

# Chain Valley and Mannering Collieries

Combined Community Consultative  
Committee Meeting Presentation  
19<sup>th</sup> May 2021



# 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. Ccommunity / Media**
- 11. General business**
- 12. Next meeting**

# WELCOME AND APOLOGIES



## **Welcomes:**

- Mal Yule (Delta Coal – Chief Executive Officer)

## **Apologies:**

- Dave McLean (Delta Coal)
- Central Coast Council (Emma Benson)
- Andrew Whitbourne

## **Declaration of interests**

## **Confirmation of previous minutes**

# ACTIONS / BUSINESS ARISING FROM PREVIOUS MINUTES



|                                                  | Action / Business Arising                                                           | Action Owner | Update                                                                                                                                                                                         |
|--------------------------------------------------|-------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACTIONS / BUSINESS ARISING FROM PREVIOUS MEETING | Update CCC regarding approval of VPA projects following delays                      | MMH          | CCC updated on 22/02/2021                                                                                                                                                                      |
|                                                  | Provide plans of former workings within Wyee Bay and Mannering Park to NW           | LM           | NW provided with plans of CVC and MC workings, as presented in the approved Mine Operations Plan (MOP). The current version of Delta Coals approved MOP can be found on the Delta Coal website |
|                                                  | Follow up on purpose of suspected monitoring station at Mirrabooka.                 | LM           | It is an air quality monitoring station operated by the NSW EPA. It is termed the Morrisset Air Quality monitoring stations and data can be viewed on the NSW EPA website                      |
|                                                  | CCC to undertake walkover of Chain Valley Colliery dams                             | LM           | Undertaken at the end of this meeting                                                                                                                                                          |
|                                                  | Investigate sediment sampling for heavy metals within creek receiving CVC Discharge | LM           | Potentially costly independent investigation without the ability to determine the mines contribution to the outcomes. Not scheduled within FY21-22 budget.                                     |

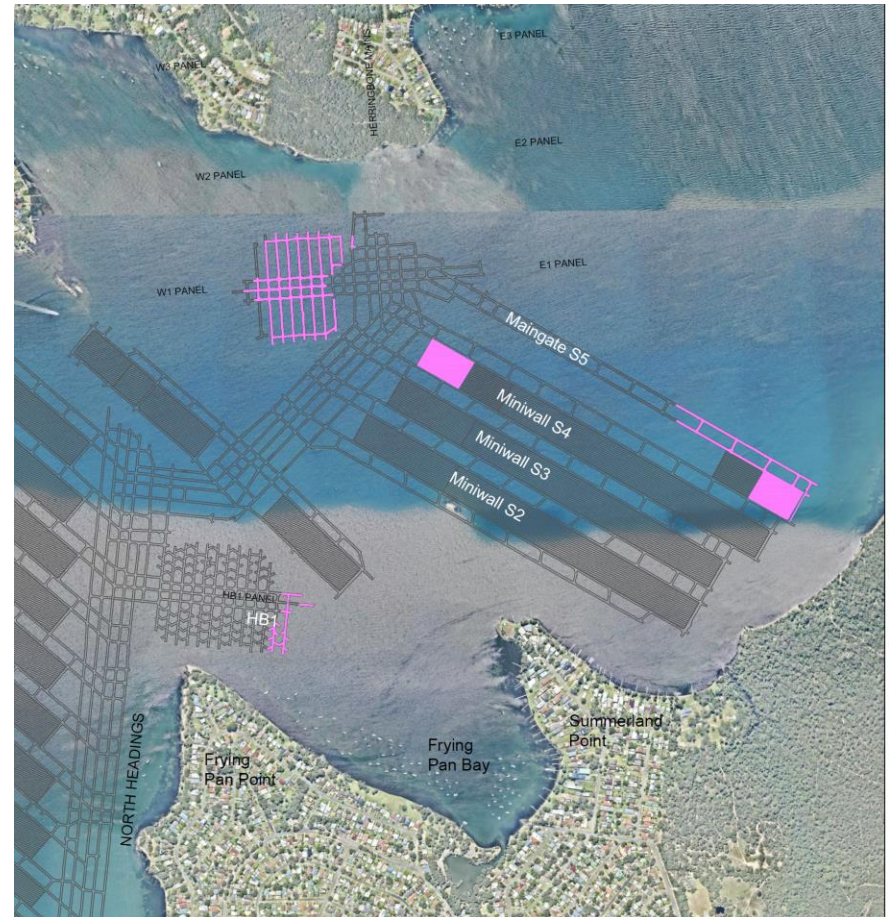
## Correspondence:

- 22/02/2021 – MMH e-mailed Draft minutes from 17/02/2021 CCC meeting to all members, final minutes distributed on 01/03/2021.
- 22/02/2021 – MMH e-mailed a link to CCC on latest round of Council approvals
- 24/02/2021 – CA provided NW and MMH with Chain Valley Colliery and Mannering Colliery mine plans with built and natural features included.
- 09/03/2021 – MMH e-mailed the Chair’s Annual Report to DPIE (displayed on Delta Coal website)
- 07/04/2021 – MMH e-mailed all members with a link to Chain Valley Colliery and Mannering Colliery Annual Reviews (previously termed Annual Environmental Management Reports)

# OPERATIONAL UPDATE



- Mining production areas are currently in areas under Lake Macquarie, north of Frying Pan Bay / Summerland Point and south of Brightwaters.
- MWS5 commenced 12 April 2021
- The first bord and pillar panel (HB1) started 17 August 2020
- Forecast coal production for FY20/21 is 1.5Mt

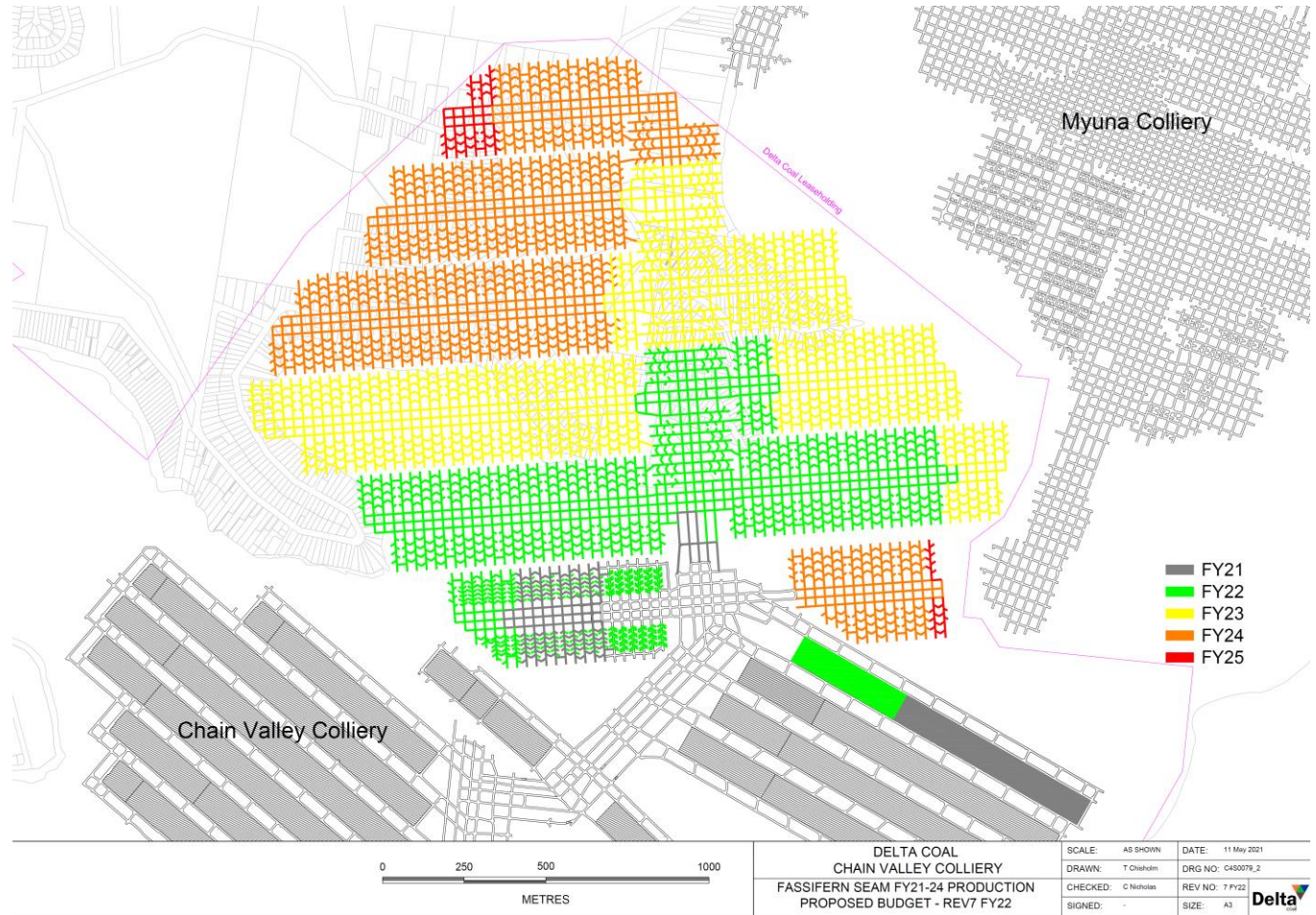


Above: Workings February 2021 – April 2021 inclusive (pink)

# PRODUCTION FY21



- MWS5 completion scheduled August 21
- Ongoing production in Northern Mining Area
- FY21-22 production forecast close to 1.5Mtpa



# NORTHERN MINING AREA (NMA) EXTRACTION PLANS



- Draft MWS5 and NMA Pillar Extraction Plan submitted to regulators and stakeholders (CCC) in December 2020
- Approved by DPIE in April 2021 with MWS5
- Extraction Plan and approval and associated management Plans added to DC website
- Additional subsidence monitoring being installed in Q3 2021 on Morisset Peninsula as per the NMA Subsidence Monitoring Program prior to under the lake pillar extraction in August 2021. Letter drop and door knock.



# APPROVALS - CURRENT



|                                                          |                                                |
|----------------------------------------------------------|------------------------------------------------|
| CVC SSD5465-Mod 3                                        | Approved 26 June 2020                          |
| MC PA-03_611 Mod 5                                       | Approved 26 June 2020                          |
| S4 Miniwall Extraction Plan                              | Approved 22 June 2020                          |
| MWS5 and NPA Extraction Plan                             | Approved in March 2021                         |
| CVC and MC MOP (S2/S3/S4 + Demolition)                   | Expired 31/03/2021                             |
| CVC and MC MOP (S3/S4/S5 + Bord & Pillar)<br>Amendment 1 | Approved in March 2021 - expires<br>31/12/2023 |

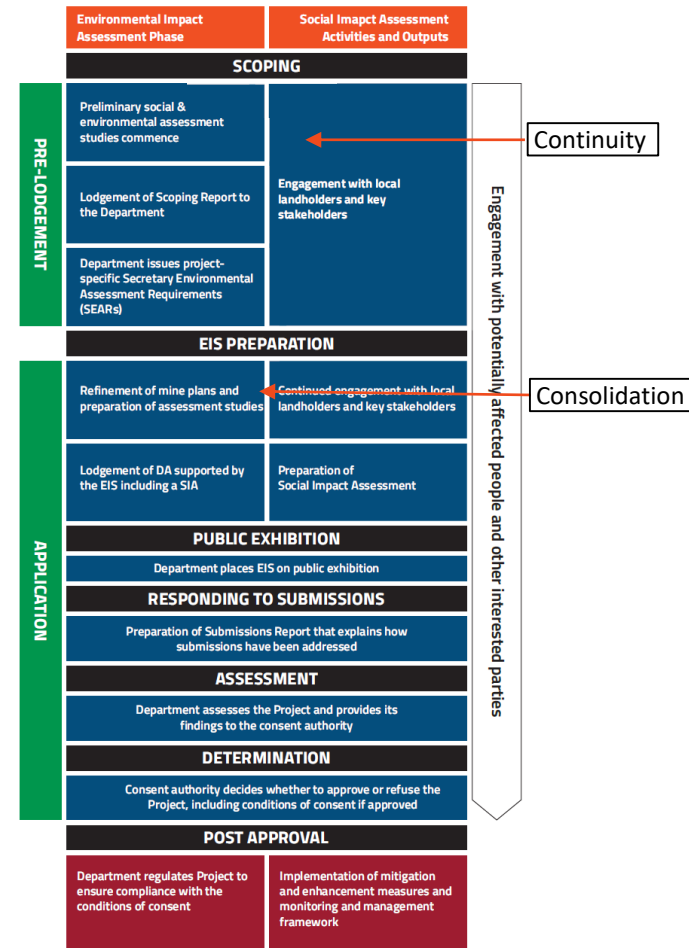
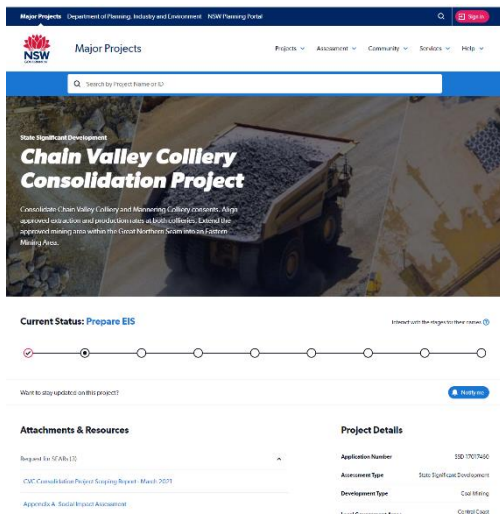
# DELTA COAL CONSOLIDATION / CONTINUITY PROJECT STAGES



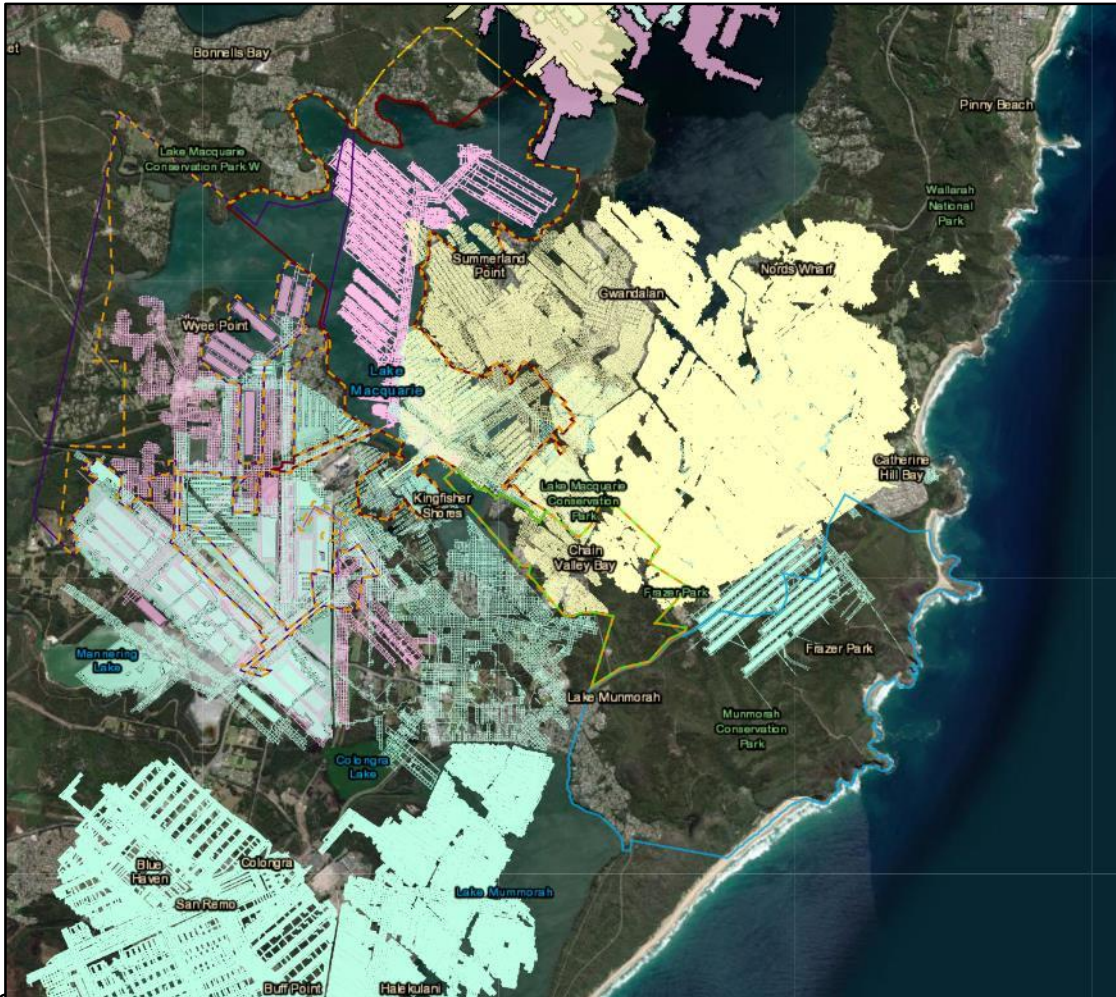
## Phases of an Environmental Impact Assessment (EIA)

Key Social Impact Assessment activities and outputs

- **Consolidation Project (CVC, MC & Eastern Mining Area)**
  - Community drop-in sessions in December 2020 and March 2021, planned for June 2021
  - Scoping Document submitted in February 2021
  - SEARs received - May 2021
  - Environmental Impact Statement – July/August 2021



# CONSOLIDATION AND CONTINUITY PROJECTS



- Existing CVC approval area
- Existing MC approval area
- Eastern Mining Area
- Continuity Project Area
- Northern Mining Extension

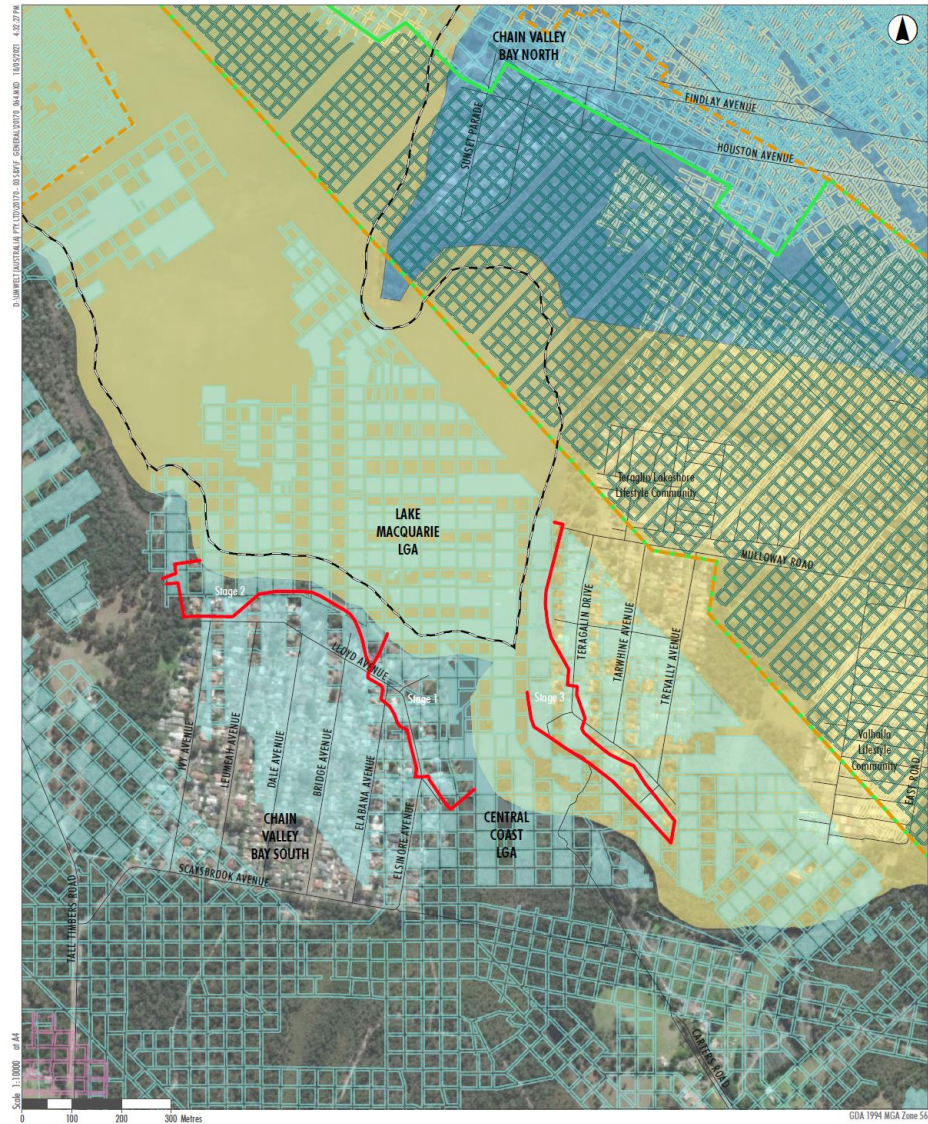
# CONSOLIDATION PROJECT ENVIRONMENTAL ASSESSMENT - RESULTS



| Impact                | Results                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------|
| Subsidence            | First workings in Eastern Mining Area GN seam - max 20mm subsidence in seagrass, foreshore and land |
| Noise and Air Quality | Initial modelling shows that it is expected to be consistent with existing operations               |
| Traffic               | Will not involve any increase in traffic impacts relative to existing approved operations           |

- Consent Consolidation
- Finalise technical specialist reports in June and append to the EIS
- 2<sup>nd</sup> round of community / stakeholder consultation
- EIS Submission and Public Exhibition

# CONSOLIDATION AND PROJECTS



3. NUMBERS INDICATE LOT FOLIO NUMBERS. 85.000P. GENERAL LOT 10. LAND 1.000000. 432.0774  
 Scale: 1:1000 of A4  
 GDA 1994 MGA Zone 56

## Legend

- Project Area
  - Proposed Eastern Mining Area
  - Subsidence Restoration Works (Source: Jenkins, 1991)
  - Local Government Area (LGA)
  - Existing Wallarah Seam Workings
  - Existing Great Northern Seam Workings
  - Existing Fassifern Seam Workings
- 
- |              |                     |
|--------------|---------------------|
| <b>Lease</b> | CCL706, Underground |
|              | CCL707, Underground |

# COMMUNITY EVENTS / MEDIA



- Mine Subsidence FAQ sheet drafted, sent out for comments
- Magnetometer Exploration - Frequently Asked Questions (FAQs) on DC website
- Registered Aboriginal Parties (RAP) fieldwork for approvals projects in March
- Community information session and social impact surveys at the Lake Munmorah Shopping Centre in March
- Chain Valley Bay Progress Association meeting 25 May
- June – community newsletter and community information session

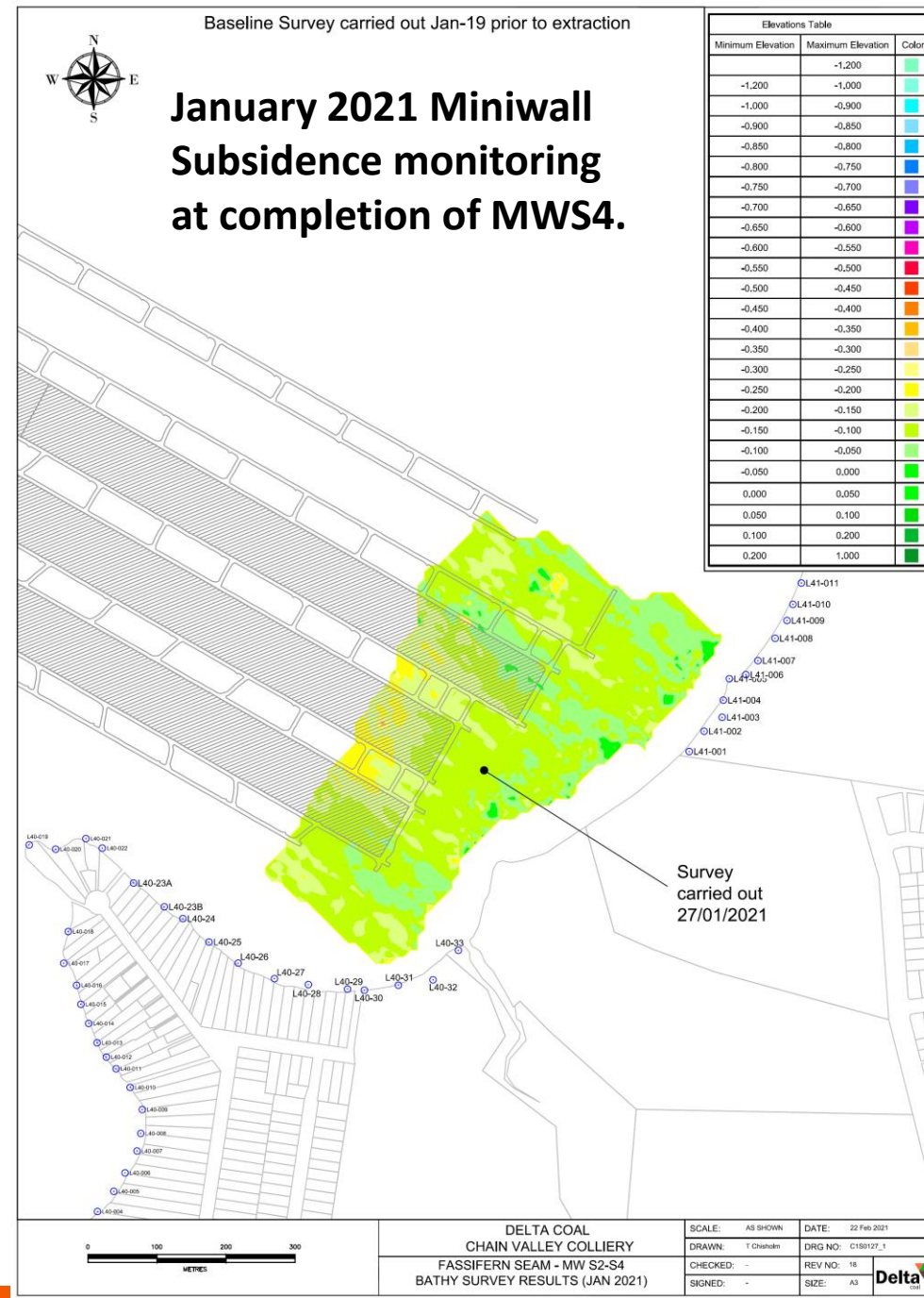


# Subsidence Monitoring

Delta Coal submitted an Annual Subsidence report to the DPIE and Resources Regulator which was appended to the 2021 Annual Review, circulated to committee members and available on the Delta Coal website, [deltacoal.com.au](http://deltacoal.com.au).

The Annual subsidence report details results of bathymetric scanning and foreshore subsidence monitoring for the 2020 period.

- No exceedances of maximum subsidence predictions (0.78M) were observed over Miniwalls S2-S4.
- Nil or negligible (<20mm) subsidence has been observed in foreshore monitoring.



# Environmental Incidents/non-compliances



| Date                 | Incident type                                                                              | Incident Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Corrective Actions                                                                                                                                                                                                                       |
|----------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18 and 21 March 2021 | Exceedance of EPL1770 discharge volume, Faecal Coliform and total suspended solids limits. | <p>A combined volume of 15,555 kL (18/03/2021) and 13,411 kL (21/03/2021) was discharged via LDP 1 and LDP 27 (spillway) during a 376mm rain event over 5 days. As per EPL sampling requirements, overflow at the spillway was sampled during discharge and exceeded Faecal Coliform and total suspended solids limits.</p> <p>Mine de-watering was ceased prior to the rainfall event to maximise water retention. The septic chlorine dosing pump was operational during exceedance. The incident was reported to appropriate regulatory authorities.</p> | <ol style="list-style-type: none"> <li>1. currently tendering for the development of sewage connection.</li> <li>2. Design of sediment controls for CVC stockpile area underway.</li> <li>3. Review of Water Management Plan.</li> </ol> |
| 21 April 2021        | Technical non-compliance with EPL 1770 depositional dust limits                            | <p>Exceedance of DDG005 limit due to contamination by dirt (45%) and vegetation (35%).</p> <p>DDG5 has been subject to contamination from external site activities unrelated to Delta Coal ventilation site operations. Delta Coal requested to replace DDG005 with DDG006 to the DPIE in November 2020 and is pending review. The incident was reported to appropriate regulatory authorities.</p>                                                                                                                                                         | <ol style="list-style-type: none"> <li>1. Review of Delta Coal Air Quality and Greenhouse Gas Management Plan pending the DPIE approval.</li> </ol>                                                                                      |



# Environmental Incidents/non-compliances

| Date          | Incident type                                                                          | Incident Details                                                                                                                                                                                                                                                                                                                                                                                                                       | Corrective Actions                                                                                                                                                                                                                |
|---------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 28 April 2021 | Exceedance of EPL 191 Oil and Grease limit at Mannering Colliery discharge point LDP1. | <p>Oil and grease results of 34 mg/L from weekly discharge sampling exceeded the EPL 191 limit (10 mg/L).</p> <p>No slicks, sheens or odours were observed at the time of sampling, with further petrochemical analysis indicating the detected oil and grease was not petroleum based. Investigation of potential sources identified a emulsion utilised in the long-wall underground that is fatty acid based and water soluble.</p> | <ol style="list-style-type: none"> <li>1. Monitoring of emulsion product usage to detect potential leaks and respond promptly.</li> <li>2. Faster laboratory results for Mannering Colliery weekly discharge sampling.</li> </ol> |

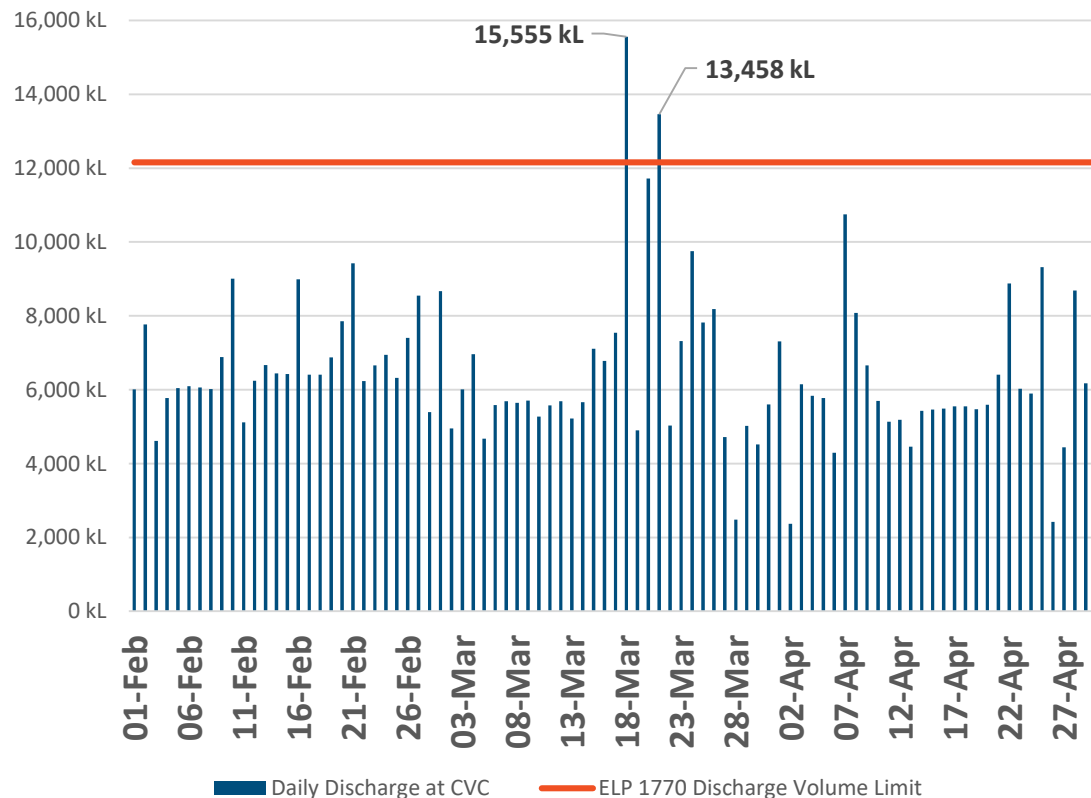


LDP1 during sample collection  
28/04/2021

# CVC Water Discharge



Chain Valley Colliery - Daily Discharge Volumes  
1 Feb – 30 Apr

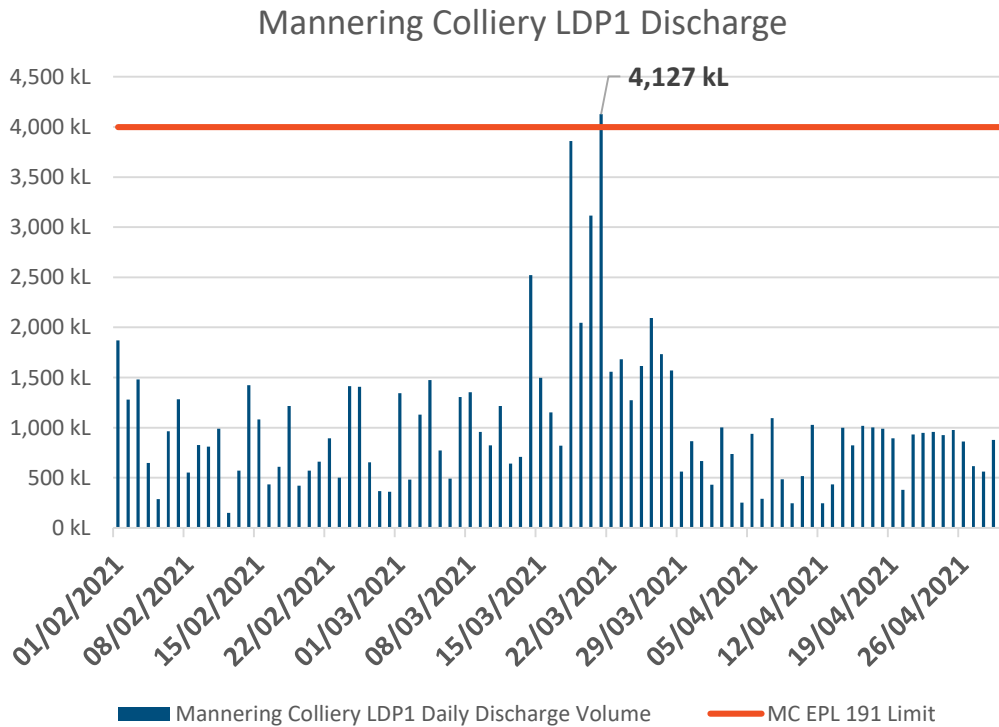


| LDP1                           | Limits  | Feb-2020 | Mar-2020 | Apr-2021 |
|--------------------------------|---------|----------|----------|----------|
| Faecal Coliforms (mg/kg)       | 200     | 180      | 21       | 11       |
| Total Suspended Solids (mg/kg) | 50      | 27       | 9        | <5       |
| pH (pH Units)                  | 6.5-8.5 | 7.67     | 7.53     | 7.67     |
| LDP27                          | Limits  | 18/03/21 | 21/03/21 |          |
| Faecal Coliforms (mg/kg)       | 200     | 4000     | 730      |          |
| Total Suspended Solids (mg/kg) | 50      | 158      | 54       |          |
| pH (pH Units)                  | 6.5-8.5 | 7.73     | 7.79     |          |

# SURFACE WATER MONITORING - MC



## Mannering Colliery Monthly Average Water Quality Results – Licenced Discharge Point 1



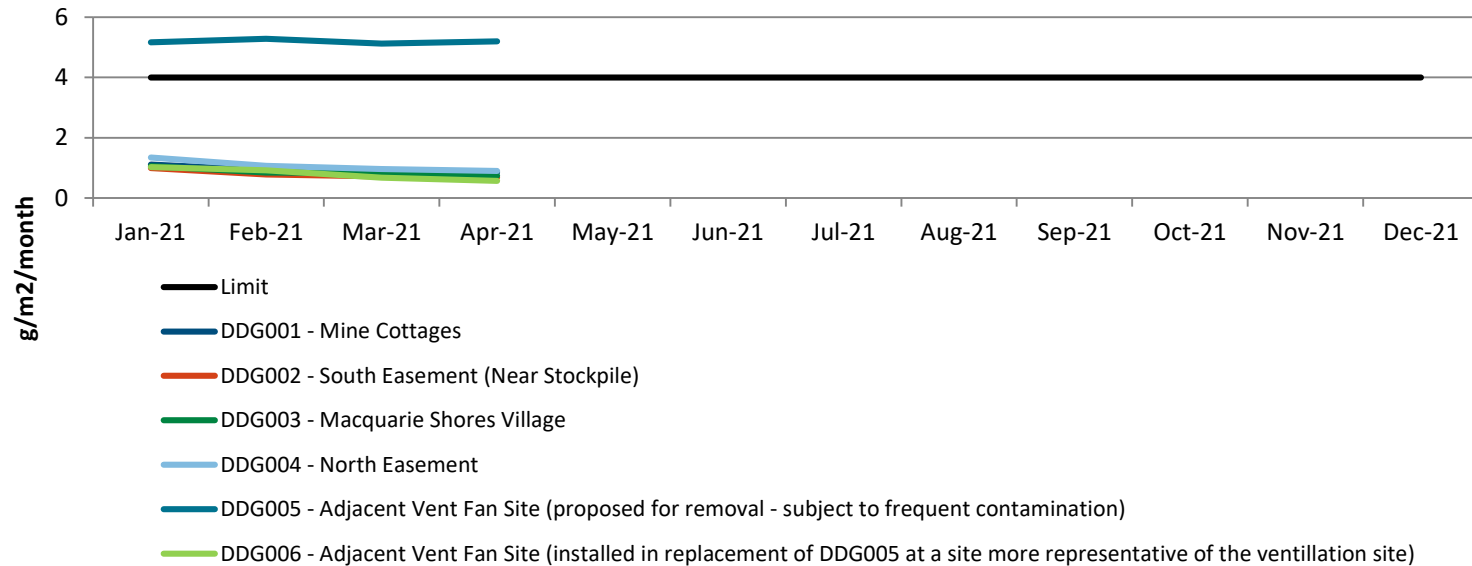
| LDP1         | Limits  | Feb-2021 Average | Mar-2021 Average | Apr-2021 Average   |
|--------------|---------|------------------|------------------|--------------------|
| Oil & Grease | 10      | <5               | <5               | 11.25 <sup>1</sup> |
| TSS          | 50      | 12               | 9.8              | 10.1               |
| pH           | 6.5-8.5 | 7.9              | 7.8              | 7.9                |

1. Oil and Grease exceedance on 20<sup>th</sup> April 2021.

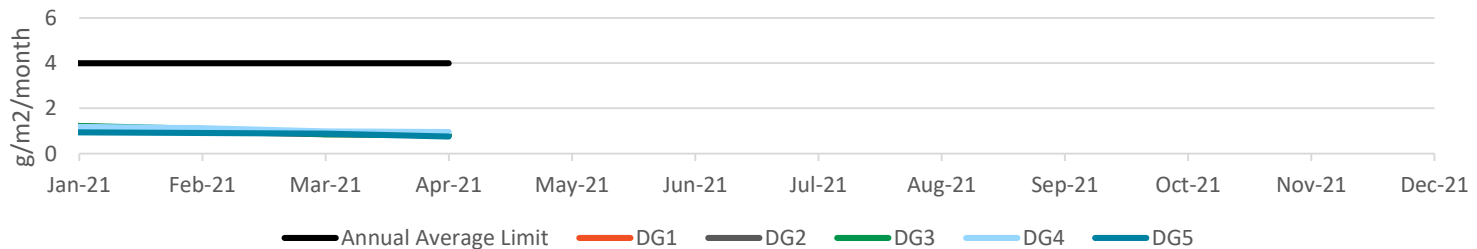
# DEPOSITIONAL DUST - CVC



## CVC Depositional Dust (12 month rolling average)



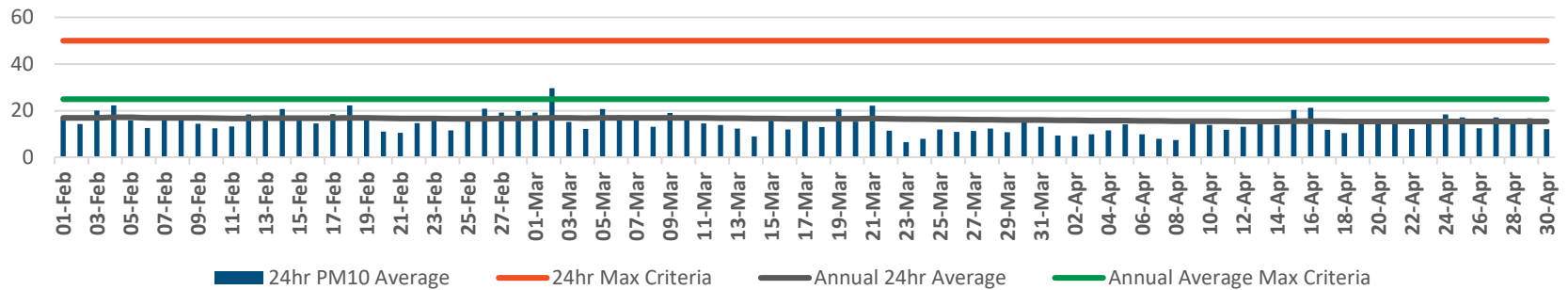
## MC Depositional Dust (12 month rolling average)



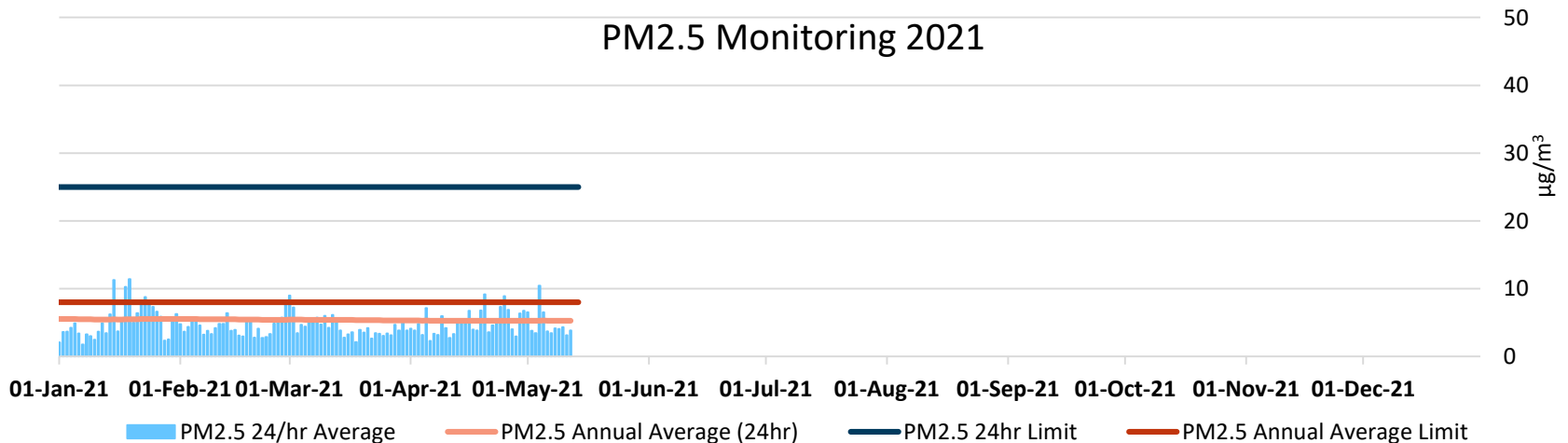
# PM<sub>10</sub> and PM<sub>2.5</sub> Monitoring



## PM<sub>10</sub> (µg/m<sup>3</sup>) Monitoring 1st Feb - 30 Apr 2021



## PM<sub>2.5</sub> Monitoring 2021



# NOISE MONITORING RESULTS



## **Chain Valley Colliery:**

- Noise monitoring undertaken quarterly, Q1 monitoring completed on the 24 and 25 May 2021. All monitoring locations were compliant, with CVC inaudible at all monitoring locations.

## **Mannering Colliery:**

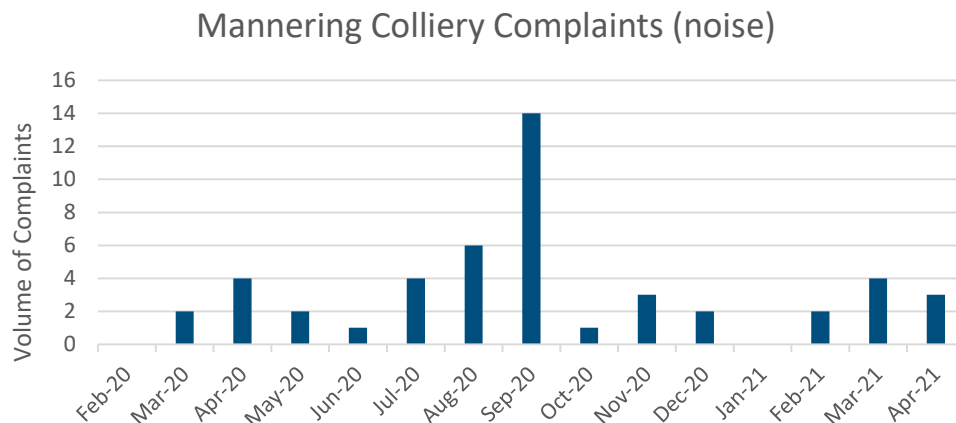
- Mannering Colliery monthly monitoring in February, March and April 2021 compliant with applicable noise limits;
- there have been no exceedances of noise monitoring results since the last exceedance at Kingfisher Shores prior to decommissioning of the Rotary Breaker (exceedance in May 2020). Modelling undertaken following the decommissioning indicated that in a worst case meteorological scenario, MC noise emissions observable at the MSHV monitoring location could be up to 39 dB(A) ( $LA_{eq15}$ ) while the modelled noise limit for the monitoring location is 40 dB (A).

## 2020 Complaints

- 1 community complaints in 2020 for Chain Valley Colliery
- 40 community complaints in 2020 for Mannering Colliery, 39 of 40 complaints were made by one complainant regarding noise.

## 2021 Complaints (Jan - April)

- 0 community complaints in 2021 for Chain Valley Colliery
- 9 community complaints in 2021 for Mannering Colliery (noise complaints sourcing from a resident of Macquarie Shores Home Village)



# DELTA COAL ENVIRONMENTAL PROJECTS









## CVC PRP8

- Development Application approval was received from Council December 2020;
- Technical specification was assembled and Tenders will be sought in May;
- Anticipated commencement of Construction in Q3 2021.
- Emphasis on timely implementation to prevent future Faecal Coliform exceedances at CVC.











## Noxious Weeds Management

| MC - Bamboo                                                                       | MC - <i>Plumbago Auriculata</i>                                                     | CVC Dam wall - Pampas                                                                |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Before                                                                            | Before                                                                              | Before                                                                               |
|   |   |   |
| After                                                                             | After                                                                               | After                                                                                |
|  |  |  |



### Noxious Weeds Management – Cont.

| CVC - Bitou Bush                                                                  | CVC - Castor Oil Plant                                                              | CVC – Asparagus Fern                                                                 |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Before                                                                            | Before                                                                              | Before                                                                               |
|   |   |   |
| After                                                                             | After                                                                               | After                                                                                |
|  |  |  |

# DELTA COAL ENVIRONMENTAL PROJECTS

## Catherine Hill Bay Rehabilitation:

- Headland rehabilitation completed and Part relinquishment of CCL706 pending
- Possum Gulley MOP (Part CCL 706 – Domain 5B Possum Gulley) approved by the resources regulator on 25 March 2021 which will facilitate rehabilitation works.



# QUESTIONS

Next Meeting: Wednesday 18<sup>th</sup> August 2021