

**MOOLARBEN COAL OPERATIONS - COMMUNITY CONSULTATIVE COMMITTEE
MEETING No. 68**

Date: Tuesday, 05th March 2024
Time: 2:04 pm
Location: Moolarben Coal Open Cut Administration Board Room, Ulan
Attendance: Independent Chairperson
Lisa Andrews (LA)

Community Members

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

Moolarben Coal Operations

Brian Wesley (BW)
Trent Cini (TC)
Rebecca Shanks (RS)
Ashley Tones (AT) {Minute taker}

Apologies

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

Meeting 68 Agenda and Presentation were provided to all meeting attendees.

1. Introduction and Welcome

Lisa Andrews (LA) opened the meeting and welcomed all attendees to the Moolarben Coal Operations (MCO) Community Consultative Committee (CCC).

2. Apologies

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

3. Business Arising from Previous Finalised Minutes

LA confirmed previous meeting minutes finalised and distributed on 19 December 2023.

TC informed the members that the previous action items not already closed out would be addressed during the presentation.

Actions from Meeting 67:

1. Provide Code of Conduct and Declaration of Interest forms at next meeting – *Complete*.
2. Terms of Reference to be finalised – *Complete*.
3. Provide hectares seeded as part of rehabilitation in OC2 at next meeting – *within presentation*.
4. Advise CCC on submission of the Amended OC3 Extension Project report – *pending*.
5. Advise CCC when discharge recommences – *Complete (provided via email 7th February)*

Correspondence as sent with the Meeting Notice on 21 February 2023:

- 4/12/23 – Email from JI requesting a copy of the REF for the installation SW & GW Monitoring for the Goulburn River.
- 7/12/23 – Email to members with draft minutes for review as well as revised CCC guidelines documents.
- 14/12/23 – Email from BS regarding train derailment at Sandy Hollow.
- 19/12/23 – Email to members with response from MCO regarding train derailment.
- 19/12/23 – Email to members with final minutes.
- 20/12/23 – Email to members advising that the revised Groundwater Technical Report has been approved by DPE and available on MCO's website. Link provided.
- 07/02/2024 – Email to member advising of EPL01 Discharge recommencing.
- 21/2/24 – Email to members with the Meeting Notice & Agenda for this CCC, including JI's questions & answers.

All attendees completed and provided to LA, signed hard copies of a *Declaration of interest form for community consultation committees* (Department of Planning, Housing and Infrastructure, 2024) and *Community Consultative Committee code of conduct for committee members (excluding chairperson)* (DPHI, 2024) [**Meeting #67 Action 1**].

Initial Business

JI queried the fire risk associated with dust coming from coal stockpiles and the trigger to undertake action by MCO, being high winds or high fire risk day. TC advised that management associated with coal stockpiles is undertaken by the Supervisor and based on risk and observations. BW advised sprays are present to manage dust from stockpiles. JI expressed concern of the flammability of the coal dust from the stockpiles during high fire risk days. BW advised of an extremely low risk in an open atmosphere in contrast to the risks associated with underground operations due to the confined atmosphere. JI acknowledged management as part of day-to-day operations.

CCC Update Presentation

RS provided an update on the 2024 Community Support Program (CSP) and Community Events for the quarter prior to the meeting.

RS provided an operational update on the opencut. WTP [**Meeting #67 Action 5**] addressed. JI enquired on the volume of water releases occurring. TC advised approximately 10 to 15 megalitres per day.

RS provided an operational update on the underground. JI enquired on the location of PZ A (with regards to monitoring sites in GRNP). TC confirmed it is within crown land / reserve. JI enquired on the results from monitoring sites established, including response to information request email sent from JI, via LA on 27 February. [*Note, due to technical errors, this email was not received by MCO. LA resent information request to TC/RS during meeting*]. TC advised MCO will endeavour to provide requested information prior to finalising meeting minutes. JI/LA accepted this position.

RS provided an update on exploration. BS queried if drilling in MLs was occurring in front of mining. RS confirmed.

RS provided an update on environmental monitoring. BS queried if effluent monitoring undertaken as part of the EPL and the location of discharge. TC confirmed as part of EPL and discharged to land. BS enquired on the volumes released to land and where does the water come from. TC advised that MCO is not required to monitor volumes released through the effluent system and all water treated as part of effluent is purchased. BS confirmed that MCO do not have volumes of effluent water released to land. TC advised it is not recorded. JI queried the extent of water make from Underground Operations. TC advised on the current underground make of approximately 11ML including recirculation, water supply, and inflows.

RS provided an update on surface water quality. JI queried the location of SW22 and at Saddlers Creek Road / Goulburn River. TC confirmed.

RS provided an update on air quality and blast results.

RS provided an update on noise monitoring and community complaints. BS queried the management of lightning at MCO operations. BW advised lightning and wet weather activity can result in impacts to operations. BS queried if equipment is closed down during lightning. BW confirmed that equipment may be relocated or temporarily shut down if necessary. TC advised a Trigger Action Response Plan (TARP) which covers various site activities and sets out zones based on distance from lightning is in place.

RS provided a rehabilitation update. OC2 rehabilitation seeding [**Meeting #67 Action 3**] addressed. BS requested an area of disturbance comparison against area of rehabilitation across MCO [**Action**]. TC advised that rehabilitation vs disturbance is dependent on mining stage with most operations undertaking majority of rehabilitation at the back end of operational life.

TC provided an update on the UG2 modification. BS queried if this modification has been referred to Federal Government. TC advised MCO are currently reviewing the EPBC approval requirements.

TC provided an update on the OC3 extension proposed amended project. JI queried what the Habitat Enhancement Area (HEA) entails. TC advised no open cut mining will be occurring within the HEA in addition there is a commitment to undertake planting and weed management within the area. JI asked for confirmation there would be no final voids within the OC3 extension footprint. TC confirmed that the OC3 extension removes the final void from the Moolarben valley. BS enquired when the submission to comments is to occur. TC confirmed MCO are expecting submission of the amended project this month (March). TC to inform LA when submission has been made to the Department [**per Meeting #67 Action 4**].

Jl enquired if the Groundwater report associated with OC3 extension amended project is to be revised. TC advised it was amended accordingly to reflect the changes to the project. Jl noted the presence of only 3 groundwater monitoring points within OC3 area, all within northern section of project. TC advised the EIS commits to installation of additional monitoring bores across the footprint. Jl noted there is no data from groundwater monitoring bores within the southern extent as no bores are present and queried how baseline data would be determined if the area is disturbed before being adequately monitored. TC advised the EIS outlines monitoring prior, during and post the proposed OC3 extension project. Jl stated there appears to be insufficient monitoring proposed and undertaken as part of the EIS investigation of groundwater in the OC3 extension area [**Noted**].

RS provided an employment update. LA queried type of apprenticeships. RS confirmed boiler makes, fitters and electricians.

4. General Business

LA asked if there were any general business from members.

BS requested the provision of volume of potable water purchased for use at MCO [**Action**]. BS advised it is to determine how the EPA manage effluent discharge across 3 mines sites and to identify any inconsistency with EPLs.

Jl noted / queried aspects of the AGE updated Groundwater Technical Report for UG4. These included:

1. The report said the "Goulburn River diversion is a losing stream' but suggests this requires additional monitoring of adjacent groundwater monitoring, and MCO is currently obtaining approvals to expand this monitoring. Jl asked where and when is this planned? TC advised monitoring is consistent with the UG4 water management plan.
2. Jl questioned the groundwater quality presented on pg. 67 stating Triassic groundwater salinity average of 900 mg/L (TDS). This misrepresented the salinity of Triassic groundwater in UG4 which is closer to 200 mg/L (see Table 6.2 in the report).
3. Jl referred to AGE comments regarding uncertainty in hydraulic parameters previously reported due to a lack of pump testing to establish hydraulic conductivity of strata used in water modelling. Jl noted that there appeared to be only one pump test used for Triassic groundwater (page 69).
4. Water take from UG4 notes 5422 megalitres for 2023/2024 period. Jl advised MCO current licences allows for 2905 megalitres and asked how the shortfall made up. TC advised Yancoal operates a number of mines in the Sydney Basin-North Coast Groundwater Source, which provides opportunities to trade licences between Yancoal-owned assets to meet the specific licensing requirements for each site, which fluctuate from year-to-year. The trading of WAL entitlements is a recognised and legally approved mechanism under the Water Management Act 2000 to maximise the efficient use of the state's water resources.

KD queried the status of the train line considering the recent disruption. BW advised the rail line is back operating. LA queried if MCO have caught up on train loading due the derailment. BW advised MCO have not yet caught up.

LA announced that she is stepping down as Independent Chairperson of MCO CCC due to personal reasons. LA advised she has been liaising with DHPI and they are currently in the process of appointment a replacement. LA thanked everyone for the duration of her term as Chairperson and advised she will work with DHPI / MCO to ensure a smooth transition. TC thanked LA for her service to the MCO CCC.

LA advised next meeting scheduled for 4th June; however this may vary based on the incoming Chairperson's availability. CCC acknowledged this.

5. Next Meeting: 4th June 2024, on site at 2:00 pm.

Meeting closed at 3:17 pm with LA thanking members for their attendance and participation.

Action Items:

| Item | Action | Responsibility |
|------------------------------------|---|-----------------------|
| Meeting #67 Action 4 carry over | Advise CCC on submission of the Amended OC3 Extension Project reports. | MCO |
| 1 | Provide hectare comparison of disturbance vs rehabilitation across MCO. | MCO |
| 2 | Provide volume of potable water purchased for use at MCO | MCO |

Community Consultative Committee Update

March 2024

Moolarben Coal Operations



2024 Community Support Program (CSP)

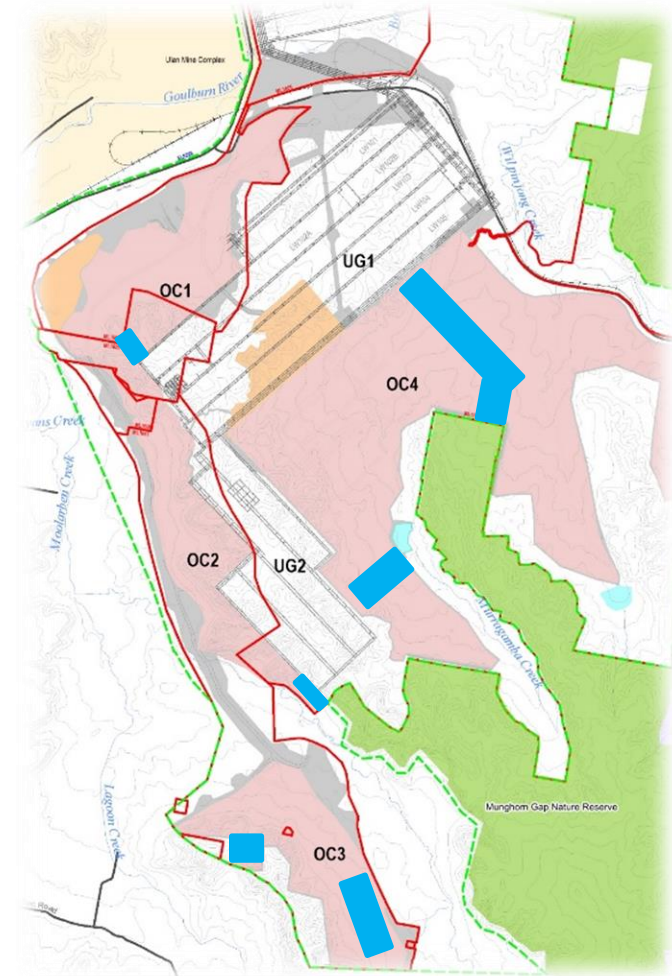
Yancoal-Moolarben Coal CSP Events for the prior quarter included:

- Mudgee Rotary Showground Carols
- Gulgong show
- Rylstone and Kandos Show and Rodeo



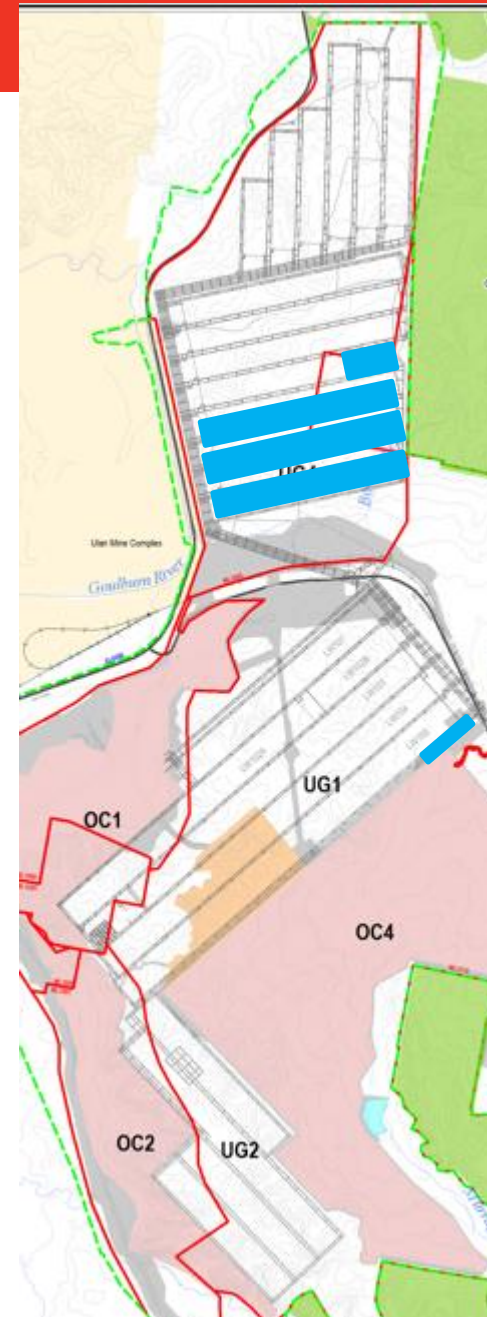
Operational Update - Opencut

- Open cut operations in OC1, OC2, OC3 & OC4.
- Water Treatment Plant operations recommenced in February.
- Blast Overpressure Event - Blast fired in OC4 on Thursday 8 February, MCO reported to DPHI and EPA. Investigation currently underway.



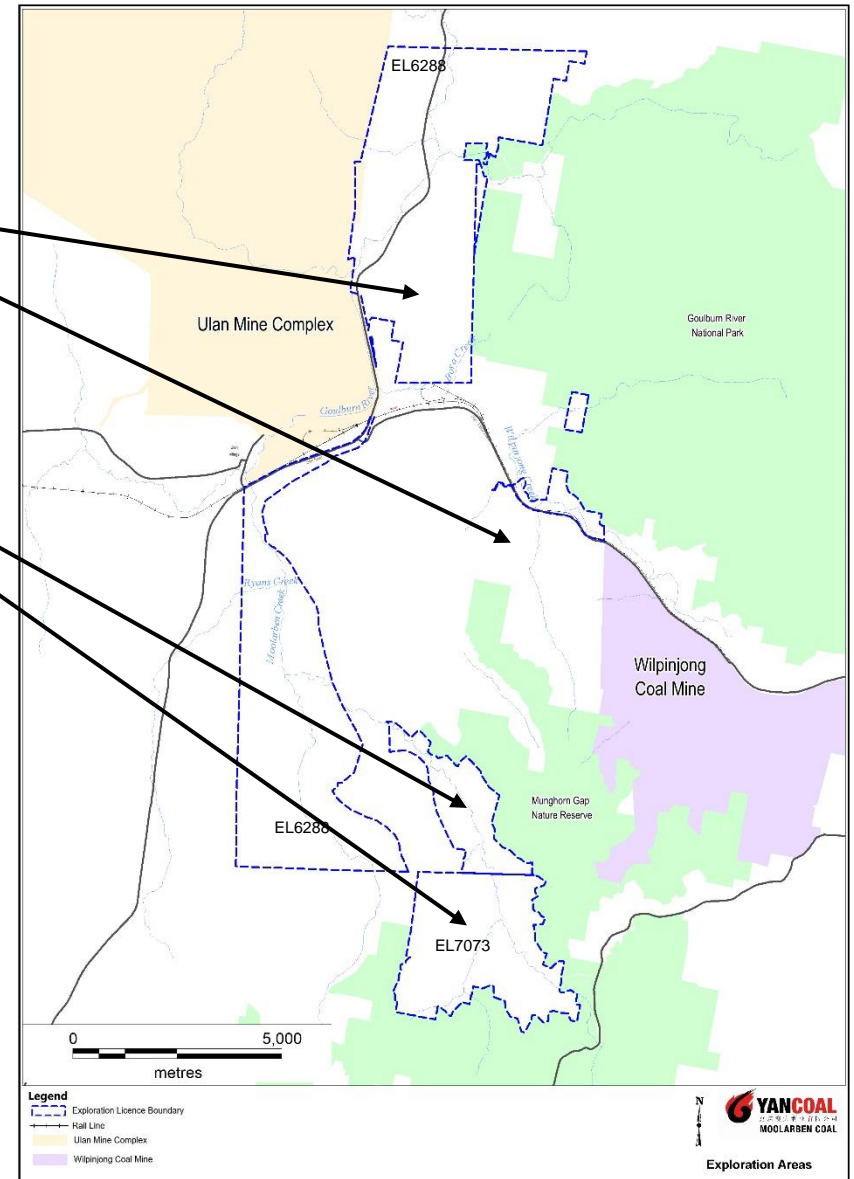
Operational Update - Underground

- Longwall operations in LW404
- Continued underground development in UG4 and commencement towards UG2.
- UG4 EP continued Implementation
 - Global Navigation Satellite System (GNSS) Array installation - complete
 - Establishment of environmental monitoring sites in the Goulburn River National Park – complete.
 - PZ194 and PZ195 – complete
 - PZ – A – Approvals ongoing
 - PZ – B – complete
 - PZ – C – complete
 - PZ – D – complete
 - PZ – E – complete
 - PZ – F – complete



Exploration Update

- Drilling – Planned to continue in ML1715 and ML1605
- Drilling is planned to continue in EL6288 and EL7073
- Rehabilitation and monitoring activities have continued during the period.



Environmental Monitoring

Monitoring network

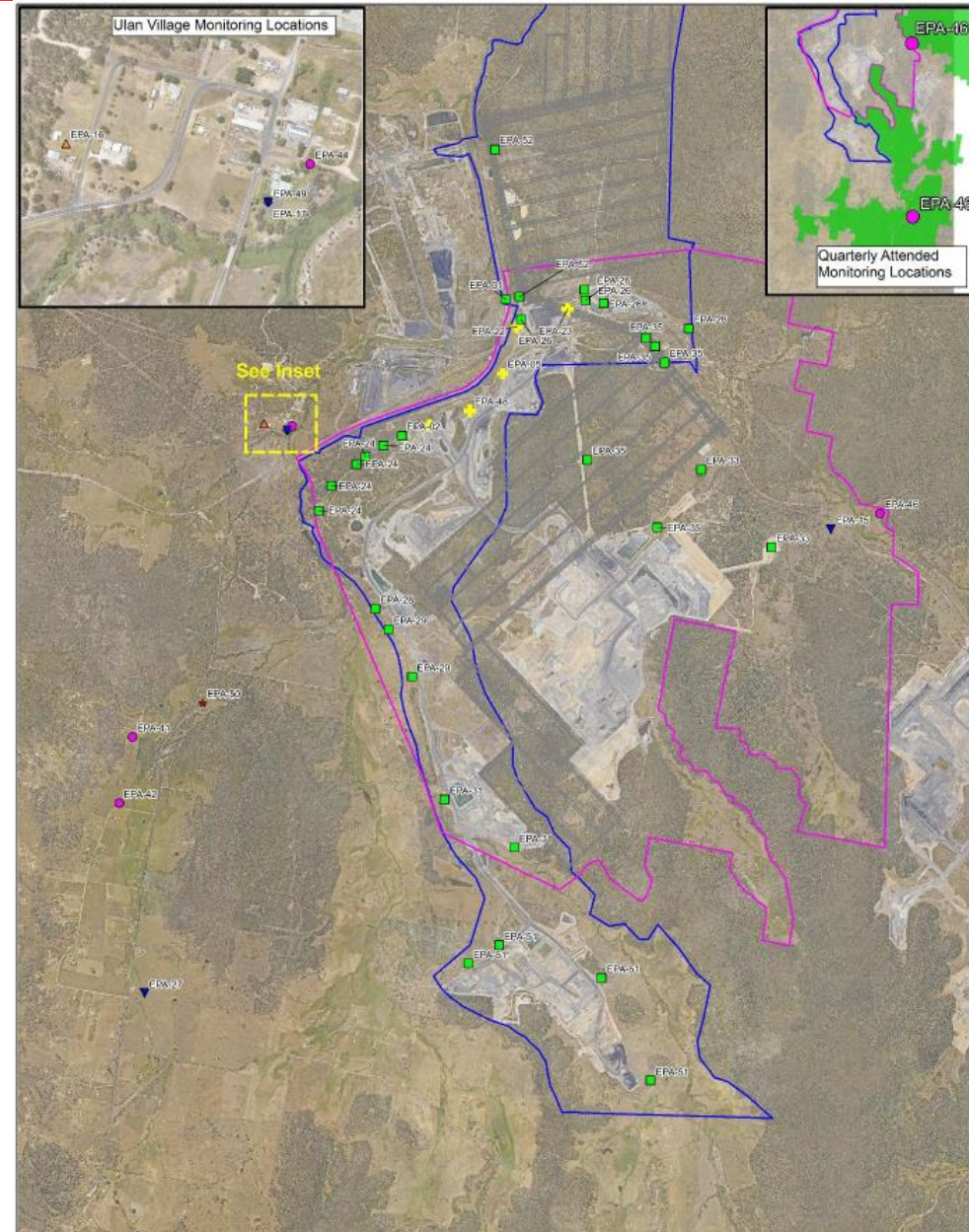
- Water;
- Air Quality;
- Blasting;
- Noise; and
- Meteorology.

Legend

- Stage 1 DA Boundary
- Stage 2 DA Boundary
- Approved Underground Workings
- Approved_Underground_Workings

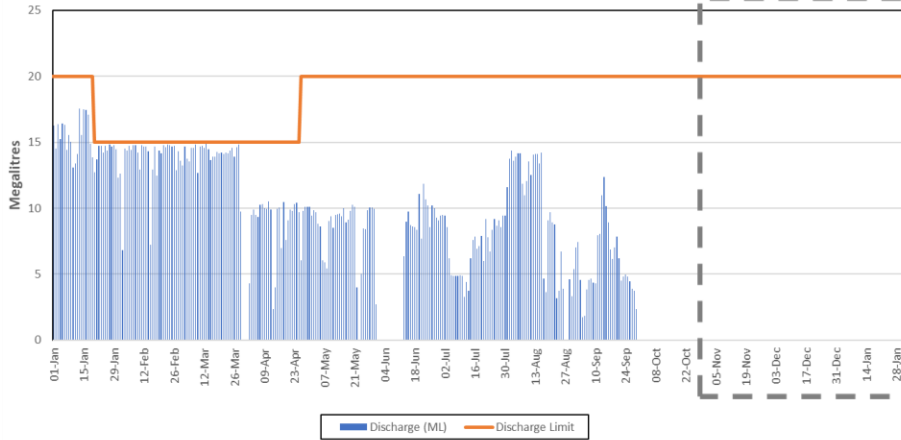
EPL Monitoring Locations

- Real-time TEOM
- Effluent Monitoring
- Water Discharge Point
- Attended Noise Monitor
- Blast Monitor
- Weather Station
- PM10 Monitor

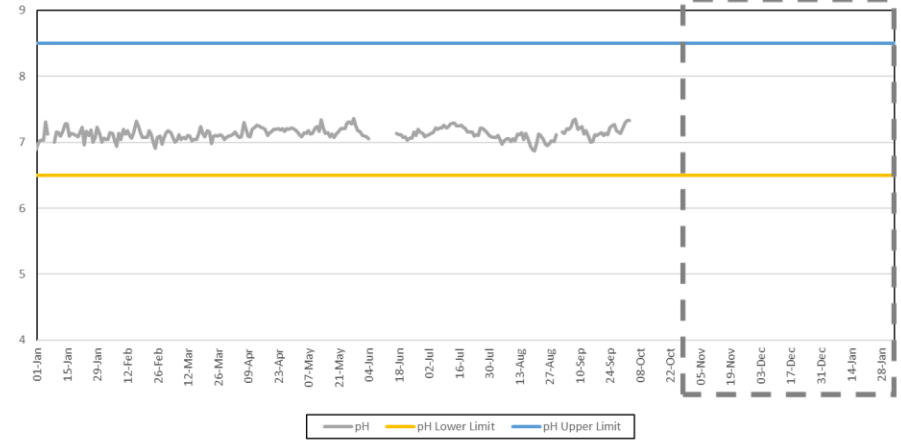


Water Release – EPA01

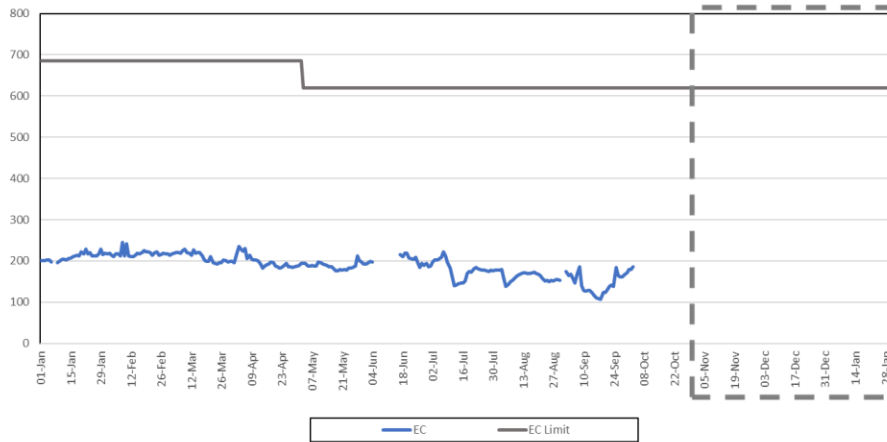
EPA 1 Daily Discharge Volumes
January 2023 - January 2024



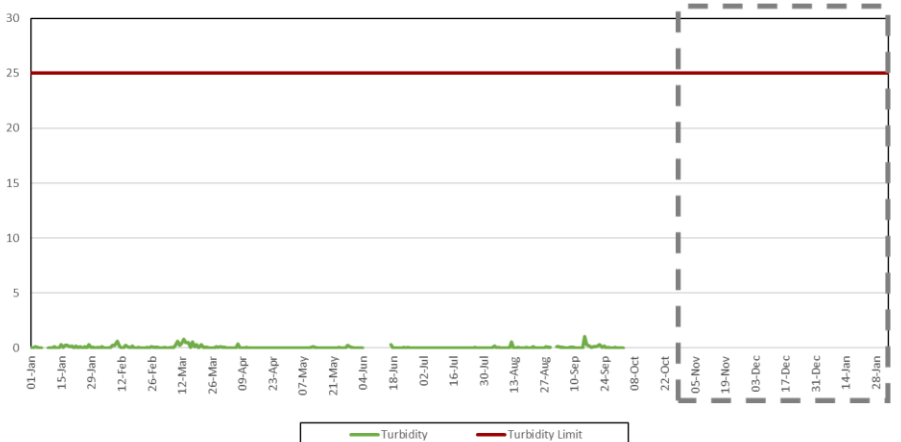
EPA 1 Daily Average pH
January 2023 - January 2024



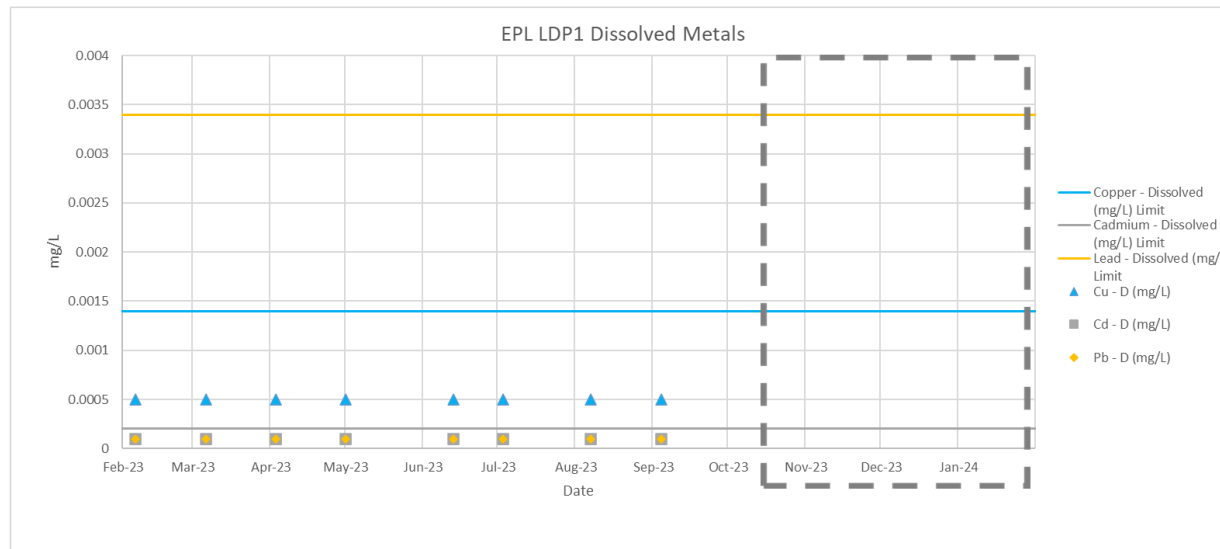
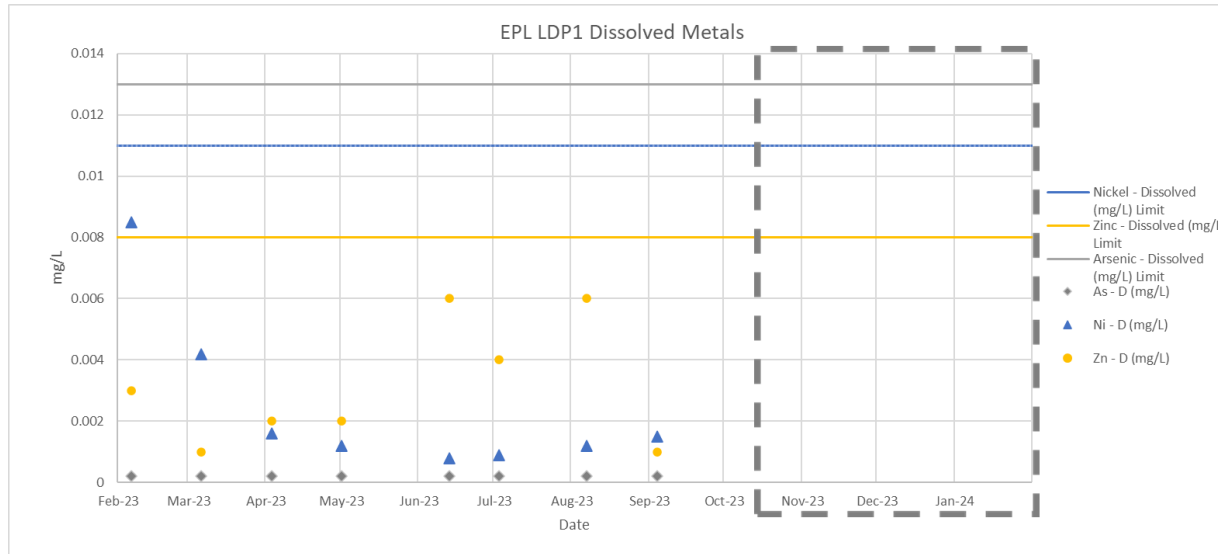
EPA 1 Daily Average EC
January 2023 - January 2024



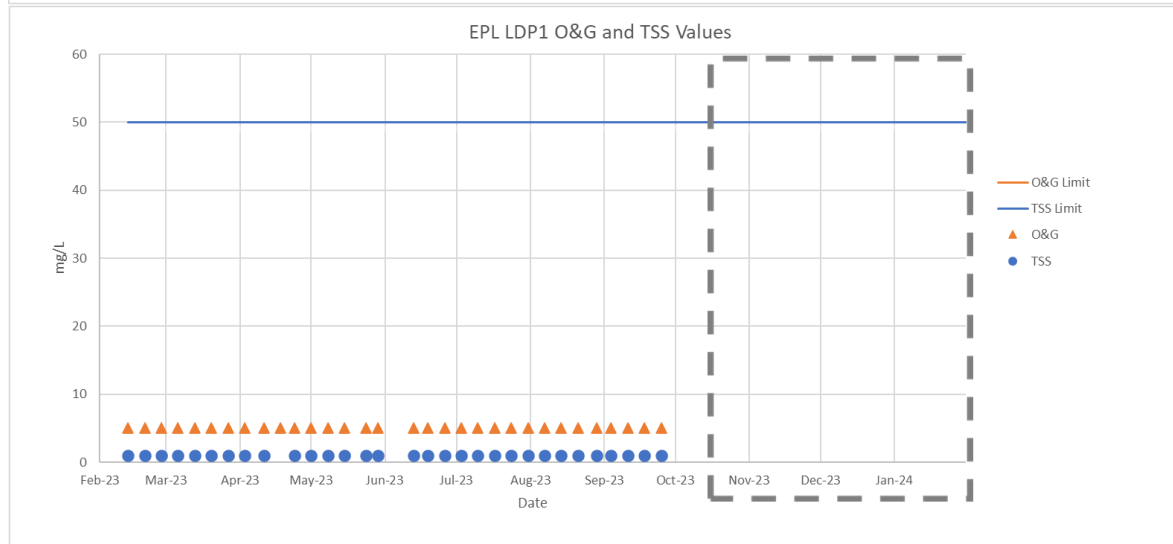
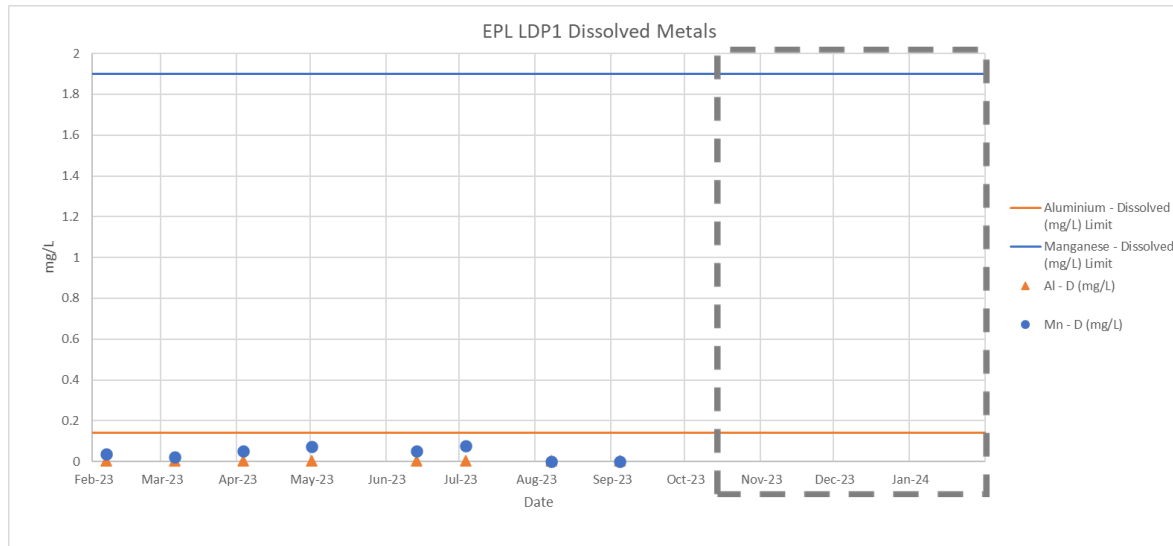
EPA 1 Daily Average Turbidity
January 2023 - January 2024



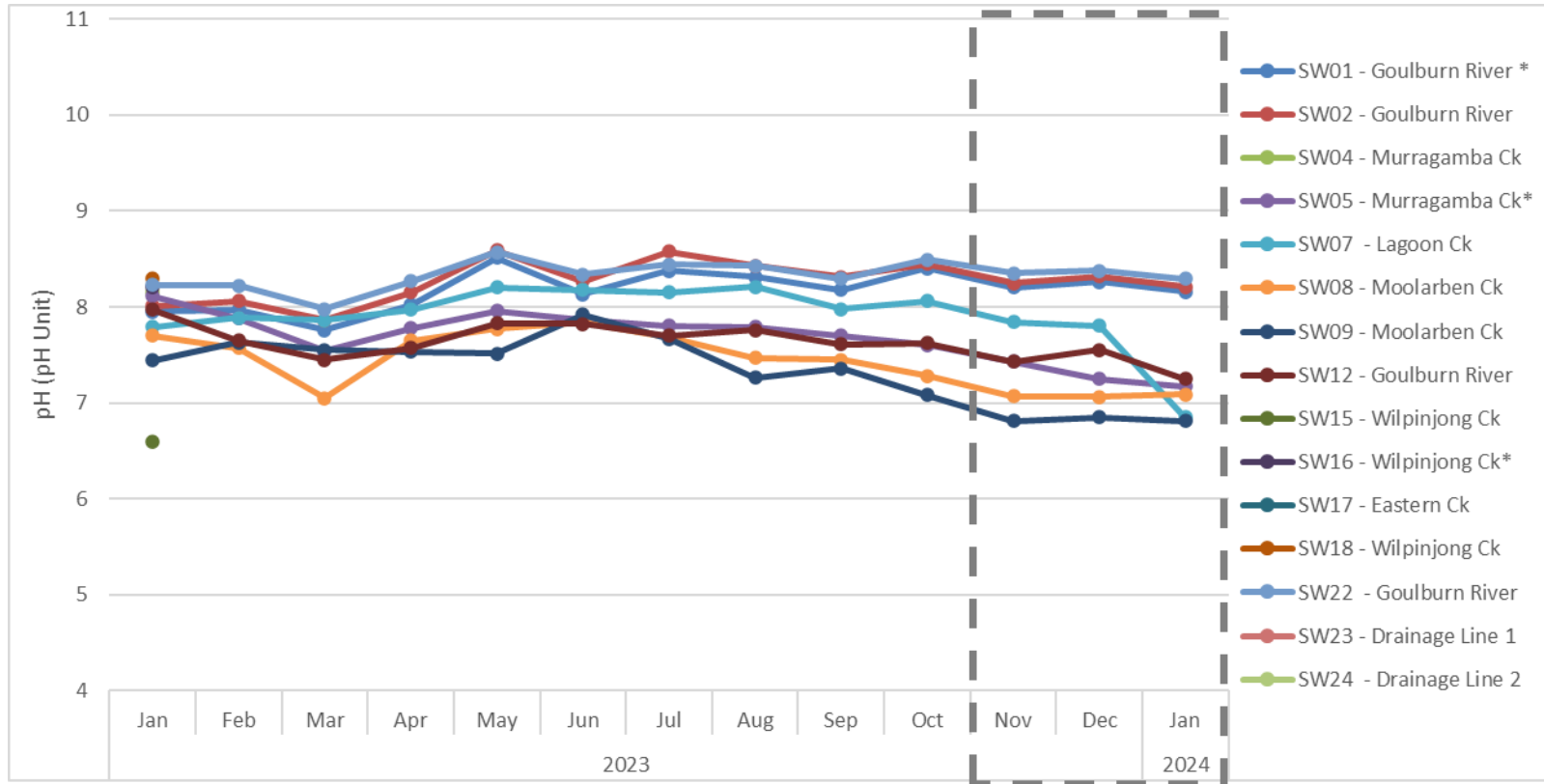
Water Release – EPA01



Water Release – EPA01

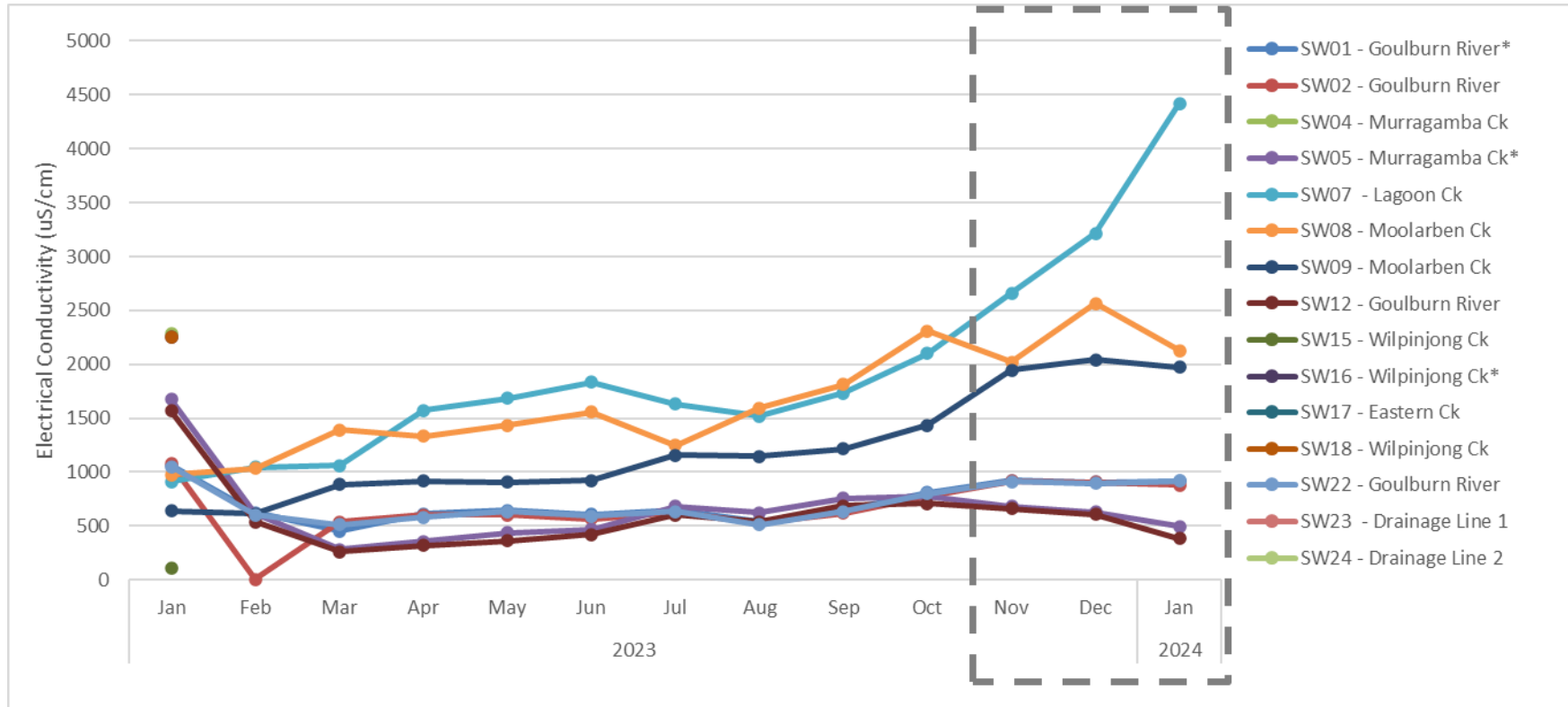


Water Quality - pH



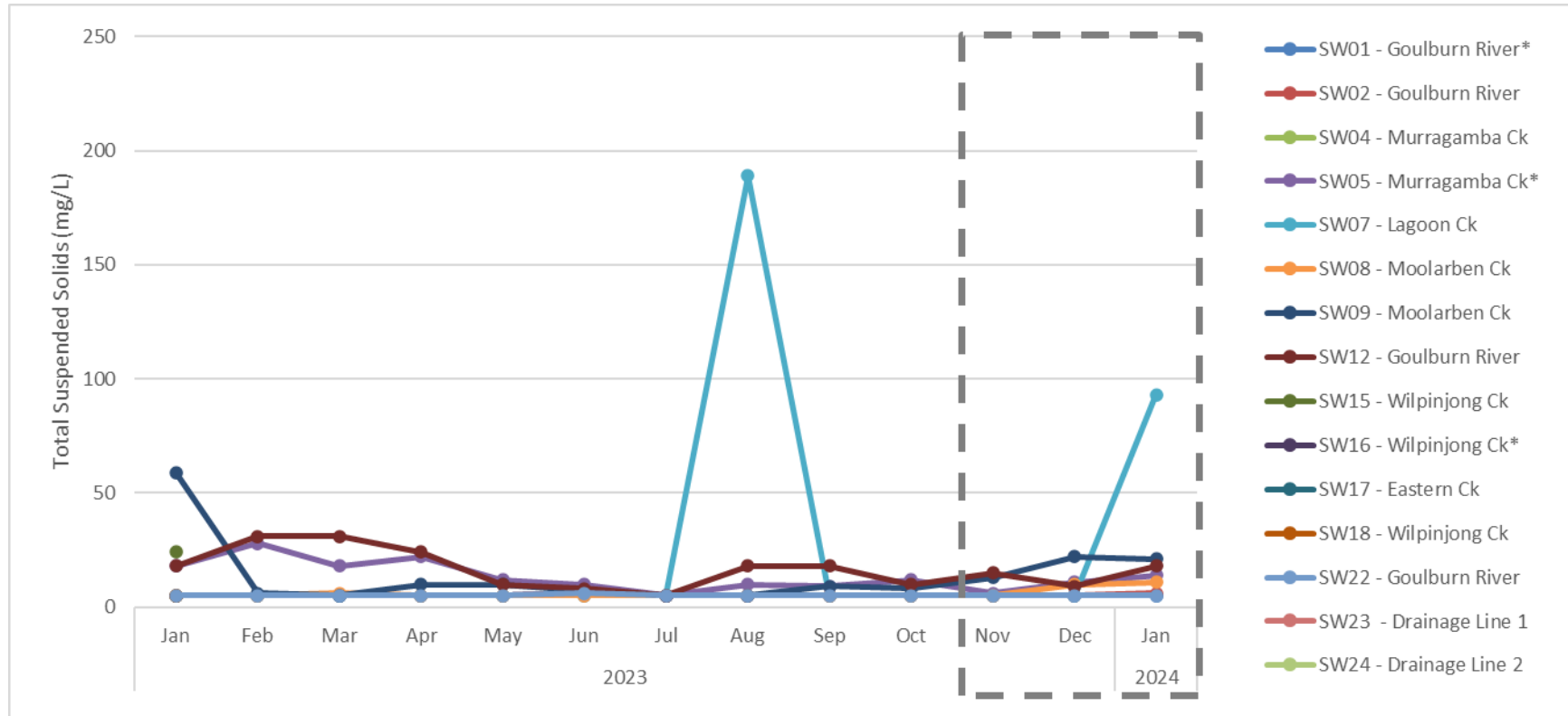
* Monitoring Locations with associated trigger investigation levels as per the Surface Water Management Plan

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 | January 2023 PM10 Annual Average ($\mu\text{g}/\text{m}^3$) | January 2024 PM10 Annual Average ($\mu\text{g}/\text{m}^3$) | Air Quality PM10 Annual Average Criteria ($\mu\text{g}/\text{m}^3$) |
|---------|---|---|---|
| TEOM 01 | 11.4 | 16.7 | 25.0 |
| TEOM 07 | 6.9 | 10.7 | 25.0 |
| TEOM 04 | 10.7 | 14.5 | 25.0 |

| Site | January 2023 PM2.5 Annual Average ($\mu\text{g}/\text{m}^3$) | January 2024 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 | 3.5 | 5.1 | 8.0 |

Monthly monitoring reports are available on our website:

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

Blasting

| Site | November 2023 Blast Overpressure (dBL) | | December 2023 Blast Overpressure (dBL) | | January 2024 Blast Overpressure (dBL) | | Limit (dBL) |
|------------------|--|-------|--|-------|---------------------------------------|-------|-------------|
| | Min | Max | Min | Max | Min | Max | |
| BM1 Ulan School | 85.7 | 103.7 | 84.5 | 110.0 | 83.4 | 106.2 | 115/120 |
| BM5 Ridge Rd | 84.3 | 108.7 | 87.4 | 108.7 | 85.9 | 110.2 | 115/120 |
| BM8 Moolarben Rd | 78.8 | 114.6 | 84.7 | 109.2 | 82.6 | 108.5 | 115/120 |

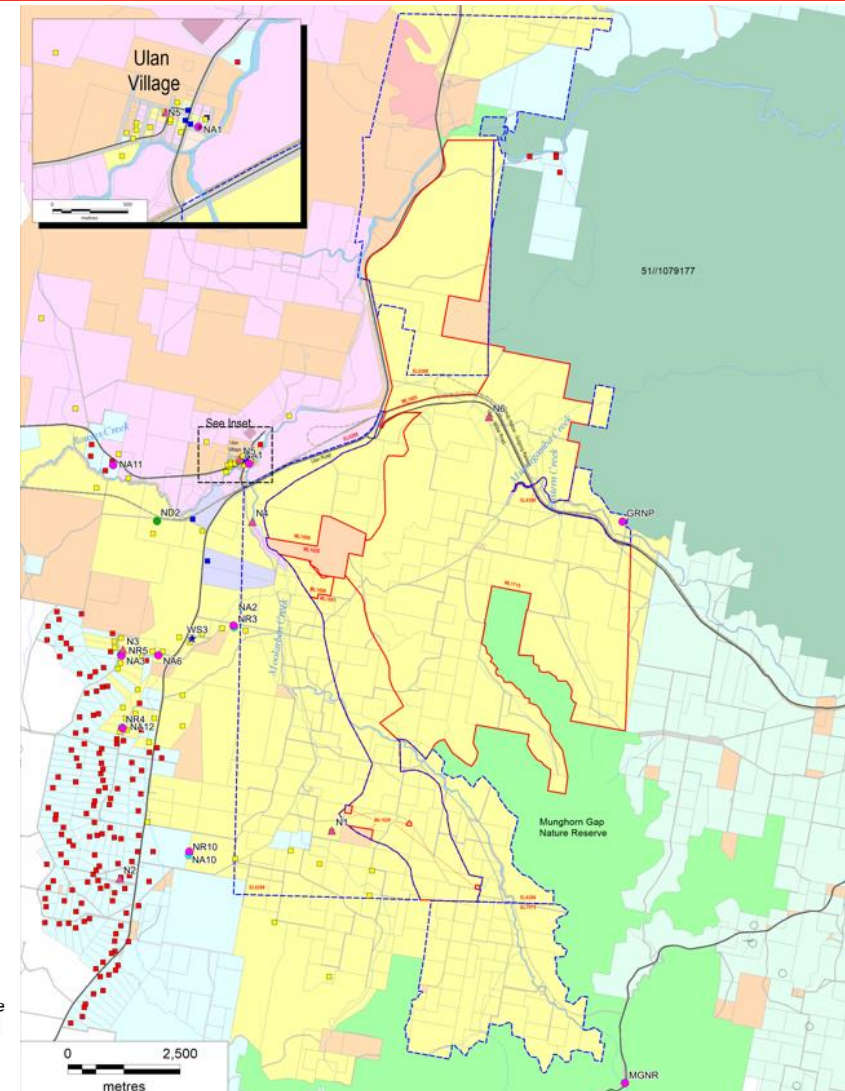
| Site | November 2023 Ground Vibration (mm/s) | | December 2023 Ground Vibration (mm/s) | | January 2024 Ground Vibration (mm/s) | | Limit (mm/s) |
|------------------|---------------------------------------|------|---------------------------------------|------|--------------------------------------|------|--------------|
| | Min | Max | Min | Max | Min | Max | |
| BM1 Ulan School | 0.05 | 0.24 | 0.06 | 0.22 | 0.06 | 0.34 | 5/10 |
| BM5 Ridge Rd | 0.05 | 0.36 | 0.06 | 0.24 | 0.03 | 0.31 | 5/10 |
| BM8 Moolarben Rd | 0.02 | 0.29 | 0.02 | 0.25 | 0.02 | 0.36 | 5/10 |

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

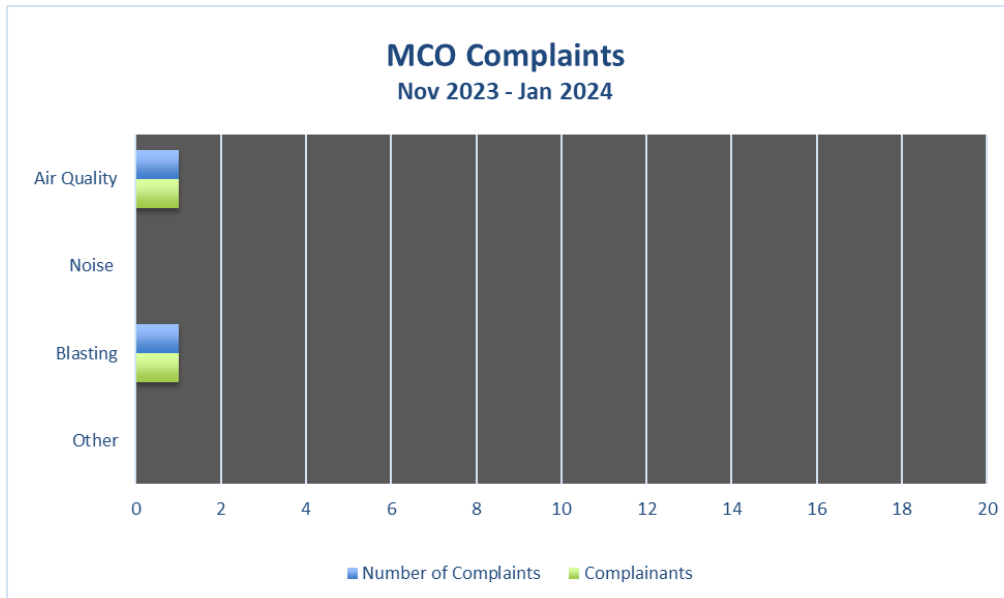
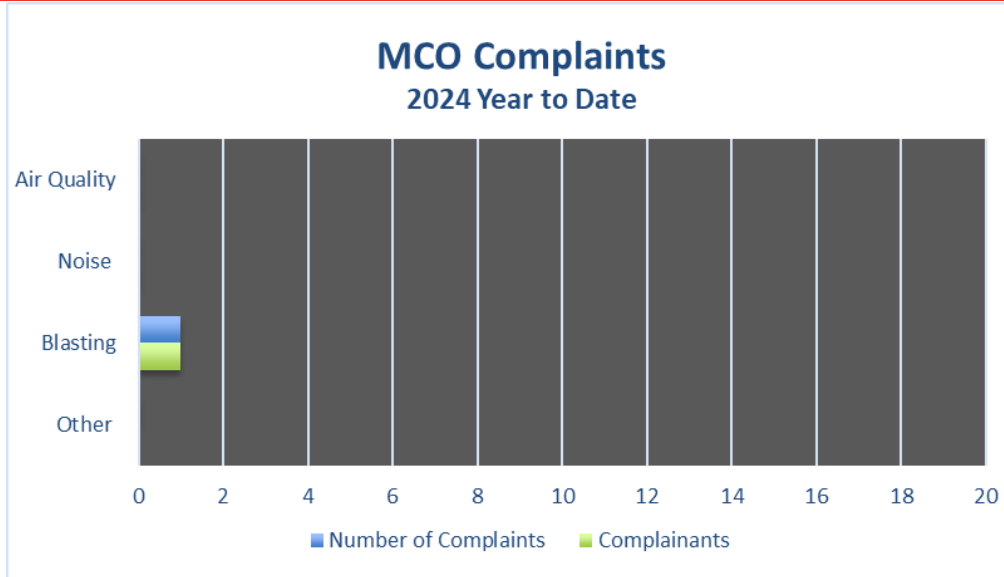
- Yancoal
- Ulan Coal Mines Limited
- Wilpinjong Coal Mine
- Privately Owned
- Crown
- Commercial

- 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

- In 2023, 50ha of rehabilitation was shaped to final landform design.
- 15ha of rehabilitation was seeded to native ecosystem establishment.
- Early signs of native vegetation germination.



Biodiversity Offset Areas Update

- Offset maintenance works have continued, with feral animal baiting and weed management programs continuing.
- Planting preparation is underway for 2024 planting within Ulan 18, Bobadeen, & Dun Dun Biodiversity Offset Areas.
- Threatened Greater Broad-nosed Bat and Eastern False Pipistrelle were identified for the first time in the spring 2023 Biodiversity Offsets monitoring.



Dun Dun Tree Planting Prep 2024



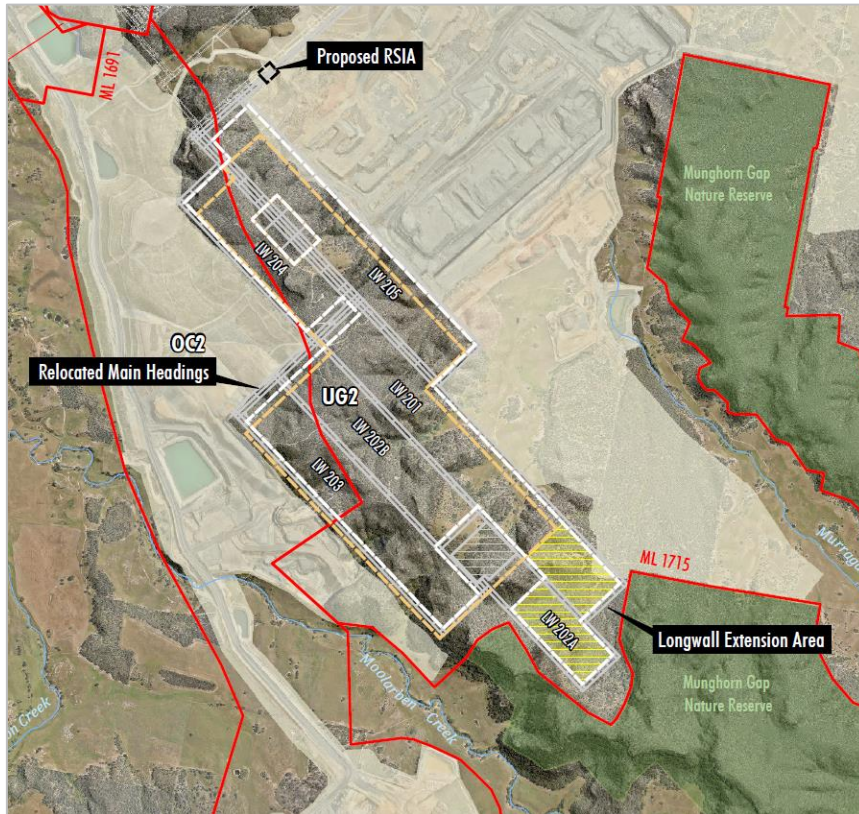
Easter False Pipistrelle



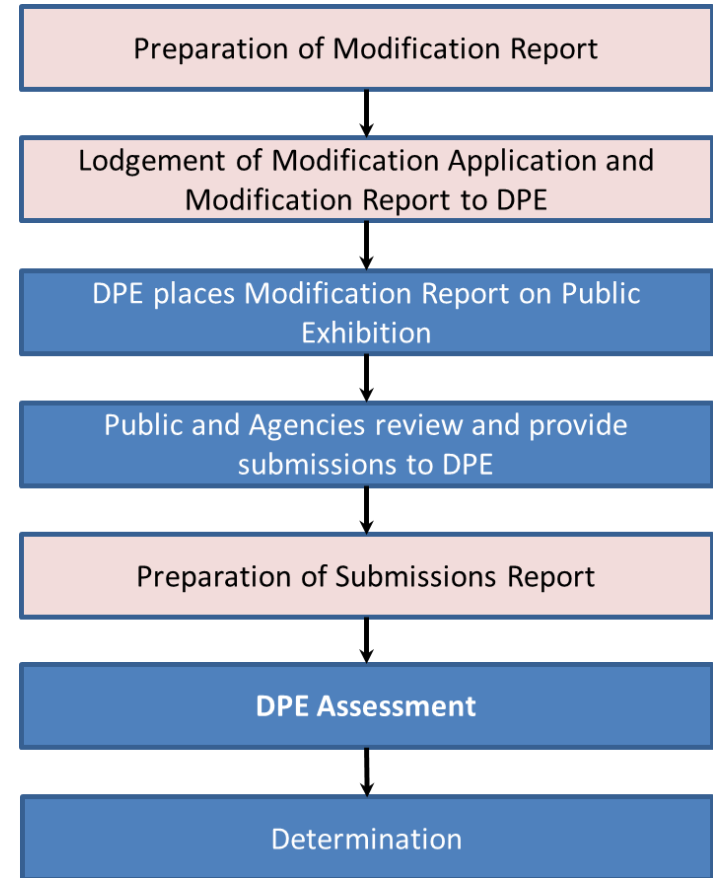
Greater Broad-nosed Bat

UG2 Modification

- UG2 Modification approved by DPHI in Dec 2023.
- Stage 2 Project Approval (08_0135) updated to incorporate Modification.

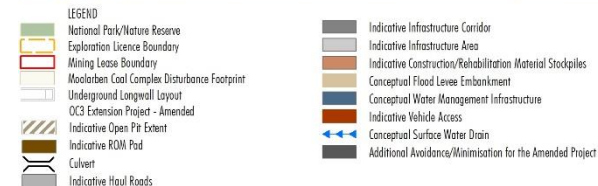
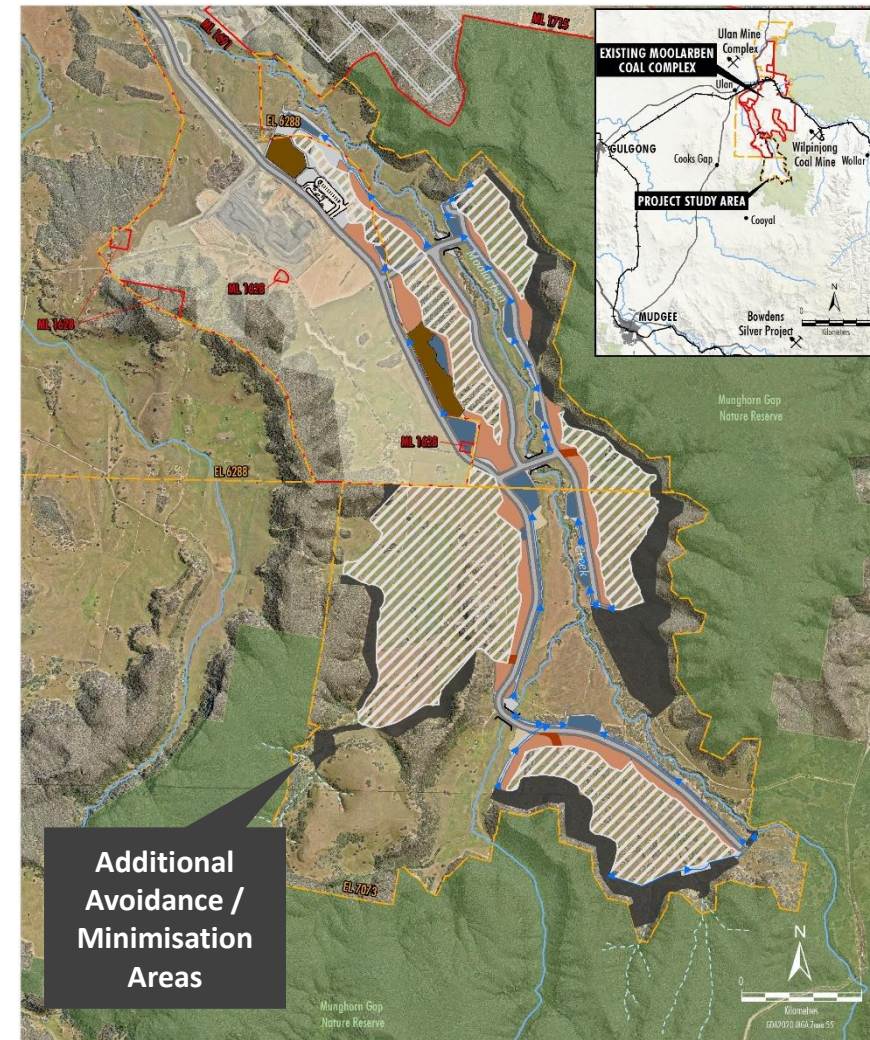


Current Status →



OC3 Extension – Proposed Amended Project

- Reduced disturbance extent from 875 ha to 625 ha.
- Reduced extent of open cut mining.
- Total ROM extraction of approx. 30 Mt over the life of the amended Project (40 Mt proposed in the EIS)
- Reduced peak annual ROM mining rate from 9 Mtpa to 8.5 Mtpa.
- Extension to Habitat Enhancement Area
- Revised conceptual post-mining land use with additional areas of native woodland rehabilitation
- No change to:
 - Mine life (between 2025 to 2034)
 - Hours of operation
 - Peak workforce
 - Backfilling of voids / final landform integration with approved OC3



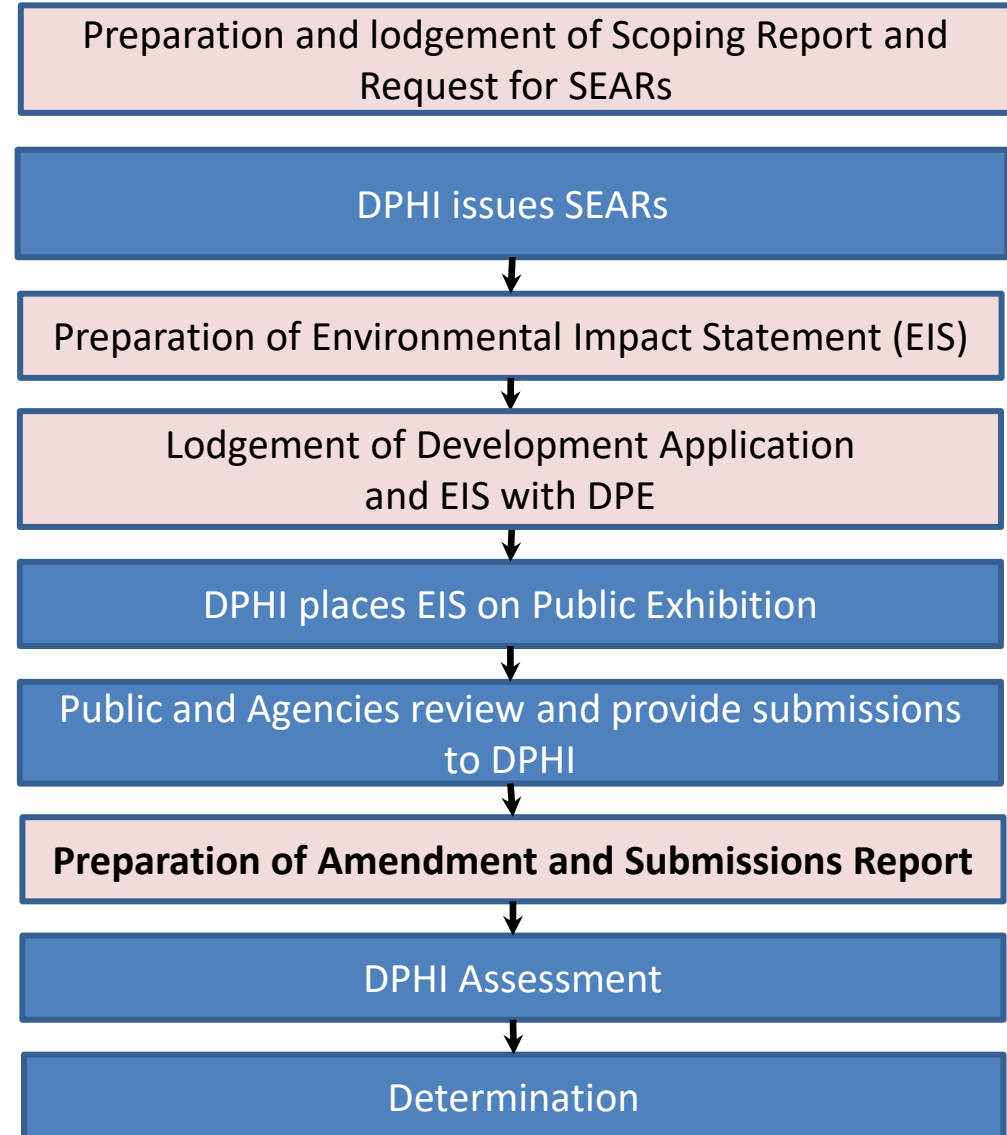
Source: IMCO (2023), NSW Spatial Services (2021), Orthophoto: IMCO (Jan 2021)

OC3 Extension – Proposed Amended Project

Amendment and Submissions Report

- To be lodged in early March 2024.
- Supporting specialist studies include:
 - Biodiversity
 - Aboriginal Cultural Heritage
 - Surface Water
 - Groundwater
 - Noise and blasting
 - Air Quality and Greenhouse Gas
 - Economic
 - Aquatic Ecology

Current Status →



Employment Update

Current Traineeships

- 23 Trainees currently onsite
 - 13 Underground Trainees
 - 10 Open Cut Trainees

Apprentices

- 32 Apprentices currently onsite
 - 11 Underground Apprentices
 - 13 Open Cut Apprentices
 - 8 Coal Handling and Preparation Plant (CHPP) Apprentices



