

# Chain Valley and Mannering Collieries

Combined Community Consultative Committee  
Meeting Presentation  
18<sup>th</sup> May 2022



# AGENDA



- 1. Welcome and apologies**
- 2. Declarations of interest**
- 3. Confirmation of previous minutes**
- 4. Business arising**
- 5. Correspondence**
- 6. Operational Update**
- 7. Approvals Update**
- 8. Environmental Performance**
- 9. Environmental Projects**
- 10. Next meeting**

# WELCOME AND APOLOGIES



**Welcome**

**Apologies**

**Declaration of interests**

**Confirmation of previous minutes**

# ACTIONS / BUSINESS ARISING FROM PREVIOUS MINUTES



Action / Business Arising	Action Owner	Update
Delta Coal Newsletter detailing removal of Eastern Mining Area	LM	Newsletter in development and discussed on Slide 8.

## Correspondence since previous meeting

- 1/3/22 –MMH email Chair’s Annual Report to DPE
- 4/3/22 –MMH email to CCC on Lake Mac representation
- 4/3/22 –MMH email to Cr Buckley on CCC
- 23/3/22 –GHD email to MMH on IEA
- 24/3/22 –MMH email CCC on IEA
- 1/4/22 –MMH email response to GHD

# OPERATIONAL UPDATE

- Production areas are currently under Lake Macquarie and Morisset Peninsula.
- Current operations are first-workings only (no secondary extraction).



<b>Fassifern Seam Workings</b> <span style="color: pink;">■</span> Workings 1-Feb-22 to 30-Apr-22 <span style="color: green;">■</span> CVC Development Consent Boundary		<b>DELTA COAL</b> <b>MANNERING &amp; CVC COLLIERIES</b> <b>FASSIFERN SEAM WORKINGS</b>		SCALE: 1:10,000 DRAWN: S Drinkwater CHECKED: L McWha REVISION:	DATE: 12 May 2022 DRG NO: C150155_1 REV NO: SIZE: A3	
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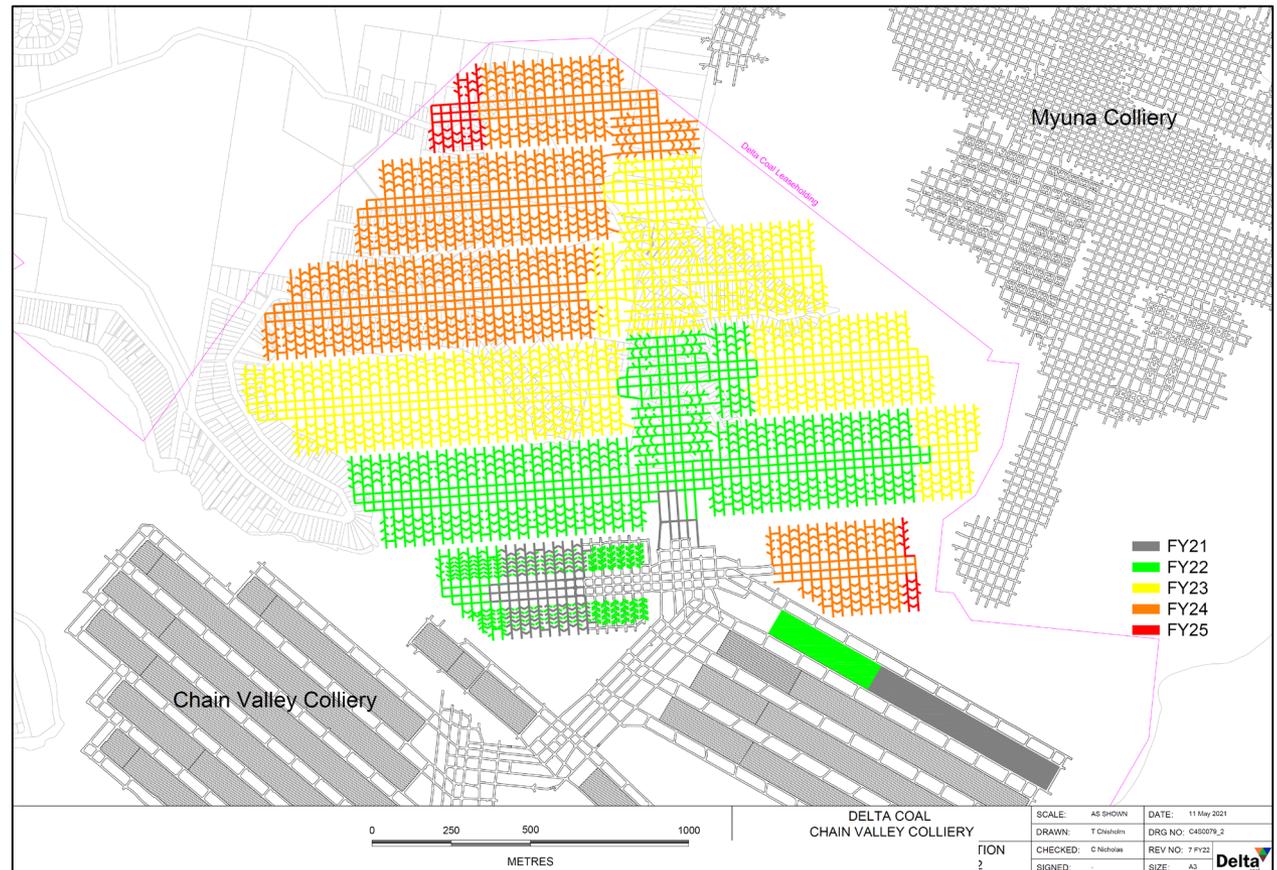
# PRODUCTION FORECAST



The forecasted mine design remains the same to previously presented in the Feb-22 CCC meeting.

Forecast coal production for FY21-22 was reduced from 1.5 million tonnes per annum (Mtpa) to 1.2 Mtpa.

Forecasted coal production for FY22-23 is back to 1.5 Mtpa.



# APPROVALS - CURRENT



Approval	Status
<b>Chain Valley Colliery</b>	
Environmental Protection License (EPL) 1770	Updated 24 February 2022. Update to facilitate extension of Pollution Reduction Program 9 for administration building sewage connection, aligns with PRP8 due date of 25 August 2022.
CVC and MC MOP 2020-2023 Amendment 2 Amendment to include the Mining Lease transfer of ML1632 to ML1785.	Approved 30 <sup>th</sup> August 2021 Expires 31/12/2023
Chain Valley Colliery Development Consent CVC SSD-5465 (MOD 4)	Approved 5 <sup>th</sup> August 2021
MWS5 and NPA Extraction Plan	Approved in March 2021
<b>Mannering Colliery</b>	
EPL 191 – Mannering Colliery	Updated April 2021
Mannering Colliery Project Approval PA 06_0311 (MOD 5)	Approved June 2020

# DELTA COAL CONSOLIDATION PROJECT



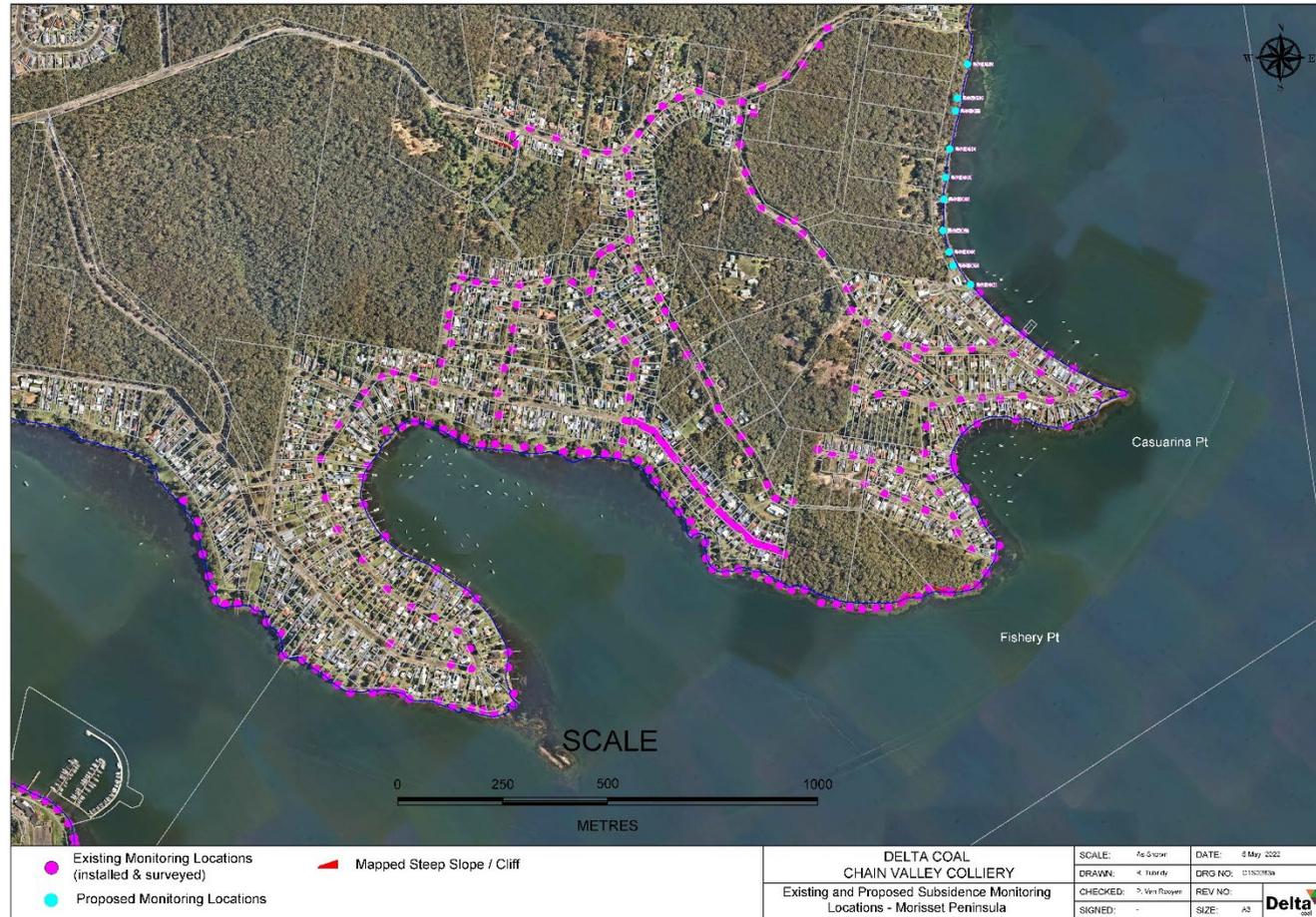
## Current status of the Consent Consolidation Project:

- Technical specialist reports and EIS being amended to account for the removal of the Eastern Mining Area (EMA).
- Forecast submission of the EIS to DPIE is the end of July 2022 for adequacy reviews prior to being placed on exhibition.
- Newsletter in preparation for delivery to notify local residents of removal of the Eastern Mining Area, and project objectives of the revised consent consolidation project.



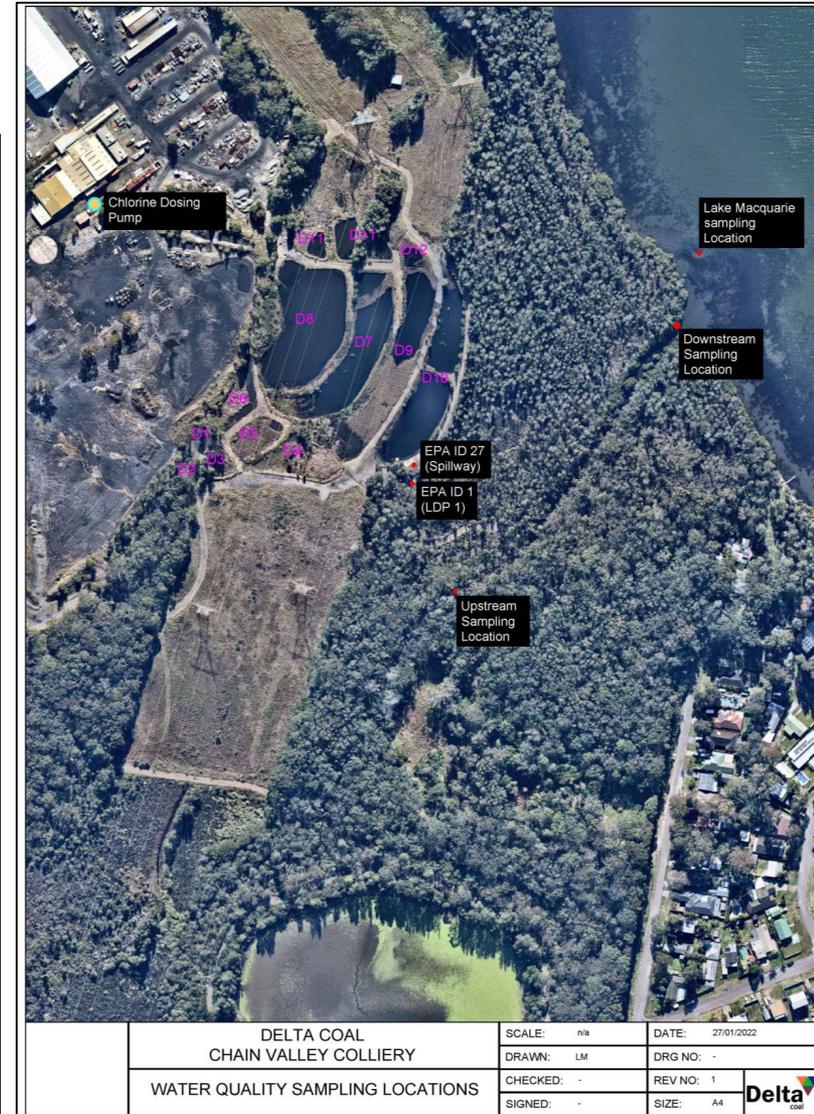
# SUBSIDENCE MONITORING

- Conservation risk assessment completed in March 2022 for proposed subsidence monitoring points in northern-most area of the Northern Mining Area (NMA).
- No Aboriginal heritage or ecological limitations were identified in the assessment that would be impacted by the subsidence monitoring points.

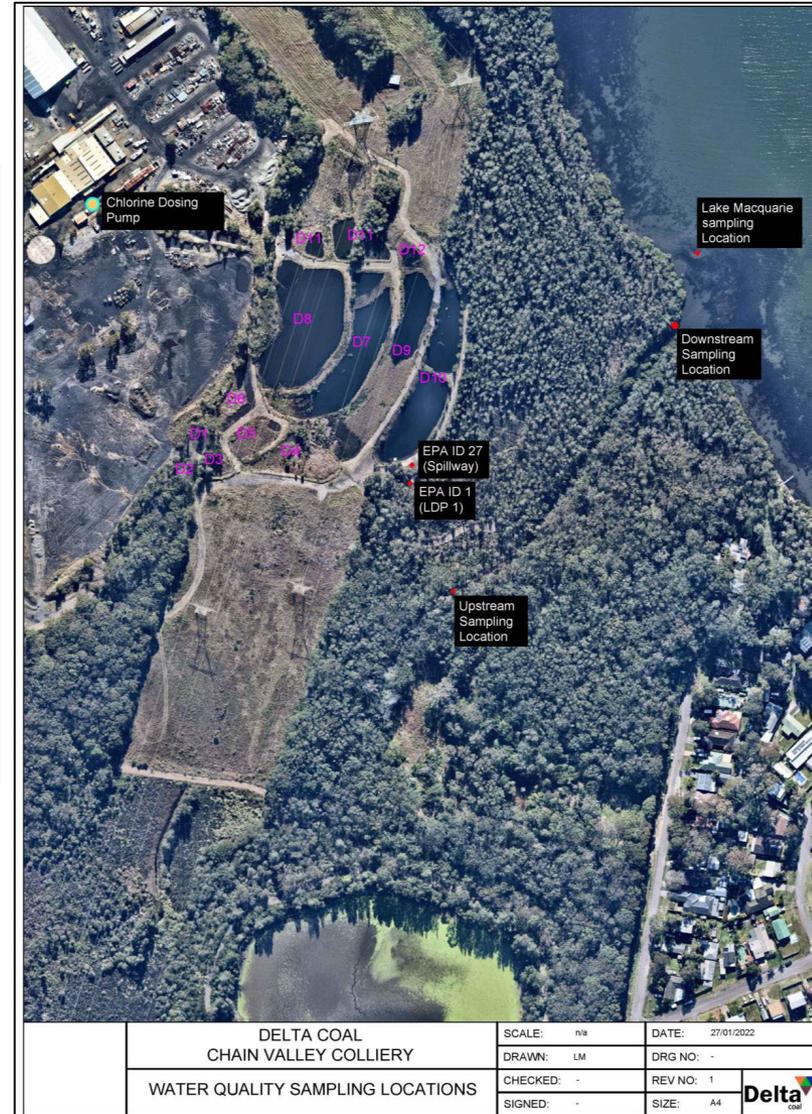


# ENVIRONMENTAL INCIDENTS / NON- COMPLIANCES

<b>Incident:</b>	<ul style="list-style-type: none"> <li>Faecal Coliform Exceedance at LDP27 (Spillway)</li> </ul>
<b>Date:</b>	<ul style="list-style-type: none"> <li>30 March 2022</li> </ul>
<b>Details:</b>	<ul style="list-style-type: none"> <li>Spillway breached on 30 March 2022 during high rainfall intensities. Sample collected during spillway breach as required under EPL 1770.</li> <li>Sample from LDP27 recorded 1,200 CFU/100ml of Faecal Coliforms, exceeding the limit of 200 CFU/100ml.</li> <li>A total of 33 kL was discharged via the spillway on the 30 March 2022.</li> <li>There is likely a significant contribution to faecal coliform concentrations brought into the dam system during high intensity rainfall from run off within catchment areas.</li> <li>Upstream sampling indicated that the concentration of faecal coliforms in the stream was greater than the concentration within CVC discharge waters, likely due to the discharge of treated effluent from the Mannering Park Sewage Treatment Plant.</li> </ul>

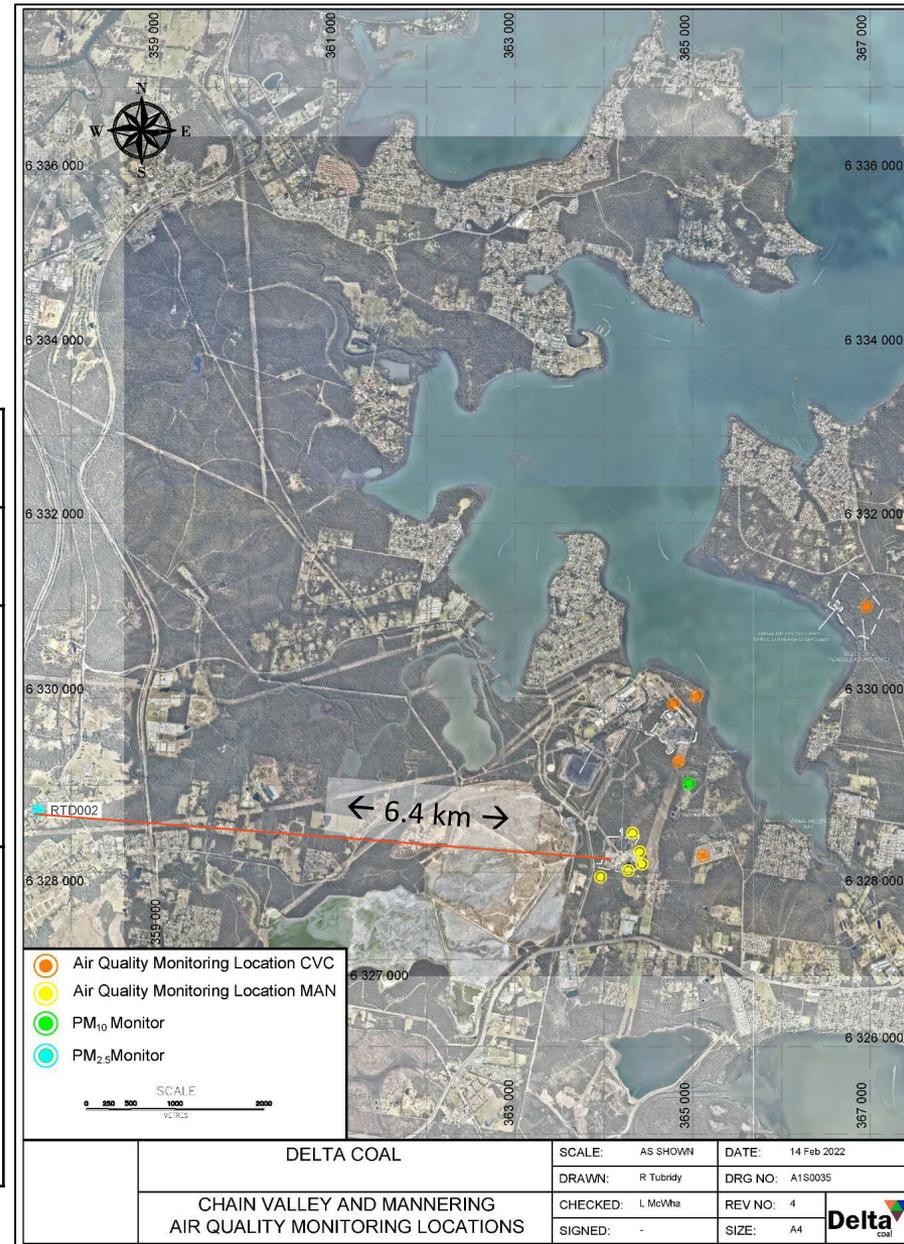


<b>Incident:</b>	<ul style="list-style-type: none"> <li>Faecal Coliform Exceedance Continued.</li> </ul>
<b>Actions:</b>	<ul style="list-style-type: none"> <li>Incident reported to NSW EPA, DPIE and Resources Regulator.</li> <li>Review of chlorine dosing pump function and dosing volume.</li> <li>Sewer Connection to be completed prior to 25th August 2022.</li> <li>A notice requesting further information and site records was received from the NSW EPA regarding effluent and wastewater management on site which Delta Coal is cooperating with.</li> </ul>



# ENVIRONMENTAL INCIDENTS / NON-COMPLIANCES

<b>Incident:</b>	<ul style="list-style-type: none"> <li>Exceedance of Daily Average PM<sub>2.5</sub> Limits</li> </ul>
<b>Date:</b>	<ul style="list-style-type: none"> <li>20<sup>th</sup> April 2022</li> </ul>
<b>Details:</b>	<ul style="list-style-type: none"> <li>Delta Coal monitor PM<sub>2.5</sub> (i.e. all particulate matter less than 2.5µm) utilising a particulate beta-attenuation monitor, owned and operated by Delta Electricity.</li> </ul>
<b>Actions:</b>	<ul style="list-style-type: none"> <li>Notified to DPIE, NSW EPA and the Resources Regulator</li> <li>The incident is being investigated by Delta Coal.</li> </ul>



# ENVIRONMENTAL INCIDENTS / NON- COMPLIANCES

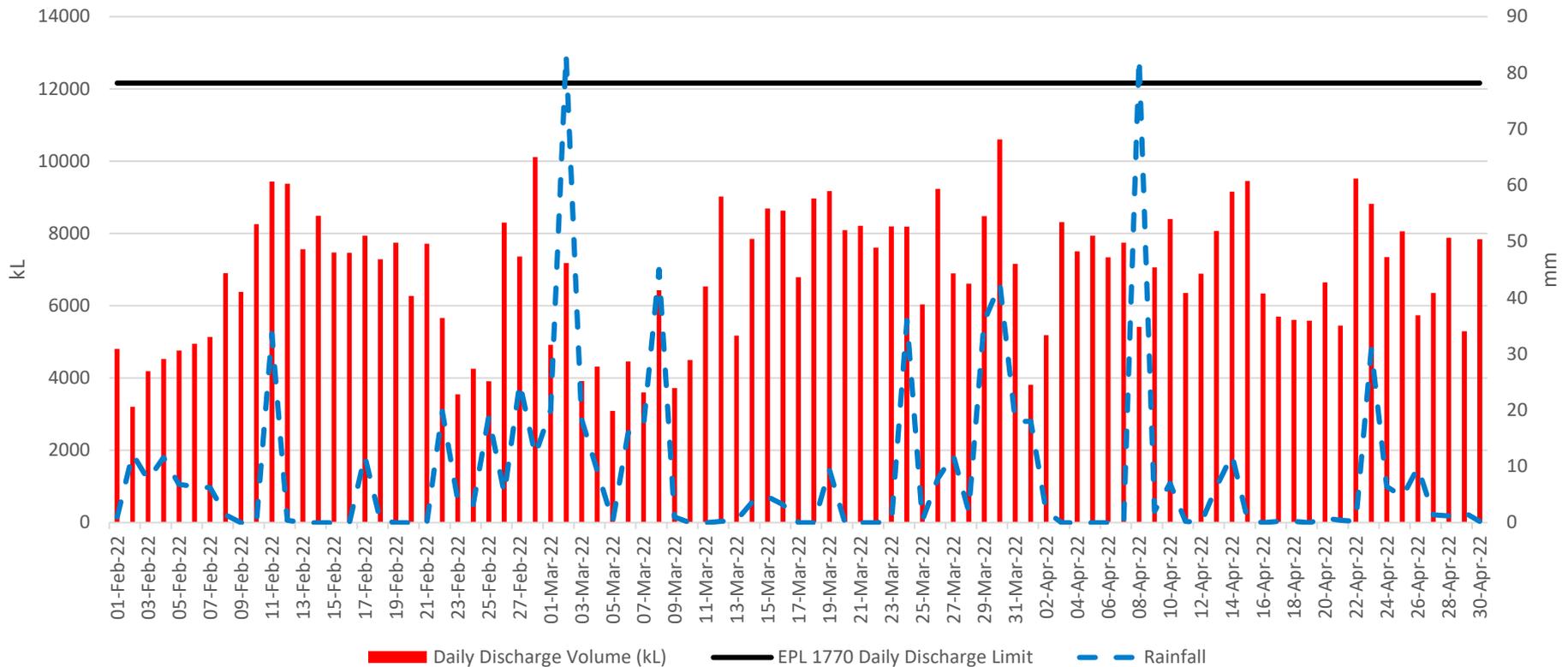
<b>Incident:</b>	<ul style="list-style-type: none"><li>• Mannering Colliery Depositional Dust Gauge 2 (DG2) – Exceedance of maximum monthly increase.</li></ul>
<b>Date:</b>	<ul style="list-style-type: none"><li>• 21 April 2022</li></ul>
<b>Details:</b>	<ul style="list-style-type: none"><li>• DG2 recorded a concentration of 3.2g/m<sup>2</sup>/month</li><li>• Did not exceed 4 g/m<sup>2</sup>/month</li><li>• Exceeded the limit for incremental increase per month (2g/m<sup>2</sup>/month)</li></ul>
<b>Actions:</b>	<ul style="list-style-type: none"><li>• Technical non-compliance reported to the NSW EPA, DPIE and Resources Regulator</li><li>• Delta Coal AQGHGMP proposes the replacement of DDG005 with DDG006, currently submitted to DPIE for Planning Secretary approval.</li></ul>



# SURFACE WATER DISCHARGE – CHAIN VALLEY COLLIERY



Chain Valley Colliery - Daily Discharge and Rainfall Volumes  
1 February 2022 - 30 April 2022



# SURFACE WATER DISCHARGE – CHAIN VALLEY COLLIERY

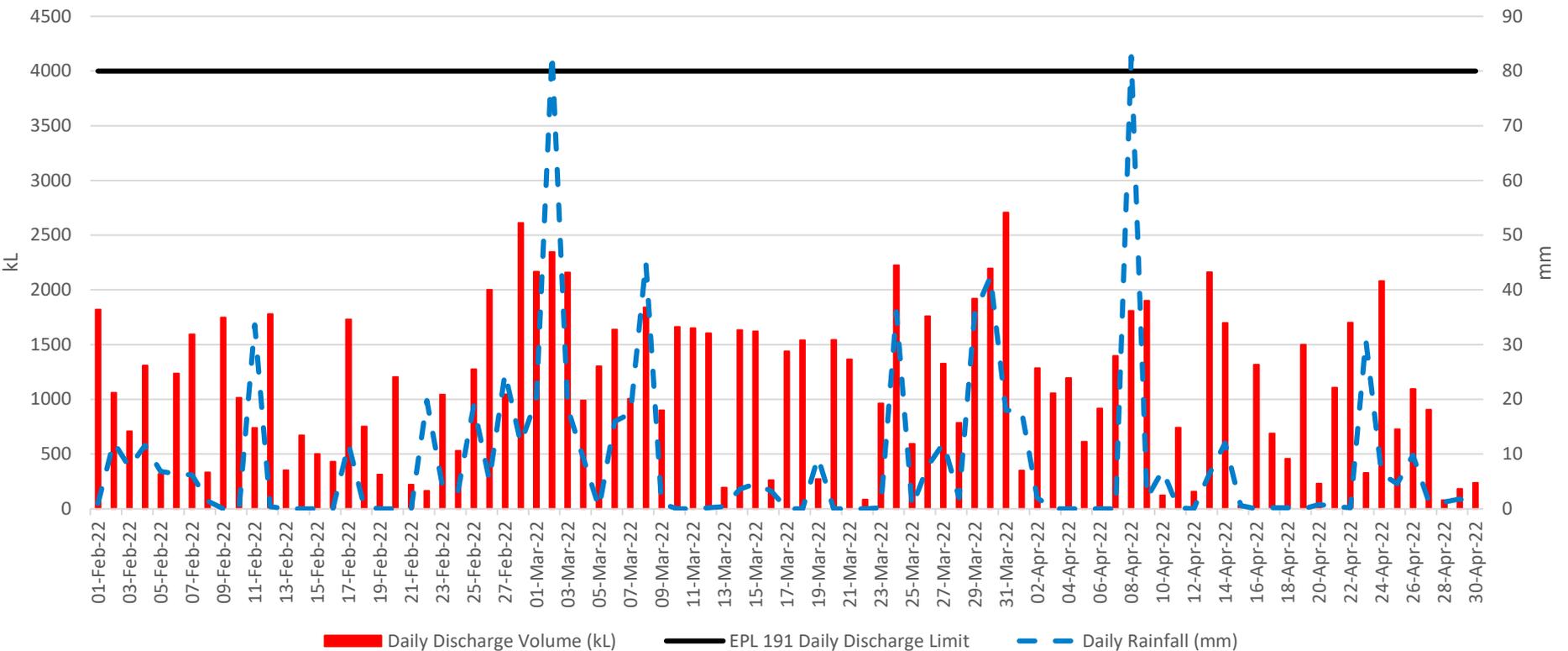


LDP1	Limits	Feb-2022	Mar-2022	Apr- 2022
Faecal Coliforms (CFU/100ml)	200	31	20	15
Total Suspended Solids (mg/kg)	50	<5	<5	<5
pH (pH Units)	6.5-8.5	7.63	7.52	7.63
Oil and Grease	10	<5	<5	<5

# SURFACE WATER – MANNERING COLLIERY



Manning Colliery - Surface Water Daily Discharge Volumes  
1 Feb 2022 - 30 April 2022



# SURFACE WATER – MANNERING COLLIERY



LDP1	Limits	Feb-2022 Average	Mar-2022 Average	Apr- 2022 Average
Oil & Grease mg/L	10	<5	<5	<5
TSS mg/L	50	7	14.1	12.4
pH	6.5-8.5	7.96	7.85	7.89

Sampling of Mannering Colliery Discharge water is undertaken weekly.

# MANAGEMENT PLAN REVISIONS



In the period of 1 February 2022 to 30 April 2022, the following combined (CVC & MC) management plans were approved by the Department of Planning, Industry and Environment:

- Delta Coal Air Quality and Greenhouse Gas Management Plan
- Delta Coal Noise Management Plan

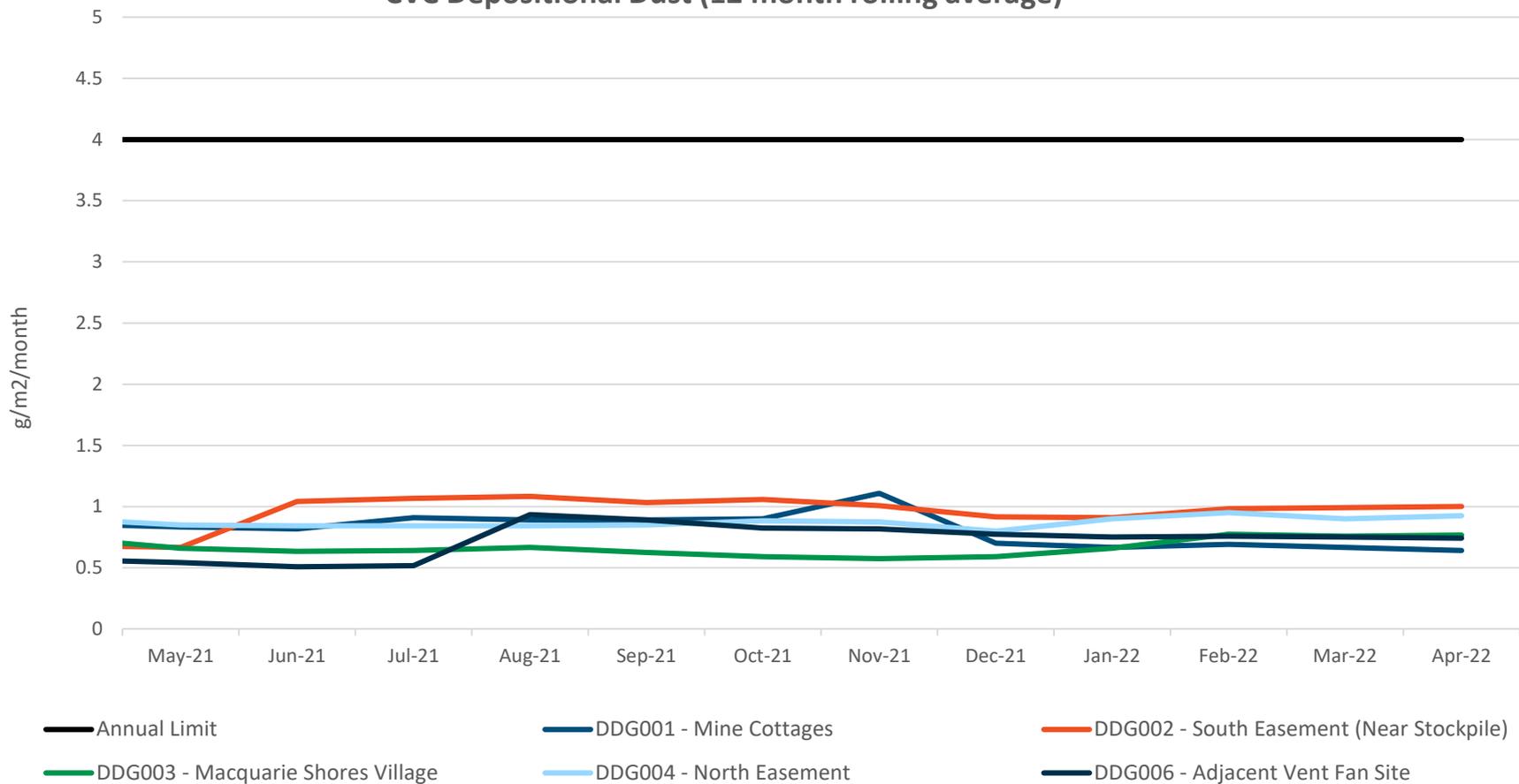
	Doc Owner:	Environmental Compliance Coordinator		
	Doc No:			
<b>Chain Valley Colliery and Mannering Colliery Noise Management Plan</b> (incorporating Noise Monitoring Program)				
Reviewer/s	Katie Teyhan (EMM Consulting Pty Limited)			
Authorised by:	Lachlan McWha (Delta Coal) Environmental Compliance Coordinator			
Date:	20/04/2022			
Review Date	Next Review Date	Revision No.	Document Owner	Page
20/04/2022	20/04/2022	16	Environmental Compliance Coordinator	Page 1 of 14
DOCUMENT UNCONTROLLED WHEN PRINTED				

	Doc Owner:	Environmental Compliance Coordinator		
	Doc No:			
<b>Chain Valley Colliery and Mannering Colliery Air Quality and Greenhouse Gas Management Plan</b> (incorporating an Air Quality Monitoring Program and Greenhouse Gas Efficiency Plan)				
Reviewer/s	Judith Cox – SLR Consulting – Principal Consultant			
Authorised by:	Lachlan McWha – Delta Coal Environmental Compliance Coordinator			
Date:	24/01/2022			
Review Date	Next Review Date	Revision No.	Document Owner	Page
24/01/2022	24/01/2022	16	Environmental Compliance Coordinator	Page 1 of 14
DOCUMENT UNCONTROLLED WHEN PRINTED				

# DEPOSITIONAL DUST – CHAIN VALLEY COLLIERY



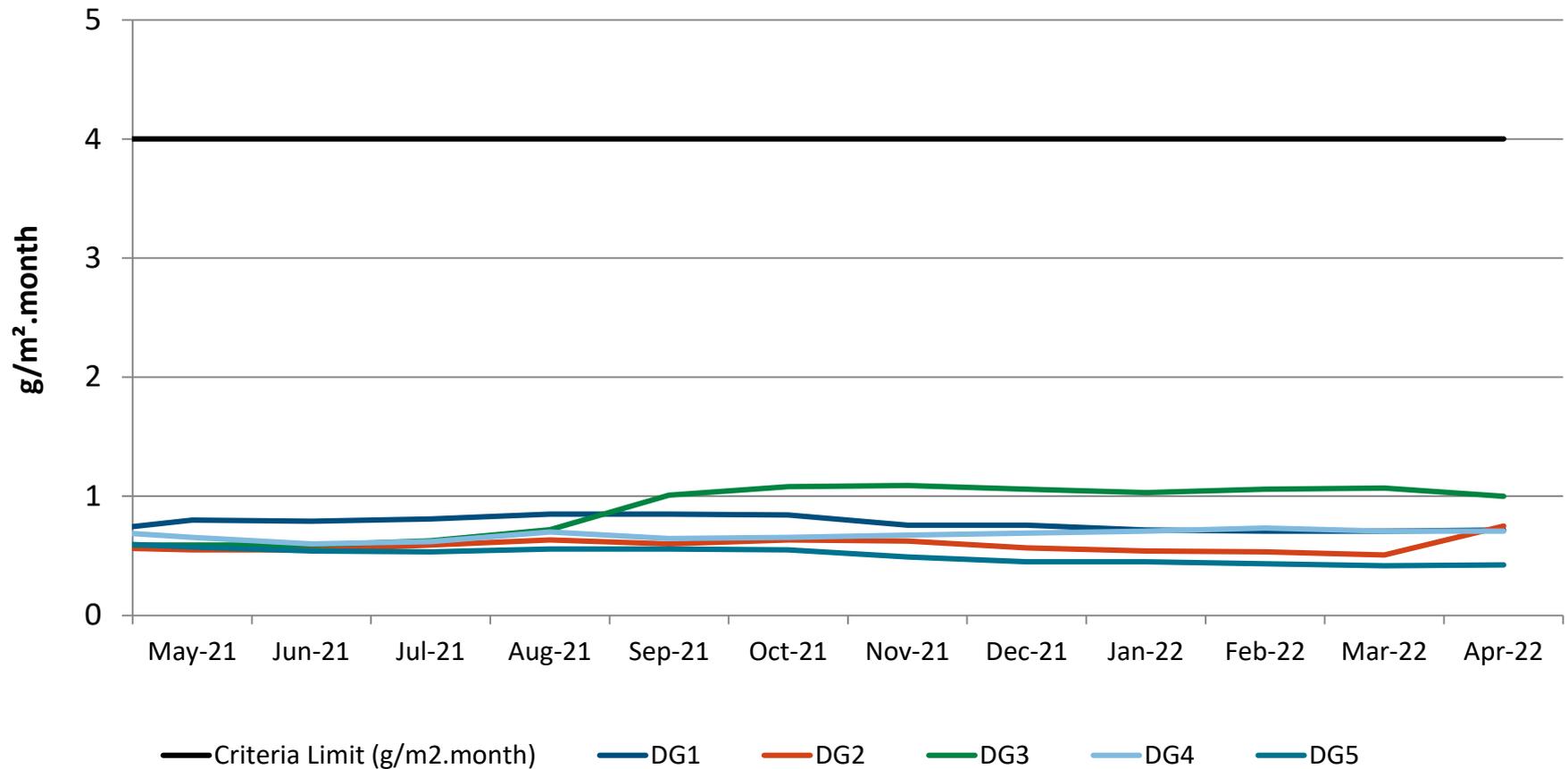
### CVC Depositional Dust (12 month rolling average)



# DEPOSITIONAL DUST – MANNERING COLLIERY



Mannering Colliery Depositional Dust (12 mth rolling avg)

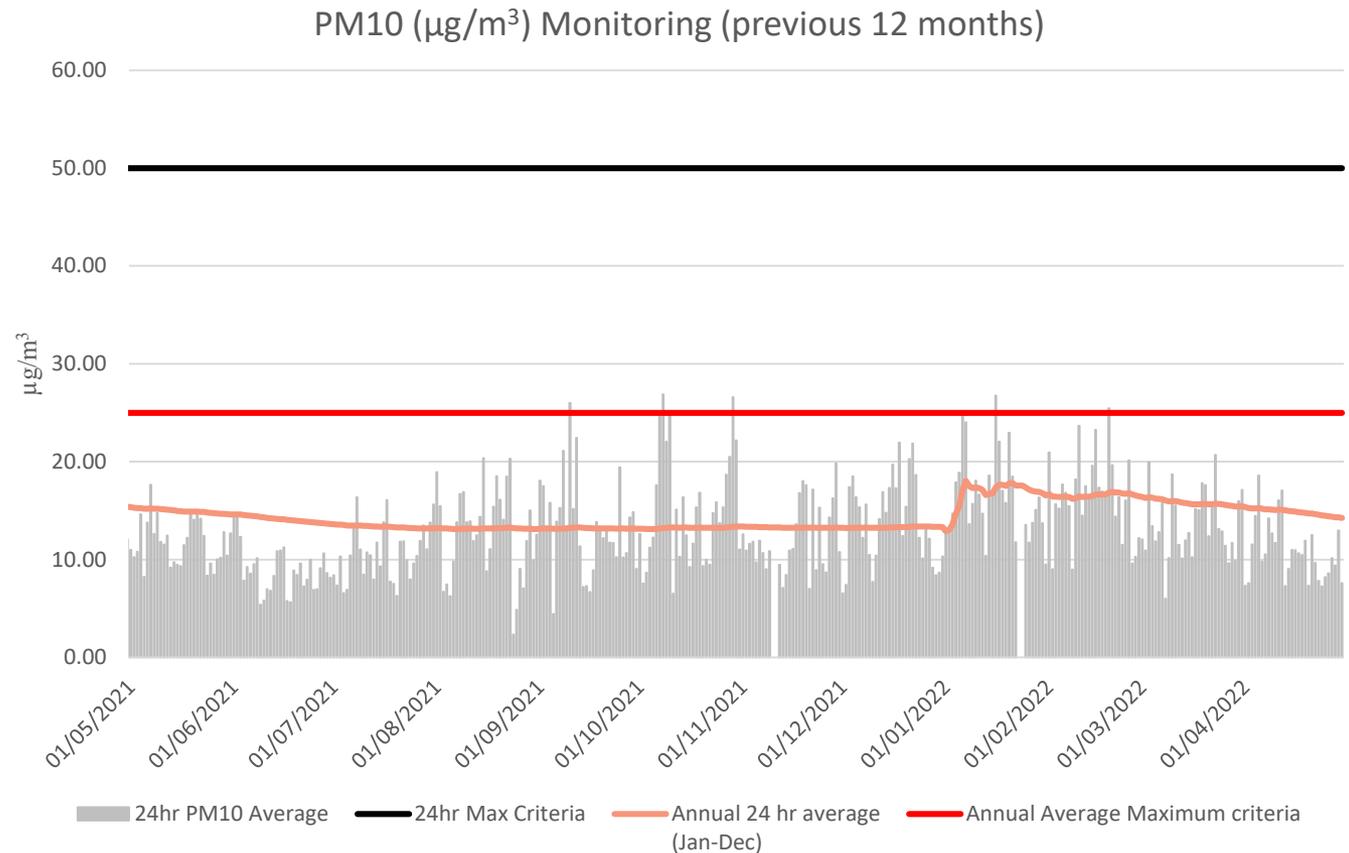


# PM<sub>10</sub> MONITORING



Delta Coals tapered element oscillating microbalance (TEOM) PM10 monitor is located at the Mannering Park Sewage Treatment Plan. No exceedances of the average annual or 24hr criteria have been observed within the last 12 months.

Note: annual average resets at calendar year.

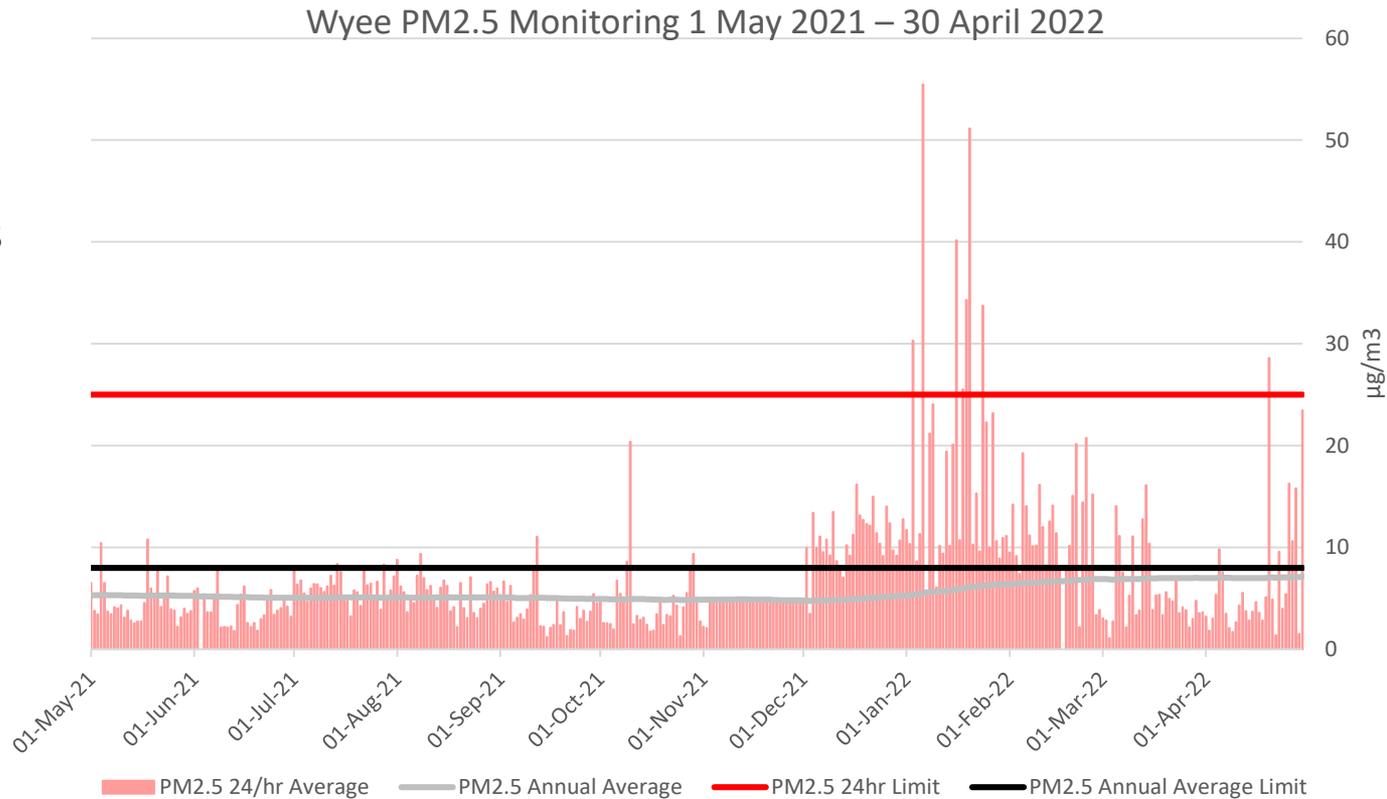


# PM<sub>2.5</sub> MONITORING

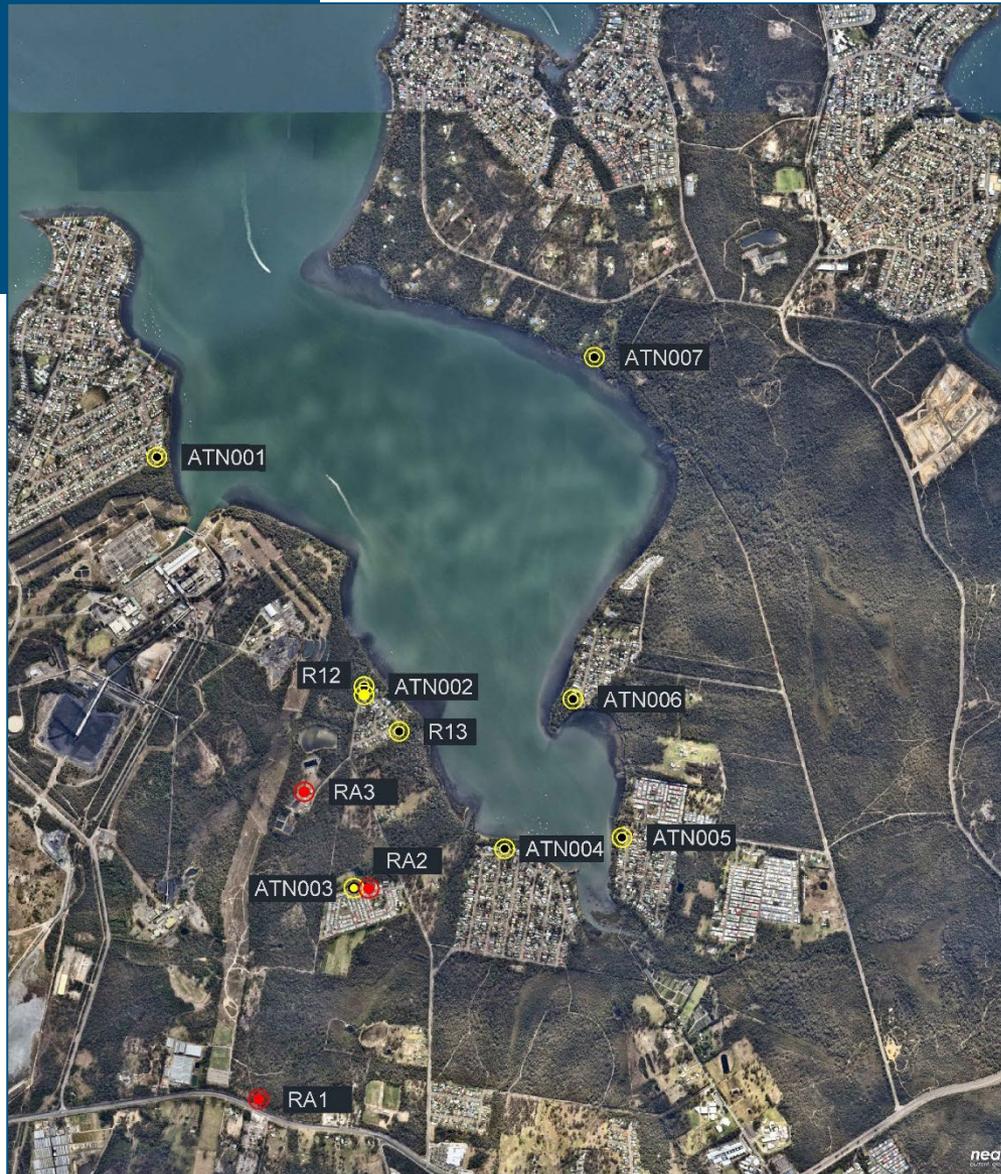


Delta Coal utilises Delta Electricity's Beta Attenuation Monitoring (BAM) PM<sub>2.5</sub> continuous monitor located in Wye.

On the 20<sup>th</sup> April 2022, there was an exceedance of 24/hr PM<sub>2.5</sub> average limits.



# Noise Monitoring Locations



Red = MC Monitoring Location Yellow = CVC Monitoring Location	DELTA COAL	SCALE:	DATE: 16 February 2022
	Noise Monitoring Locations	DRAWN: S Drinkwater	DRG NO: C1_noise_mon_cvc+man
		CHECKED: -	REV NO: 0
		SIGNED: -	SIZE: A4

# NOISE MONITORING MANNERING COLLIERY NOV-21 to JAN-22



Mannering Colliery monthly noise monitoring locations are detailed in the Mannering Colliery Noise Management Plan (available on the Delta Coal website).

There were no noise exceedances at MC for the reporting period (1 February 2022 to 30 April 2022)

Location	Date	Site Contributions, dB		Noise Limits, dB		Compliance status
		LAEQ	LAMAX (night measurement only)	LAEQ	LAMAX	
<b>February 2022</b>						
RA1	14/02/2022	IA	IA	41 <small>(very noise enhancing met conditions = +5dB)</small>	51 <small>(very noise enhancing met conditions = +5dB)</small>	Compliant
RA2		IA	IA	45 <small>(very noise enhancing met conditions = +5dB)</small>	50 <small>(very noise enhancing met conditions = +5dB)</small>	Compliant
RA3		IA	IA	44 <small>(very noise enhancing met conditions = +5dB)</small>	54 <small>(very noise enhancing met conditions = +5dB)</small>	Compliant
<b>March 2022</b>						
RA1	14/03/2022	IA	IA	36	46	Compliant
RA2	14/03/2022 & 15/03/2022	IA	IA	40	45	Compliant
RA3	14/03/2022	<30	IA	39	49	Compliant
<b>April 2022</b>						
RA1	04/04/2022	IA	N/A	36	46	Compliant
RA2		39	40	40	45	Compliant
RA3		<36	<36	39	49	Compliant

# NOISE MONITORING CHAIN VALLEY COLLIERY Q4 2021



Chain Valley Colliery Q1 noise monitoring was undertaken on the 14<sup>th</sup>, 15<sup>th</sup> and 18<sup>th</sup> March 2022.

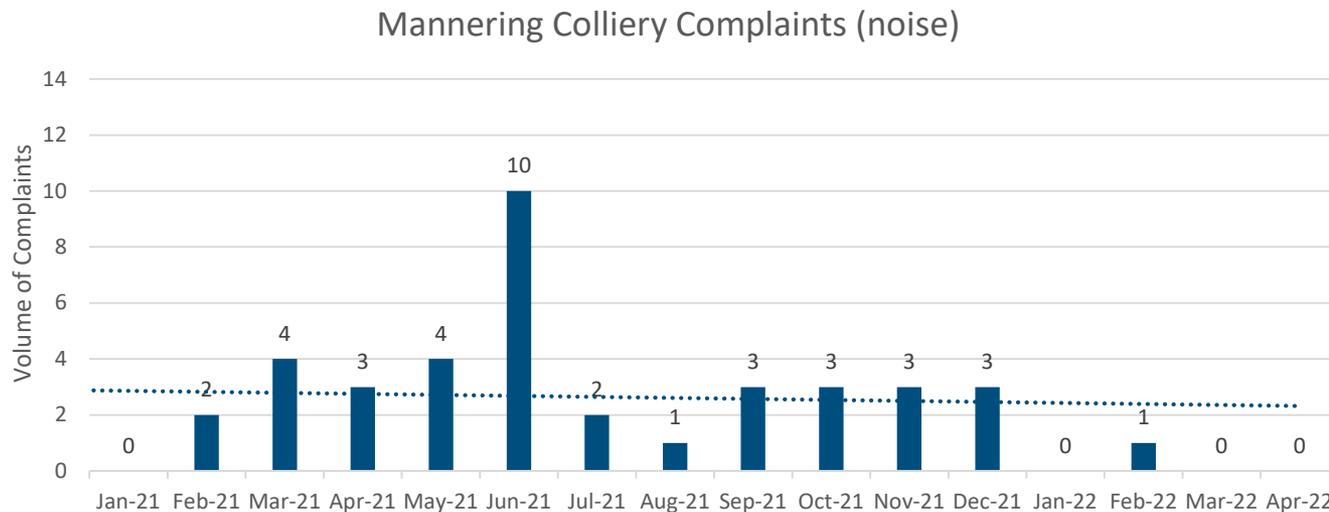
9 Locations are monitored during day, evening and night with timeframes in accordance with the NSW EPA's Noise Policy for Industry.

In Q1 2022, Chain Valley Colliery was inaudible at all monitoring locations, with exception to ATN007 (ventilation fan site). The maximum recorded result for each location is presented adjacent.

Monitoring Point	Site Contributions, dB		Noise Limit		Compliance Status
	LA <sub>EQ</sub> (15 min)	LAMAX	LA <sub>EQ</sub> (15 min)	LAMAX	
<b>Chain Valley Colliery Q1 2022 (14, 15 and 18 March 2022)</b>					
ATN001	In-audible (IA)	IA	38	45	Compliant
ATN002	IA	IA	49	54	Compliant
ATN003	IA	IA	36	45	Compliant
ATN004	IA	IA	35	45	Compliant
ATN005	IA	IA	35	45	Compliant
ATN006	IA	IA	37	45	Compliant
ATN007	44 (42+2 LFN)	42	46	46	Compliant
R12	IA	IA	49	53	Compliant
R13	IA	IA	43	49	Compliant

## Community Complaints between 1 Nov-21 and 31 Jan-22

- Chain Valley Colliery:
  - Nil community complaints received in period.
- Mannering Colliery:
  - 1 noise complaint received in period for the 14<sup>th</sup> February 2022;
  - All complaints received within previous 12 months pertain to Noise only;



# INDEPENDENT ENVIRONMENTAL AUDIT 2022



Independent audits were commissioned and undertaken in the reporting period by GHD (consultants). The focus of the audit is Delta Coals compliance with development consents and environmental licenses between 2019 and 2022, as well as, completion of previous audit actions.

The audits were undertaken for Chain Valley and Mannering Colliery's. The audits have not yet been finalised and recommendations and actions from the audit will be provided to DPIE with commitment from Delta Coal.



# QUESTIONS

Next Meeting: 17<sup>th</sup> August 2022 at 2:00pm