

**MOOLARBEN COAL OPERATIONS - COMMUNITY CONSULTATIVE COMMITTEE
MEETING No. 51**

Date: Tuesday 26th November 2019

Time: 4:34pm

Location: Parklands, Mudgee

Attendance: Independent Chairperson

Lisa Andrews (LA)

Community Members

Andrew Palmer (AP)

Bev Smiles (BS)

Helen Ungaro (HU)

Dr Julia Imrie (JI)

Aleisha Lonsdale (AL)

Cr John O'Neil (JO)

David Stokes (DS) *{arrived at 4.38pm}*

Moolarben Coal Operations

Grant Arnold (GA)

Graham Chase (GC)

Trent Cini (TC)

Mathew Croake (MC) *{Minute taker}*

Apologies

Steve Archinal

A hard copy of the Agenda and Meeting 51 Presentation was 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) CCC. GA was introduced and advised that he was filling in for SA.

2. Apologies

Steve Archinal

3. Business Arising from Previous Finalised Minutes

There was no business arising from Meeting 50.

Action 1: University of Queensland reviewing monitoring data to develop scope as part of Independent Water Quality Study. **Hold over to the next meeting.**

Action 2: Property purchased in Q2 2018

Action 3: Groundwater information provided in presentation.

Action 4: Proposed dewatering site is an expansion of the existing approved site located approximately 270m from river and 400m from the Drip.

Action 5: EPBC referral - Completed 12/11/19.

Action 6: Drip Deed - Land Registry Services in process of registering easements. Next steps dependent on LRS completing registration.

Correspondence

Correspondence to the CCC since meeting 50 included the following:

- 18/9/19 – Draft minutes sent to CCC members for review. Comments received back from JI and were incorporated into the minutes.
- 25/9/19 – Finalised minutes sent to CCC members.
- 3/10/19 – Email to CCC members advising of the lodgment of Modification 15 with DPIE.
- 12/11/19 – Email from MCO advising that the EPBC referral has been submitted. This information forwarded on to members.
- 14/11/19 – Email to members with the Meeting Notice & Agenda for this meeting with the Correspondence Report.

CCC Update Presentation

GC provided an update on the Community Support Program (CSP) including events and initiatives supported by MCO, along with upcoming events MCO are also assisting.

TC provided an operational update.

BS asked when the Water Treatment Plant (WTP) will be completed. GC advised MCO will start commissioning the WTP in December 2019 with releases dependent on sub-ordinate approvals (eg Environmental Management Plans) and operational requirements.

JI asked for the Underground (UG) water make. GC advised the average dewatering from the UG is approximately 70 litres per second including water input and recirculation.

Jl asked for the location of the Spontaneous Combustion. TC advised of occurrence in OC2 and described current actions MCO are undertaking. DS asked if MCO can compact the area. TC advised compaction is a method that MCO can use. Jl raised concern that current dry and hot climatic conditions have a potential to increase the risks.

TC provided an exploration update.

BS asked when MCO will be mining in OC3. GC advised mining will commence in the first quarter of 2020. Jl asked if MCO is relinquishing exploration sites in EL6288. TC confirmed MCO is progressively relinquishing exploration sites in EL6288. GC outlined the process of approval, rehabilitation and relinquishment of exploration sites.

TC provided an update on environmental monitoring including water quality, air quality, noise and complaints. General discussion of water quality and level monitoring results, Rainfall Cumulative Deficit (RCD), operations and climatic conditions.

BS asked what is MCO's expectation for noise levels when mining in OC3. GC advised the current noise mitigation methods will continue to be employed and that OC3 workings will generally be more sheltered than OC2 operations. BS asked if the Noise Policy for Industry is applicable for low frequency noise. GC advised that the Noise Policy for Industry, including the low frequency noise provisions is applicable for MCO. General discussion of Industrial Noise Policy, and Noise Policy for Industry and transitional arrangements for low frequency noise.

LA asked if MCO investigated noise complaints at the time of the complaint. TC explained the MCO complaints management process, including investigations and responses.

BS asked about the potential for dust generation from rehabilitation during on-going dry conditions. TC discussed current methodologies used to minimise potential dust from rehabilitated areas and the considerations of climatic conditions during rehabilitation planning. TC provided an update on Rehabilitation and Biodiversity Offset Management.

LA asked if MCO were successful in baiting wild dogs as a result of recent Wild Dog baiting programs. TC and MC confirmed the recent MCO Wild Dog Baiting programs were considered successful based on the percentage of baits taken.

GC provided an employment update.

GC provided update on the UG4 Ancillary Works Modification

Jl asked if the Submissions Report is on the website. GC confirmed that the Submissions Report is on the Planning website. GC explained there were some late Agency submissions which have not been published on the Planning website.

At this time, some CCC members were receiving notifications on their mobile phones regarding a bush fire in the Ulan area. HU left at 4.21pm providing her apologies.

4. General Business

Jl advised the CCC that she had completed her PhD and her formal graduation will be 12/12/19.

BS asked if MCO had altered their train movements during recent catastrophic Fire Danger days. GC advised that ARTC are responsible for train movements and noted that train movements had been halted during the previous Kaines Flat Fire.

Community Consultative Committee Update

November 2019

Environment & Community Dept
Moolarben Coal Operations



Community Support Program

Recent Community Support Events & Initiatives

- Gulgong Holtermann Museum
- Rylstone Street Feast
- Mathematical Minds



Upcoming Events and Initiatives

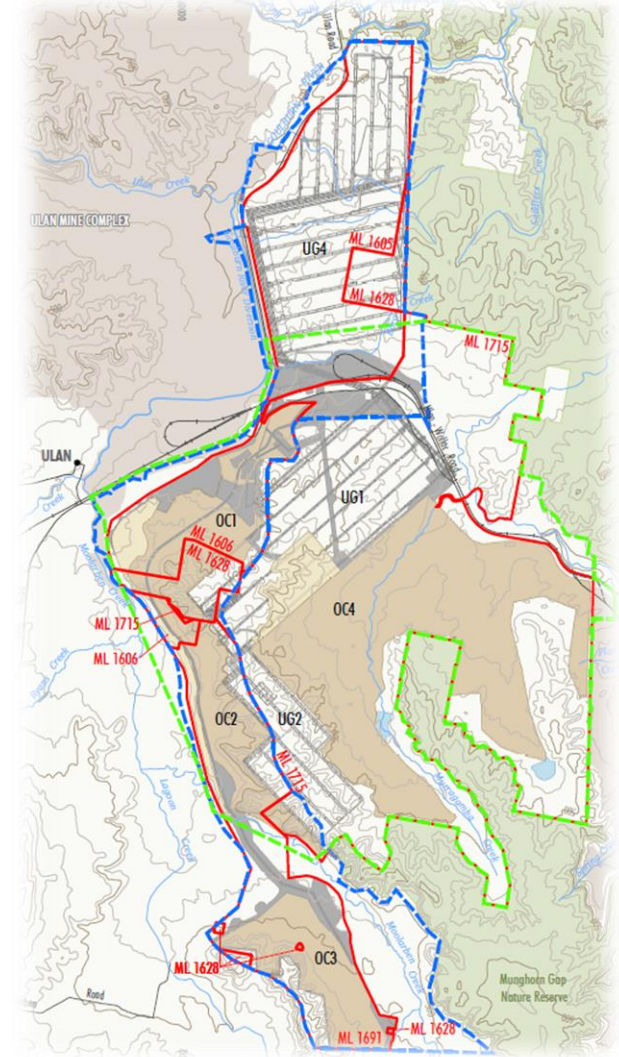
December

- Mudgee Rotary Club Showground Carols
- Lions Club – Christmas Twilight Markets
- Successful 2020 Community Support Program participants to be announced early in the new year.



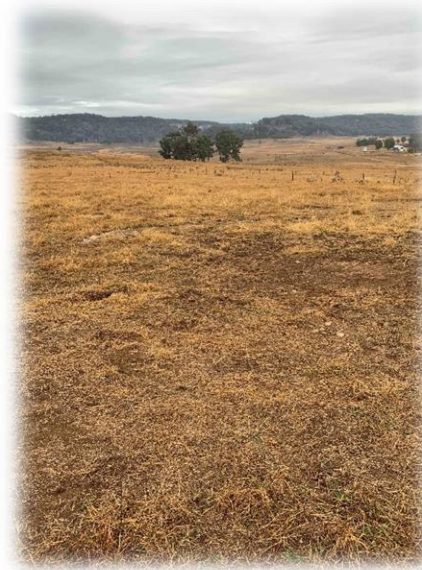
Operational Update

- Operations continue in OC2 & OC4.
- Longwall LW103 extraction continuing.
- UG development continues.
- Construction of Water Treatment Plant and water storages ongoing.
- Remediation of heating within overburden areas.
- Commencement of OC3 access construction.
- Mining Operations Plan replacement.
- Revising EMPs and UG1 Extraction Plan.

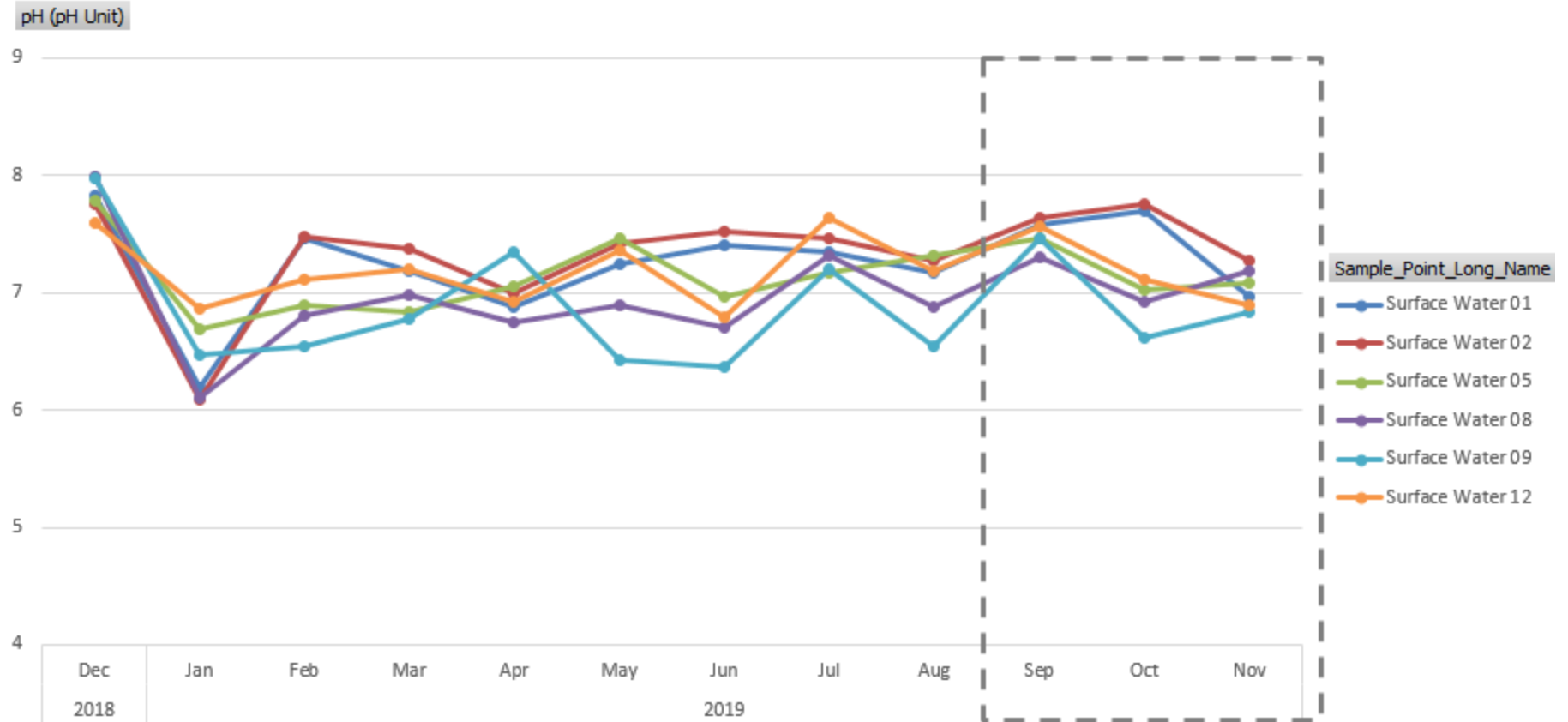


Exploration Update

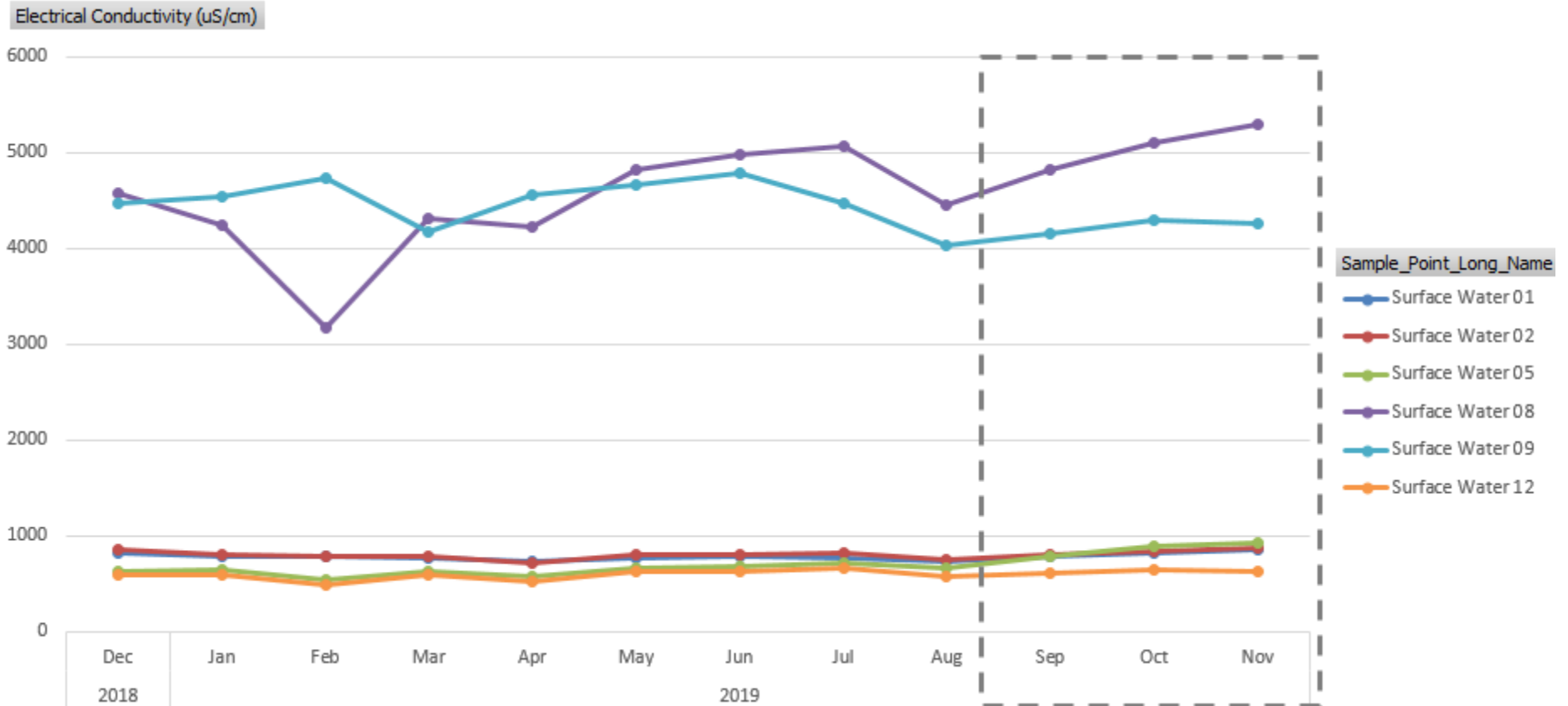
- Resource definition commenced in OC3 and UG2.
- EL6288 sites being prepared for relinquishment across OC3 & UG4.
- Rehabilitation and monitoring activities have continued during the period.



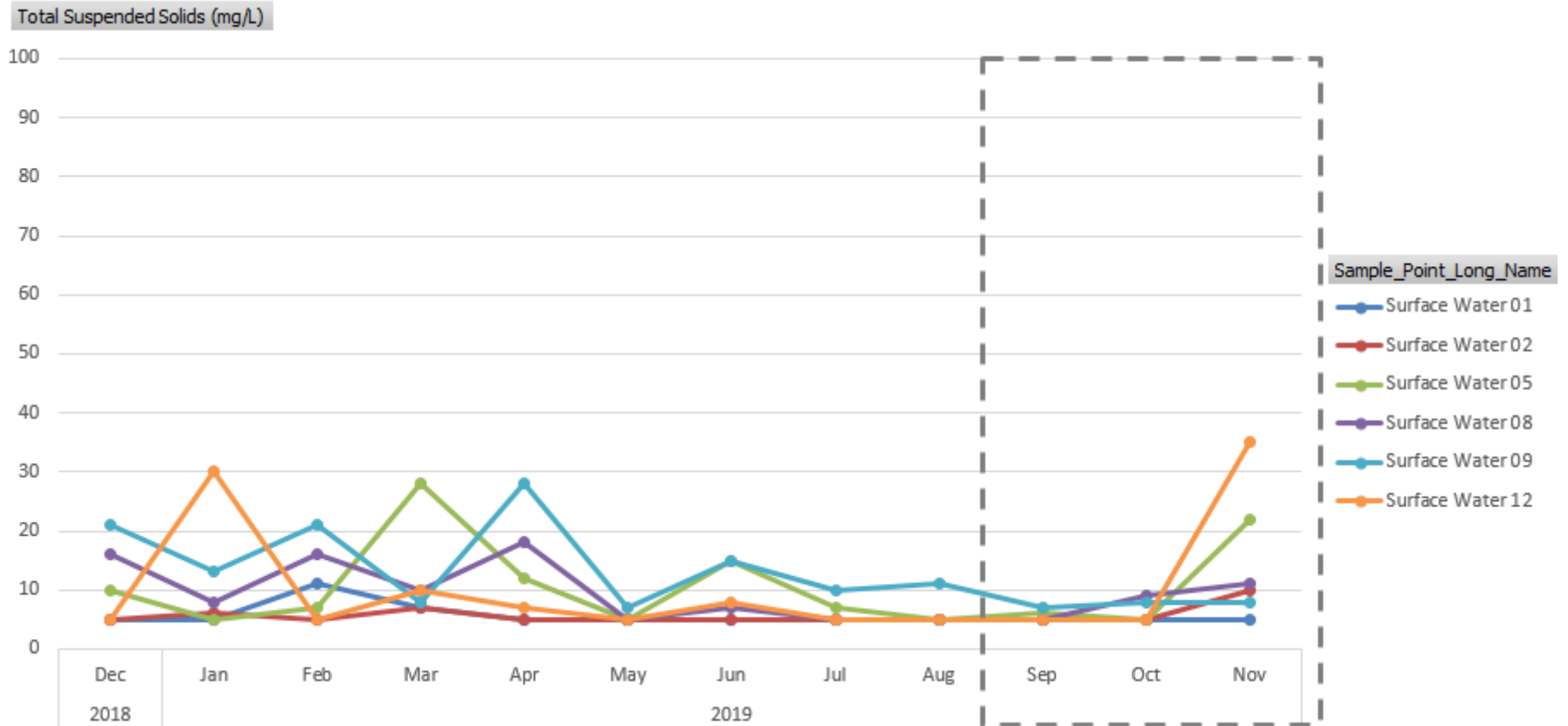
Water Quality - pH



Water Quality - EC

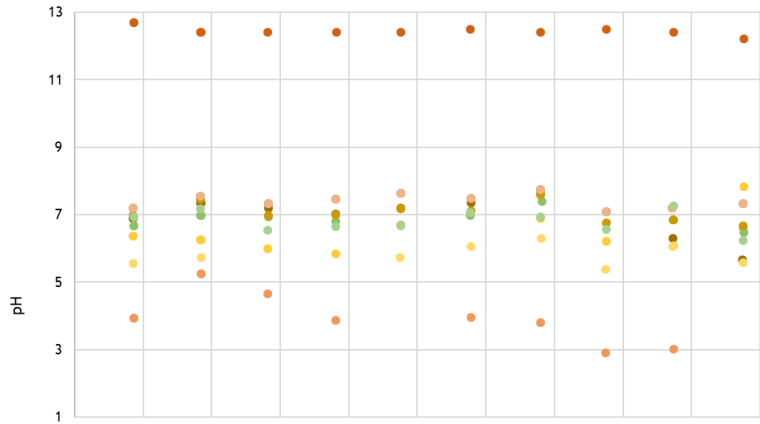


Water Quality - TSS

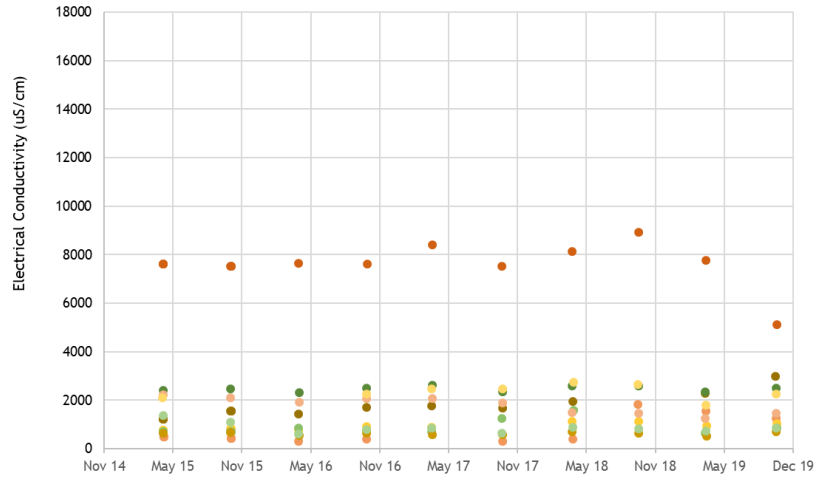


Water Quality - Groundwater

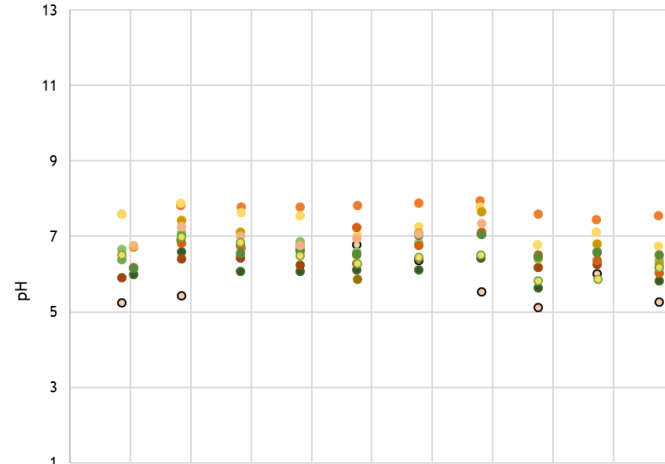
Water Quality - Marrangaroo and Ulan Seam



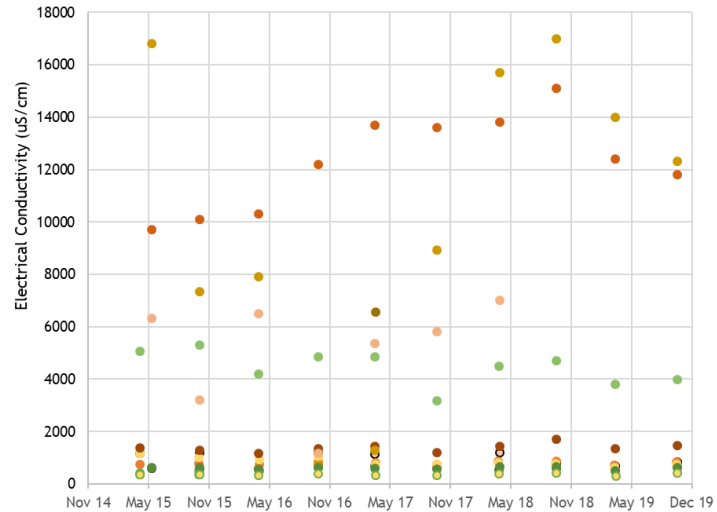
- PZ191 (Ulan Seam) PZ151 (Ulan Seam) PZ111 (Ulan Seam) PZ107 (Ulan Seam) PZ104 (Ulan Seam)
- PZ103A (Ulan Seam) PZ102B (Ulan Seam) PZ102A (Marrangaroo) PZ055 (Marrangaroo) PZ003 (Ulan Seam)



Water Quality - Permian Overburden

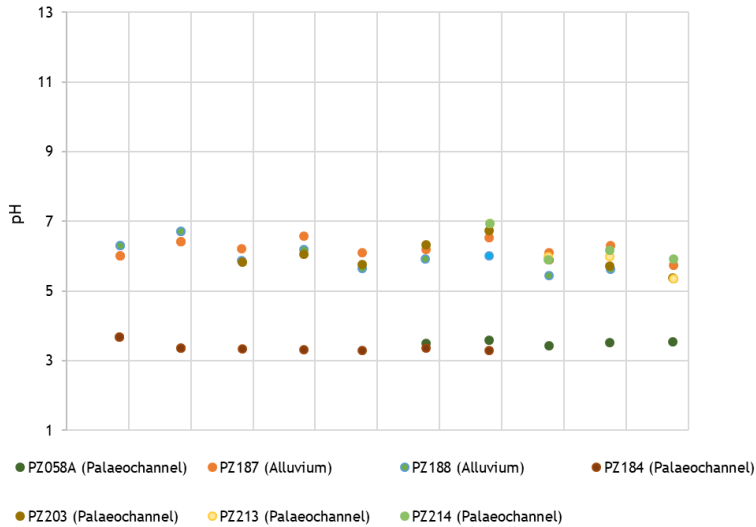


- PZ039 PZ040B PZ101B PZ103B PZ109 PZ137 PZ152
- PZ170 PZ174 PZ175 PZ176 PZ177 PZ189

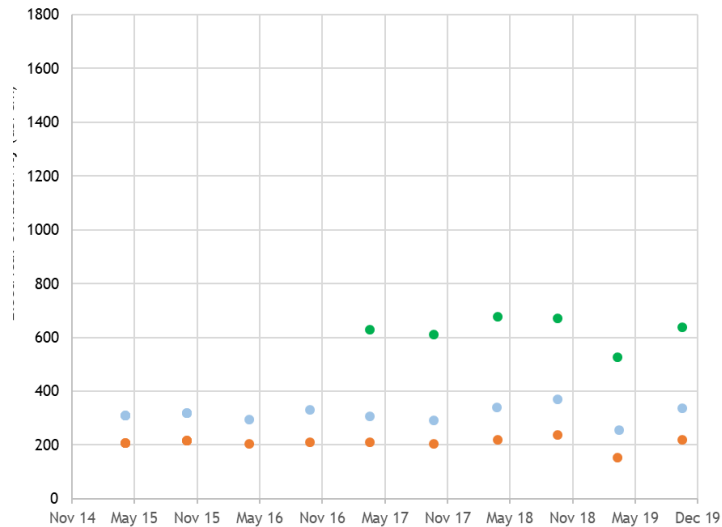
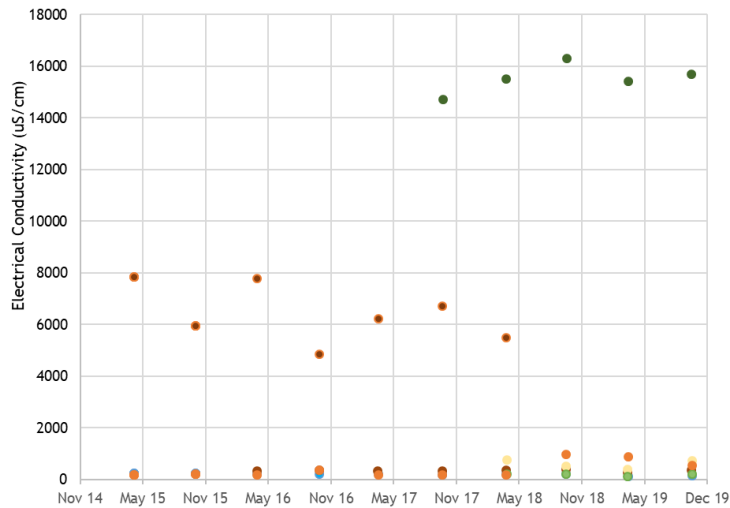
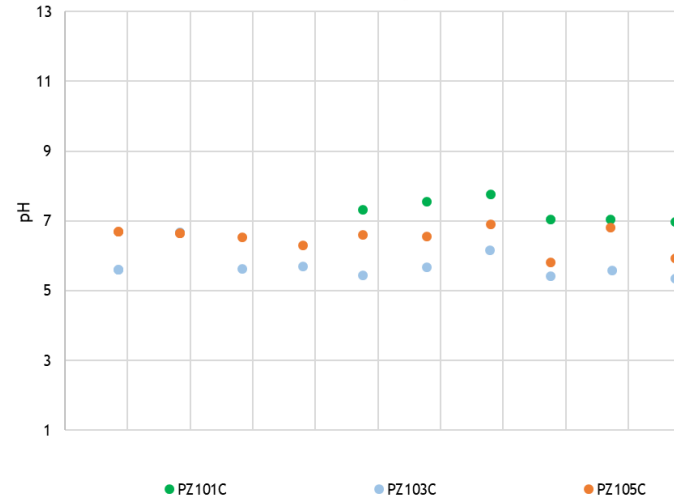


Water Quality - Groundwater

Water Quality - Palaeochannel & Alluvium

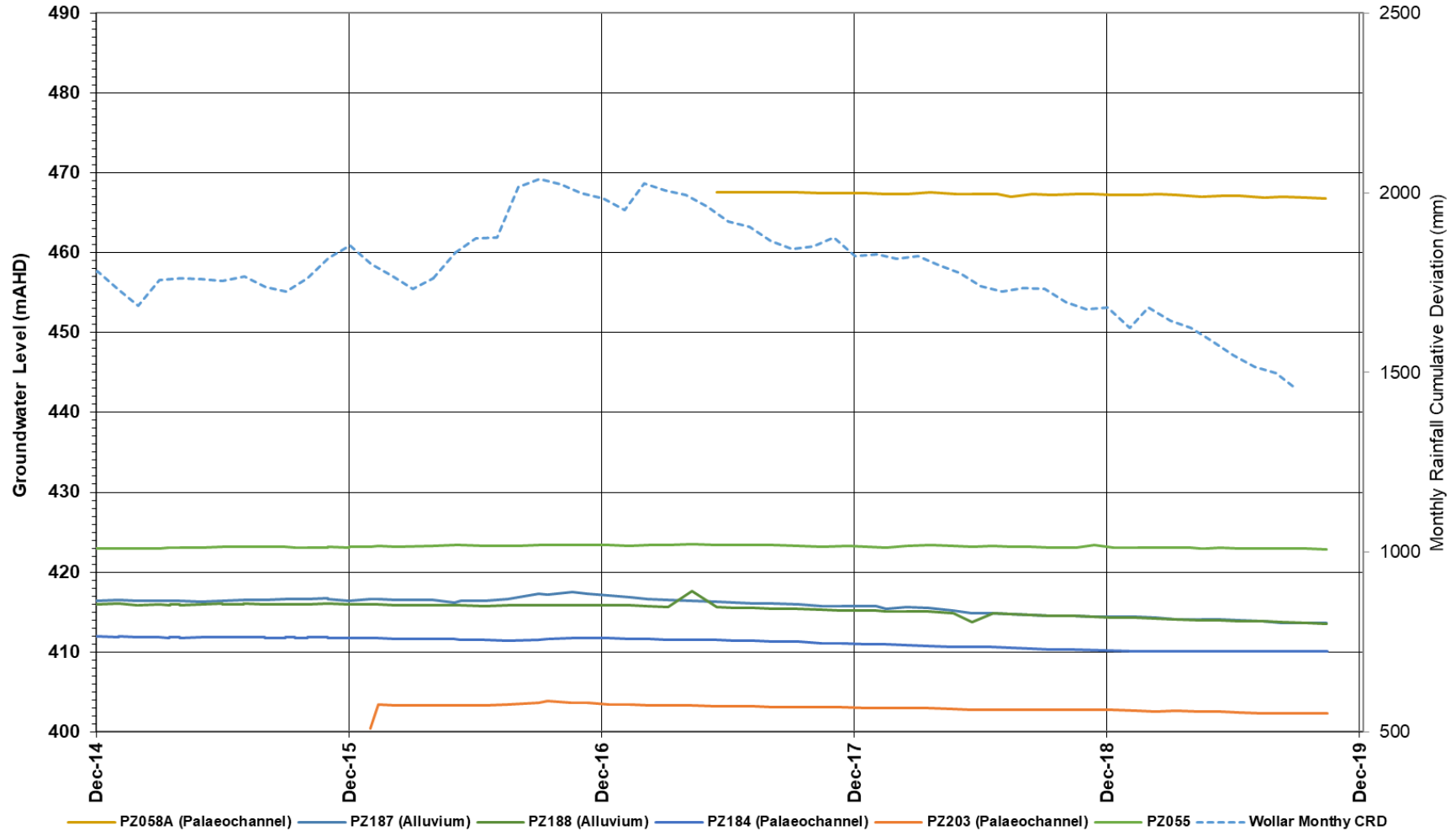


Water Quality - Triassic



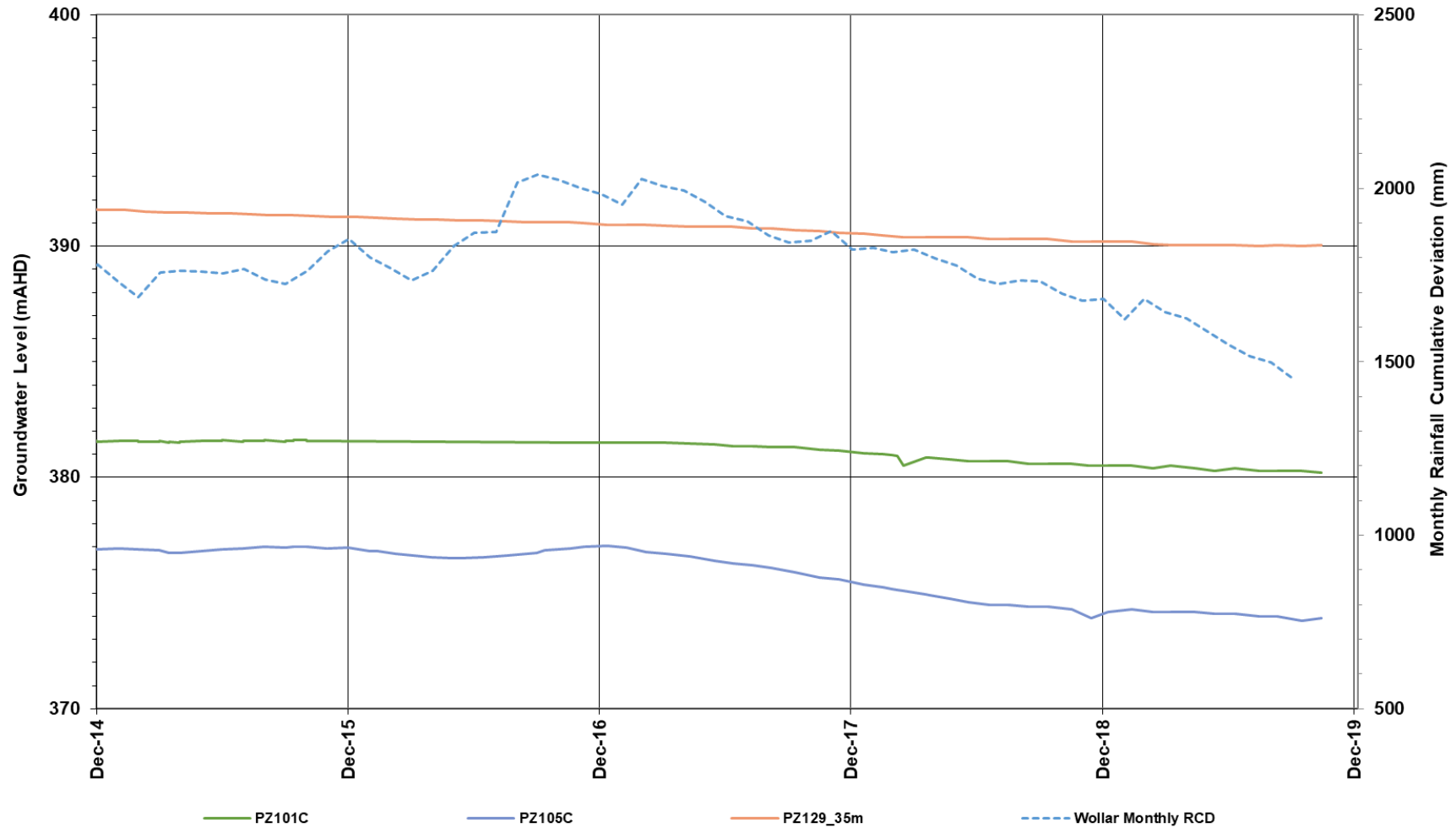
Groundwater - Level

HYDROGRAPHS - Palaeochannel and Alluvium



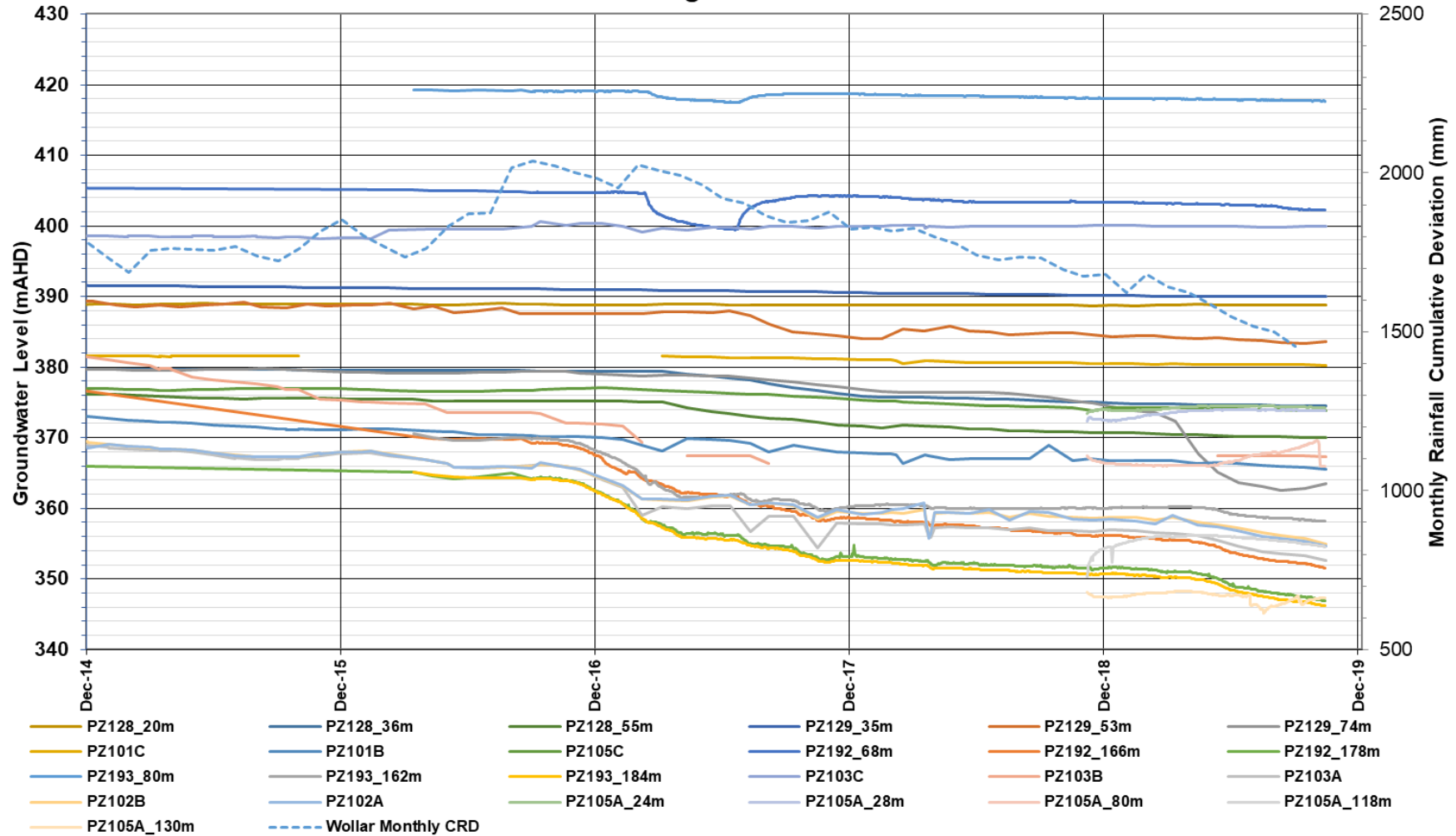
Groundwater - Level

HYDROGRAPHS - Triassic



Groundwater - Level

HYDROGRAPH - Monitoring Network Near the Goulburn River



Air Quality

Site	October 2018 PM10 Annual Average ($\mu\text{g}/\text{m}^3$)	October 2019 PM10 Annual Average ($\mu\text{g}/\text{m}^3$)	Air Quality PM10 Annual Average Criteria ($\mu\text{g}/\text{m}^3$)
TEOM 01	14.49	16.06	25.0
TEOM 07	15.00	15.63	25.0
TEOM 04	17.85	19.45	25.0

Site	October 2018 PM2.5 Annual Average ($\mu\text{g}/\text{m}^3$)	October 2019 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	N/A	5.52*	8.0

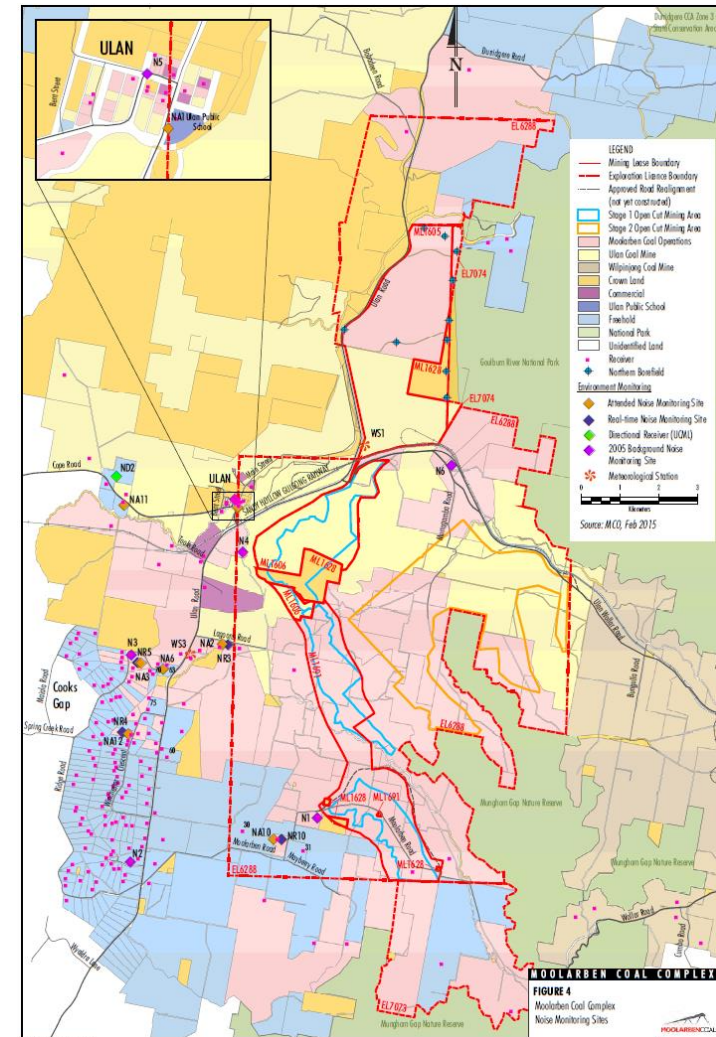
*less than 12 months of data

Monthly monitoring reports are available on our website:

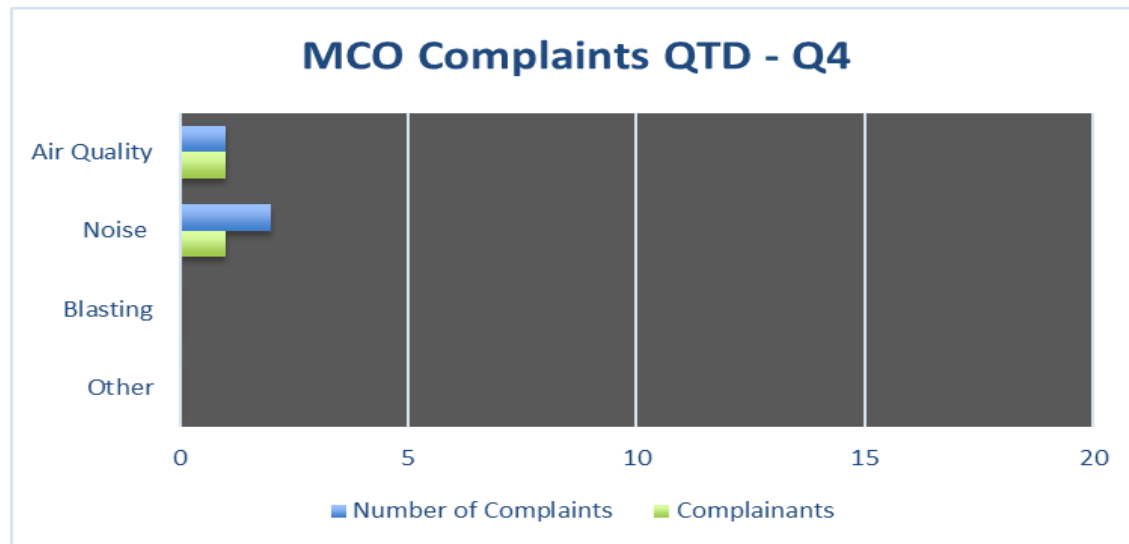
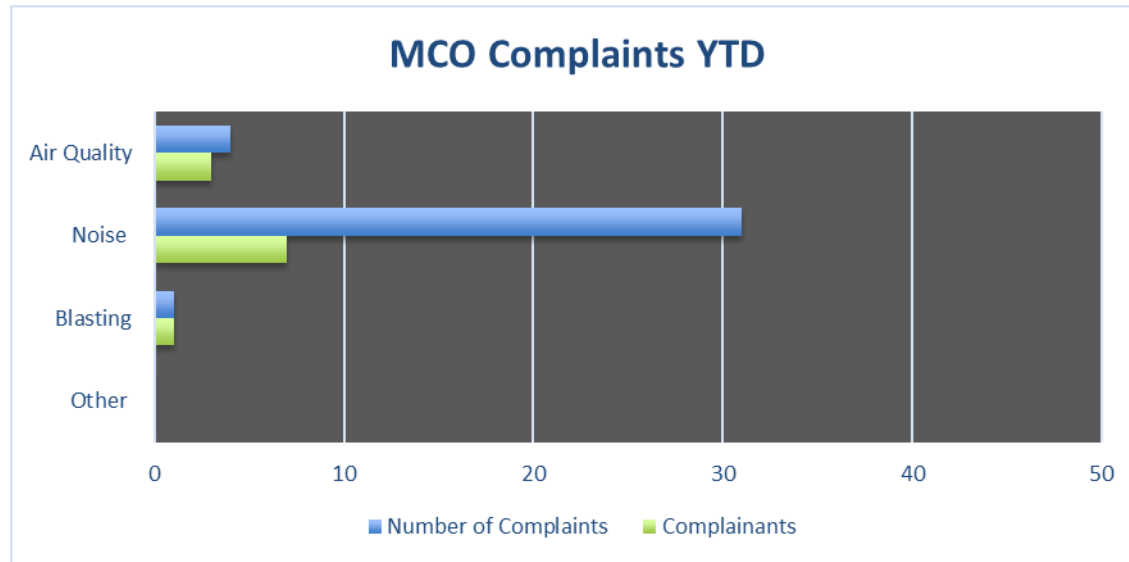
www.moolarbencoal.com.au/environment-and-community/monitoring-results/

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



Community Complaints



Rehabilitation Update

- Rehabilitation maintenance works are continuing.
- Landform establishment works have continued



Biodiversity Offset Management

- Biodiversity Offset spring monitoring completed.
- Scrap steel, fence removal & general waste removal continued from BOA's.
- Continued participation in baiting programs in conjunction with the LLS and wild dog groups.
- 5,000 trees now planted on the Bobadeen Offset.



Employment Update

Traineeships

- Currently 18 Underground

Apprentices

- Currently 8 Underground & 17 Open Cut
- 6 Apprentices commence in January

General

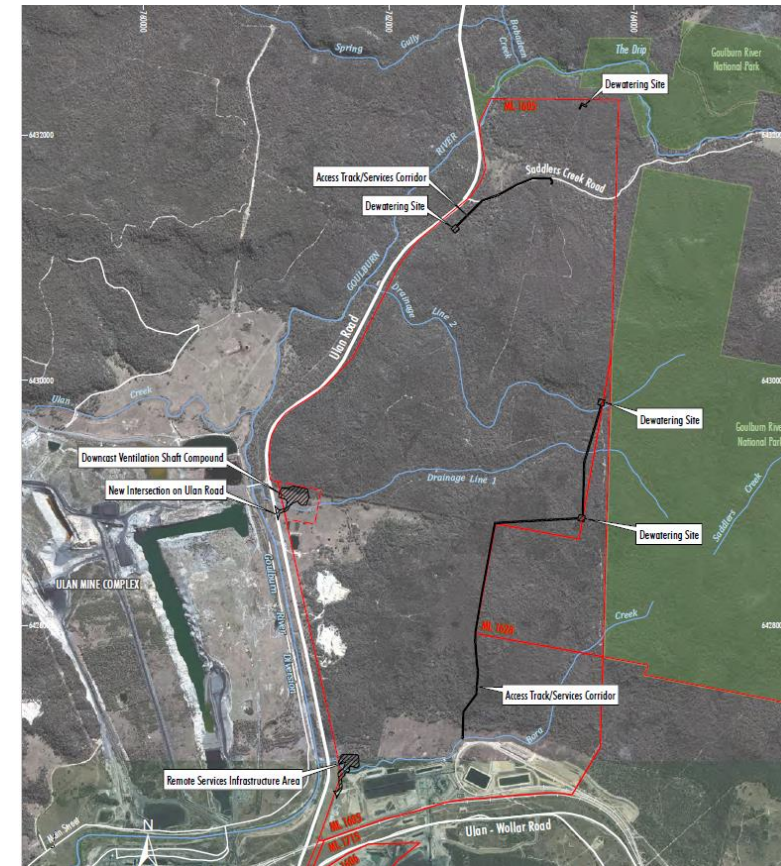
- Skillset Land Works – 3 Traineeships in Conservation Land Management commence in 2020.



UG4 Ancillary Works Modification

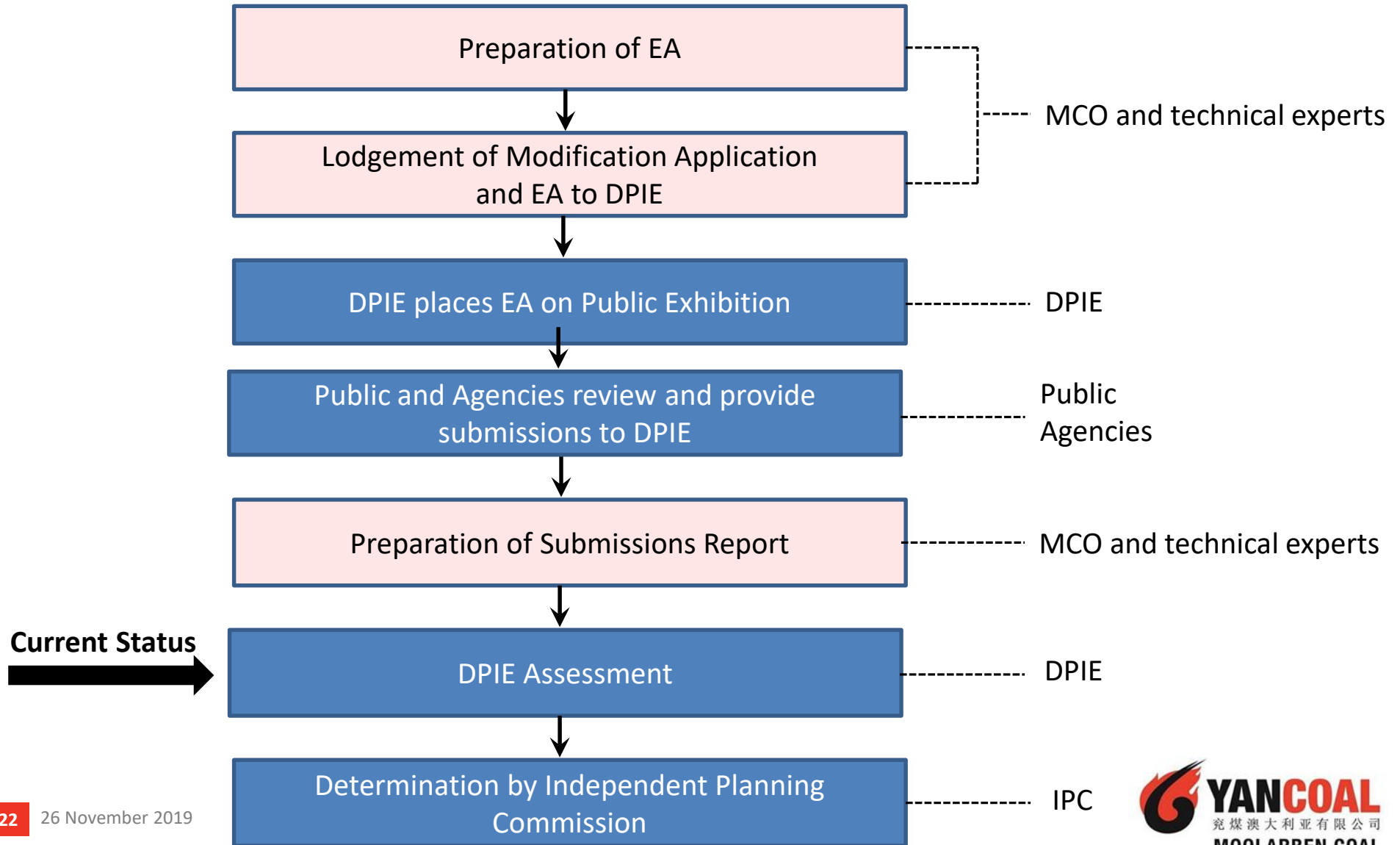
Modification Overview

- Modification to Stage 1 Project Approval
- Ancillary surface infrastructure for UG4
- Public exhibition from 4 to 20 October 2019.
- Submissions Report lodged with the Department of Planning, Industry and Environment in November 2019.
- 8 Agency, 5 community organisation and 24 members of public submissions.
- Key issues raised in submissions included impact to Goulburn River Services Infrastructure water quality, impacts to offset area, cultural heritage, noise, traffic and visual impacts.
- EPBC referral submitted for Commonwealth Department of Energy and Environment.



UG4 Ancillary Works Modification
Indicative Surface Infrastructure Area

UG4 Ancillary Works Modification Update



ON BEHALF OF MOOLARBEN
WE WISH YOU AND YOUR FAMILIES
A MERRY CHRISTMAS
AND HAPPY NEW YEAR



5. Meeting Schedule for 2020:

The meeting schedule for 2020 was discussed and agreed:

- Tuesday 17 March 2020
- Tuesday 2 June 2020
- Tuesday 15 September 2020
- Tuesday 24 November 2020.

Commencement time: 4pm at the MCO administration office.

The meeting closed at 5:34pm with CCC members keen to return to their homes due to the local bush fire. It was therefore agreed to cancel the Christmas dinner proposed by MCO.

LA thanked all members for their contribution and attendance through 2019, wishing them a Merry Christmas and happy/safe new year.

Action Items:

Item	Action	Responsibility
1	MCO to provide an update on the IWQS at the next meeting.	MCO
2	MCO to provide an update on the progress of the Drip deed.	MCO