept any liability for any damage sustained as a result of viruses.

From: Richard Sheehan <richard.sheehan@wcl.net.au>

Sent: Tuesday, 3 August 2021 9:21 PM

To: Jessie Evans <Jessie.Evans@waterNSW.com.au>

Cc: Ravi Sundaram <ravi.sundaram@waterNSW.com.au>; Devendra Vyas <DVyas2@wcl.net.au>

Subject: ARK: RE: Submission of RVC Extraction Plan_Land Management Plan and Public Safety Plan for WNSW review

Good evening Jessie and Ravi,

Further to our correspondence as attached please see for your information and review the WCL Extraction Plan Land Management Plan and Public Safety Plan in draft form.

To support the review of the Land Management Plan please also see the Figure 4 showing the identified natural features.

If you have any questions or comments on the attached please contact me at your convenience.

Regards

Richard Sheehan

Group Environmental & Approvals Manager



Wollongong Coal Limited

Russell Vale Colliery

7 Princes Highway, Corrimal NSW 2518

PO Box 281, Fairy Meadow NSW 2519

☎ Mob: 0404 972 746

✉ Email: Richard.sheehan@wcl.net.au

RVF22/403#40
MAAG0013970

Mr Simon Pigozzo

Via: Major Project Portal / Email

Dear Mr Pigozzo

Re. Extraction Plan - Russell Vale Underground Expansion - RVC Revised UEP Extraction Plan

I refer to your request of 20 April 2022 for advice regarding the Russell Vale Underground Expansion - RVC Revised UEP Extraction Plan. The Resources Regulator has reviewed the request.

Limitations

The Extraction Plan is assessed and determined by DPIE under the conditions of the development consent. The Resources Regulator provides advice to DPIE to assist in the determination. In view of the high-level uncertainties in relation to the magnitude, nature, location, timing and duration of subsidence development due to the highly complicated conditions at the subject site as well as the existence of the Key Public Infrastructure located above the proposed extraction panels PC07 and PC08, we suggest that the Approving Authority consider and enforce relevant Conditions of Approval to ensure that the proposed mining of PC07 and PC08 be subject to:

1. The Proponent's undertaking of a specific review of the subsidence monitoring and any other relevant data collected during the mining of extraction panels PC21 to PC25 and PC27 to PC34. The objectives of the review are to up-date the Proponent's understanding of risks to the Key Public Infrastructure located above the proposed extraction panels PC07 and PC08 and, if warranted as a result of the review, to up-date the Proponent's risk management plans for the Key Public Infrastructure. The aforementioned review must include the representatives of the infrastructure operators, and
2. The infrastructure operators' endorsement of the Proponent's proposed risk management plans for the Key Public Infrastructure following the above-mentioned review.

Please note:

- The Key Public Infrastructure mentioned above is identified in Condition C7 of the Development Consent (i.e. MP09_0013, dated 8 December 2020);
- The aforementioned review may take place towards the end or after the completion of mining of extraction panels PC21 to PC25 and PC27 to PC34, and
- In discussing the Sequencing of Mining, the Proponent states that "Stage 2 second workings (PC27-PC34) may be undertaken concurrently with Stage 1a (PC21- PC25) and Stage 1b (PC07-PC08) second workings." In this case, it is critical to mine extraction panels PC21 to PC25 and PC27 to PC34 prior to the review as recommended above, considering the potentially severe consequences and any resulting community outrages if the Key Public Infrastructure is adversely affected by subsidence.

In addition, the holder of relevant mining leases is required to ensure that the rehabilitation commitments outlined in any approved Extraction Plan are included in the Mining Operations Plan / Rehabilitation Management Plan regulated by the Resources Regulator pursuant to the conditions of the mining leases under the Mining Act 1992. The holder of the mining leases must ensure the Mining Operations Plan / Rehabilitation Management Plan for the area covered by this 'RUSSELL VALE COLLIERY REVISED UNDERGROUND EXPANSION PROJECT, EXTRACTION PLAN, STAGES ONE and TWO - PC07, PC08 & PC21 to PC25 and PC27 to PC34 , RVE EC PLN 010 (dated 30 November 2021) ' is updated where necessary.

Regulatory requirements if approved

The authorisation holder is required to ensure that the rehabilitation commitments outlined in any approved Extraction Plan are included in the Mining Operations Plan / Rehabilitation Management Plan regulated by the Resources Regulator under the conditions of the mining lease and the *Mining Act 1992*. The authorisation holder must ensure the Mining Operations Plan / Rehabilitation Management Plan for the area covered by this Extraction Plan is updated where necessary.

The Resources Regulator may undertake assessments of the mine operators' proposed mining activities under the *Work Health and Safety (Mines and Petroleum Sites) Act 2013* and Regulation as well as other WHS regulatory obligations.

Subsidence associated with the proposed Extraction Plan will be regulated by under relevant provisions of WHS laws in particular Clause 33 and Clause 67 of the *Work Health and Safety (Mines and Petroleum Sites) Regulation 2014* relating to High Risk Activities and Subsidence.

Background

The NSW Resources Regulator is responsible for compliance and enforcement of the Extraction Plan is so far as it relates to requirements under the Mining Act 1992 and Work Health and Safety legislation. This role principally relates to rehabilitation, workplace safety and public safety.

The Mining Act Inspectorate within the Resources Regulator undertake risk-based compliance and enforcement activities in relation to obligations under the *Mining Act 1992*. This includes undertaking assessment and compliance activities in relation to mine rehabilitation activities and determination of security deposits.

The Mine Safety Inspectorate within the Resources Regulator is responsible for ensuring the mine operators' compliance with the Work Health and Safety (WHS) legislation, in particular the effective management of risks associated with the principal hazards as specified in the *Work Health and Safety (Mines and Petroleum Sites) Regulation 2014*.

Contact

Should you require any further information or clarification, please contact the Office of the Executive Director (ED.ResourcesRegulator@planning.nsw.gov.au)

Yours sincerely,



Peter Day
Executive Director
Resources Regulator
13 May 2022



Our Ref: 21174_Peter Day re NSWRR submission_V1.0

31 May 2022

Peter Day
Executive Director
NSW Resources Regulator

E| ED.ResourcesRegulator@planning.nsw.gov.au

Dear Peter

RE: NSW Resources Regulator Comments on Russell Vale Colliery Revised UEP Extraction Plan (RVF22/403#40, MAAG0013970)

I refer to your letter to Simon Pigozzo dated 13 May 2022 regarding the Russell Vale Colliery (RVC) revised Extraction Plan for the approved Russell Vale East mining area.

Thank you for providing a response, as requested by Wollongong Coal Limited (WCL) on 20 April 2022, for the revised Extraction Plan.

The extraction plan was revised to include extraction of the 'Stage 2' area, panels PC27–34. Based on the comments in the letter, we have assumed that the Resources Regulator has no specific concerns regarding the draft Extraction Plan insofar as it relates to the 'Stage 2' mining area (panels PC27–34).

As detailed in the current conditional approval of the 'Stage 1' Extraction Plan, mining is currently only approved in panel PC21 with further mining in PC22–25 and in PC07 and PC08 being subject to a review of subsidence monitoring in PC21 to confirm impact predictions. A minimum of 12 months groundwater monitoring within CCUS1 and the endorsement of the extraction plan by relevant infrastructure owners in the vicinity of PC07–08 is also required before mining can commence in PC07 and PC08.

A detailed submission to the Department of Planning and Environment is currently being prepared regarding the proposed approach to satisfying the subsidence monitoring requirements of this conditional approval.

Please do not hesitate to contact the undersigned on 1300 793 267 should you require clarification or further information.

Yours sincerely

David Holmes
Principal Environmental Consultant

E| dholmes@umwelt.com.au

cc Department of Planning and Environment

Inspired People.
Dedicated Team.
Quality Outcomes.

**Umwelt (Australia)
Pty Limited**

ABN 18 059 519 041

T| 1300 793 267
E| info@umwelt.com.au

www.umwelt.com.au

27 April 2022

Contact: Ravi Sundaram
Telephone: 0428226152
Our ref: D2022/31435

Jessie Evans, Director Resource Assessments, DPE
Email: Jessie.Evans@DPIE.nsw.gov.au

Dear Jessie

Russell Vale Colliery Underground Expansion Project – Stage 2 (PC27-PC34) Extraction Plan

WaterNSW appreciates the opportunity to review the updated extraction plan (EP) which now include Stage 2 (PC27-34) of underground mining expansion project. WaterNSW has previously provided feedback on the Stage 1 (PC07-08 and 21 -25) (our reference - D2021/116712). Both Stage 1 and Stage 2 mining areas are located within the Metropolitan Special Area and the Upper Nepean Catchment (specifically within the upper catchment of the Cataract Reservoir).

WaterNSW has an important statutory role "*to protect and enhance the quality and quantity of water in declared catchment areas*". It also has a set of 'Mining Principles' which underpin WaterNSW decision making in relation to managing mining impacts in the declared Sydney catchment area and on catchment infrastructure.

Wollongong Coal Limited (WCL) has consulted with WaterNSW in preparing several key management plans required under the approval including Water Management Plan, Land Management Plan, Swamp Monitoring Program, and the Public Safety Management Plan. The EP has addressed feedback provided by WaterNSW to these plans.

Proposed mining in the Wongawilli seam in the Stage 2 area underlie parts of the previously mined Bulli and Balgownie seam workings area. The subsidence assessment has comprehensively addressed the pillar stability and pillar failure issues, and the potential risk of 'pillar run' for proposed extraction in a multi-seam area where overlying seams have been extracted previously.

Subsidence assessment predicts:

- vertical subsidence to be less than 100mm and generally imperceptible over most of the area, and
- the impacts, and consequences to natural, surface, and sub-surface features to be negligible and imperceptible in the undeveloped bushland setting over most of the Stage 2 extraction area.

WaterNSW considers that:

- The mining method and mine design adopted by WCL to the proposed mining in Stage 2 is likely to result in negligible impacts on water resources, biodiversity, and catchment environmental values.
- The proposed monitoring and management measures are appropriate for the planned mining method and subsidence predictions.
- The underground mine water balance monitoring system is expected to be effective as a guide to any unexpected inflows and inrush events from previously mined overlying seams and from Cataract Reservoir.
- The Trigger Action Response Plans (TARPs) for water and swamp monitoring including stream and swamp triggers developed based on baseline monitoring of performance indicators and anticipated subsidence effects are reasonable and appropriate.

WaterNSW does not have any concerns to the approval of the updated EP as:

- It has taken into consideration WaterNSW Mining Principles;
- Poses low risk to overlying catchment values and water resources; and
- Is likely to meet the performance measures set in the development consent.

Please contact Dr. Ravi Sundaram if you would like to discuss any of the above matters further.

Yours sincerely

A handwritten signature in blue ink, reading "Daryl Gilchrist". The signature is written in a cursive style with a large initial 'D'.

Daryl Gilchrist
Manager, Catchment Protection