

**MOOLARBEN COAL OPERATIONS - COMMUNITY CONSULTATIVE COMMITTEE
MEETING No. 62**

Date: Tuesday 6th September 2022
Time: 3:59pm
Location: Moolarben Coal Training Centre
Attendance: Independent Chairperson
Lisa Andrews (LA)

Community Members

Dr Julia Imrie (JI)
Bev Smiles (BS)
Cr Katie Dicker (KD) – MWRC Delegate

Moolarben Coal Operations

Brian Wesley (BW)
Trent Cini (TC)
Rebecca Shanks (RS)
Morgan Yeatman (MY)
Clarine Fourie (CF)
Mat Croake (MC) {Minute taker}

Apologies

Aleshia Lonsdale (AL)
Helen Ungaro (HU)
David Stokes (DS)
David Lowe (DL)
Mayor MWRC - Cr Des Kennedy (DK)

Meeting 62 Agenda and Presentation and Meeting 61 Minutes were provided to all meeting attendees.

A site tour was attended by CCC members from 2:30pm – 3.45pm

1. Introduction and Welcome

Lisa Andrews (LA) opened the meeting and welcomed all attendees to the Moolarben Coal Operations (MCO) Community Consultative Committee (CCC). LA expressed the CCC's appreciation for MCO efforts in providing the site tour before the CCC meeting.

TC introduced Natalie Gardiner *Senior Environment and Community Advisor* and Clarine Fourie *Environment & Community Officer* to the CCC as new members of the MCO Environment and Community Department.

LA advised there are no changes to the declarations by the CCC members. LA advised she will provide declaration forms to MCO (**Action 1**).

2. Apologies

Helen Ungaro (HU)

Aleshia Lonsdale (AL)

David Stokes (DS)

David Lowe (DL)

Mayor MWRC - Cr Des Kennedy (DK)

3. Business Arising from Previous Finalised Minutes

LA confirmed previous meeting minutes finalised and distributed on 4th of July 2022.

BS asked if MCO have been consulting with the New South Wales Environment Protection Agency (NSW EPA) regarding increasing water discharge volumes during wet weather. TC confirmed MCO's Environmental Protection License (EPL) does allow for approved discharge limits to be exceeded during prolonged wet weather following written approval from the EPA and that MCO are in consultation with the EPA. BS asked for further clarification on the time periods the additional discharges would be allowed to be released. TC explained the release time periods are dependant on current weather conditions at the time of release and water storage levels at MCO.

TC informed the members that the previous action items will be addressed during the presentation. LA advised she will distribute MCO's response to the MDEG letter tabled at CCC Meeting 61 (**Action 2**)

Actions from Meeting 61:

1. *Provide BW with a Declaration of pecuniary or other interests from.*
2. *Update the SW slides to identify sites that have compliance trigger points*
3. *Provide an OC3 Extension Project newsletter to the CCC Chair when available*
4. *Provide an update on the blast overpressure exceedance at the next CCC meeting*
5. *Provide MDEG letter tabled during General Business to MCO for response*

No further actions or business arising from CCC Meeting 61.

Correspondence as sent with the Meeting Notice on 25/08/22:

- 10/6/22 – Email to MCO with scanned letter from MDEG. Acknowledgement received from MCO.
- 17/6/22 – Draft minutes sent to CCC for review (comments received back & incorporated into minutes).
- 24/6/22 – Email from JI advising that there was a discrepancy in the Annual Review Report (*Page 182 Figure 3-h Ulan Seam Composite Hydrograph*). Emailed TC the same day and correct graph provided & referred to JI.
- 4/7/22 – Email to members with the final CCC minutes, the blast fume document and copy of letter tabled by MDEG.
- 8/7/22 – Email to members regarding the Pink Survey Flagging - Ulan Road.

- 15/7/22 – Email from TC advising of the approval of the Moolarben UG4 Extraction Plan. This information forwarded to members on 16/7/22.
- 1/8/22 – Email from JI to MCO with questions regarding the UG4 Extraction Plan.
- 10/8/22 – Email to members with a project update & newsletter.
- 18/8/22 – Email to members with the Rehabilitation Management Plan for consultation & comment back by 16/9/22.
- 25/8/22 – Email to members with the Meeting Notice & Agenda for this CCC.

CCC Update Presentation

TC welcomed CCC members and provided an update on COVID-19 management actions.

MC provided an update on the 2022 Community Support Program (CSP) and the 2023 CSP.

TC provided an operations update and general comments on current mine progress. TC advised the CCC The Independent Water Quality Study (IWQS) is still with the Department of Planning and Environment (DPE). TC provided an overview of the monitoring bore network in Underground 4 (UG4) and status of installation as required by the UG4 Extraction Plan. JI commented she was relieved MCO had taken on almost all the Independent Advisory Panel for Underground Mining's (IAPUM) recommendations. JI asked what type of bores are going to be installed, open hole piezometers or vibrating wire piezometers (VWP) as this was one of IAPUM queries. TC advised a combination of both VWP and open hole piezometers will be installed in accordance with the approved UG4 Extraction Plan.

JI asked if the required monitoring bores were installed before Longwall mining in UG4 commenced. TC advised the required monitoring bores were installed before UG4 Longwall mining commenced with the balance of monitoring bores to be installed before the end of June 2023.

BS asked when MCO is likely to start mining in Underground 2 (UG2). TC informed CCC members that Longwall mining in UG2 will likely commence after the completion of mining in UG4. BW advised the CCC that development may start in UG2 as early 2023.

JI asked for the current water make from underground mining. TC advised the current water make at MCO Complex is approximately 180 Litres per second (15.5 ML/day). JI asked if that total was coming from UG4. TC advised the value is a combination of all UG dewatering including water supply, inflows, and recirculation.

TC addressed CCC meeting 61 Action No. 4 and provided the CCC with an overview of the blast incident. TC advised the overpressure level was 124.1 dB at MCO's Ridge Road blast monitor. TC advised MCO reported the incident to the EPA, DPE, and Resources Regulator (RR). TC further explained the additional measures MCO have undertaken to prevent or mitigate against a re-occurrence.

BS asked if MCO's ability to mine is being impacted by the rainfall. TC advised the CCC that MCO operations are currently impacted by the above average rainfall received, with water stored in the open cut pits. BW confirmed both the open cut and underground operations are currently being impacted. JI asked if any of the sediment dams at MCO have spilled in the recent rain events. TC advised MCO sediment dams have continued to be managed during the rain events and have not spilled. TC also explained to the CCC where the majority of MCO's sediment dams are located around the MCO Complex. BS asked if MCO has clean water diversion drains in place. TC confirmed MCO have a number of clean water diversions across the MCO Complex.

TC provided an exploration update. BS asked how many holes have been drilled in ML1605 year to date. TC advised he will investigate and advise at CCC (**Action 3**). JI asked if the exploration update map in the CCC presentation includes correct land ownership as the State Conservation Area (SCA) along the river to The Drip gorge is not shown. TC advised the map includes some land ownership. TC acknowledged the SCA.

MY provided an update on environmental monitoring. MY informed the CCC that since CCC meeting 61 all routine environmental monitoring at MCO was completed and in compliance with relevant approved management plans.

BS asked what is the average volume of discharge. TC advised the daily discharge volume ranges from approximately 8 to 9 ML/Day and MCO are currently working towards an increase to approximately 10 to 15 ML/day. TC explained some of the constraints the Water Treatment Plant (WTP) has experienced including long lead times on parts supply.

Jl advised the CCC and MCO she is seeing an increase in bank erosion along some parts of the Goulburn River downstream on her property.

MY advised the CCC the key on the monitoring graphs are colour coded to the corresponding data set on the graphs. MY advised the monitoring results for discharge water are generally consistent and in compliance.

MY addressed CCC meeting 61 Action No. 2 and advised the CCC that the Surface Water (SW) monitoring sites on the legend that have an asterisk (*) adjacent to their name have investigation trigger levels.

Jl commented on the SW12 Total Suspended Solids (TSS) value. TC confirmed the location of SW12 and its interaction with Sportmans Hollow Creek. Jl also commented that Sportmans Hollow Creek can be a turbid creek due to the erosive disperse soils in that catchment.

MY advised all noise monitoring was completed and compliant with the relevant approved noise management plan since CCC meeting 61.

MY provided an update on complaints.

MC provided a rehabilitation and offset management update. BS asked how many hectares are to be revegetated on the Dun Dun Biodiversity Offset Area (BOA). MC advised approximately 500ha however is dependant on existing natural regeneration. BS asked if the purpose is to connect existing remnant vegetation on the BOA. TC confirmed and provided an overview of the process undertaken for the Dun Dun BOA.

BS asked if the BOA's are inspected by the relevant federal authorities. TC confirmed MCO has had site inspections completed by the Department of Climate Change, Energy, the Environment and Water (DCCEEW). (Previously, Department of Agriculture, Water, and the Environment (DAWE)).

TC provided information on the proposed Underground 2 Modification. BS asked if UG2 is approved. TC confirmed UG2 is an approved underground mine, however the current modification has not been approved. Jl commented the likely timeframe for Longwall mining in UG2 will likely be around 2028. BW confirmed at this stage that is a likely timeframe.

TC provided an update on the Open Cut 3 Extension Project. Jl asked if the location of the haul roads will be within 200m of the creeks. TC confirmed that haul roads and other Infrastructure will be within 200m of the creeks.

TC advised the CCC that the Open Cut 3 Extension Project would include back filling the current approved final void in OC3. BS expressed her appreciation of removing the final void and believes it is a better final land use outcome for the landscape.

Jl advised there is natural spring adjacent to the basalt plug in the south of the OC3 Extension Area. TC confirmed spring and seeps locations as previously provided by Jl have been included in the ground water census for the OC3 Extension Project. BS asked if the Community Information Sessions held at the Cooyal Hall were well supported by the Cooyal community. TC advised approximately 20 to 25 people from the Cooyal community attended. BS advised MCO that Peabody – Wilpinjong Coal Mine (WCM) are extending their noise monitoring network into the Cooyal area. TC advised the CCC that MCO and WCM have been communicating on the WCM monitoring network expanding.

TC provided an employment update. BS asked if the applicants were local to MCO. TC advised that generally the applicants are local to MCO however, MCO does receive applications from people living further away.

4. General Business

BS asked if access on Ringwood Road over the Goulburn River at O'Briens Crossing was discussed at the recent three mines meeting. BS believes it is a public access issue. TC confirmed it was discussed. BS expressed her concern at the adequacy of the original assessment of impacts to Ringwood Road public access from discharge water from all three mines during wet periods.

BS asked if MCO have a Climate Change Risk Management Plan. TC advised MCO does not have a specific Climate Change Risk Management Plan however, MCO does have other management plans that include control and response measures for various natural disasters including bushfire and flooding.

BS asked if water storages across MCO complex continue to increase, is MCO going to increase its discharge limit. TC advised MCO will continue to discharge at approved volumes, and if required water would continue to be stored in mining voids.

JI commented some of the findings of the IAPUM's report completed as part of the UG4 extraction plan were in line with her opinions raised in earlier meetings, in particular ".....the Panel considered that there was insufficient evidence to support conclusions that 'the Drip' is perched and disconnected from the regional water table.'"* JI expressed her ongoing concern of potential impacts to The Drip and the Goulburn River from underground mining within 2 kms of the river. JI also commented she was relieved MCO had adopted recommendations for additional monitoring in UG4 from the IAPUM report.

** Note: Postscript by Chair – for context, the full statement by the IAPUM (Panel) was: "The Panel's assessment is that the current Extraction Plan for LW401 to 408 is extremely unlikely to impact the water supply at The Drip. However it is also the Panel's opinion that there is no current evidence to support the statement (AGE 2021) that: 'the perching of groundwater within the Triassic sandstone associated with The Drip is effectively disconnected from the underling regional watertable'."*

JI advised MCO that to her knowledge there is no access to the Goulburn River from Saddlers Creek road downstream of Corner Gorge except across her property and MCO would need to discuss access with her in regards to installing a river monitoring point in that area. This was noted by MCO and follow up discussions with JI will continue.

5. Next Meeting: 29th November 2022, on site at 4:00pm.

Meeting closed at 5:10pm with LA thanking members for their attendance and participation.

Action Items:

Item	Action	Responsibility
1	Provide MCO with governance forms for completion and return	CCC Chairperson
2	Distribute MCO's response to the MDEG letter tabled at CCC Meeting 61	CCC Chairperson
3	Provide number of exploration holes drilled in ML1605 in 2022	MCO

Community Consultative Committee Update

September 2022

Moolarben Coal Operations



COVID – 19 Update

- Yancoal continues to proactively manage and monitor the situation.
- Site access requirements including;
 - Temperature screening,
 - Pre-Screening forms or 'App' prior to attending the site, and
 - Continued enhanced cleaning.



2022 Community Support Program (CSP)

Yancoal-Moolarben Coal CSP Events Support during 2022 include;

- Sponsor of the Mudgee Running Festival Marathon
- Visit from the Dubbo Clontarf Academy
- Funding to support the Mudgee VRA
- Continued support for the Westpac Rescue Helicopter



2023 Community Support Program (CSP)

2023 Yancoal-Moolarben Coal CSP



NEED FUNDING TO HELP IMPROVE OUR LOCAL COMMUNITY?

Yancoal Community Support Program call for applications

Moolarben Coal Operations is a proud and active member of the local community. Yancoal's 2023 Community Support Program offers community groups the opportunity to apply for funding to support projects events and initiatives that help make a genuine positive difference to the Mid-Western Region.

If you have a project or idea with the potential to benefit others across the areas of health, community, environment, arts, culture, education or training, please visit: www.moolarbencoal.com.au

Applications close on 4th November 2022



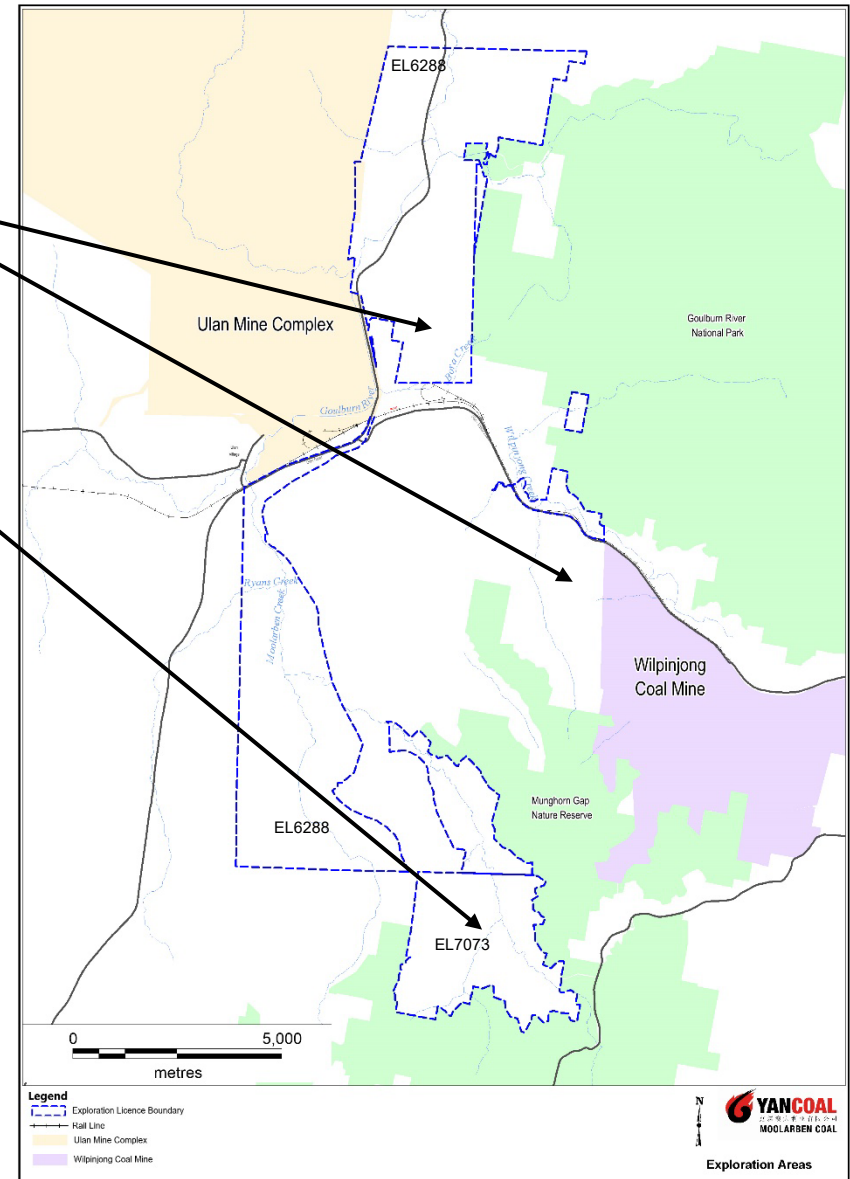
Operational Update

- Open cut operations in OC2, OC3 & OC4.
- UG1 Longwall mining now completed.
- Longwall mining in UG4 commenced.
- Continued underground development in UG4.
- IWQS subject to DPE approval.
- UG4 EP Implementation
- Rehabilitation Management Plan and Forward Plan



Exploration Update

- Drilling – programs commenced in ML1605 and planned to commence ML1715
- Drilling is planned to continue in EL7073.
- Rehabilitation and monitoring activities have continued during the period.



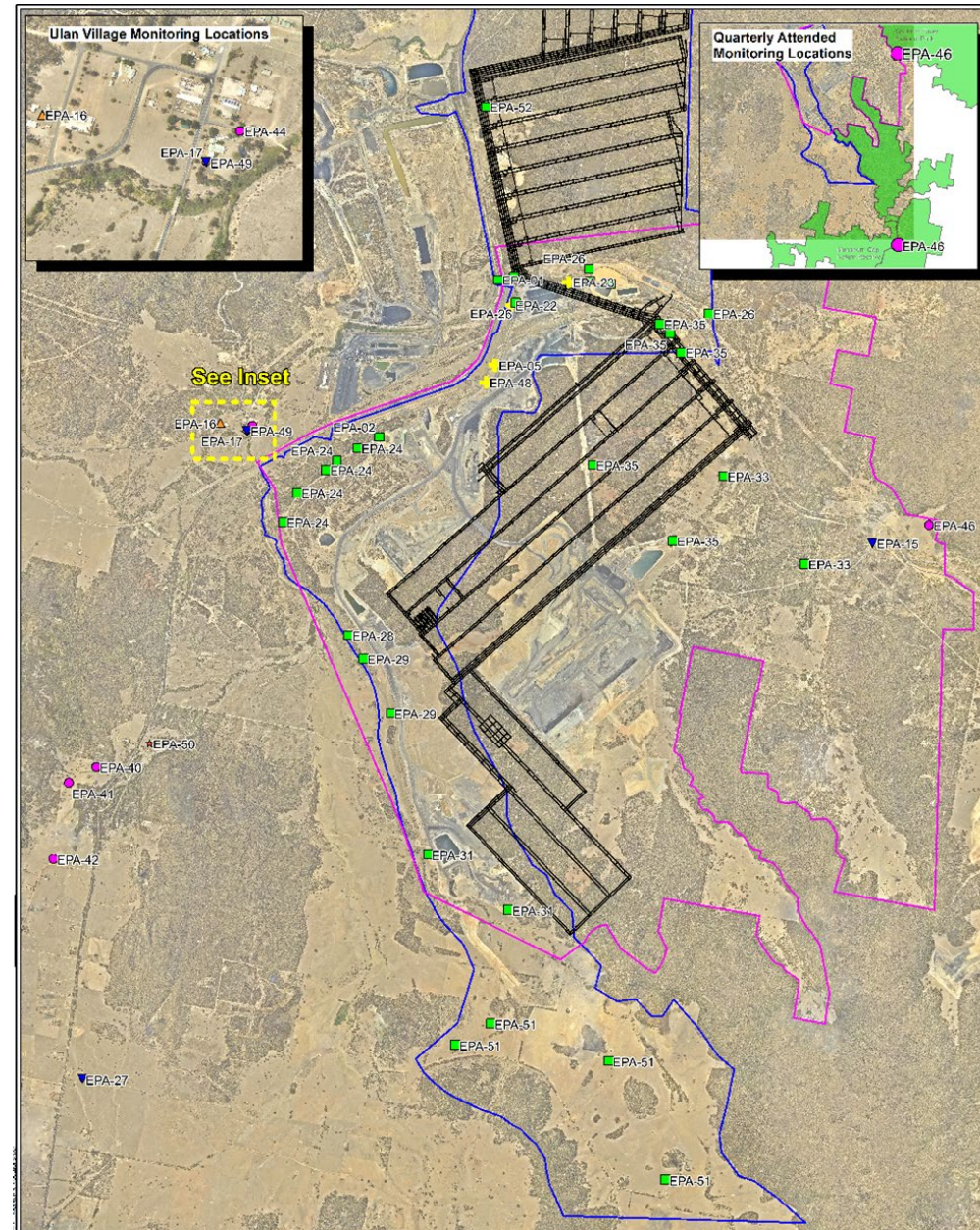
Environmental Monitoring

Monitoring network

- Water;
- Air Quality;
- Blasting;
- Noise;
- Meteorology.

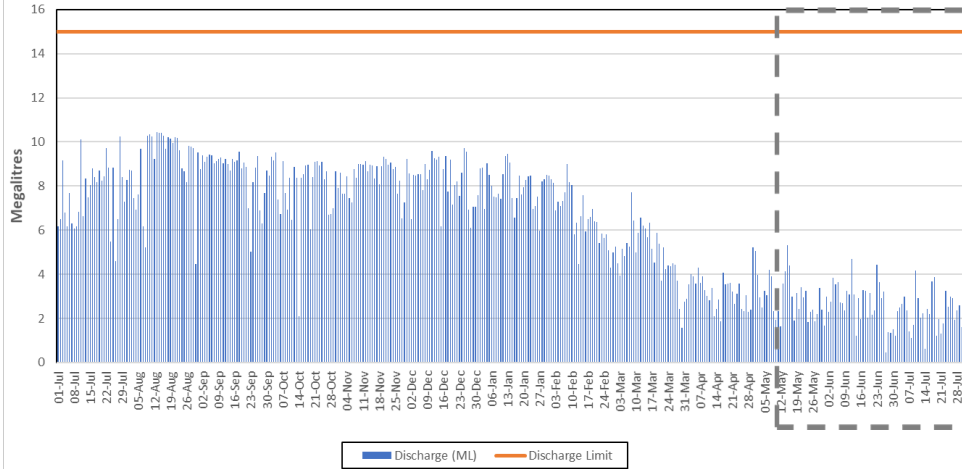
EPL Monitoring Locations

- | | | | |
|---|---------------------------|---|---------------------------------------|
| ▼ | Real Time TCOM | — | Approved Underground Workings |
| + | Effluent Monitoring | □ | Stage 2 Disturbance Approval Boundary |
| ■ | Water Discharge Point | □ | Stage 1 Disturbance Approval Boundary |
| ● | Attended Noise Monitoring | | |
| ◆ | Blast Monitoring | | |
| ★ | Weather Station | | |
| ▲ | PM10 Monitoring | | |

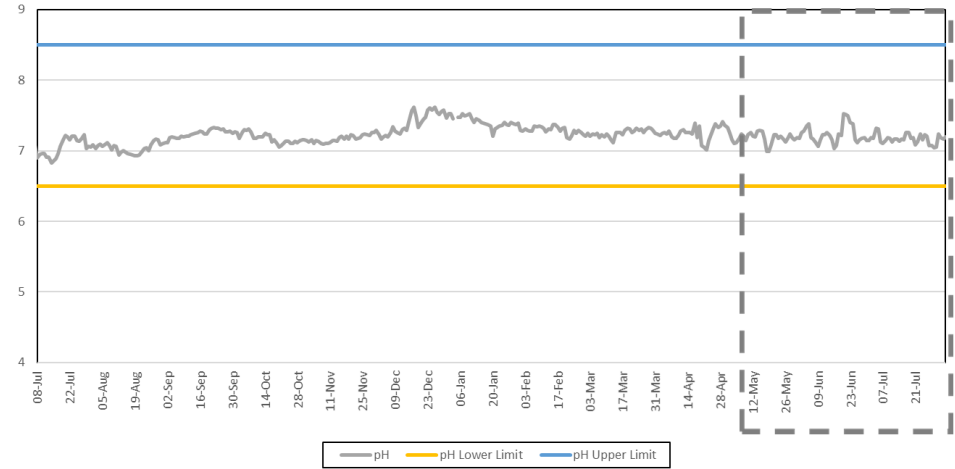


Water Release

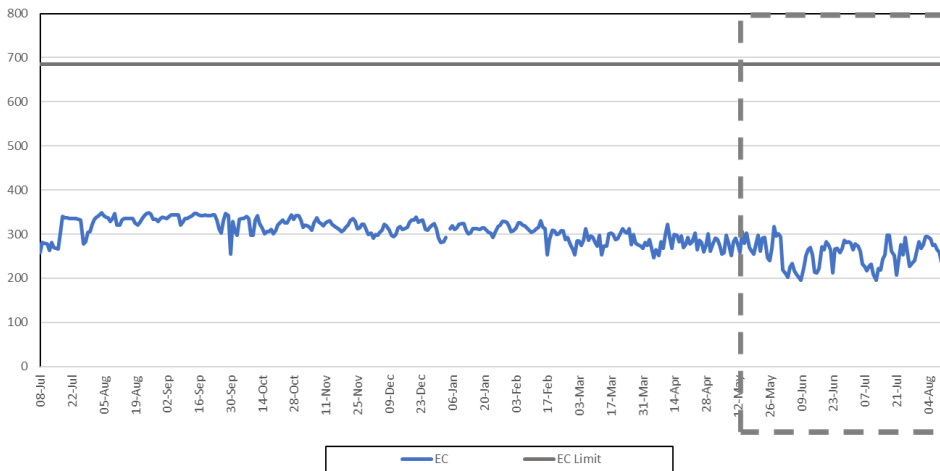
EPA 1 Daily Discharge Volumes
July 2021 - July 2022



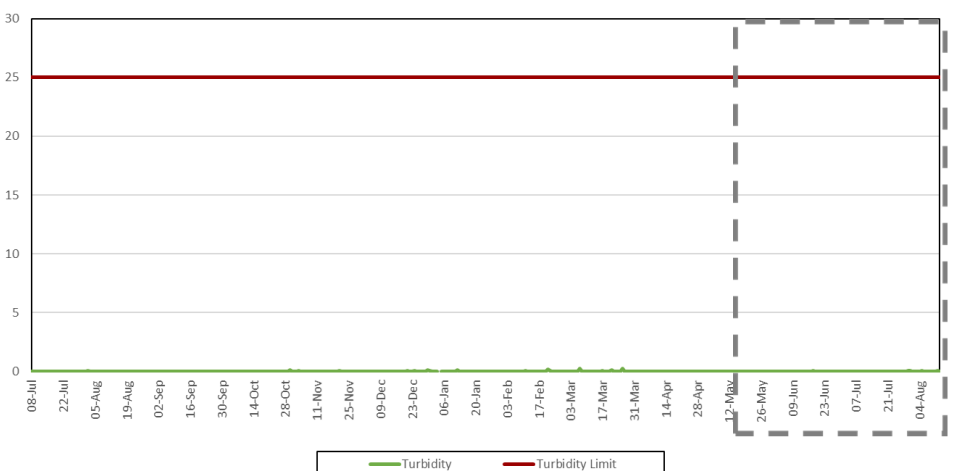
EPA 1 Daily Average pH
July 2021 - July 2022



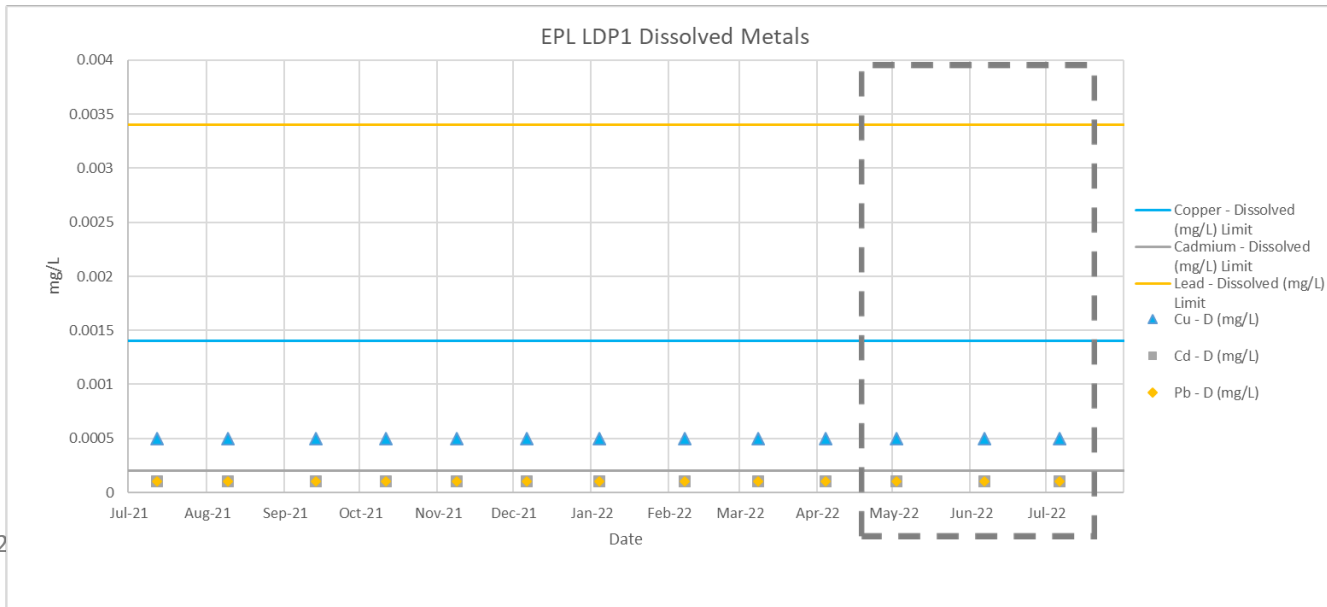
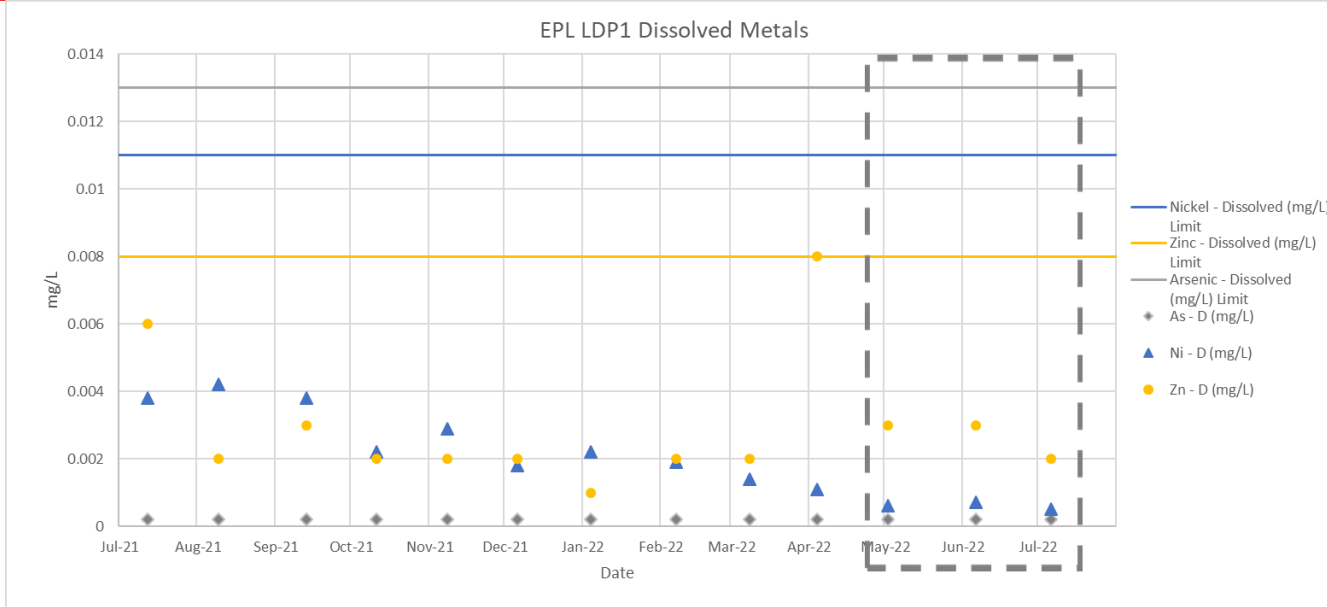
EPA 1 Daily Average EC
July 2021 - July 2022



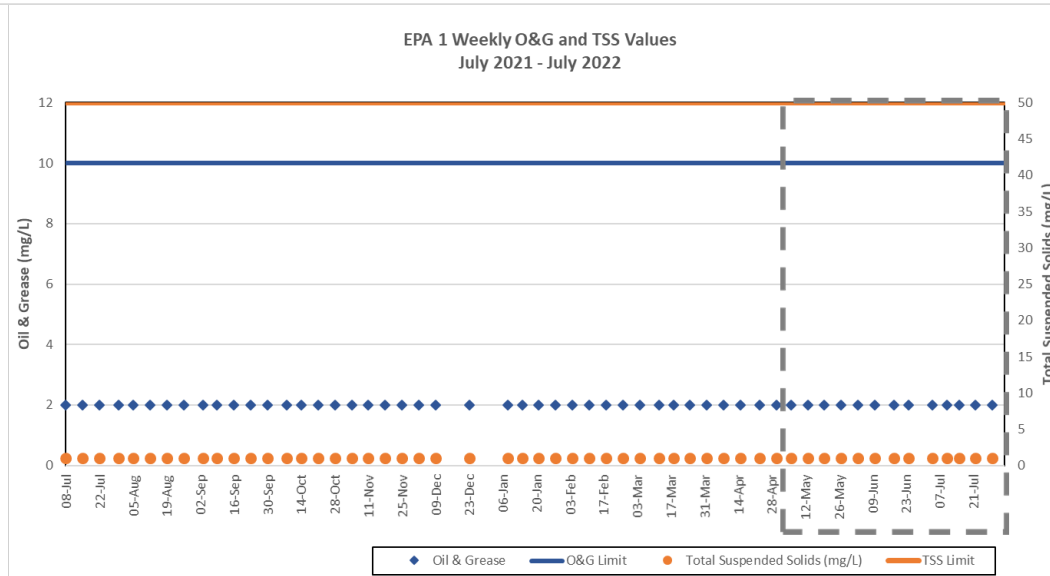
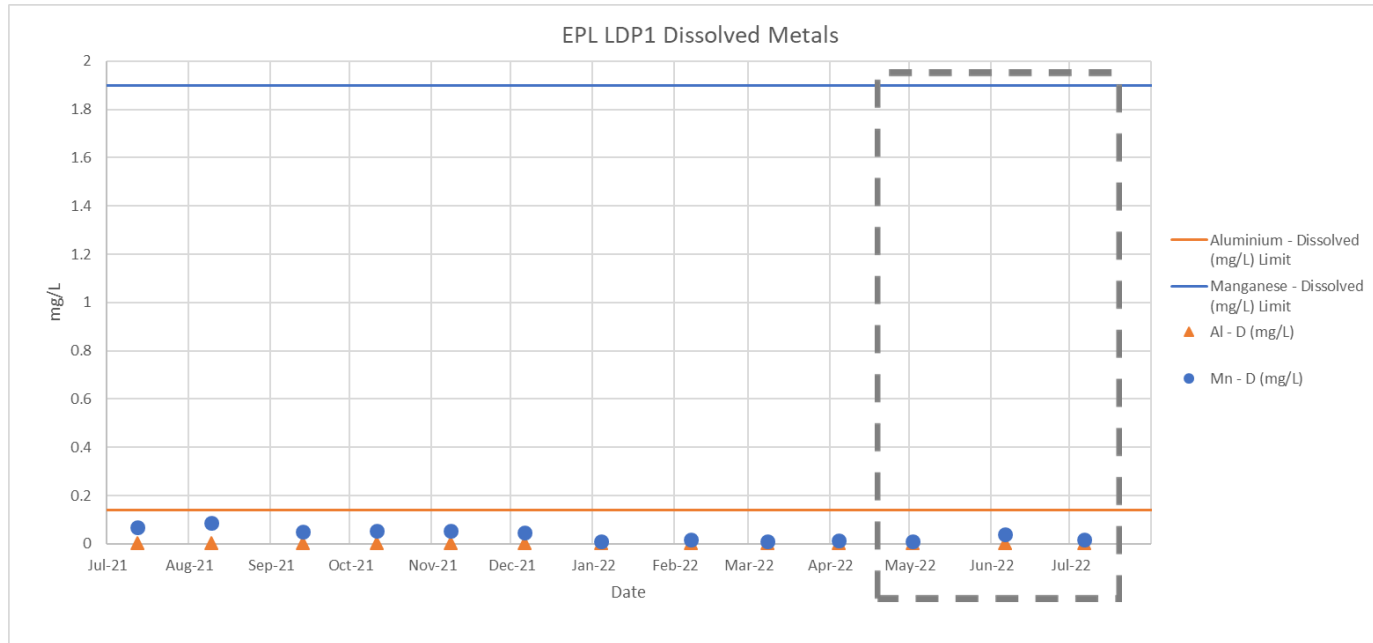
EPA 1 Daily Average Turbidity
July 2021 - July 2022



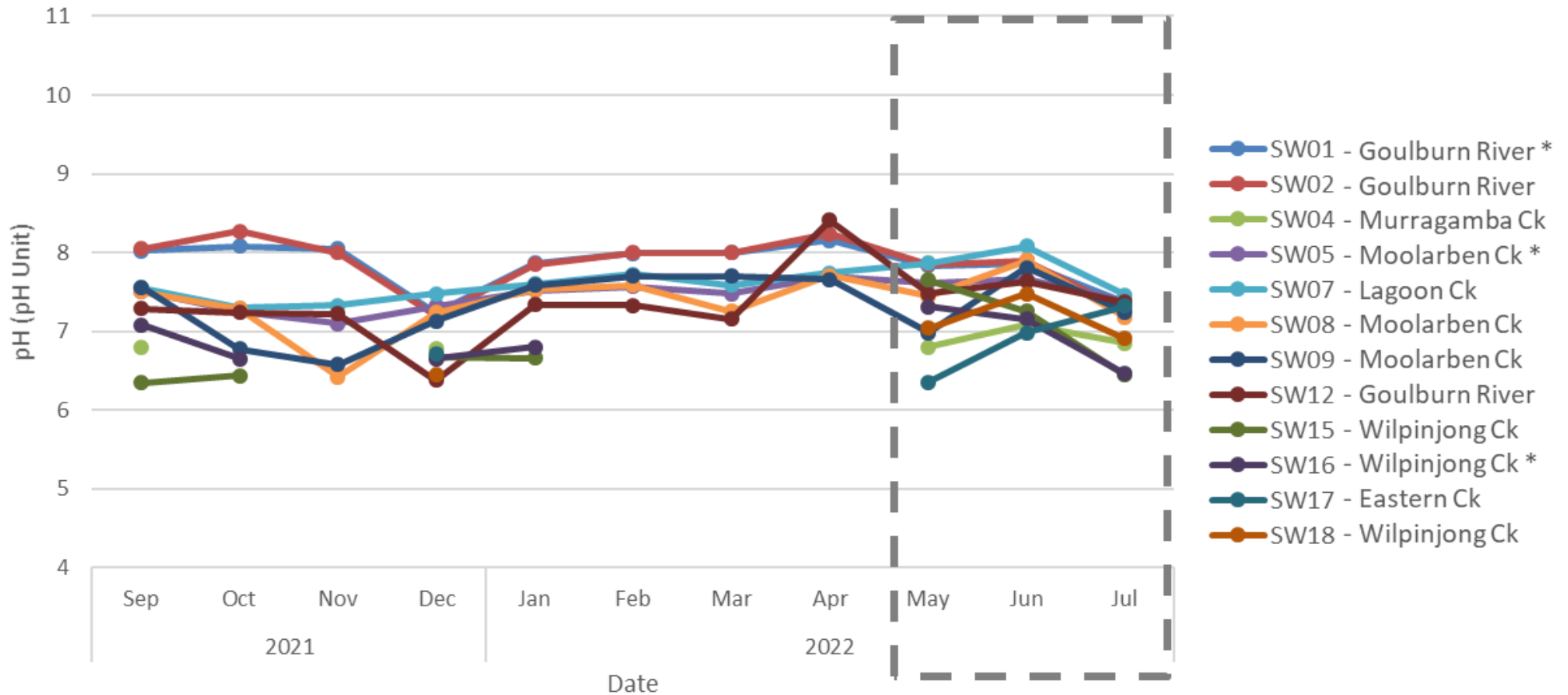
Water Release



Water Release

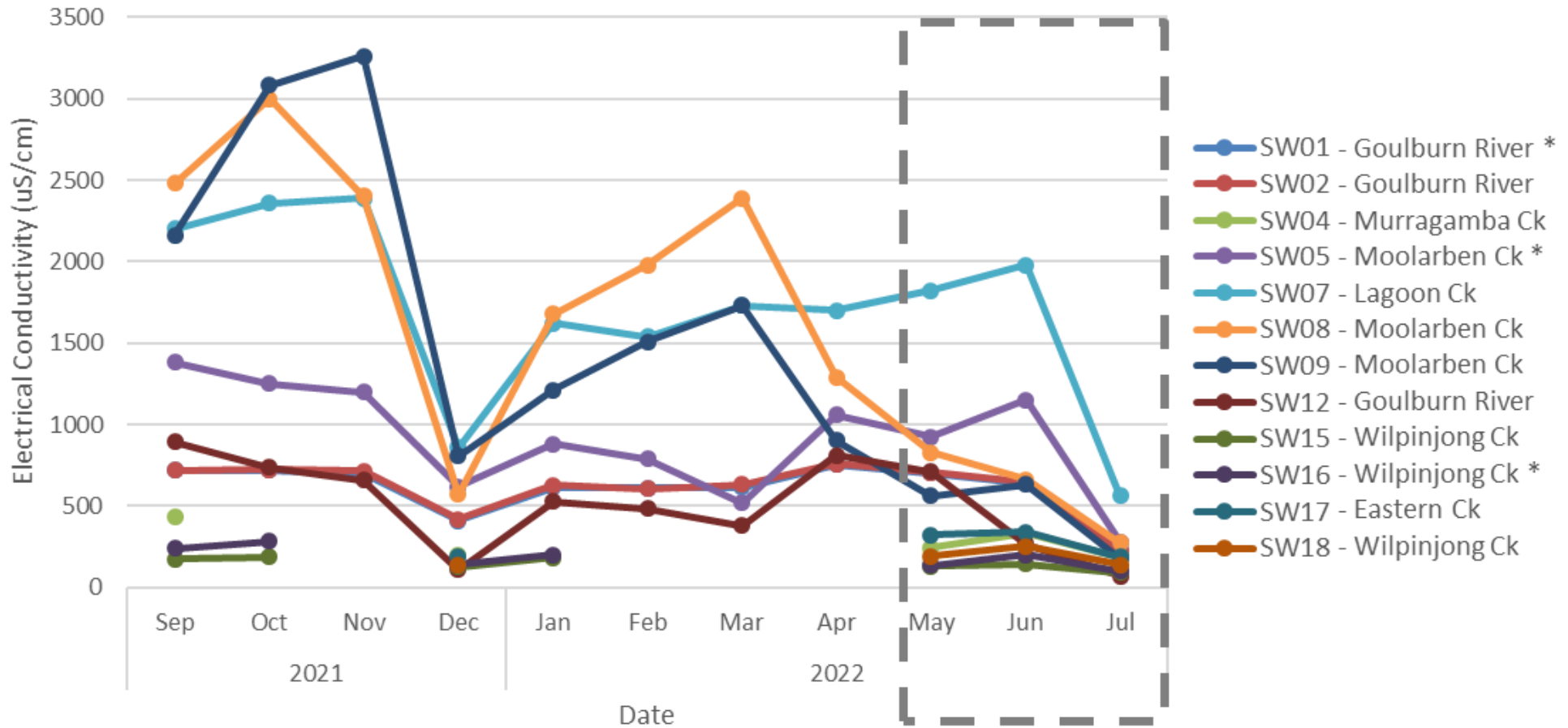


Water Quality - pH



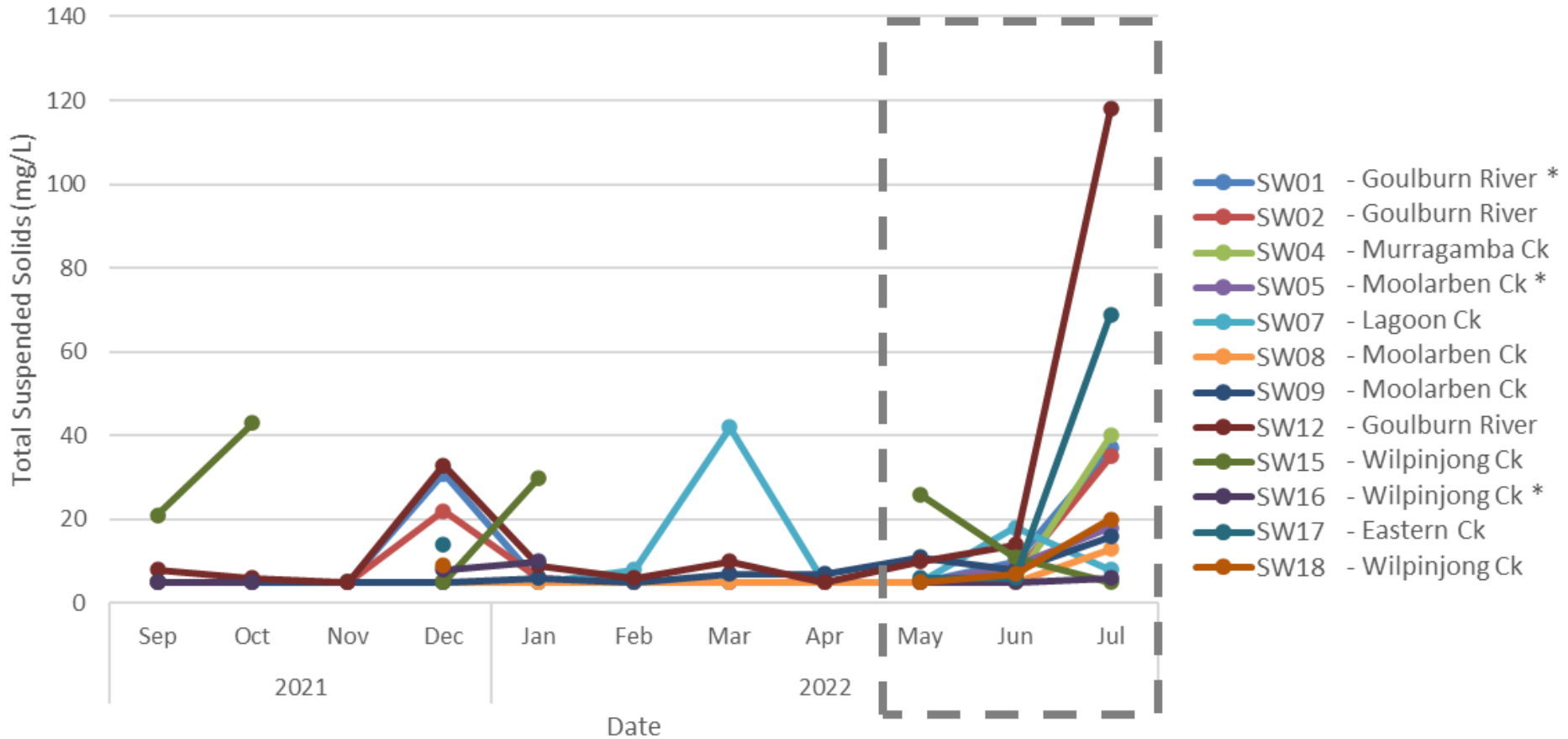
* Monitoring Locations with associated trigger investigation levels as per the Surface Water Management Plan

Water Quality - EC



* Monitoring Locations with associated trigger investigation levels as per the Surface Water Management Plan

Water Quality - TSS



* Monitoring Locations with associated trigger investigation levels as per the Surface Water Management Plan

Air Quality

Site	July 2021 PM10 Annual Average ($\mu\text{g}/\text{m}^3$)	July 2022 PM10 Annual Average ($\mu\text{g}/\text{m}^3$)	Air Quality PM10 Annual Average Criteria ($\mu\text{g}/\text{m}^3$)
TEOM 01	13.3	11.9	25.0
TEOM 07	12.1	11.2	25.0
TEOM 04	9.3	7.4	25.0

Site	July 2021 PM2.5 Annual Average ($\mu\text{g}/\text{m}^3$)	July 2022 PM2.5 Annual Average ($\mu\text{g}/\text{m}^3$)	Air Quality PM2.5 Annual Average Criteria ($\mu\text{g}/\text{m}^3$)
TEOM 07	5.1	3.8	8.0

Monthly monitoring reports are available on our website:

www.moolarbencoal.com.au/page/environment/environmental-monitoring/

Noise Monitoring

- All monthly & quarterly attended noise monitoring within criteria.
- Continued implementation of:
 - Planning controls - scheduling
 - Engineering controls - attenuation
 - Operational controls - bunds/screens
 - Real-time monitoring triggers
 - Real-time response protocols

LEGEND

- Exploration Licence Boundary
- Mining Lease Boundary
- Rail Line
- Watercourse

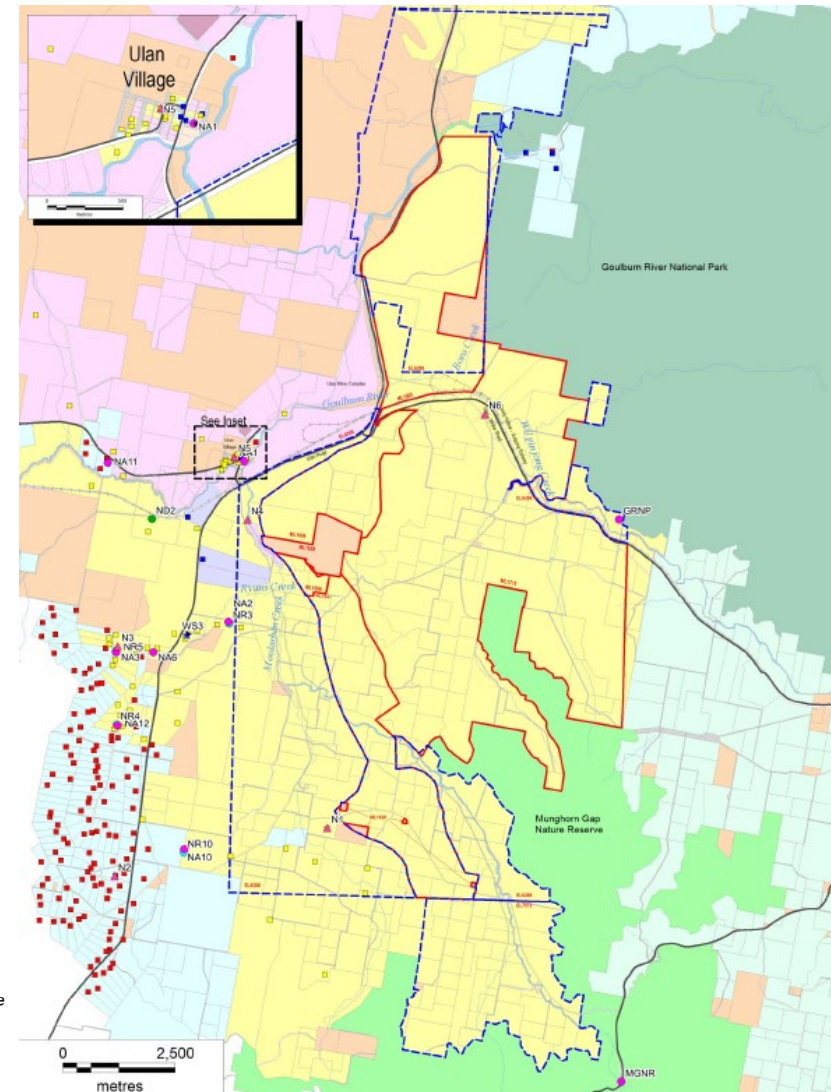
Ownership

- Yancoal
- Ulan Coal Mines Limited
- Wilpinjong Coal Mine
- Privately Owned
- Crown
- Commercial

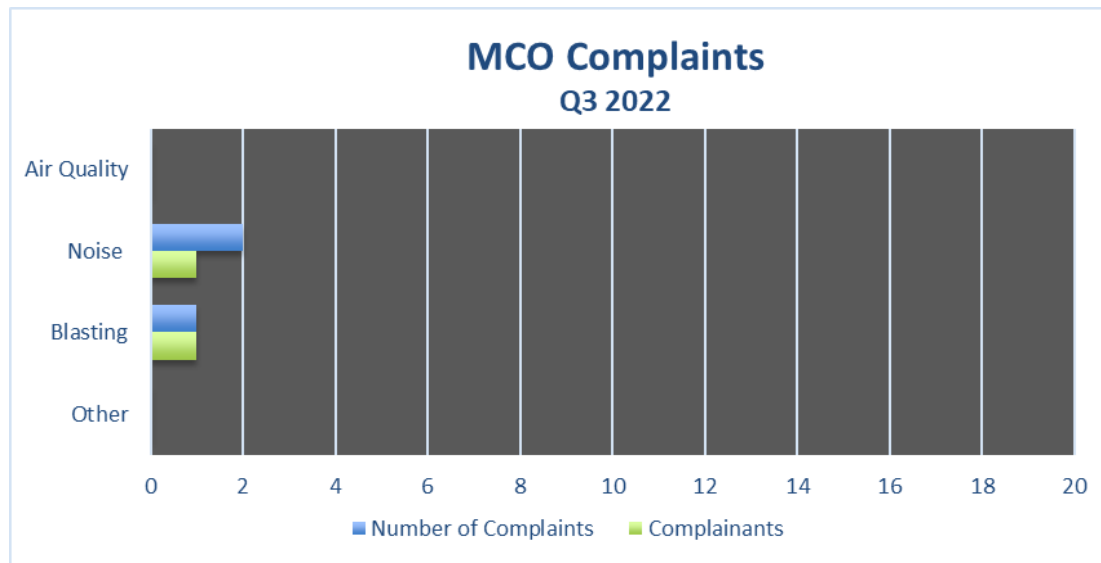
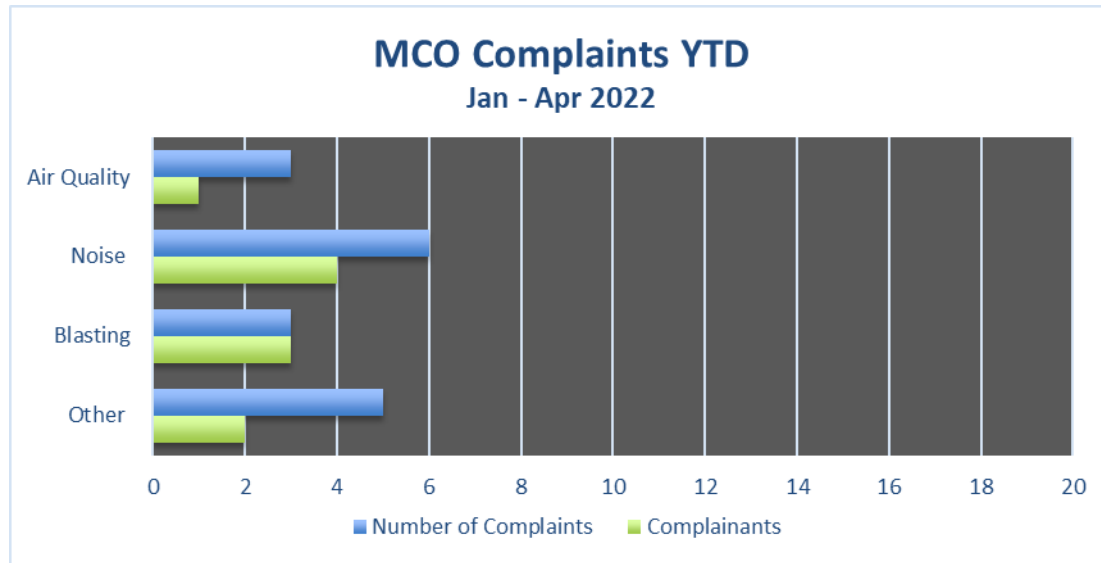
- National Park
- Nature Reserve
- Mine Owned Receiver
- Private Receiver
- Commercial Receiver

Noise Monitoring Locations

- Real-time Noise Monitoring Site
- Attended Noise Monitoring Site
- Directional Receiver
- Background Noise Monitoring
- Weather Station

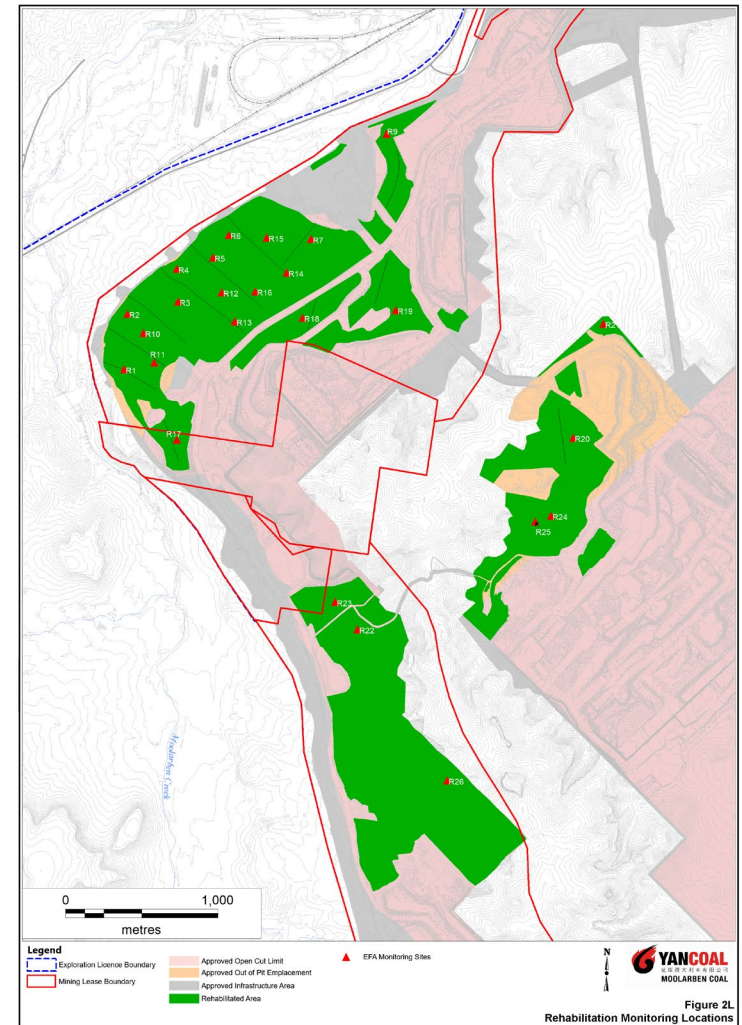


Community Complaints



Rehabilitation Update

- Rehabilitation maintenance works are continuing.
- Spring monitoring has commenced.

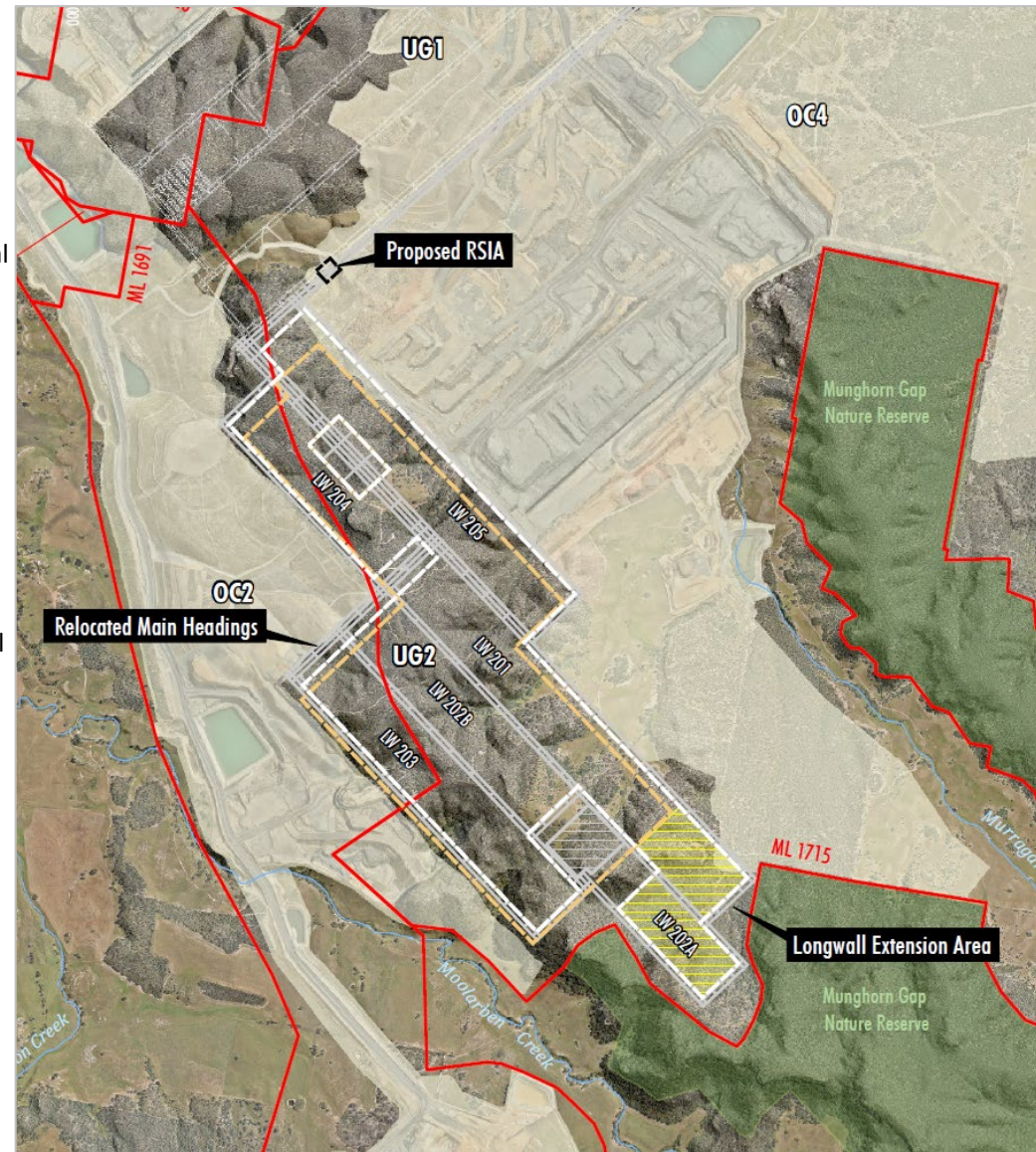
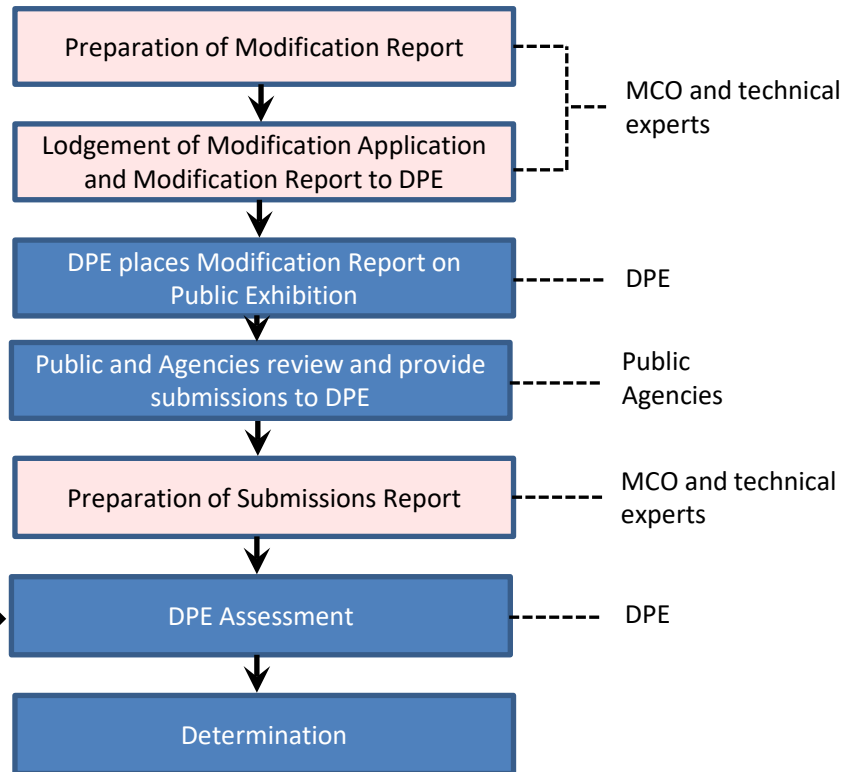


Biodiversity Offset Areas Update

- Preparations are continuing for the 2022 Planting program on the Dun Dun, Onsite, Moolarmoo & Redhills Biodiversity Offsets
- Weed control, Feral animal control and offset maintenance works have continued.
- Spring monitoring is scheduled to commence in September.



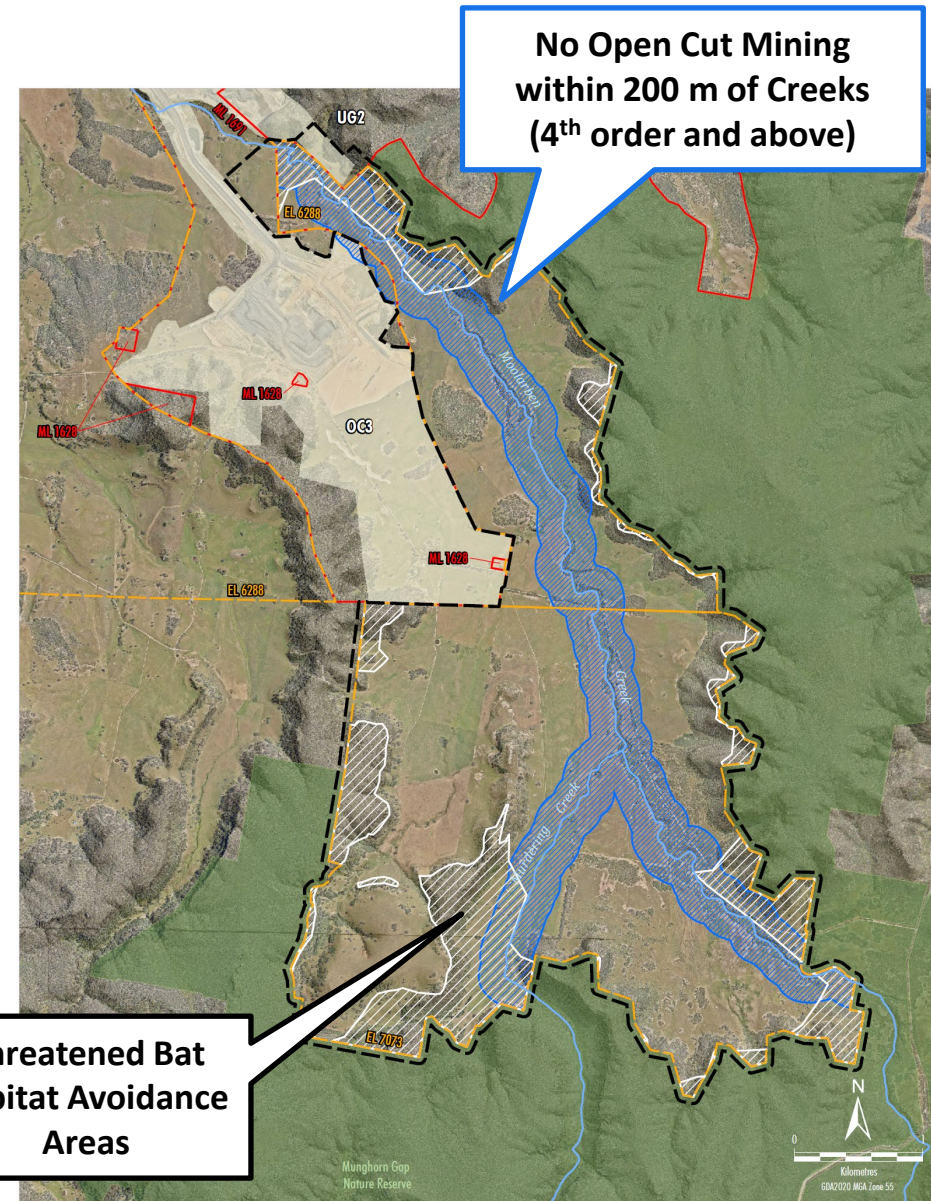
UG2 Modification



OC3 Extension Project

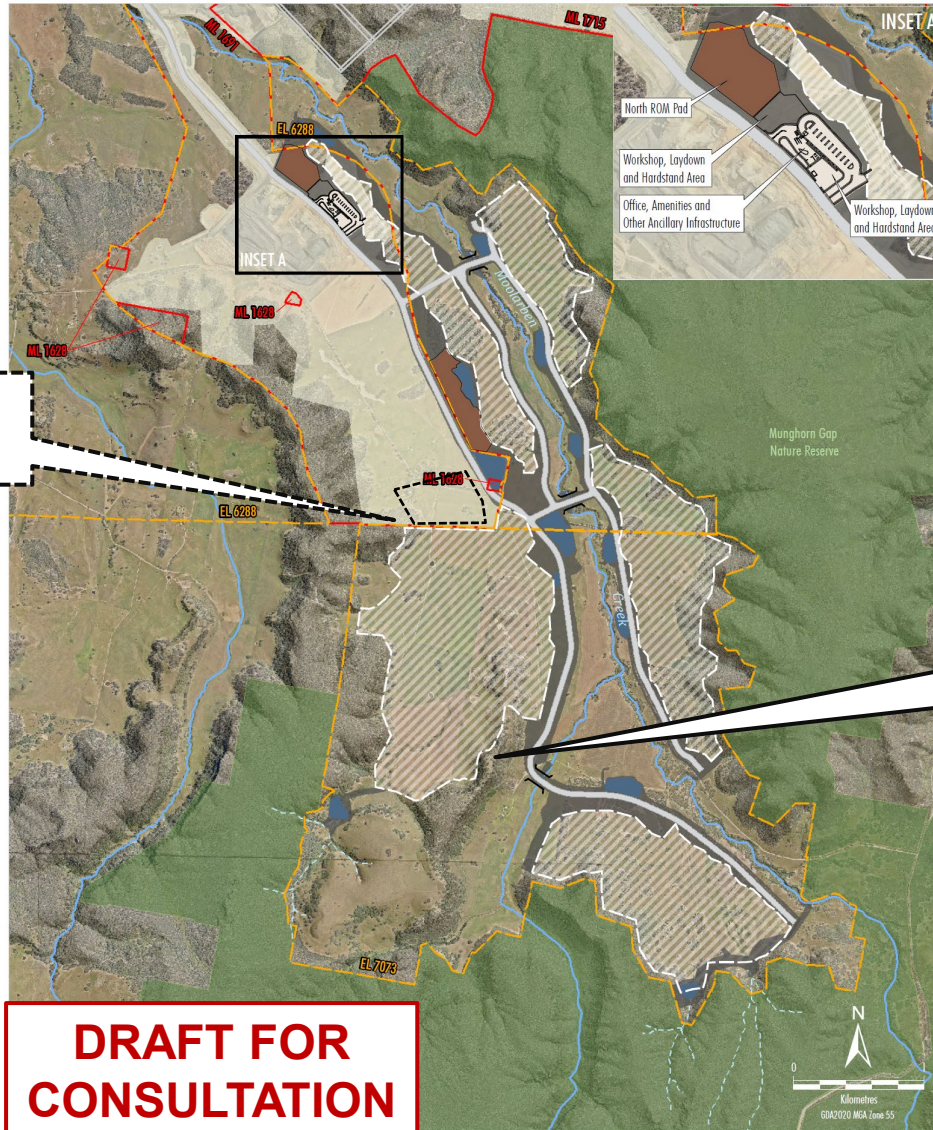
Project Description Overview

- Extension of open cut operations within ML 1691, EL 6288, and EL 7073.
- Extraction of up to 9 Mtpa of ROM coal (which is less than the approved OC3 extraction rate of 10 Mtpa), with a total of 39.5 Mt over the life of the Project.
- Mining operations between approximately 2025 to 2034.
- Extension of employment of the existing Stage 1 open cut workforce.
- Construction and operation of new ancillary and water management infrastructure.
- Construction of haul road creek crossings.



OC3 Extension Project

General Arrangement



	Indicative Open Cut Pit Extent
	Indicative Infrastructure Area
	Indicative ROM Pad
	Culvert
	Indicative Haul Roads
	Indicative Water Management

Approved Final Void Backfilled

No Final Void Proposed for the Project (Free-draining Final Landform)

DRAFT FOR CONSULTATION

OC3 Extension Project

Stakeholder Engagement

- Updated community newsletter distributed in August (available on Moolarben's website).
- Community Information Sessions held at the Cooyal Community Hall on Thurs 18 and Fri 19 August.
- Phase 3 of consultation to inform the Social Impact Assessment completed in August.
- Ongoing consultation with Registered Aboriginal Parties regarding Aboriginal Cultural Heritage Assessment.



MOOLARBEN COAL COMPLEX OPEN CUT EXTENSION PROJECT **COMMUNITY NEWSLETTER** AUGUST 2022

Moolarben is proposing to extend the Open Cut 3 (OC3) mining area. This newsletter is the third in a series that provides an update on the status of the Project and information on upcoming community information sessions for the Project.

■ ABOUT THE OC3 EXTENSION PROJECT

The Project proposes to extend open cut operations to the south and east of its existing OC3 mining area. This will allow Moolarben to recover additional resources (approximately 40 million tonnes (Mt) of run-of-mine (ROM) coal) over a ten year period (from approximately 2025 to 2034). The Project would be integrated with the existing Moolarben Coal Complex and will not change the approved duration or intensity of mining at the Complex.

The Project has been carefully designed to avoid and/or minimise environmental and social impacts, where feasible and practicable. Key features of the Project include:

- Maintaining the currently approved mine life (until 2038) and maximum production rate (22 Mt per annum) for the Complex.
- Improving the final landform, with no residual voids in the Project area (including removing the approved void for the existing OC3 mining area)
- Protecting habitat features for threatened bat species near the Mungahm Gap Nature Reserve
- Avoiding open cut mining within 200 metres of Moolarben Creek and Murdering Creek
- Minimising clearance of native vegetation
- Progressing mining away from publicly visible areas
- Rehabilitating the landform to support a mixed post-mining land use of agriculture and native vegetation

STAKEHOLDER ENGAGEMENT

Community Information Drop-in Sessions

If you'd like to find out more about the proposed Project or our existing operations, join us at one of Moolarben's upcoming community information drop-in sessions.

Venue: Cooyal Community Hall
Wollar Road, Cooyal, NSW.

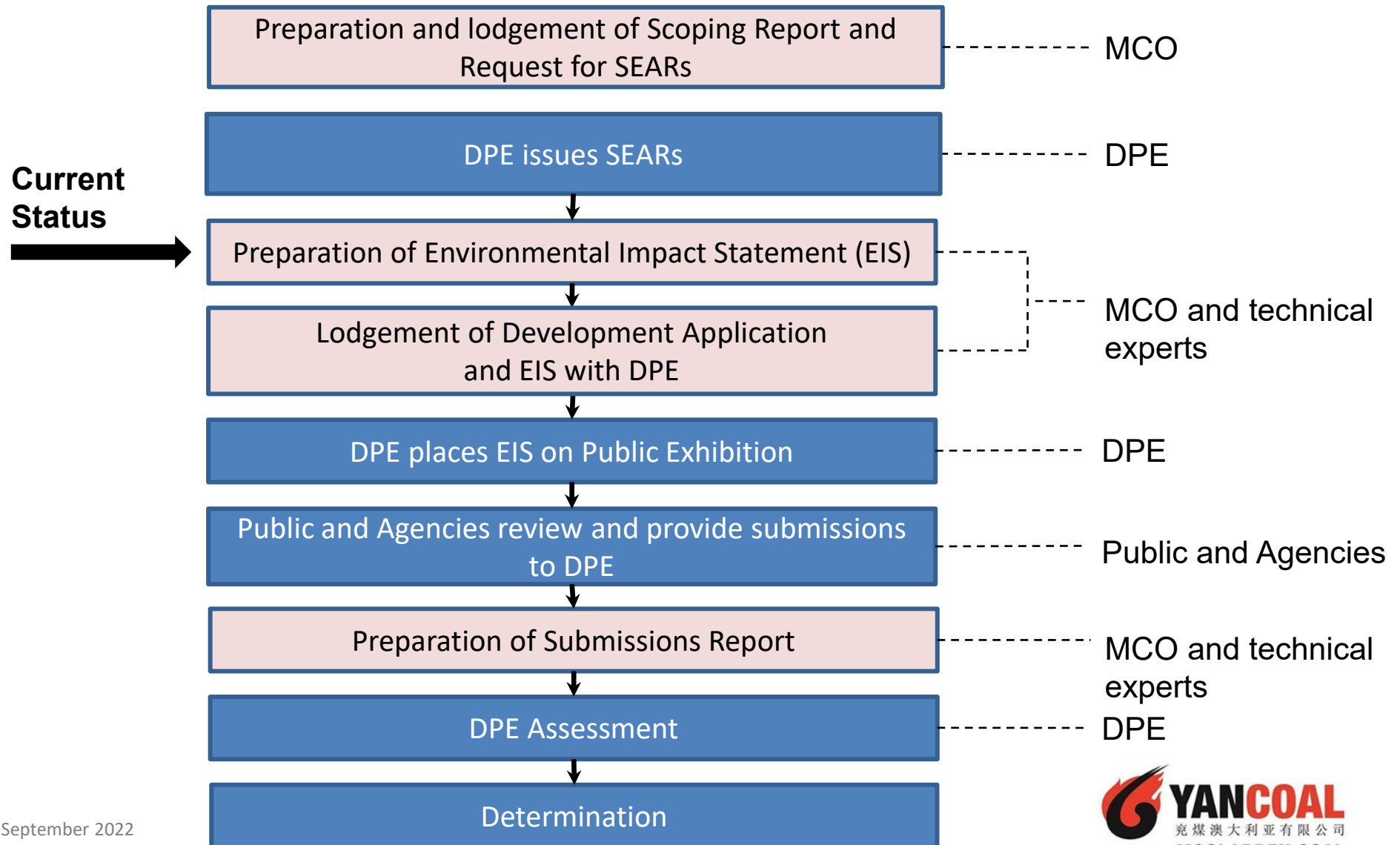
Date: Thursday 18 August (4 – 6 pm)
or Friday 19 August (8 – 10 am)

OC3 Extension Project

Progress Update

- SEARs issued by DPE – Jan 2022.
- Project determined a ‘Controlled Action’ by DAWE – May 2022.
- Specialist studies to inform SSD application progressing:
 - Bore census and groundwater feature identification.
 - Modelling of amenity impacts.
 - Biodiversity and heritage surveys.
- Stakeholder engagement will continue throughout the preparation of the EIS.
- **EIS lodgement proposed in Q3 2022.**

OC3 Extension Project



Employment Update

Current Traineeships

- 10 Underground trainee mineworker with 3 progressing to mineworkers.
- 20 Open Cut trainee mineworker.
- 1 Administration trainee.
- Currently recruiting for 20 UG trainee mineworker.

Apprentices

- 2 Underground, 13 Open Cut and 10 CHPP apprentices.
- Currently advertising for 11 new apprenticeships to commence in 2023.





6 September 2022

