



Doc Owner:

Approvals Coordinator

Doc No:

CHAIN VALLEY COLLIERY
Public Safety Management Plan
Miniwall S5, NMA Pillar Extraction and
Morisset Peninsula
ENVIRONMENTAL MANAGEMENT PLAN

Reviewers	
	Chris Armit
Authorised by:	Chris Armit
	Approvals Coordinator
	Delta Coal
Date:	19 March 2021

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1 Introduction

1.1 Purpose and Scope

The purpose of this Public Safety Management Plan (PSMP) is to:

- ensure compliance with SSD-5465, relevant mining lease conditions and Extraction Plan approvals;
- outline subsidence predictions associated with the mining of miniwall panels S2 to S5 and pillar extraction;
- identify potential public safety risks arising out of subsidence from secondary extraction of Miniwall S5, Northern Pillar Area pillar extraction and first workings underneath the Morisset Peninsula area
- identify public safety monitoring requirements;
- identify public safety reporting requirements;
- ensure negligible additional public safety risk as a result of subsidence arising from extraction associated with the mining areas; and
- allocate roles and responsibilities within the CVC Management structure such that all actions emanating from this document have specific task owners

A formal Environmental Management System (EMS) has been developed as a systematic and structured approach to managing environmental issues at the operation. This has been developed in general accordance with the requirements of the international standard ISO 14001.

This PSMP is an element of the Chain Valley Colliery (CVC) Environmental Management System (EMS).

1.2 Background

Chain Valley Colliery (CVC) is an underground coal mine located on the southern side of Lake Macquarie approximately 60 km south of Newcastle and 80 km north of Sydney (see Figure 1). The pit-top is located approximately 1 km south-east of the township of Mannering Park at the southern extent of Lake Macquarie.

In August 1960, J&A Brown and Abermain Seaham Collieries Ltd commenced clearing the present site with drift and shaft sinking starting a few months later. Production of coal from the Wallarah Seam, commenced with the first delivery to the adjacent Delta Electricity's Vales Point Power Station (VPPS) in April 1963.

Great Southern Energy Pty Ltd (trading as Delta Coal) took over as owner and operator of CVC and as operator of MC on 1 April 2019.

Mining is currently undertaken at CVC, with the coal being transported underground to MC where the coal is crushed and screened and sent directly to VPPS.

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1.3 Consultation

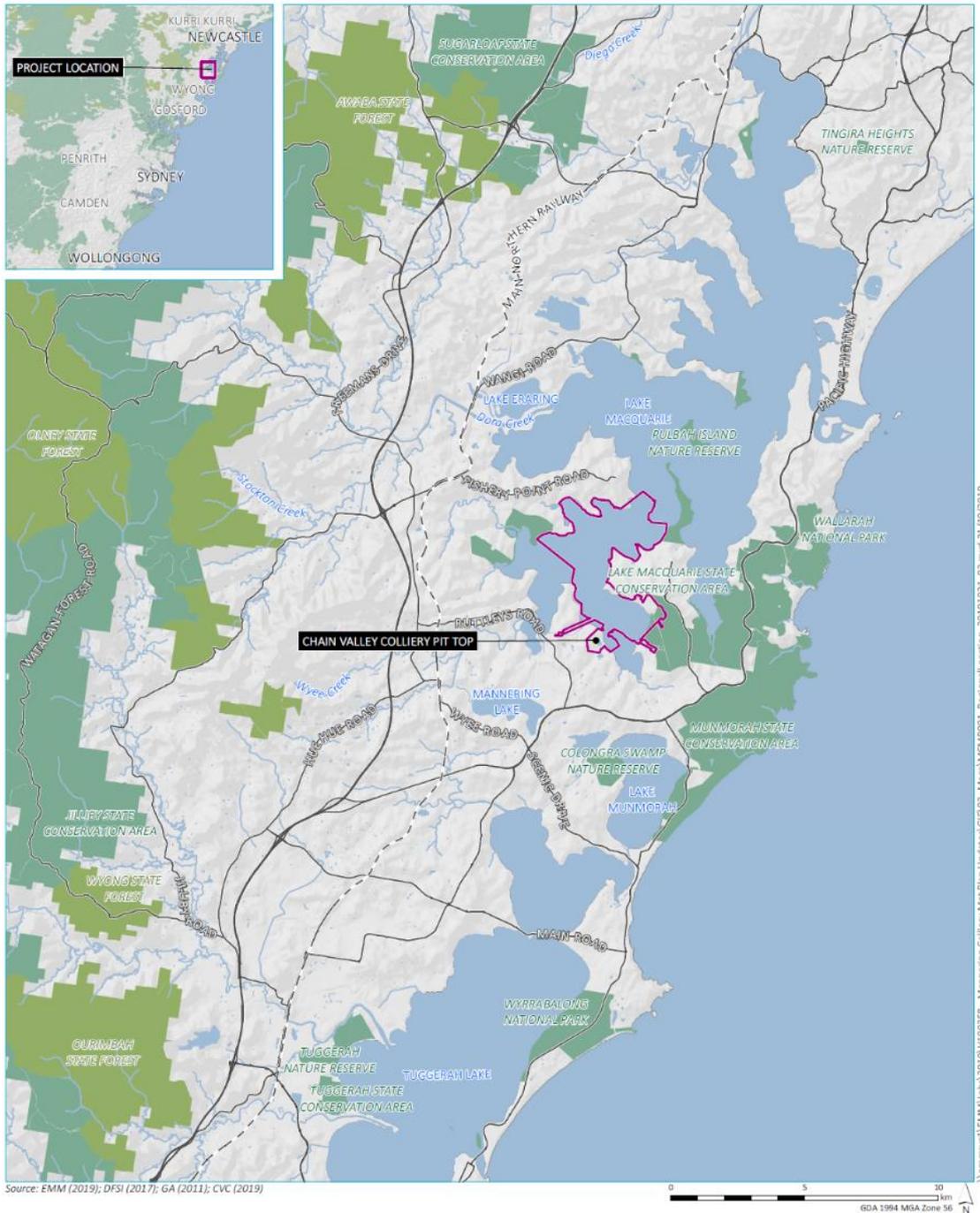
The PSMP is required to be prepared in consultation with the Department of Planning, Industry and Environment (DPIE) and Resource Regulator (RR) as per Schedule 4 (Specific Environmental Conditions) conditions 7 (j). A draft for comment copy of the PSMP was provided to Delta Coal employees with roles and responsibilities under the PSMP on the 7 September 2020. This PSMP includes updates for miniwall S5 and the northern mining pillar extraction area was provided to DPIE, RR, Lake Macquarie City Council (LMCC), Central Coast Council (CC Council), Subsidence Advisory NSW (SA), combined CVC and MC CCC, Transport for NSW (TfNSW) on 18 December 2020 as part of the extraction plan drafting process. This management plan is an Appendix to the CVC Miniwall S5 and Northern Pillar Area Extraction Plan submitted on the planning portal on the 19 January 2021. Evidence of consultation is provided in **Appendix 1**.

A summary of the comments received, and amendments subsequently made to the document prior to finalisation are detailed in **Table 1**.

Table 1: Consultation Summary

Stakeholder	Comments	Response/Action
DPIE-Resource Assessments	<ul style="list-style-type: none"> Request for information (RFI) provided on 5 March 2020. See attached DPIE RFI letter and attachment (Appendix 1). 	<ul style="list-style-type: none"> Section 2.3 updated Tracked changes document provided on planning portal for updated consent references and mining panel numbering
Resource Regulator	<ul style="list-style-type: none"> No comments 	<ul style="list-style-type: none"> Nil required
Transport for NSW	<ul style="list-style-type: none"> Comments from TfNSW as part of the Built Features Management Plan (Appendix 1). There is no action required for these 4 navigation aids for the predicted subsidence and tilts and no further action required unless the subsidence and tilt exceed the values that have previously stipulated 	<ul style="list-style-type: none"> Sections 3.3 and 5 updated
LMCC	<ul style="list-style-type: none"> No comments 	<ul style="list-style-type: none"> Nil required
CC Council	<ul style="list-style-type: none"> No comments 	<ul style="list-style-type: none"> Nil required
Combined CVC and MC Community Consultative Committee	<ul style="list-style-type: none"> No comments 	<ul style="list-style-type: none"> Nil required

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- Source: EMM (2019); DFSI (2017); GA (2011); CVC (2019)
- KEY**
- Chain Valley Colliery development consent boundary
 - Rail line
 - Main road
 - Watercourse/drainage line
 - Waterbody
 - NPWS reserve
 - State forest

CVC regional context

Chain Valley Colliery
Figure 1

Figure 1: Regional Context

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2 Statutory Requirements

2.1 Key Legislation, Policy and Guidelines

Both State and Commonwealth environmental legislation applies to DC's operation and activities. A number of legislative requirements, government policies and guidelines are applicable. Key items relevant to this management plan are:

- *Protection of the Environment Operations Act 1997* (POEO Act);
- *Environmental Planning and Assessment Act 1979* (EP&A Act); and
- *Mining Act 1992*.

Delta lands are within the LMCC and Central Coast Council local government areas (LGAs).

2.2 Development Consent SSD-5465 Requirements

An Extraction Plan has been developed in order to manage the process of mining layout design and mitigate any subsidence impacts on surface infrastructure, natural features and/or stakeholders. A part of the S5 and Northern Mining Area Pillar Extraction Plan is this PSMP, which have been developed from the risks identified in the S5/Pillar Extraction Plan risk assessment process.

The PSMP is an element of the Chain Valley Colliery (CVC) Extraction Plan, and has been developed to satisfy the requirements of Development Consent SSD-5465, Condition 4, Condition 7(j) and Table 5 in Schedule 3.

Public safety related requirements of SSD-5465, including specific requirements that are to be addressed in this plan, and where they are addressed, are detailed in **Appendix 2**.

3 Background

3.1 Operations

CVC is an underground coal mine with current coal mining methods including development of roadways in the coal seam known as first workings and secondary extraction (miniwall). These first workings develop panels to support the installation of a miniwall, a modern secondary coal extraction method.

Lake Macquarie is the largest saline lake in New South Wales. It lies on the central coast between Sydney and Newcastle within the local government areas of Wyong and Lake Macquarie. Lake Macquarie has a catchment of 700 km² and a water surface area of 125 km² (Bell & Edwards, 1980). The lake has a permanent entrance to coastal waters at Swansea and has an average depth of around 6 m (Laxton, 2005).

The catchment of Lake Macquarie is largely rural with large areas of bush land and grazing land. The shoreline of Lake Macquarie is heavily urbanised, especially the eastern, western and northern shorelines. The region has a relatively long history of coal mining and power generation, with mining occurring since the late 1800s and the first power station at Lake Macquarie commencing operations in 1958.

CVC is situated on the southern shores of Lake Macquarie near Mannering Park, NSW. The mine has been operating since 1962. Mining is currently undertaken using bord and pillar and miniwall methods with first workings to support the development in advance of each Miniwall or pillar extraction panel. All secondary extraction is currently occurring in the Fassifern Seam, in line with Development Consent SSD-5465. The general layout of the CVC Extension Project in respect to Lake Macquarie is shown on **Figure 2**.

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3.2 Subsidence Predictions

Subsidence modelling has predicted up to approximately 500 mm of subsidence to the lake floor associated with the planned miniwall mining of panels S2 to S5 within the sites Northern Mining Domain (**Figure 2**), with an approved maximum of 780 mm (SSD-5465). No additional subsidence is expected to occur within the seagrass or foreshore areas as a result of Fassifern extraction due to the application of High Water and Seagrass Protection Barriers (extraction separation).

It is emphasized, however, that future workings will require detailed planning to address the full range of relevant issues, including pillar stability and subsidence. (Strata 2, 2020).

Important features of the S5 panel area are:

- the Karingal Conglomerate, beneath the Great Northern (GN) Seam, thins from 39m in the NW to 6m in the SE,
- the Teralba Conglomerate, immediately above the GN Seam, thins from 30m in the SE to 12m in the NW,
- the interburden from the Fassifern Seam extraction horizon to the GN Seam floor thins from 62m in the NW to 44m in the south and
- the other major unit in the overburden is the Munmorah Conglomerate, which is typically around 50m thick and 100m above the Fassifern Seam.

The Fassifern Seam floor includes interbedded coal / carbonaceous shale beds, plus moisture sensitive claystone. The individual claystone beds are 50mm to 300mm thick and the cumulative thickness of claystone in the first 2m of floor in the vicinity of MW S5 and the NMA Herringbone Panels is 0.9m to 1.2m, slightly thinner than that encountered in the MW7-12 area. The claystone typically has a strength of <5MPa and is considered weak.

3.3 Public Safety Management – Scope

3.3.1 Identified Features

All secondary extraction mining activities within the Extraction Plan application area are to occur beneath Lake Macquarie and as such will have no direct impact on surface facilities and infrastructure due to negligible vertical subsidence. Despite this, CVC will monitor the foreshore for change and if impacts were observed to be occurring, a review of public safety would be triggered via the Subsidence Management TARP. This focuses on potential changes to flooding and drainage.

The Pelican Rock and Sugar Bay navigational markers located off Summerland Point and Fishery Point respectively is not predicted to see any significant impacts as a result of the mining of panels S2 to S5 or from pillar extraction. The marker located above the Tailgate S2 gate road on Pelican Rock (**Figure 2**) is expected to see approximately 145 mm of vertical subsidence. Transport for NSW (TfNSW) have been consulted in relation to the navigational markers and the level of subsidence impact and have concluded that no direct management will be required, and the marker will be monitored as a part of their routine inspections.

A Built Features Management Plan was developed for Miniwalls S2/S3, S4 and has been compiled for the S5/NMA Pillar extraction plan.

The predicted low strains indicate a very low likelihood of impact to any sensitive features such as steep slopes/cliffs, retaining walls or jetties as a result of the extraction of panels S2 to S5 and the northern pillar extraction area. As such routine visual inspections during subsidence monitoring is proposed to identify any changes outside those expected.

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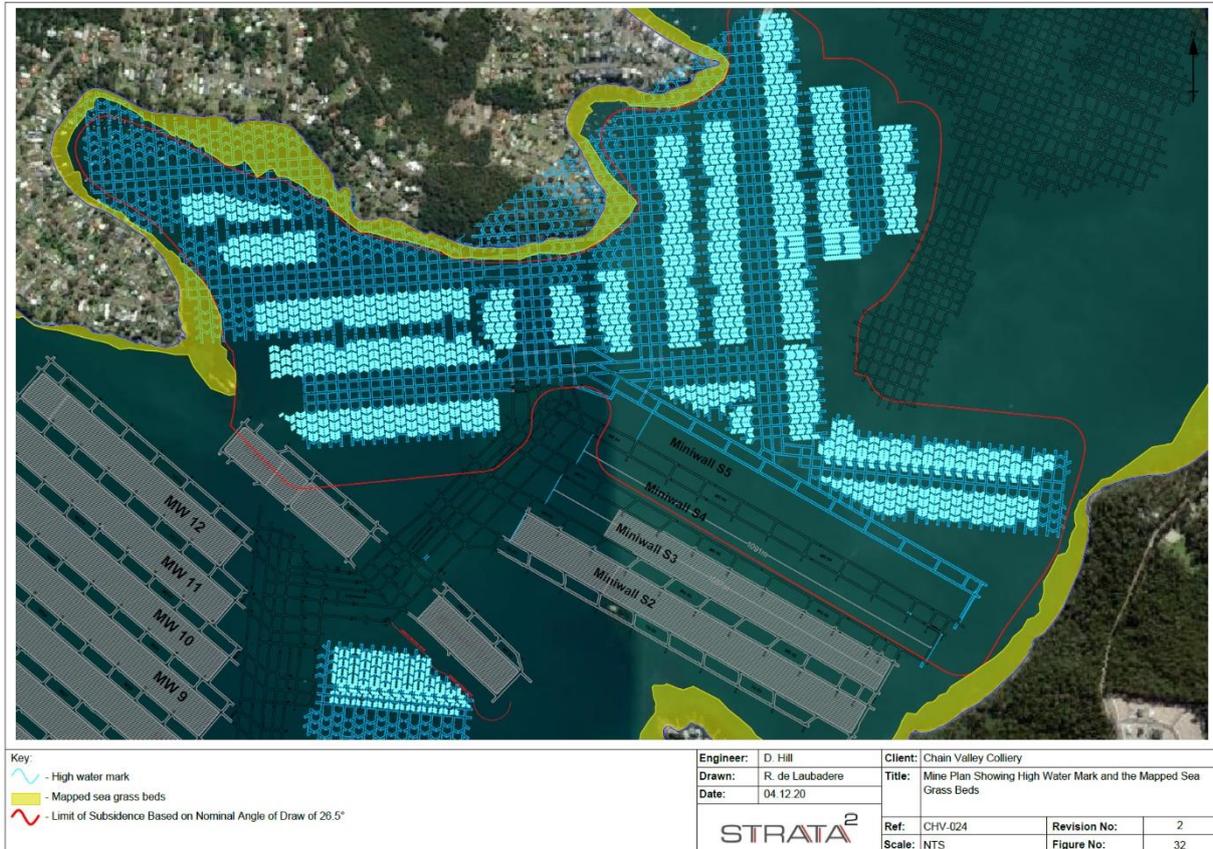


Figure 2: General underground layout and Predicted Limit of Subsidence Associated with Panels S2 and S5 and the Northern Pillar extraction area

4 Public Safety Monitoring

4.1 Subsidence Monitoring Methods

4.1.1 Bathymetric Surveys

Bathymetric Surveys of the lake beds will occur across the area as described by the Subsidence Monitoring Program. These routine surveys will allow for identification of subsidence starting to develop outside predicted levels and thus trigger a review of any potentially new public safety concerns.

4.1.2 Foreshore Monitoring

Established and proposed (subject to access restrictions) survey monitoring points will be monitored around the southern and northern foreshore areas about the extraction plan area. These will consist of either star pickets, feno pegs or survey pins (**Figure 3**). The marks will be monitored as per the Subsidence Monitoring Program. These routine surveys prior, during and after extraction will allow for the identification and review of any subsidence starting to develop outside predicted levels and thus trigger a review of any potentially new public safety concerns. NPWS approved a Conservation Risk Assessment in 6 November 2019 to allow the installation of the Miniwall S4 and S5 survey markers on the Lake Macquarie foreshore within the State Conservation area. During the routine foreshore monitoring, observations and records for change will be noted as outlined in the Subsidence Monitoring Program. This will include observations for surface cracking, embankment movement, cracking, and validation of impacts to drainage or dwellings in areas of measured subsidence increase outside predicted.

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Figure 3: Example of subsidence monitoring point with safety cap

5 Public Safety Management

5.1 Management Practices

Survey pegs installed for monitoring will be clearly identified and as appropriate have ‘safety caps’ placed on them as per **Figure 3**. Survey pins will be the main type of marks installed and are smaller than the pickets and less of a public health and safety risk.

Given the expected negligible impact to public safety, any management practices will be triggered via the aforementioned monitoring strategies and the Subsidence Management TARP included in the Extraction Plan.

Triggering of a potential requirement for a public safety response will be based on the following management strategy:

- If subsidence measured indicates potentially increased impact at the foreshore or to sensitive features (navigational markers, seagrass beds) DPIE, RR and appropriate stakeholders will be notified;
- DC will investigate the area of potential increase for any change in public safety risk;
- DC will inform relevant parties that may be further impacted in relation to public safety. This may include landholders, infrastructure owners, TfNSW, LMCC, CC Council and DPIE;
- where required, DC will immediately implement public safety controls to control imminent risk (i.e. identification, barriers and signage, security, all of which are available at the mine site); and
- DC will develop long term safety controls and remediation with relevant parties in accordance with the Rehabilitation Management Plan.

6 Reporting

6.1 Regular Reporting

On receipt of any monitoring reports, results will be reviewed to confirm compliance with the relevant criteria. This will ensure corrective action is taken where results or trends indicate a non-compliance or risk of future non-compliance. On acceptance of these results by DC, reports will be published on the DC website within 7 days where required.

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6.2 Annual Review

Monitoring results will be presented in the Annual Review, and include:

- a summary of results for the previous calendar year;
- a comparison against limits/criteria;
- a comparison of the impacts with those predicted in the Environmental Assessment; and
- present an analysis of the potential cause(s) of any significant discrepancies between measured and predicted levels.

The Annual Review will be provided to the relevant authorities and a copy will be placed on the DC website.

6.3 Incident or Non-Compliance Notifications and Reporting

If there has been a public safety incident as a direct result of CVC operations, DC must immediately notify DPIE and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing to compliance@planning.nsw.gov.au and identify the development (including the development application number and name) and set out the location and nature of the incident.

Within seven days of becoming aware of a non-compliance, the Delta Coal must notify DPIE of the non-compliance. The notification must be in writing to compliance@planning.nsw.gov.au and identify the development (including the development application number and name), set out the condition of the 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. A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.

The investigation into the incident/non-compliance will consider any activities, plant operations or other factors that may have caused or contributed. The investigation will consider any activities or other factors that may have generated the non-compliance.

The report will:

- describe the date, time and nature of the exceedance / incident;
- identify the cause (or likely cause) of the exceedance / incident;
- describe what action has been taken to date; and
- describe the proposed actions to address the exceedance / incident

DC will implement the recommendations of the investigation in order to minimise the potential for any similar future incident or non-compliance. Additional details of the incident reporting process are provided in the DC Environmental Management Strategy.

7 Stakeholder Management, Response and Training

7.1 Complaint Protocol

DC has a 24-hour telephone hotline (1800 115 277) through which members of the public can lodge complaints, concerns, or to raise issues associated with the operation. This service aims to promptly and effectively address community concerns and environmental matters.

All complaints are recorded and responded to and if, for some reason, no action is taken then the reason why is recorded. The information recorded in the complaint register includes:

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- date and time the complaint was lodged;
- personal details provided by the complainant;
- nature of the complaint;
- action taken or, if no action was taken, the reason why; and
- follow up contact with the complainant.

7.2 Independent Review

As detailed in Condition 2, Schedule 5 of SSD-5465, an Independent Review can be requested by a landowner who “*considers the development to be exceeding the relevant criteria in Schedule 3*”.

If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary’s decision the Applicant shall:

- (a) *commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:*
 - *consult with the landowner to determine his/her concerns;*
 - *conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 3; and*
 - *if the development is not complying with these criteria then identify the measures that could be implemented to ensure compliance with the relevant criteria; and*
- (b) *give the Secretary and landowner a copy of the independent review.*

7.3 Dispute Resolution

If any disputes are not adequately addressed by the complaints handling process then they will be handled by the Environment Compliance Coordinator. If the response of CVC is not considered to satisfactorily address the concern of the complainant, a meeting may be convened with the complainant, Mine Manager together with the Environment Compliance Coordinator to determine any further options to reduce potential impacts.

Any actions agreed from the meeting will be implemented by CVC. After implementation of the proposed actions the complainant will be contacted and advice sought as to the satisfaction or otherwise with the measures taken.

If no agreed outcome is determined or the complainant is still not satisfied by the action taken, then an Independent Review may be requested by the complainant. If determined to be warranted by the Secretary, an independent review will be undertaken in accordance with the process identified in Schedule 5 of SSD-5465.

7.4 Training, Awareness and Competence

Training is an essential component of the implementation phase of this PSMP. Any person or position that has a role or responsibility under this document will be provided with a copy of the document and be advised verbally regarding their requirements by the Environmental Compliance Coordinator.

As the document owner, the Environment Compliance Coordinator or delegate is the contact point for any person that does not understand this document or their specific requirements and will provide guidance and training to any person that requires additional training regarding this management plan.

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8 Audit and Review

8.1 Review and Improvement

This document shall be reviewed, and if necessary revised, within 3 months of the following:

- the submission of an Annual Review;
- the submission of an incident report;
- the submission of an independent environmental audit; and
- following any modification to the development consent.

As outlined in **Section 6.2**, the Annual Review will include a review of the PSMP. Improvements identified during reviews or audits will be incorporated into the PSMP.

8.2 Auditing

Where required, audits shall be carried out by personnel who have the necessary qualifications and experience to make an objective assessment of the issues. The extent of the audit, although pre-determined, may be extended if a potentially serious deviation from this document is detected.

DC has an external independent Environmental Audit every three years. Due to the timing and relatively small geometry of the miniwall panels, a review of the finalised document will not be required as mining will have been completed within a year from authoring.

9 Records and Document Control

9.1 Records

Generally, the Environment and Community Coordinator will maintain all Environmental Management System records which are not of a confidential nature. Records that will be maintained include:

- monitoring data;
- environmental inspections and auditing results;
- environmental incident reports;
- the complaints register; and
- licences and permits.

All records will be stored so that they are legible, readily retrievable and protected against damage, deterioration and loss. Records will be maintained for a minimum of 4 years or as otherwise required under any legislation, licence, lease, permit or approval.

9.2 Document Control

This document and all others associated with the Environmental Management System shall be maintained in a document control system. Any proposed change to this document will be via the Approvals Coordinator or Environmental Compliance Coordinator. Details on document revisions are provided in **Table 3**.

Table 3: Document Revision Details

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Version	Date	Details of Revision	Company	Reviewed by/ Authorised by
0	19/12/2020 18/01/2021 19/03/2021	Draft Prepared using the 2020 S4 PSMP as a base document including proposed S5 and NMA pillar extraction workings. Review following SSD5465 Modification 3 approval. Update from DPIE consultation	Delta Coal	Chris Armit

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10 Roles and Responsibilities

All employees and contractors at CVC are responsible for environmental management. However, various positions in the organisation have roles, responsibilities and authorities for managing environmental aspects, action plans, programs and controls.

Roles and responsibilities specific to completing the requirements of this PSMP are identified in **Table 4**.

Table 4: Public Safety Management Roles and Responsibilities

Role	Responsibilities
Operations Manager	<ul style="list-style-type: none"> Ensure that adequate financial and personnel resources are made available for the implementation of the Public Safety Management Plan
Technical Services Manager	<ul style="list-style-type: none"> Oversee the implementation of the BFMP for applicable areas
Mine Surveyor	<ul style="list-style-type: none"> Co-ordinate subsidence monitoring, through the use of bathymetric surveys & conventional surveys along foreshore Review subsidence monitoring results against Subsidence Management TARP triggers Inform the Environmental Compliance Coordinator and Mine Manager of results and outcomes of monitoring reviews
Approvals Coordinator	<ul style="list-style-type: none"> Write the PSMP in consultation with relevant government agencies and stakeholders Undertake reviews of this document Undertake or coordinate the required audits of this document Develop management actions in consultation with regulatory agencies as/if required from the monitoring results
Environmental Compliance Coordinator	<ul style="list-style-type: none"> Develop management actions in consultation with regulatory agencies as/if required from the monitoring results Respond to any potential or actual non-compliance and report these as required to regulatory bodies and other stakeholders Notify the relevant government agencies and other affected parties should exceedances in impact thresholds potentially be reached Regularly audit the public safety equipment made available at the mine site Ensure complaint handling and response is undertaken, including determination of sources and potential remedial action to avoid recurrence Review, and if necessary, revise this document: <ul style="list-style-type: none"> In the event of any exceedance in impact thresholds; Following any modification to the development consent.

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11 References

Documents referenced in the preparation of the PSMP are detailed in **Table 5**.

Table 5: References and Associated Documents

Reference type	Document
Australian Standards	AS/NZS ISO 14001:2004, Environmental management systems – Requirements with guidance for use AS/NZS ISO 14004:2004, Environmental management systems – General guidelines on principles, systems and support techniques
Legislation and Regulations	Development Consent SSD-5465 (as modified) Environment Protection Licence (EPL) 1770
Delta Coal documents	EMS Environmental Management Strategy
LakeCoal documents	MSEC 2019, S2 and S3 Panel, prepared for Lake Coal- Chain Valley Colliery
External documents	Strata Ground Control Consulting 2019, S4 Panel: Geotechnical Environment, Subsidence Estimates and Impacts, prepared for Delta Coal Chain Valley Colliery ANZECC 2000, Australian and New Zealand Guidelines for Fresh and Marine Water Quality.

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12 Definitions

CVC Chain Valley Colliery

DA Development approval

DC Delta Coal

DP&E Department of Planning & Environment (former)

DPIE Department of Planning, Industry and Environment

DPI Fisheries Department of Primary Industries – Fisheries NSW

EMS Environment Management System

EPA NSW Environment Protection Authority

EPL Environmental Protection License

EP&A Act *Environmental Planning and Assessment Act 1979*

LMCC Lake Macquarie City Council

MC Mannering Colliery

POEO Act *Protection of the Environment Operations Act 1997*

OEH Office of Environment and Heritage

ROM Run-of-mine

Planning Secretary Secretary of the Department of Planning, Industry and Environment, or nominee

SSD-5465 Development Consent SSD-5465 (for the Chain Valley Colliery Mining Extension 1 Project)

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Appendix 1: Consultation

TfNSW Consultation

From: Lynda Hourigan **On Behalf Of** Navigation Advice North

Sent: Monday, 1 February 2021 1:18 PM

To: Kumar Kuruppu <Kumar.Kuruppu2@transport.nsw.gov.au>; Navigation Advice North <navigationadvicenorth@rms.nsw.gov.au>

Cc: Mike Baldwin <Mike.Baldwin@transport.nsw.gov.au>; Brett Boehm <Brett.Boehm@transport.nsw.gov.au>; Chris Austen <Chris.Austen@transport.nsw.gov.au>; Peter Browne <Peter.Browne@transport.nsw.gov.au>; Nicole Waller <Nicole.Waller@transport.nsw.gov.au>; Lun Yeung <lun.yeung@transport.nsw.gov.au>; Sonia McKay <Sonia.McKay@transport.nsw.gov.au>; Nathan Koch <Nathan.Koch@transport.nsw.gov.au>

Subject: RE: Major Projects – Proponent Request for Advice - Chain Valley Extension Project- SSD-5465 - CVC Built Features Management Plan (SSD-5465-PA-38) (Central Coast,Lake Macquarie City)

Hello Kumar

Thank you for your email requesting TfNSW Maritime’s comment on the CVC Built Features Management Plan below.

Transport for NSW (TfNSW) Maritime is responsible for the ongoing maintenance of safe navigation throughout NSW under the Marine Safety Act 1998. As such, proposals like this are reviewed to ensure that any disruption to navigation for vessels is minimised as much as is practical.

The project documentation provided has been assessed as having minimal impact on the safety of navigation to vessels operating in this area and Maritime has no objections to the proposed works.

TfNSW Maritime advises the following matters need to be considered and addressed when preparing the REF and / or the Scope of Works for the Chain Valley Extension Project:

1. Any works impacting on navigation during the construction phase must seek TfNSW Maritime support 21 days prior to works commencing. A full scope of works including dates is to be provided to navigationadvicenorth@rms.nsw.gov.au.
2. All associated work boats to comply with the relevant NSW Marine Legislation for survey, registration and safety equipment, and comply with the Marine Safety (Domestic Commercial Vessels) National Law Act 2012.
3. Vessels must exhibit lights and shapes in accordance with International Regulations for Preventing Collisions at Sea.
4. *“That If the subsidence was >500mm or the pylon ends up with more than 5° of lean on it, then there would need to be action taken.”* and NSW Maritime is to be notified immediately.
5. For pelican rock NLM045, please confirm if this is an additional 155mm vertical subsidence to the 130mm already predicted for the mining of Miniwall S2-S4. NSW Maritime is seeking confirmation that the vertical subsidence is still within the limits allowing the project to go ahead without any action needed to be taken on NLM045.
6. NSW Maritime acknowledges that the 4mm/m tilt on NLM045 is less than 0.25 degrees so this is not an issue and using this same criteria for NLM062 the 20mm movement and 0 tilt is also acceptable.
7. NSW Maritime notes that NLM063 and NLM064 are both buoys so the tide has more impact on the Aid to Navigation height than the mining with the effect on the chain length and scope being almost undetectable. Therefore the subsidence values for these are also acceptable.

Subsequently, NSW Maritime advises that “There is no action required for these 4 navigation aids for the predicted subsidence and tilts and no further action required unless the subsidence and tilt exceed the values that have previously stipulated”

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For more information, please direct all correspondence to navigationadvicenorth@rms.nsw.gov.au.

Kind regards

Lynda Hourigan

Project Officer North Maritime Greater Sydney Transport for NSW M 0409 483 676 PO Box 426 BALLINA NSW 2478

Resource Regulator Consultation

CA Chris Armit Resources Regulator; gang.li@planning.nsw.gov.au; alexander.tutt-branco@planning.nsw.gov.au; dan.adams@planning.nsw.gov.au; Melissa Anderson; Chris Nicholas; Tim Chisholm 01/01/2021
RE: AREQ0014285 | Chain Valley Colliery | Action required | 14 Dec 2020 12:20:01

Hi Ray,

Thanks for your email re: BFMP. To answer your question, yes, we are currently seeking approval under a modification application (CVC MOD 4) to mine under the greater Morisset Peninsula.

However, Chain Valley Colliery already has approval under SSD 5465 to mine under a smaller section of Morisset Peninsula (see below Appendix 3 from SSD5465 – I’ve added a red box to outline the location of consent approval area.

Mining under Fishery Point has been referenced in the last MOP approval letter and is included in the current approved MOP plans (cc’ed Dan and Melissa, if you wish to consult with them on MOP/Consent approval from an internal regulator perspective).

The BFMP scope has been outlined in the draft for comment doc (see below excerpt). I’m compelled by the consent as part of the extraction plan application process to have a BFMP for secondary extraction (i.e. MWSS and NMA Pillar extraction) but thought it good practice to include the first workings area under the Peninsula to get some buy in from the Resource Regulator given existing built features. If you don’t deem this approach necessary, happy to remove mention of it from this BFMP. Let me know if you have any comments on the draft BFMP and can make appropriate amendments if necessary.

Cheers,
Chris

**APPENDIX 3
DEVELOPMENT LAYOUT**



1 Introduction

1.1 Purpose and Scope

The purpose of this Built Features Management Plan (BFMP) is to outline the process for management of built features within the subsidence affected zone associated with miniswall S5, pillar extraction area in the Northern Mining Area and first workings beneath Morisset Peninsula. The primary objectives of the document are to:

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CA Chris Armit Resources Regulator; gang.li@planning.nsw.gov.au; alexander.tutt-branco@planning.nsw.gov.au; dan.adams@planning.nsw.gov.au; Melissa Anderson; Chris Nicholas; Tim Chisholm 01/01/2021
 RE: AREQ0014285 | Chain Valley Colliery | Action required | 14 Dec 2020 12:20:01

From: Resources Regulator <nswresourcesregulator@service-now.com>
Sent: Monday, 21 December 2020 1:47 PM
To: Chris Armit <CArmit@deltacoal.com.au>
Cc: gang.li@planning.nsw.gov.au; alexander.tutt-branco@planning.nsw.gov.au
Subject: AREQ0014285 | Chain Valley Colliery | Action required | 14 Dec 2020 12:20:01

Dear Chris,

Further to your submission of a Built Features Management Plan (BFMP), dated 17 December 2020, to the Resources Regulator (RR) I require some clarification.

I understand that the BFMP has been submitted to RR for the purposes of consultation as required under Schedule 4, Condition 7(g) of SSD-5465.

The BFMP makes reference to Minwall S5, first workings under Morrisett Peninsula and the Northern Mining Area. It is also understood that the mine operator is currently seeking planning approval for mining in the Northern Mining Area including the suburbs of Brightwaters, Mirrabooka and Sunshine.

It is not clear to me whether Northern Mining Area subject of the BFMP has current planning approval and therefore it is not possible to provide comment in relation to that area. Can you please clarify the extents to which the BFMP applies and the status all relevant planning approvals.

Regards,

Ray Ramage
 Senior Mine Safety Officer Subsidence
 Subsidence Engineering | Resources Regulator
 M 0422 551 293

RE: Chain Valley Colliery - S2 and S3 Minwall Extraction Plan submission and notification of change to mining using continuous miner mining methods in the Northern Mining Area (NMA) - Message (PMA)

Ray Ramage <nswresourcesregulator@service-now.com> Chris Armit <CArmit@deltacoal.com.au>
 RE: Chain Valley Colliery - S2 and S3 Minwall Extraction Plan submission and notification of change to mining using continuous miner mining methods in the Northern Mining Area (NMA)
 You replied to this message on 27/03/2021 11:59 AM.

Chris,

We will only provide formal comment on the Extraction Plan on request from DPE Resource Assessments, i.e. Howard and Colin's team. Please consult with them as to whether they require our formal input.

Additionally, our role is to regulate mining activities under WHS laws as they relate to subsidence. In particular, I would like to draw your attention to the requirements for inclusion of information relating to how risks to health and safety due to subsidence will be managed in the High Risk Activity Notification for secondary extraction as well as Clause 67 of the Work Health Safety Mines & Petroleum Sites Regulation which describes specific control measures relating to subsidence.

Safety related matters covered in the Extraction Plan should be consistent with the relevant provisions WHS laws in general, in particular the provisions for High Risk Activity Notifications and Clause 67 should be considered.

Should you have any questions on the above we can discuss these during my site visit on 8 April.

Regards,

Ray Ramage
 AP/Principal Inspector - Subsidence
 Resources Regulator
 6 Harley Drive | THORNTON NSW 2202
 PO Box 343 HILMA NSW 2213
 T 02 4953 6485 M 042 2551 293
 E r.ramage@resourcesregulator.nsw.gov.au W www.resourcesregulator.nsw.gov.au

Please update your address books to reflect my new mail address, phone number and @planning address.

Subscribe to our [newsletter](#).

Committed to safety and environmental rehabilitation. Click through to view our compliance policies.

I wish to acknowledge the Traditional Custodians of the land and pay respect to all Elders past and present.

From: Chris Armit <CArmit@deltacoal.com.au>
Sent: Tuesday, 23 March 2021 4:54 PM
To: Ray Ramage <ray.ramage@planning.nsw.gov.au>; Phil Stewart <phil.stewart@planning.nsw.gov.au>
Cc: Tim Chisholm <tim.chisholm@planning.nsw.gov.au>; Ben Smith <ben.smith@planning.nsw.gov.au>
Subject: FW: Chain Valley Colliery - S2 and S3 Minwall Extraction Plan submission and notification of change to mining using continuous miner mining methods in the Northern Mining Area (NMA)

Hi Phil and Ray,
 Please find attached the EP and Subsidence Monitoring Program for S2/S3.
 Regards,
 Chris

From: Chris Armit
Sent: Wednesday, 6 March 2020 6:56 PM
To: Howard.B@planning.nsw.gov.au; Colin Phillip
Cc: Gary Cambouris; Ben Smith; Dave McLean; Flood, Justin; Anthony Barnes
Subject: Chain Valley Colliery - S2 and S3 Minwall Extraction Plan submission and notification of change to mining using continuous miner mining methods in the Northern Mining Area (NMA)

Dear Howard and Colin,

Please find attached a letter of submission for Chain Valley Colliery - S2 and S3 Minwall Extraction Plan and notification of change to mining using continuous miner mining methods in the Northern Mining Area (NMA).

I have attached the main S2/S3 Extraction Plan document and will upload the appendices on a file transfer site for you to access.

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10/03/2021 Form - Regulator Portal

SHRA

SHRA0001457

HRA

Number
SHRA0001457

Location
 Chain Valley Colliery

Operator
 Great Southern Energy Pty Ltd (Mine Operator - Chain Valley Colliery)

Short description
secondary extraction by longwall mining, shortwall mining or miniwall mining | Chain Valley Colliery

Description
Proposed location:
Minwall Panel labelled "Minwall 55" as referenced in the attached document "High Risk Activity Management Report, Minwall 55" and attached engineering plans
Hazards Identified:
Addressed in the attached document - RA 00388 High Risk Activity Risk Assessment for Minwall 55 Extraction. Nil

Outcome description
Reviewed by Senior Mine Safety officer and deemed adequate.
Mine Subsidence have completed assessment under AREQ0014560.

Outcome
Adequate

Outcome by
 Brian Cullen

Outcome date
08 Feb 2021

Admin
* Object date

https://www.resourcesregulator.service-now.com/regulator?sys_id=95920c20db19241067b0c1f59619e1&view=sp&id=form&table=rs_rsew5_acces_hra 1/2

10/03/2021 Form - Regulator Portal

22 Dec 2020 16:30:53

* Received date
22 Dec 2020 16:30:53

Notifier
 Tim Chisholm

Notification Details
Proposed commencement date
23 Mar 2021

Request reduced waiting period

Nature

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DPIE Consultation



Chris Armit
Approvals Coordinator
Chain Valley Colliery
Off Construction Rd (Off Ruttleys Rd)
MANNERING PARK, NSW, 2259
05/03/2021

Dear Mr Armit

**Chain Valley Colliery
Extraction Plan – Miniwall S5 and Northern Pillar Area**

I refer to the Extraction Plan dated January 2021 for Miniwall S5 and the Northern Pillar Area (NPA) at the Chain Valley Colliery, submitted in accordance with condition 7 of Schedule 4 of the Chain Valley Extension Project development consent (SSD 5465).

The Department has reviewed the Extraction Plan and identified several clarifications and minor matters that must be addressed by way of improvements to various parts of the Extraction Plan and its sub-plans (see Attachment A). The Department is satisfied that these matters can be addressed in a timely manner and would not materially change the ability of Delta Coal to effectively manage subsidence impacts.

In summary, the revised Extraction Plan should:

- include the detailed plans of existing and proposed first and second workings that clearly indicate the High Water Mark Subsidence Barrier (Plan 2) and show that all areas of proposed extraction are outside of the Seagrass Protection Barrier;
- where necessary refer to the proposed extraction of Miniwall S5 and the NPA, not previously extracted miniwalls;
- include detailed performance indicators and contingencies for Threatened Species or Endangered Populations, as required by Table 6 of the conditions of consent;
- include timeframes for the implementation of contingency measures set out in the Subsidence Management TARP;
- include evidence of further consultation, including specific details of the comments received from agencies and the actions taken in response to those comments; and
- align with the current consolidated conditions of consents, including alignment with the timing of document reviews and revisions.

The attached comments on the Extraction Plan and its sub-plans must be addressed to the satisfaction of the Secretary prior to the Department granting its final approval of the Extraction Plan. As noted above, the Department believes that they can be readily addressed in a timely manner. It would be appreciated if Delta Coal provides an electronic copy of the revised document, with tracked changes, allowing for a more expedient review.

If you require any more information, please contact James McDonough on 9585 6313.

Yours sincerely

DPIE Request for Information Letter - Response Summary Table

DPIE Review	Response
where necessary refer to the proposed extraction of Miniwall S5 and the NPA, not previously extracted miniwalls	Document updated for legacy miniwall naming (see tracked changes)

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include timeframes for the implementation of contingency measures set out in the Subsidence Management TARP	Incident and non-compliance reporting timeframes included. Timeframes of contingency measures implementation added to the Subsidence Management TARP
include evidence of further consultation, including specific details of the comments received from agencies and the actions taken in response to those comments	See updates in section 2.5 Table 1 and Appendix 1 which includes specific stakeholder comment details and communications.
align with the current consolidated conditions of consents, including alignment with the timing of document reviews and revisions	Consent references updated to changes in SSD5465 Modification 3 numbering and conditions.
It would be appreciated if Delta Coal provides an electronic copy of the revised document, with tracked changes, allowing for a more expedient review	A Microsoft Word document has been provided with tracked changes included at the start of the document change process. Plan 2 amendment and Subsidence Management TARP were not able to be tracked changed as they were drafted in software without the tracked changes option.

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Appendix 2: Development Consent Summary

Chain Valley Colliery Development Consent SSD-5465 Summary

This PSMP has been prepared in accordance to Schedule 3, Condition 21 of SSD-5465, which states the requirements of the PSMP and what it must address. **Table A2** outlines the requirements of the PSMP and where this document addresses these requirements.

Table A2: Requirements from Chain Valley Colliery Development consent SSD-5465

Condition No.	Requirement	Relevant section of this document
	Schedule 2 Administrative Conditions	
18	<p>Updating and Staging Strategies, Plans or Programs</p> <p><i>The Applicant must regularly review the strategies, plans and programs required under this consent and ensure that these documents are updated to incorporate measures to improve the environmental performance of the development and reflect current best practice in the mining industry. To facilitate these updates, the Applicant may at any time submit revised strategies, plans or programs for the approval of the Secretary.</i></p> <p><i>With the agreement of the Secretary, the Applicant may also submit any strategy, plan or program required by this consent on a staged basis. With the agreement of the Secretary, the Applicant may prepare a revision or stage of any strategy, plan or program required under this consent without undertaking consultation with all parties nominated under the applicable condition in this consent.</i></p> <p>Notes:</p> <ul style="list-style-type: none"> • <i>While any strategy, plan or program may be submitted on a staged basis, the Applicant must ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times.</i> • <i>If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.</i> 	Section 8
22.	<p>Evidence of Consultation</p> <p><i>Where conditions of this consent require consultation with an identified party, the Applicant must:</i></p> <p><i>(a) consult with the relevant party prior to submitting the subject document;</i></p> <p><i>(b) provide details of the consultation undertaken including:</i></p> <p><i>i. the outcome of that consultation, matters resolved and unresolved; and</i></p> <p><i>ii. details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.</i></p>	Section 1.3 and Appendix 1
28	<p>Compliance</p> <p><i>The Applicant must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.</i></p>	Appendix 1

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Schedule 4 Specific Environmental Conditions										
4	<p>Performance Measures- Built Features</p> <p><i>The Applicant must ensure that the development does not cause any exceedance of the performance measures in Table 7 to the satisfaction of the Planning Secretary.</i></p> <p><small>Table 7: Subsidence Impact Performance Measures – Built Features</small></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Built Features</th> <th style="text-align: left;">Performance Measure</th> </tr> </thead> <tbody> <tr> <td>Trinity Point Marina Development Other built features</td> <td> <ul style="list-style-type: none"> • Always safe. • Serviceability should be maintained wherever practicable. Loss of serviceability must be fully compensated. • Damage must be fully repaired, replaced or fully compensated. </td> </tr> <tr> <th colspan="2" style="text-align: left;">Public Safety</th> </tr> <tr> <td>Public Safety.</td> <td>Negligible additional risk.</td> </tr> </tbody> </table> <p>Notes:</p> <ul style="list-style-type: none"> • The Applicant will be required to define more detailed performance indicators for each of these performance measures in Built Features Management Plans or a Public Safety Management Plan (see Condition 7 below). • Measurement and/or monitoring of compliance with performance measures and performance indicators is to be undertaken using generally accepted methods that are appropriate to the environment and circumstances in which the feature or characteristic is located. These methods are to be fully described in the relevant management plans. In the event of a dispute over the appropriateness of proposed methods, the Planning Secretary will be the final arbiter. • The requirements of this condition only apply to the impacts and consequences of mining operations undertaken following the date of this development consent. • Requirements regarding safety or serviceability do not preclude preventative actions or mitigation being taken prior to or during mining in order to achieve or maintain these outcomes. • Requirements under this condition may be met by measures undertaken in accordance with the Coal Mine Subsidence Compensation Act 2017. 	Built Features	Performance Measure	Trinity Point Marina Development Other built features	<ul style="list-style-type: none"> • Always safe. • Serviceability should be maintained wherever practicable. Loss of serviceability must be fully compensated. • Damage must be fully repaired, replaced or fully compensated. 	Public Safety		Public Safety.	Negligible additional risk.	This document
Built Features	Performance Measure									
Trinity Point Marina Development Other built features	<ul style="list-style-type: none"> • Always safe. • Serviceability should be maintained wherever practicable. Loss of serviceability must be fully compensated. • Damage must be fully repaired, replaced or fully compensated. 									
Public Safety										
Public Safety.	Negligible additional risk.									
7	<p>Extraction Plan</p> <p><i>(j) include a Public Safety Management Plan, which has been prepared in consultation with RR, to ensure public safety;</i></p> <p><i>The Applicant shall implement the approved management plan as approved from time to time by the Secretary.</i></p>	This document								
8	<p><i>The Applicant must ensure that the management plans required under conditions 7(g)-(j) above include: (a) an assessment of the potential environmental consequences of the Extraction Plan, incorporating any relevant information that has been obtained since this consent; and (b) a detailed description of the measures that would be implemented to remediate predicted impacts</i></p>	Section 4 and 6								
Schedule 6 – Environmental Management, Reporting and Auditing										
6	<p>Reporting and Auditing 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 be in writing to compliance@planning.nsw.gov.au and identify the development (including the development application number and name) and set out the location and nature of the incident.</p>	Section 6.3								
7	<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 be in writing to compliance@planning.nsw.gov.au and identify the development (including the development application number and name), 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> <p>Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.</p>	Section 6.3								

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Appendix 3: Approval Letter

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