

Chain Valley and Mannering Collieries

Combined Community Consultative
Committee Meeting Presentation
18 November 2020



AGENDA



- 1. Welcome and apologies**
- 2. Declarations of interest**
- 3. Confirmation of previous minutes**
- 4. Business arising**
- 5. Correspondence**
- 6. Operational Update**
- 7. Environmental Performance**
- 8. Reports and overview of activities**
- 9. Approvals Update**
- 10. General business**
- 11. 2021 Meeting Schedule / Next meeting**

WELCOME AND APOLOGIES



Welcomes:

- **Brendan Killeen (Subsidence Advisory NSW)**
- **Penelope Williams and Sarah Bell (Umwelt - Environmental and Social consultants)**

Apologies:

- **Nil**

Declaration of interests

Confirmation of previous minutes: 19th August 2020

ACTIONS / BUSINESS ARISING FROM PREVIOUS MINUTES



Action	Update
Delta Coal Consolidation Project, Community Information Newsletter	Issued 12/11/2020 to CCC members by MMH. Mail-out anticipated to surrounding communities within the following week.
Aerial map of monitoring and licensed discharge points	Included in environmental monitoring portion of presentation, slides 10 – 20.
Process for mine subsidence claims	Refer MMH Correspondence and BK slide 5.
CA Group photo of CCC at August meeting	General Business at end of November meeting

CORRESPONDENCE



Correspondence:

- 20/08/2020 - MMH email enquiry to Subsidence Advisory
- 25/08/2020 - Subsidence Advisory (BK) email response
- 25/08/2020 - MMH email to BK inviting attendance at November CCC meeting
- 25/08/2020 - MMH email advice to CCC on mine subsidence funds and guest speaker to November meeting
- 01/09/2020 - MMH email mine subsidence infographic to the CCC
- 21/09/2020 - CA/MMH email Delta Coal newsletter to the CCC
- 08/10/2020 - CA/MMH email draft Statement of Environmental Effects (SEE) facilitating Chain Valley Colliery Modification 4 to the CCC

MINE SUBSIDENCE CLAIMS

Mine Subsidence Claims Process



Key benefits

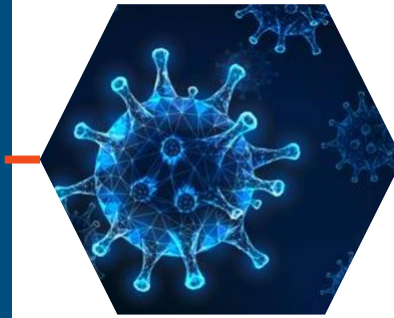
- A simplified, streamlined process for all claims for compensation for damage caused by mine subsidence
- All claims are managed by a SA NSW Case Advisor who will provide property owners with focused support and a dedicated point of contact throughout the process
- Property owners can track their claim and access all claim documents in a central location using a new ePortal
- Mine Proprietors have greater incentive to reduce subsidence damage
- Property owners have access to new dispute resolution options to help avoid costly litigation



www.subsidenceadvisory.nsw.gov.au



BUSINESS UPDATE COVID RESPONSE



COVID Plans of Action

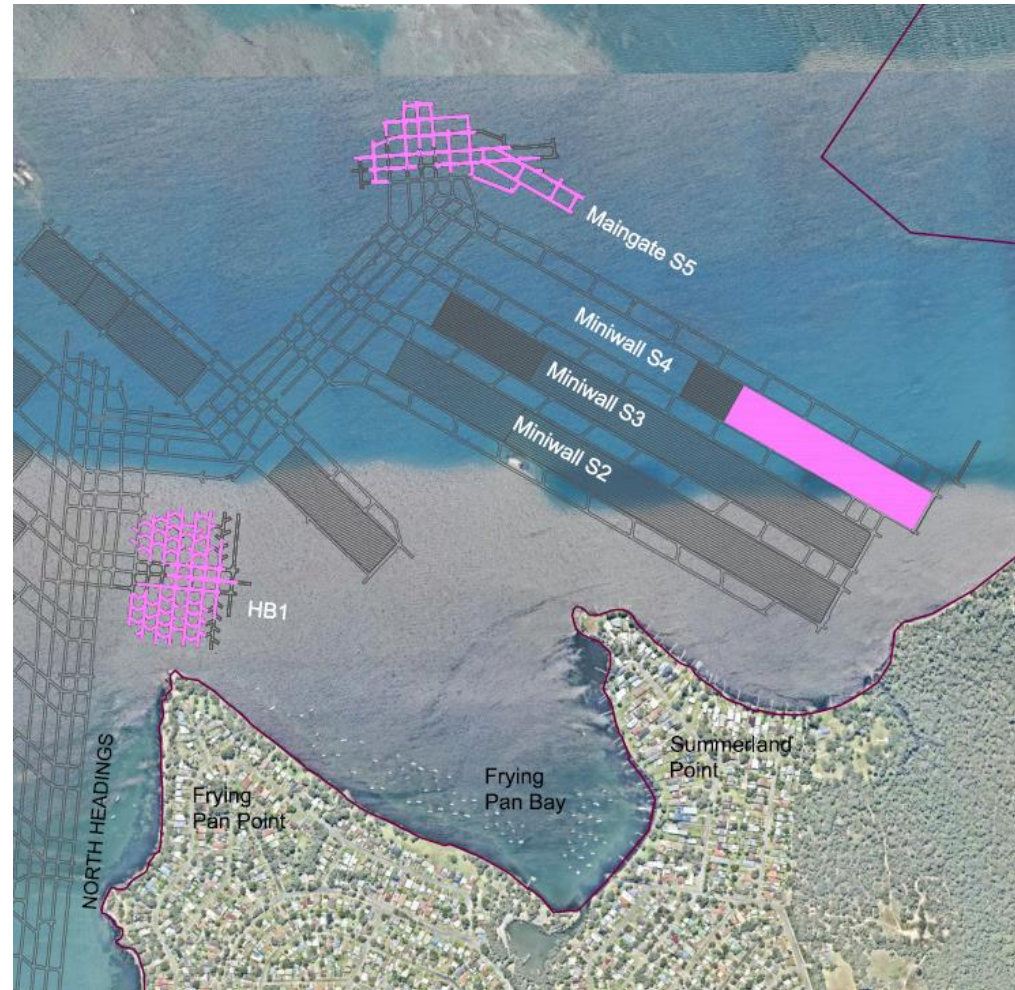
- Zero outbreaks at either operations to date
- Site sign in now includes automated and required temperature check.
- Pandemic steering committee
- Work place education and training
- Daily temperature checks, social distancing, room capacities, hygiene, u/g transport capacities
- Quarantining and travel restrictions



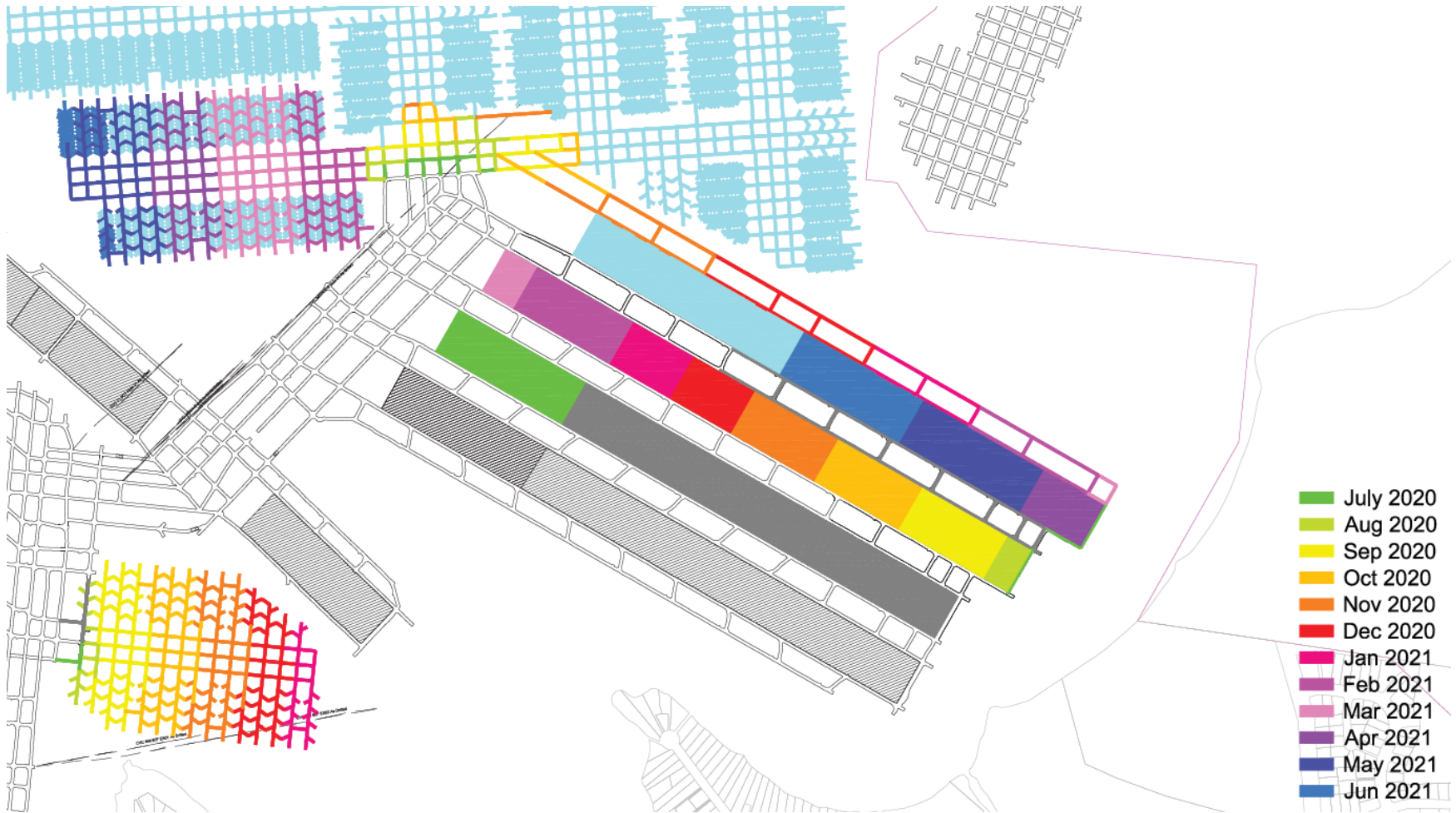
OPERATIONAL UPDATE



- Mining production areas are currently in areas under Lake Macquarie, north of Frying Pan Bay/ Summerland Point
- Miniwall S3 completed on the 28 July 2020 and moved to MWS4 and commenced production on 21 August 2020
- The first bord and pillar panel (HB1) started 17 August 2020
- FY19/20 coal production – 1.1Mt
- Forecast coal production for FY20/21 is 1.5Mt



PRODUCTION FY21



NORTHERN MINING AREA (NMA) EXTRACTION PLANS



- Mining development has commenced in MGS5 and is forecast to complete in March 2021 for miniwall production in April 2021
 - Delta Coal are in consultation with relevant stakeholders
 - RA completed and documentation commenced
 - Subsidence predictions report completed
 - Groundwater Management Plan being reviewed
 - Management Plans being finalised

SURFACE WATER MONITORING - CVC



Monthly Water Quality Results – Licenced Discharge Point (LDP) 1

2020	Limits	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Faecal Coliforms (mg/kg)	200	<17	<17	~100	~4	~20	75	<2	67	~4	<20		
TSS (mg/kg)	50	11	16	<5	10	7	7	10	8	15	13		
pH (pH Units)	6.5-8.5	7.65	7.67	7.59	7.59	7.58	7.60	7.77	7.61	7.91	7.77		

SURFACE WATER MONITORING LOCATIONS - CVC



Chain Valley Colliery – Surface Water Monitoring	Delta Coal	Scale: N/A	Date: 10/11/2020
		Drawn: LM	DRG NO: 1
		Checked: N/A	Rev NO: 1

SURFACE WATER MONITORING - MC

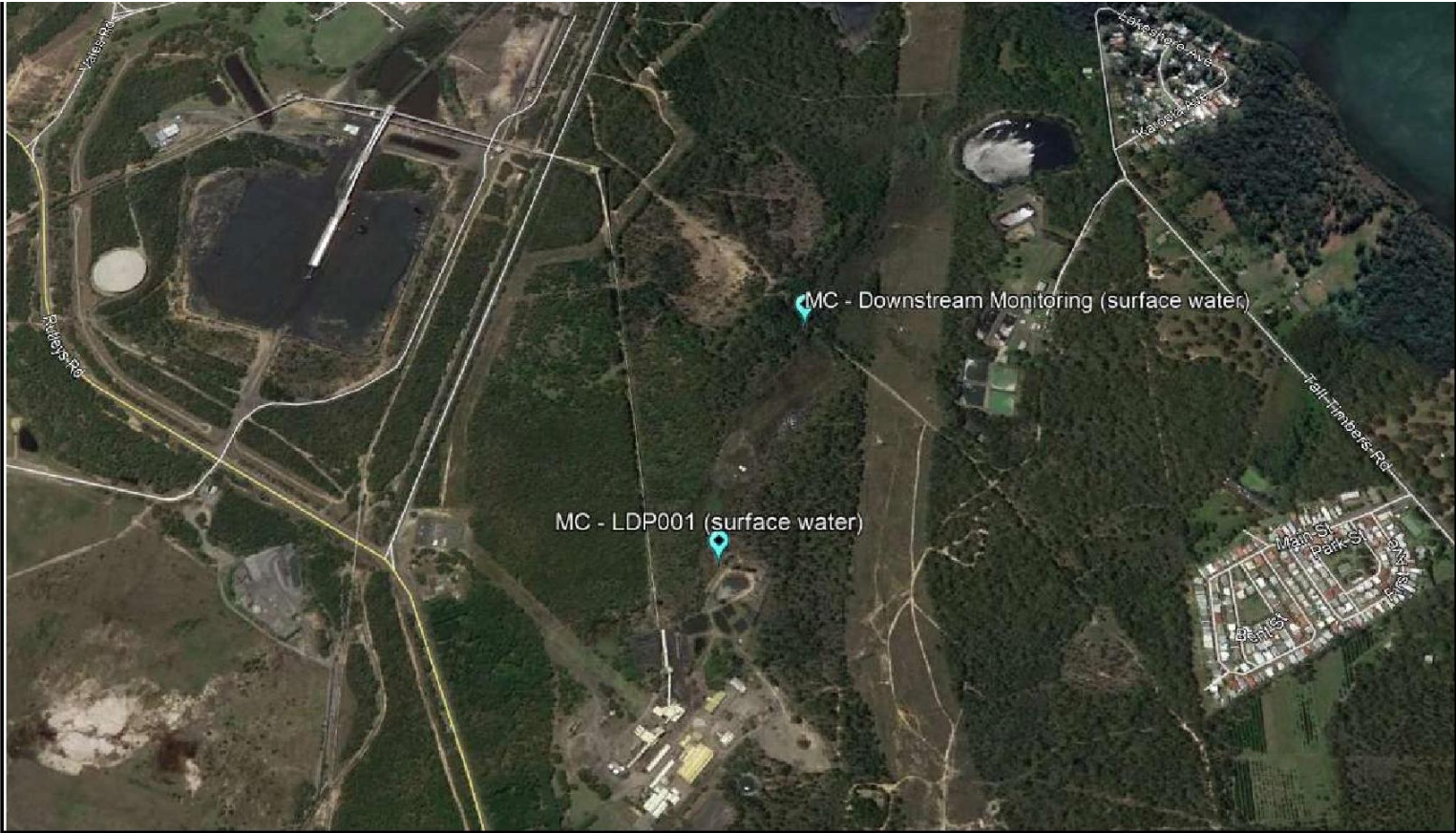


Monthly Average Water Quality Results – Licenced Discharge Point 1

2019	Limits	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Oil & Grease	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
TSS	50	3	3	4	3	4	7	11.6	2.8	4.5	5.0		
pH	6.5-8.5	7.8	7.7	7.9	7.7	8.0	8.0	7.8	7.8	7.8	7.9		

There were no exceedances of water quality criteria at the MC licenced discharge point since the last meeting.

SURFACE WATER MONITORING LOCATIONS - MC



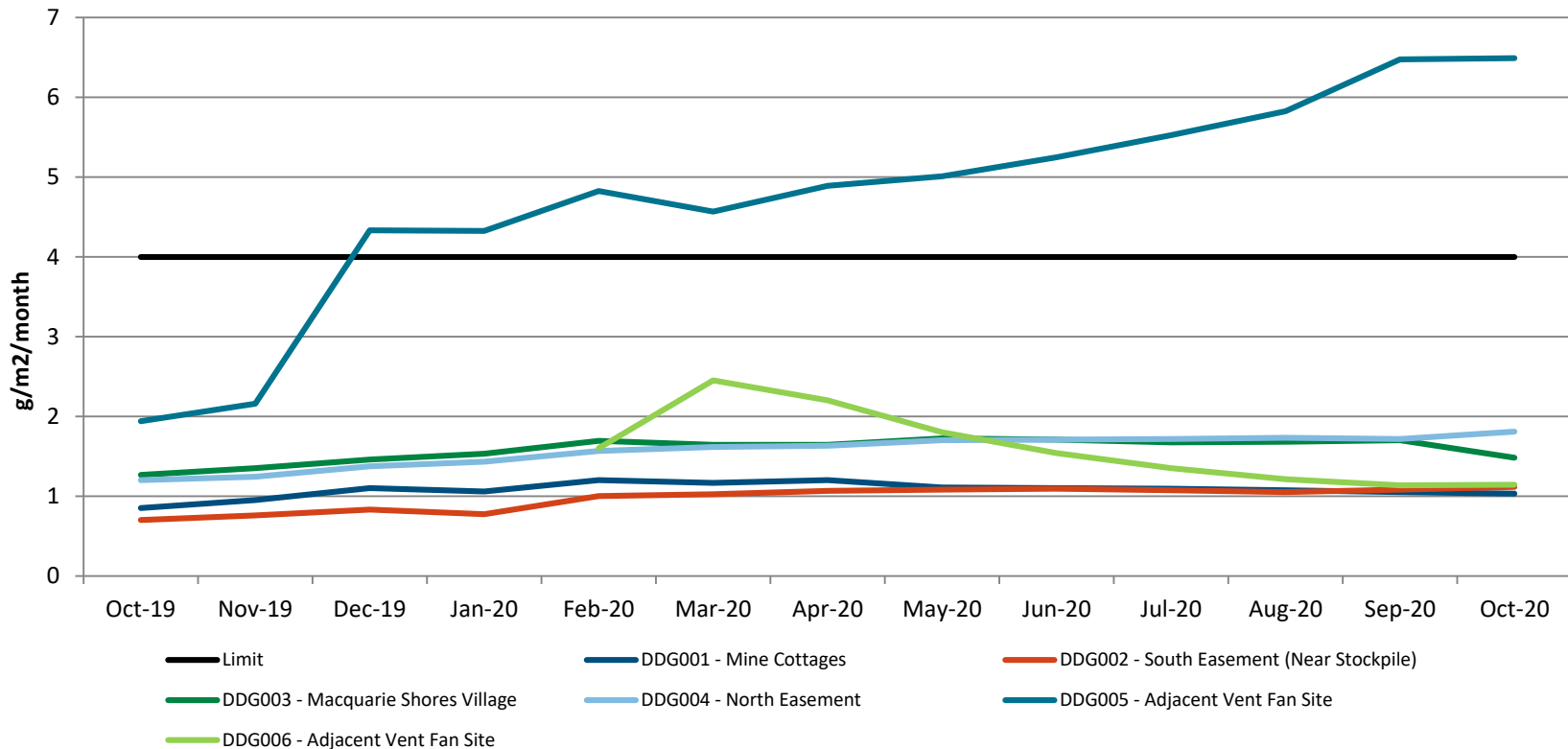
Mannering Colliery – Surface Water Monitoring	Delta Coal	Scale:	Date: 23/10/2020
		Drawn: LM	DRG NO:
		Checked:	Rev NO:
		Signed:	Size: A3



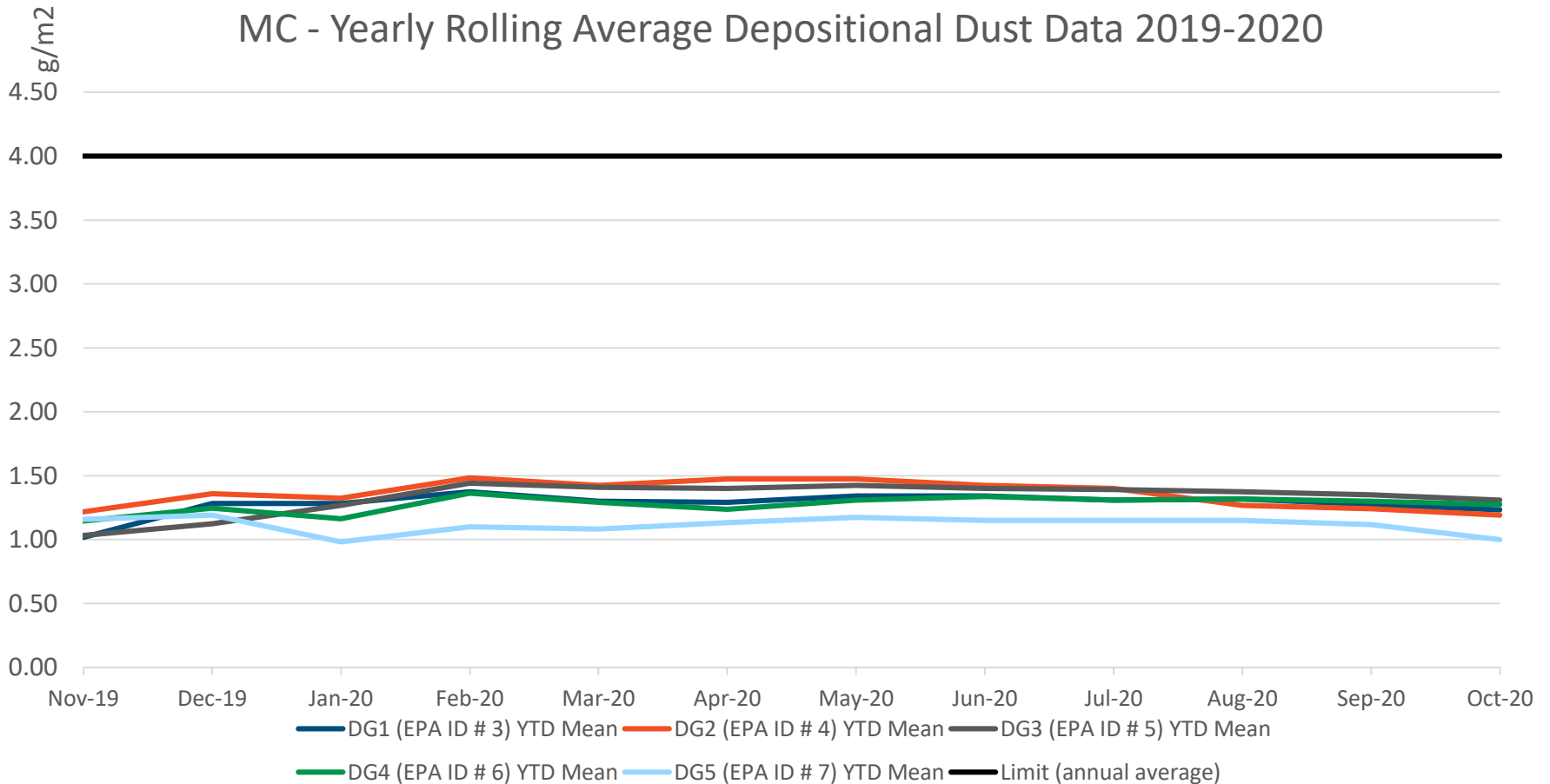
AIR QUALITY MONITORING DEPOSITIONAL DUST - CVC



Depositional Dust (12 mth rolling avg)



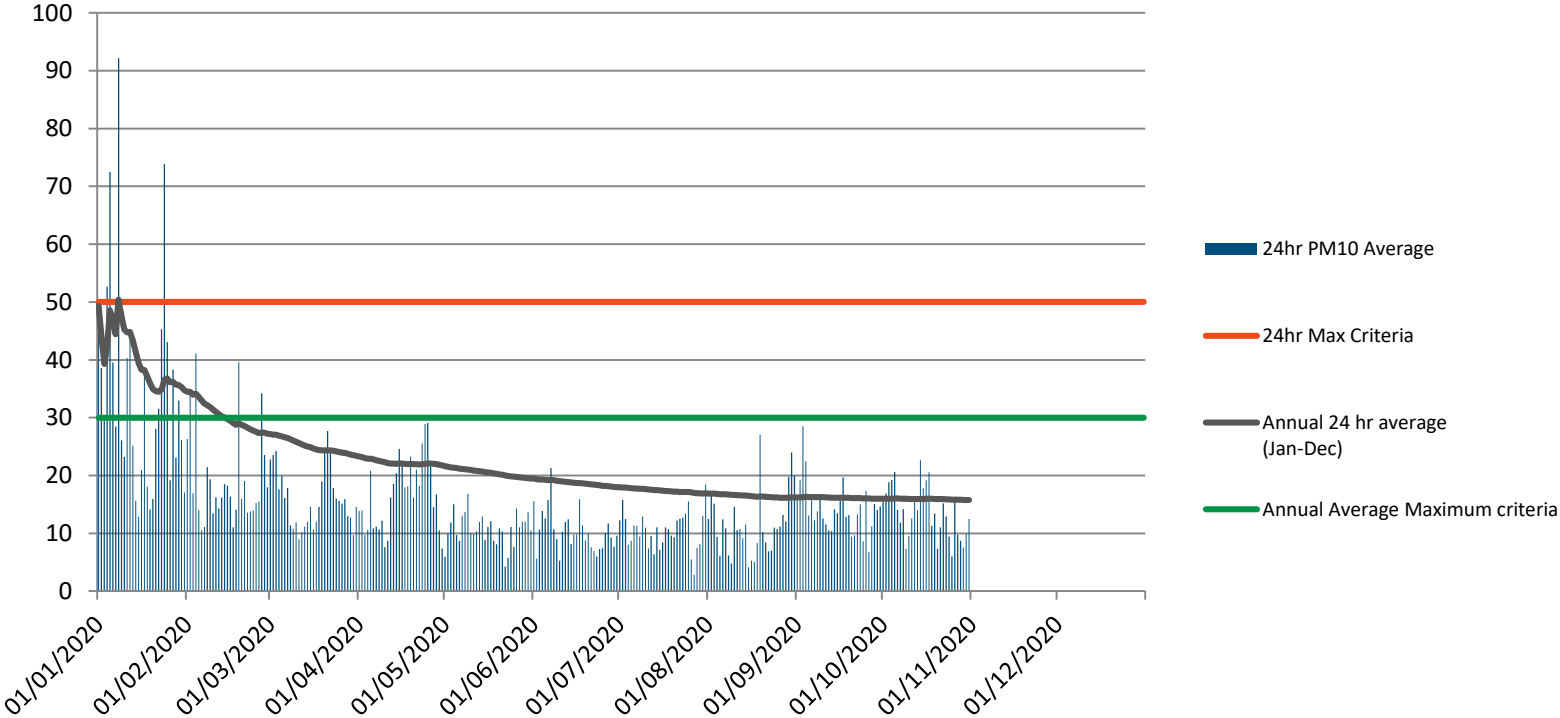
AIR QUALITY MONITORING DEPOSITIONAL DUST - MC



AIR QUALITY MONITORING – PM₁₀



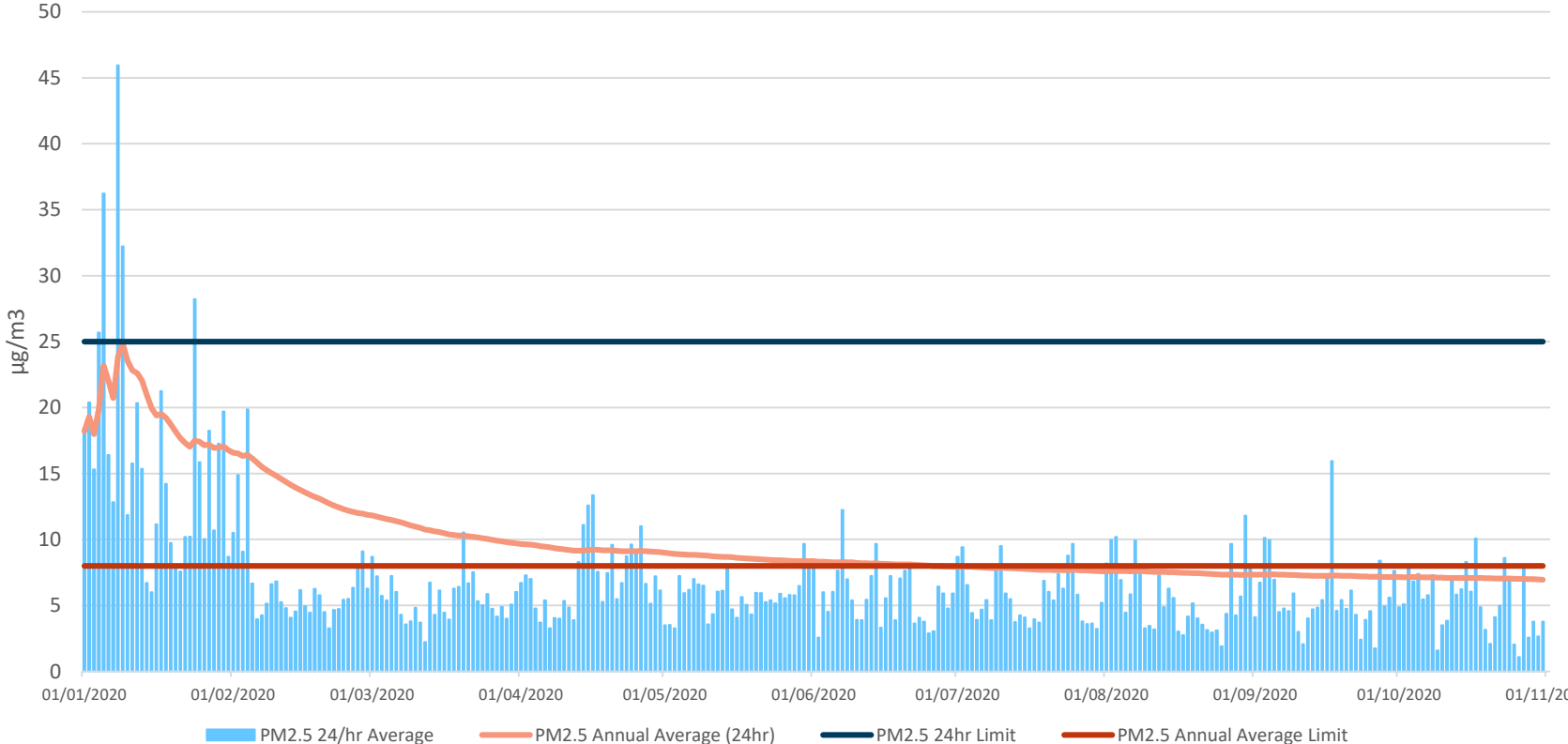
Chain Valley Colliery - 2020 TEOM PM10 (ug/m3)



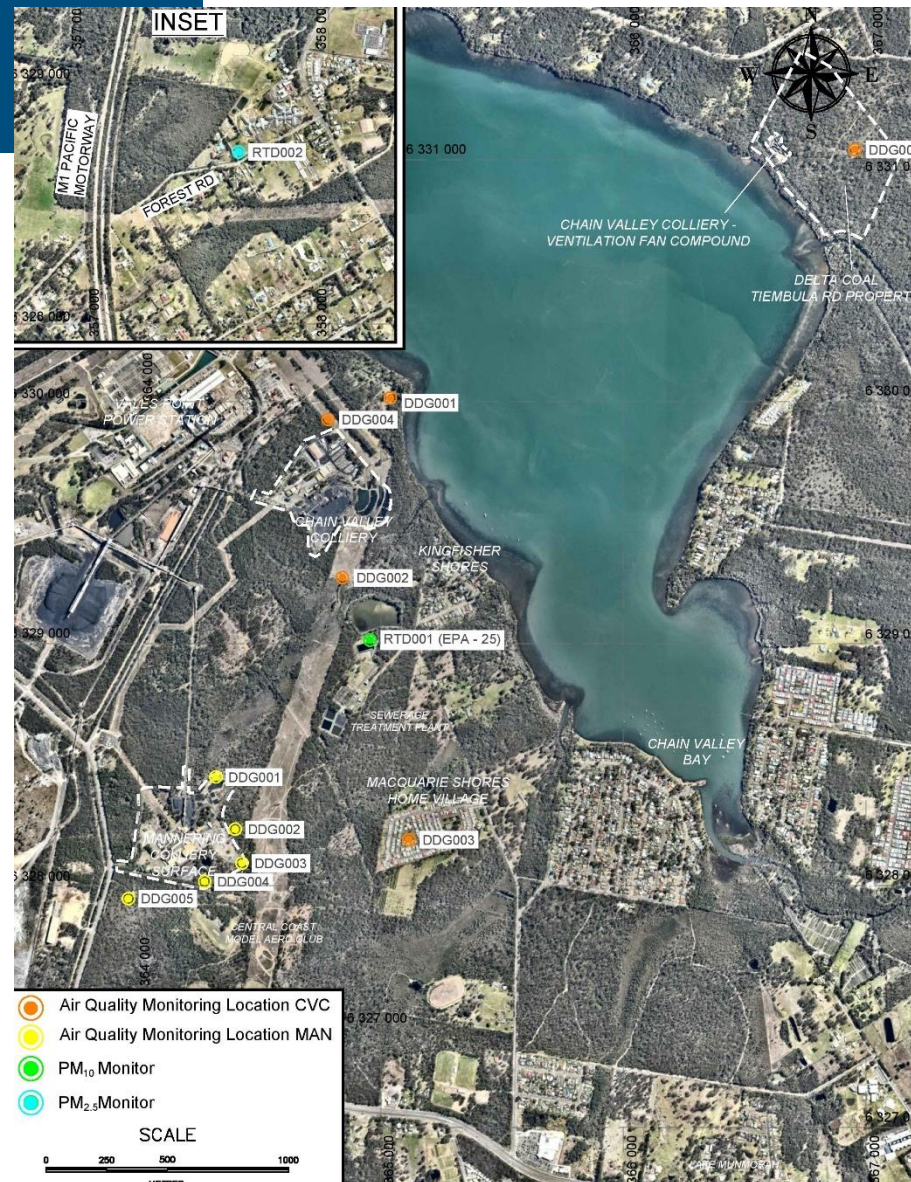
AIR QUALITY MONITORING - PM_{2.5}



PM2.5 - Wye Monitoring Location 2020



MONITORING LOCATIONS – AIR QUALITY



Chain Valley Colliery:

- Monitoring undertaken quarterly, with no exceedances in 2019/2020.

Mannering Colliery:

- Monitoring is undertaken monthly. there have been no exceedances of noise monitoring results since the last exceedance at Kingfisher Shores on the 5th May 2020.
- An investigation was undertaken on October 1st 2020 attempting to quantify noise reductions at Macquarie Shores Home Village following decommissioning of the rotary breaker and enclosure of the shed structure housing Coal Handling Plant. The investigation and subsequent modelling determined that in a 'worst case' meteorological scenario, MC noise contributions are anticipated to be 39 dB(A) $L_{a_{eq}(15\text{ min})}$, satisfying its evening and night noise limit of 40 dB(A).

MONITORING LOCATIONS – NOISE



SUMMARY ENVIRONMENTAL INCIDENTS



Date	Site	Incident Description															
07/09/20	CVC	<ul style="list-style-type: none"> Exceedance of depositional dust criteria at DDG005, which displayed evidence of contamination (un-related to mining operations). 															
21/09/20	CVC	<ul style="list-style-type: none"> Site inspection of CVC Mine Cottages Demolition (upon completion of demolition) identified two suspected Midden Sites, located adjacent Lake Macquarie foreshore. <table border="1" data-bbox="571 925 1634 1076"> <thead> <tr> <th data-bbox="571 925 716 1001">ID</th> <th data-bbox="716 925 900 1001">AHIMS Site Card</th> <th data-bbox="900 925 1074 1001">Easting</th> <th data-bbox="1074 925 1261 1001">Northing</th> <th data-bbox="1261 925 1634 1001">Aboriginal Heritage Site Type</th> </tr> </thead> <tbody> <tr> <td data-bbox="571 1001 716 1039">CV002</td> <td data-bbox="716 1001 900 1039">45-7-0412</td> <td data-bbox="900 1001 1074 1039">365049</td> <td data-bbox="1074 1001 1261 1039">6330081</td> <td data-bbox="1261 1001 1634 1039">Midden Site</td> </tr> <tr> <td data-bbox="571 1039 716 1076">CV003</td> <td data-bbox="716 1039 900 1076">45-7-0413</td> <td data-bbox="900 1039 1074 1076">365006</td> <td data-bbox="1074 1039 1261 1076">6330070</td> <td data-bbox="1261 1039 1634 1076">Midden Site</td> </tr> </tbody> </table>	ID	AHIMS Site Card	Easting	Northing	Aboriginal Heritage Site Type	CV002	45-7-0412	365049	6330081	Midden Site	CV003	45-7-0413	365006	6330070	Midden Site
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CV003	45-7-0413	365006	6330070	Midden Site													

INCIDENT UNEXPECTED FIND MIDDEN SITES



- The sites had not been discovered or registered previously. The sites were located beneath turfed areas on site;
- Stakeholders (DPIE, DPIE-BCD and all Registered Aboriginal Parties for the site) were notified of the incident and provided with an incident investigation report;
- DPIE acknowledged the incident and that Delta Coal followed requirements of the current approved CVC Heritage Management Plan; and
- Planned ongoing management is to include fencing the site off and management within the recently updated Delta Coal Heritage Management Plan following approval by the Planning Secretary (DPIE).

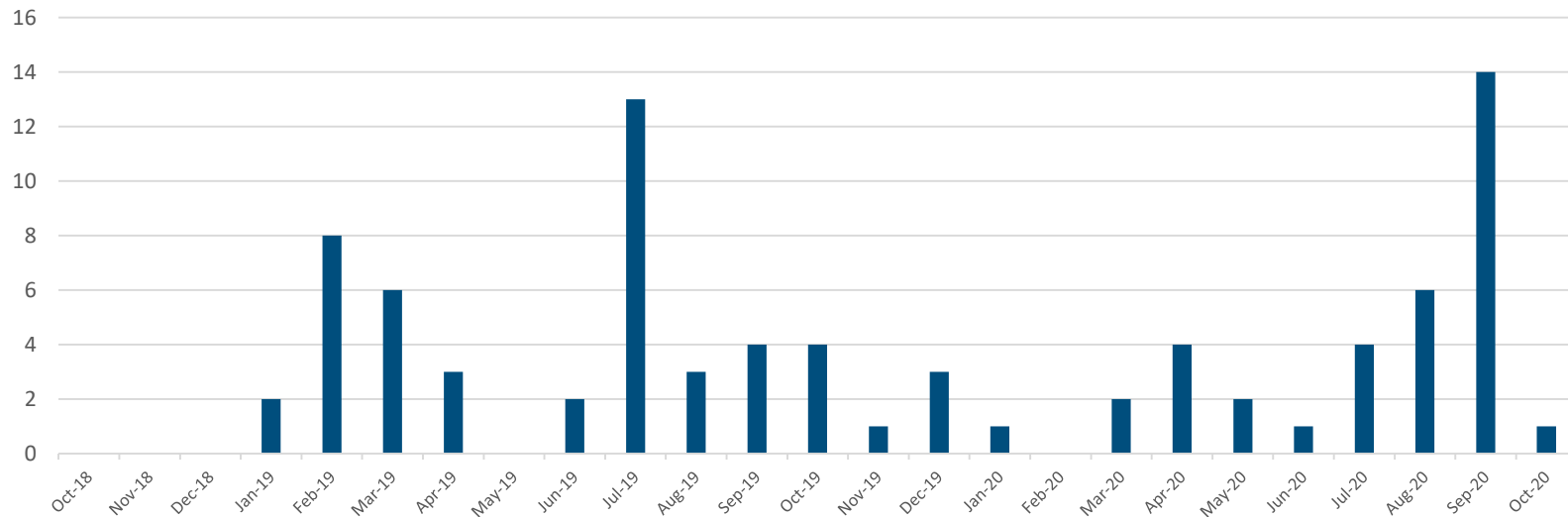


COMPLAINTS



- 47 community complaints 2019 relating to Mannering Colliery
- 0 community complaints 2019 relating to Chain Valley Colliery
- 1 community complaints YTD for Chain Valley Colliery (received in October relating to day-time noise associated with site demolition works)
- 35 community complaints YTD for Mannering Colliery (34 of 35 complaints were made by one individual)

Mannering Colliery Noise Complaints



APPROVALS - CURRENT



CVC SSD5465-Mod 3	Approved 26 June 2020 - 31/12/2027
MC PA-03_611 Mod 5	Approved 26 June 2020 - 31/12/2027 (Aligned with CVC from Mod 5)
S2 and S3 Miniwall Extraction Plan	No expiry
S4 Miniwall Extraction Plan	Approved 22 June 2020 - No expiry
CVC and MC MOP (S2/S3/S4 + Demolition)	31/12/2020
CVC and MC MOP (S3/S4/S5 + Bord & Pillar)	Approved 05 August 2020 - Expiry April 2021

- Change Management Plan reviews and updates for new modification documents
- Include management plan for Exploration and combining of management plans

APPROVALS - PROPOSED



Approval	Planned Submission	Timing
CVC Extraction S5/Pillar Extraction Plan	Dec-20	Apr-21
CVC / MC MOP Amendment 1	Dec-20	Apr-21
CVC Mod 4 – Northern Extension	Nov-20	Q3 2021
Consent Consolidation SSD/EIS	Q3 2021	Q4 2022
Continued Operations SSD/EIS	Q1 2022	Q1 2025

- CVC Mod 4 submitted to planning portal on 16 November 2020

CONSOLIDATION AND CONTINUITY PROJECTS



- **Consolidation Project** (West of Pacific Highway)
 - conceptual mine plan developed.
 - Delta Coal and Umwelt will be talking to stakeholders over next couple of months to inform that report and broader studies.
 - **Scoping Document – January 2021**
 - **EIS – April 2021**
- **Continuity Project** (Moonee Mining Area)
 - mine plan subject to further constraints analysis
 - Stakeholder engagement process will commence once conceptual mine plan is available to avoid unnecessary confusion about what may be proposed.
 - **Scoping Document – May 2021**
 - **EIS – September 2021**

DELTA COAL CONSOLIDATION PROJECT OBJECTIVES OVERVIEW



- Align Delta Coal approved extraction and production rates to requirements of VPPS and current operational planning horizon (end 2029)
- Consolidate Delta Coal approvals under single consent and streamline regulatory arrangements (e.g. single EPL, simplified management and reporting requirements)
- Align extraction options for areas under Lake Macquarie (secondary extraction under lake not currently permitted under MC Consent)
- Simplify future considerations in relation to modifications (if required)
- Retain flexibility of operating both CVC and MC pit tops concurrently
- Provide for emergency coal transport arrangements from MC (internal haul road upgrade from MC Pit Top to VPPS)



ENVIRONMENTAL ASSESSMENT



Impact	Consideration
Groundwater	Unlikely to be significant changes – areas to be mined already significantly depressurised. Modelling of project to be undertaken to confirm and provide for updated water balance.
Subsidence	Extension of Zone A to allow for CVC GNS workings (long term stable) Extension of Zone B to MC Consent Area below Lake Macquarie.
Noise	Unlikely to change from approved. Assessment of concurrent operation of both MC and CVC will be undertaken to inform setting of noise criteria for new consent
Ecology	Minor impacts associated with conveyor and emergency haul road construction
Surface Water	No significant changes – water balance to be updated
Air Quality	Unlikely to change from approved. Assessment of concurrent operation of both MC and CVC will be undertaken to inform setting of air quality criteria for new consent
Social Impact	No change from approved other than the minor extension of life of operations (3 years)

- GHD have been engaged to undertake the groundwater assessment
- Strata 2 engaged to undertake Subsidence Assessment
- RFPs for all other relevant environmental assessments have been distributed, response requested by 20 November, engagement expected by early December

Groundwater and Subsidence Assessments will be subject to peer review

Groundwater – Dr Noel Merrick – HydroAlgorithmics

Peer Review will ensure compliance with IESC Guidelines and Gov't policy
And cover all aspects of the groundwater assessment including review of:

- Model updates and set-up
- Review of model results
- Calibration of the model
- Groundwater Impact Report review

Subsidence Assessment – Professor Bruce Hebblewhite

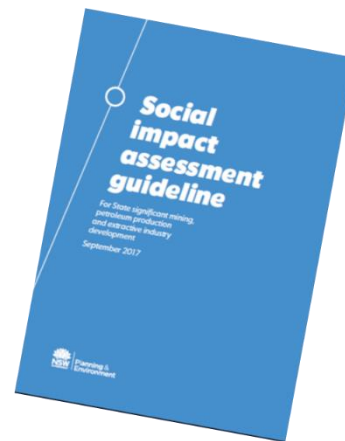
Bruce will provide peer review of the subsidence assessment and report to confirm mine design principles are appropriate to meet relevant criteria.

SOCIAL IMPACT ASSESSMENT



What is SIA?

- *'A Social Impact Assessment (SIA) is the process of analysing, assessing and responding to the potential social impacts of a proposed development, with a view to minimising negative social impacts and enhancing positive social impacts'*
- DPIE developed an SIA Guideline in 2017 that provides direction on assessing the potential impacts of a project. Respectful, inclusive and meaningful engagement with potentially affected people and other interested parties is a fundamental component of good SIA practice
- The SIA and community engagement program will be undertaken in parallel with the development of the EIS and will inform project design and planning

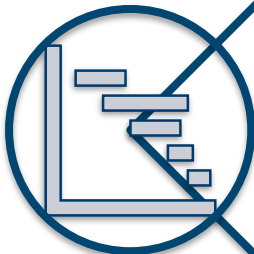


SOCIAL IMPACT ASSESSMENT



Phase 1 - Scoping

- Prepare a stakeholder engagement strategy
- Identify the extent of the Project's social locality
- Develop a social baseline of the context in which the Project is located
- Engage local community to inform initial scoping of likely social impacts



Phase 2 - Impact Prediction and Assessment

- Work with the Project team to ensure that relevant stakeholders are aware of the Project and have an opportunity to provide input
- Predict and analyse the extent and nature of social impacts
- Identify relevant/appropriate management and enhancement measures
- Prepare the SIA to DPIE requirements



Phase 3 - Impact Management

- Develop a Social Impact Management Plan that outlines how social impacts associated with the Project will be managed and monitored.
- Ongoing engagement with community and key stakeholders

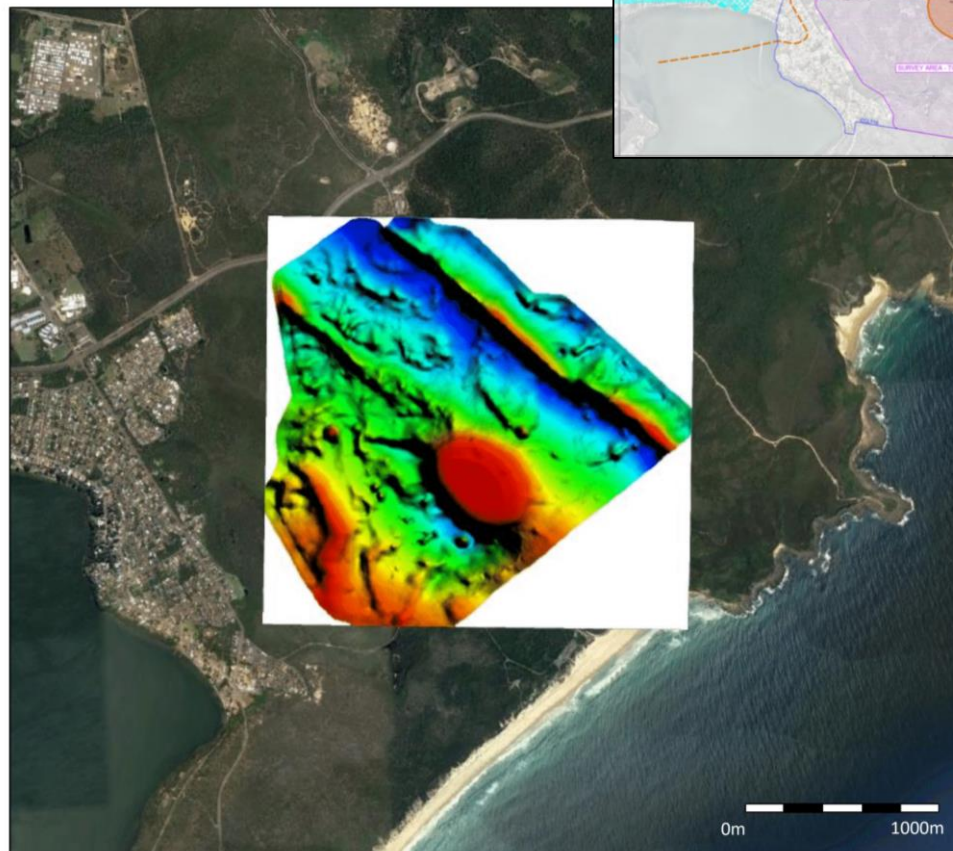
How to get involved

- Umwelt, in collaboration with Delta Coal, has commenced a community engagement program which will identify key environmental and social concerns in relation to the Consolidation Project, to inform the SIA and broader EIS. The engagement program will include:
 - Distribution of Project Information Sheets
 - Project briefings with key stakeholders, including the CCC, government agencies and community groups
 - Community Information Sessions at various locations (in surrounding suburbs)
 - Personal calls and meetings with community stakeholders
- Second round of engagement planned for Consolidation Project in Feb / March 2021
- Umwelt's Social Team will be in touch to setup some personal meetings with CCC members individually. You can also contact Sarah Bell, the SIA Project Manager on 0436 674 277 or email social-team@umwelt.com.au

EXPLORATION DRONE MAGNETIC SURVEY



- Magnetometer FAQ sheet on website
- Surveys conducted in October, initial results



REGIONAL GROUNDWATER MONITORING AND MODELLING PROGRAM



- Groundwater modelling project commenced in 2019 for the CVC Mod 4 and regionally
- Letters distributed to all registered groundwater users in June
- Letters requesting land access to test boreholes and get standing water levels, use and simple tests for pH and Electrical Conductivity
- Still getting responses – majority of bores no longer used, water make and quality poor
- Propose to install some monitoring wells in the Munmorah SCA to further inform the groundwater model

DELTA COAL ENVIRONMENTAL PROJECTS – CVC PRP8



- Development application submitted on the planning portal in August
- Require a Controlled Activity Approval from NRAR for the creek crossing to be completed after DA approval
- Construction to commence after approvals and final design completion



DELTA COAL ENVIRONMENTAL PROJECTS



Former Mine Cottages – Site Rehabilitation

- Rehabilitation Objective – Open Grassland
- Native grass seed mix and fertilizer spread October 2020



Mine Cottages Demolition
July 2020



Mine Cottages Rehabilitation
September 2020



Mine Cottages Rehabilitation
November 2020

Chain Valley Colliery Pit Top – Redundant Infrastructure Demolition



Removal of Back-Drift Gantry



CVC Coal Storage Bin to be demolished

DELTA COAL ENVIRONMENTAL PROJECTS



CVC Workshop – Roof Replacement Project



DELTA COAL ENVIRONMENTAL PROJECTS



Catherine Hill Bay

- Site cleared of mining infrastructure (except for coal bin and stormwater drainage pit)
- Coal bin filled and capped
- Completion of works by end of November 2020
- Coastal Hamlets preparing to develop site into residential estate



- September 2020 Delta Coal community newsletter publication and distribution
- Upcoming November 2020 Delta Coal community newsletter publication (consent consolidation) and distribution
- Exploration Frequently Asked Questions (FAQs) drafted and added to DC website
- Social impact surveys and interactions (Umwelt)

Delta Coal CCC 2021



Proposed meeting dates for the Delta Coal CCC in 2021 are:

- 18th February 2021
- 19th May 2021
- 18th August 2021
- 17th November 2021

QUESTIONS / OPEN FORUM

Followed by

Delta Coal CCC Group Photo