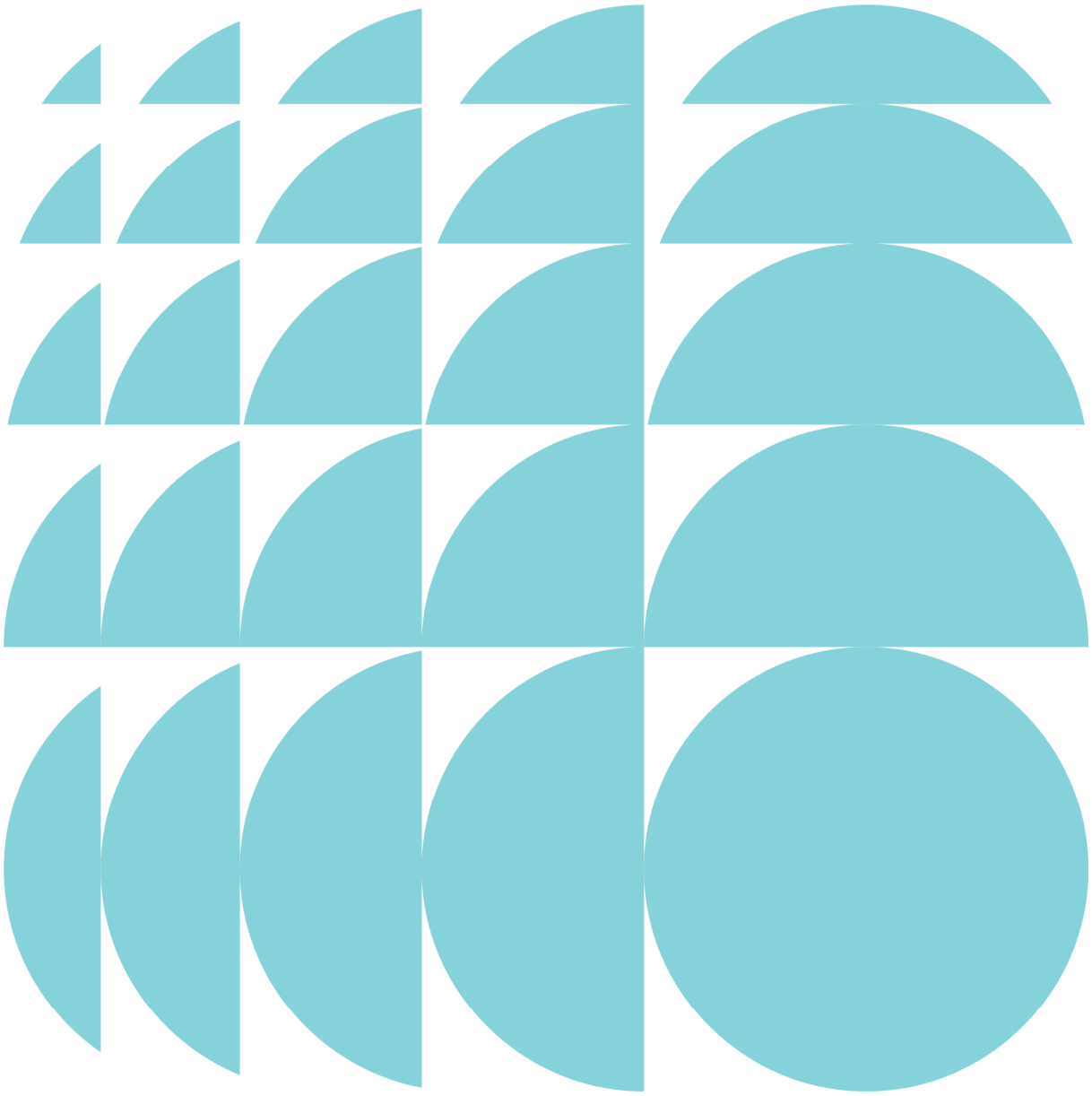
ETHOS URBAN

Peppertree Quarry (06_0074) Community Consultative Committee Annual Report

843 Marulan South Road Marulan

Submitted to Department of Planning and Environment
On behalf of Boral

05 July 2019 | 08359



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This document has been prepared by:

Gordon Kirkby 5 July 2019

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A 2018 CCC Presentations and Minutes

B Peppertree Quarry and Marulan South Limestone Community Plan 2015-17

C Boral Marulan South 2018 Newsletters

1.0 Introduction

This annual report provides a record of the activities of the Community Consultative Committee for the Peppertree Quarry, operated by Boral, at Marulan South. The Community Consultative Committee was formed and operates in accordance with Condition 8 of the consent granted by the Minister for Planning for the quarry and associated Infrastructure on 28 February 2007 ((06_0074). The Condition is replicated below:

COMMUNITY CONSULTATIVE COMMITTEE

8. Prior to the commencement of construction, the Proponent shall establish a Community Consultative Committee (CCC) for the project. The CCC shall:

(a) be comprised of:

- *2 representatives from the Proponent, including the person responsible for environmental management at the quarry;*
- *1 representative from Council (if available); and*
- *at least 3 representatives from the local community, whose appointment has been approved by the Director-General;*

(b) be chaired by an independent chairperson, whose appointment has been approved by the Director-General;
(c) meet at least twice a year;
(d) review the Proponent's performance with respect to environmental management and community relations;
(e) undertake regular inspections of the quarry operations;
(f) review community concerns or complaints about the quarry operations, and the Proponent's complaints handling procedures; and
(g) provide advice to:

- *the Proponent on improved environmental management and community relations, including the provision of information to the community and the identification of community initiatives to which the Proponent could contribute;*
- *the Department regarding the conditions of this approval; and*
- *the general community on the performance of the quarry with respect to environmental management and community relations.*

Notes

- *The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval.*
- *The membership of the CCC should be reviewed on a regular basis (every 3 years).*
- *If possible, an alternate member should be appointed for each of the representatives from the local community.*

9. At its own expense, the Proponent shall:

(a) ensure that 2 of its representatives attend CCC meetings;
(b) provide the CCC with regular information on the environmental performance and management of the project;
(c) provide meeting facilities for the CCC;
(d) arrange site inspections for the CCC, if necessary;
(e) take minutes of the CCC meetings;
(f) make these minutes available to the public;
(g) respond to any advice or recommendations the CCC may have in relation to the environmental management or community relations; and
(h) forward a copy of the minutes of each CCC meeting, including a response to any recommendations from the CCC, to the Director-General within a month of the CCC meeting.

2.0 Peppertree Community Consultative Committee

The Peppertree Quarry Community Consultative Committee was established in 2009 with Gordon Kirkby appointed as Chair by the then Director-General of the Department of Planning.

2.1 Committee Members

In 2018, the committee comprised the following members:

- Gordon Kirkby (Independent Chair)
- Geoff Clarke (Community representative, Tallong Community Focus Group)
- Denzil Sturgiss (Goulburn Mulwaree Council)
- Russell Montgomery (community representative)
- Tino Foti (local business representative)
- Charles Mendel (community representative)
- Sharon Makin (Boral Stakeholder and Environmental Advisor)
- Angus Shedden (Boral representative)

The Committee membership is in accordance with the requirements of Condition 8 of the development consent. There have been no changes to the Committee membership during 2018.

2.2 Committee Meetings

During 2018, there were two meetings of the Committee:

- 11 April 2018 – held at Boral Peppertree Quarry Offices
- 15 August 2018 – held at Midge Café, Caura Rd, Tallong

A third meeting was scheduled for 28th November however was cancelled due to inclement weather on the day.

2.3 Committee Conduct

The conduct of the Committee has been undertaken in accordance with the Code of Conduct in the Department's *Community Consultative Committee Guidelines for State Significant Projects (November 2016).* No breach of the guidelines have been identified or reported.

3.0 Committee Meetings

The presentation and minutes of the Committee Meetings are included in Appendix A. As stated in Section 2.2 above, there was no meeting held in November 2018 due to inclement weather.

4.0 Boral Community Activities

4.1 Boral Community Plan

Boral undertakes community activities in accordance with the Community Plan. The plan covers both the Peppertree Quarry as well as the nearby Boral Marulan South Limestone Operations and identifies stakeholders, set the approach for engagement activities and communication and evaluates the success of the plan through stakeholder feedback and review. A copy of the plan is at Appendix B.

The Community Plan 2015-17 is the current endorsed plan. It is currently being updated for the 2018-2020 period.

4.2 Boral Community Updates

Boral provides regular community updates by way of a newsletter to the surrounding community. In 2018, newsletters were released in July, August September and November. Copies are at Appendix C.

4.3 Community Initiatives

During 2018, Boral took part in or supported the following community activities

- Tallong Apple Day Festival – major sponsor
- Marulan Kite Festival – major sponsor
- Boral Youth Leadership Program – partnered Outward Bound in developing leadership skills for students through community projects
- Marulan Rail Station 150th anniversary – donated and installed granite centrepiece

4.4 Community Complaints Register

A community complaints register is accessible on the project website:

https://www.boral.com.au/sites/default/files/media/field_document/complaints%20register%202011.pdf

During 2018, three complaints were registered on the website. Two complaints related to blasting. The first was a query from a nearby resident and was found to relate to blasting from another quarry in the locality. The second blasting complaint was related to Peppertree Quarry. The complaint was investigated, and monitoring results indicated that the blast was within consent limits.

The third complaint related to dust associated with a train carrying product through Bundanoon Station. Boral has verified that the train was associated with the quarry and is conducting investigations regarding further options to manage dust from rail carriages during adverse wind conditions.

APPENDIX A

2018 Presentations and Minutes

Community Consultative Committee

April 2018

Agenda item 3 – Correspondence (since November)

- **Department of Planning and Environment**
  - AEMR 2017 issued
  - Request for road transport of overburden for Aglime
  - Request for road transport of rocks to Bungonia for Soil Conservation service work
  - Advice of noise levels exceeding criteria and voluntary undertaking
  - Advice of Modification 5 – request for information on EA

- **EPA**
  - Advice of noise levels exceeding criteria and voluntary undertaking

- **G Clark**
  - weather data reviews – weather station monthly reviews (Oct, Nov, dec 2017, jan, feb, march 2018)
  - Corrected weather data
  - Email re weather station assessment

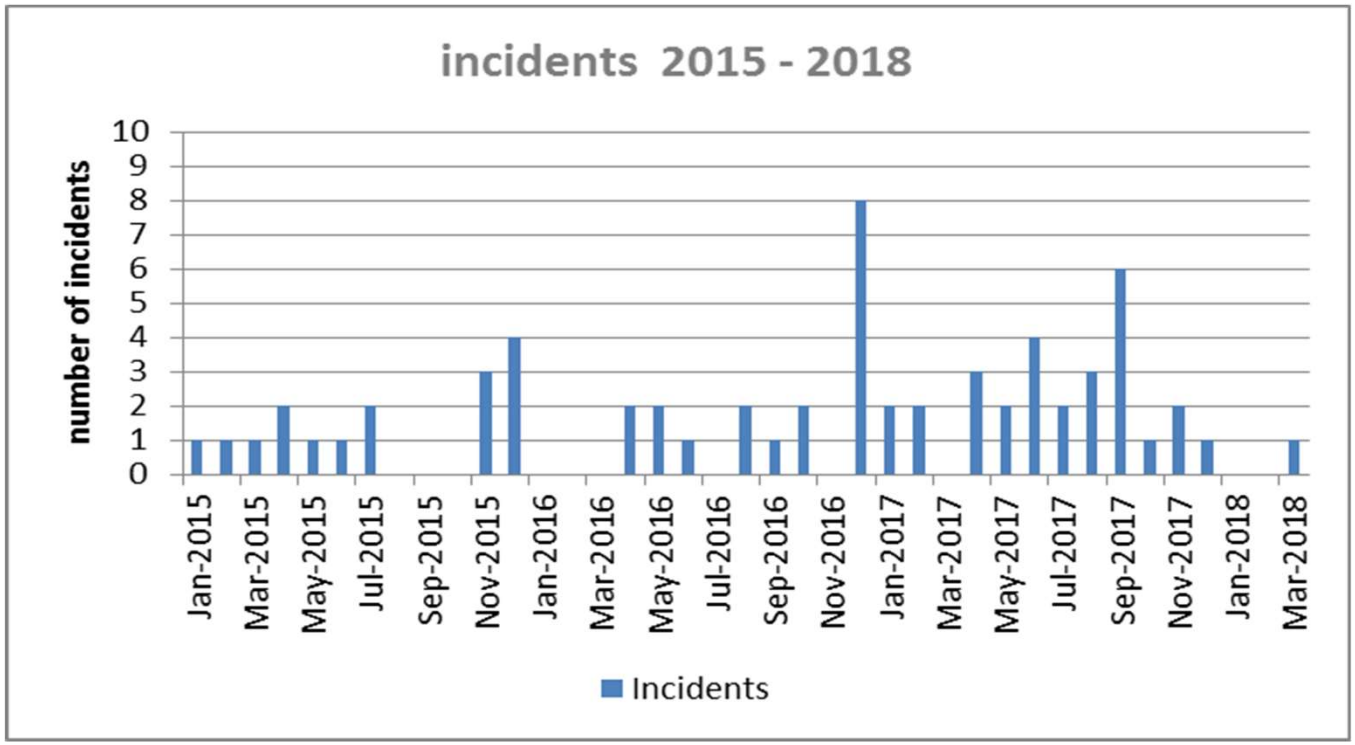
Agenda item 4 – Operations

- **Safety**
  - Achieved zero LTI's since last CCC (Nov 2017)
- **Overburden**
  - Overburden works continuing to open the pit eastwards and placement in the southern overburden area
- **Pit update**
  - Mine plan remains a consistent Easterly direction with additional load and haul of rock from top bench as part of the overburden works
- **Processing**
  - Volumes remain very healthy
  - Two projects underway to help increase productivity:
    - Reclaim hopper at the surge pile to reduce requirement to push in the surge
    - Two additional air classifiers to improve sand consistency in wet weather
- **People**
  - Relatively stable workforce over past few months
  - Development of people remains a priority
    - Geoff Stephens now QM at Peats Ridge
    - Huge number of competency assessments completed

Agenda item 5 – OH&S Performance

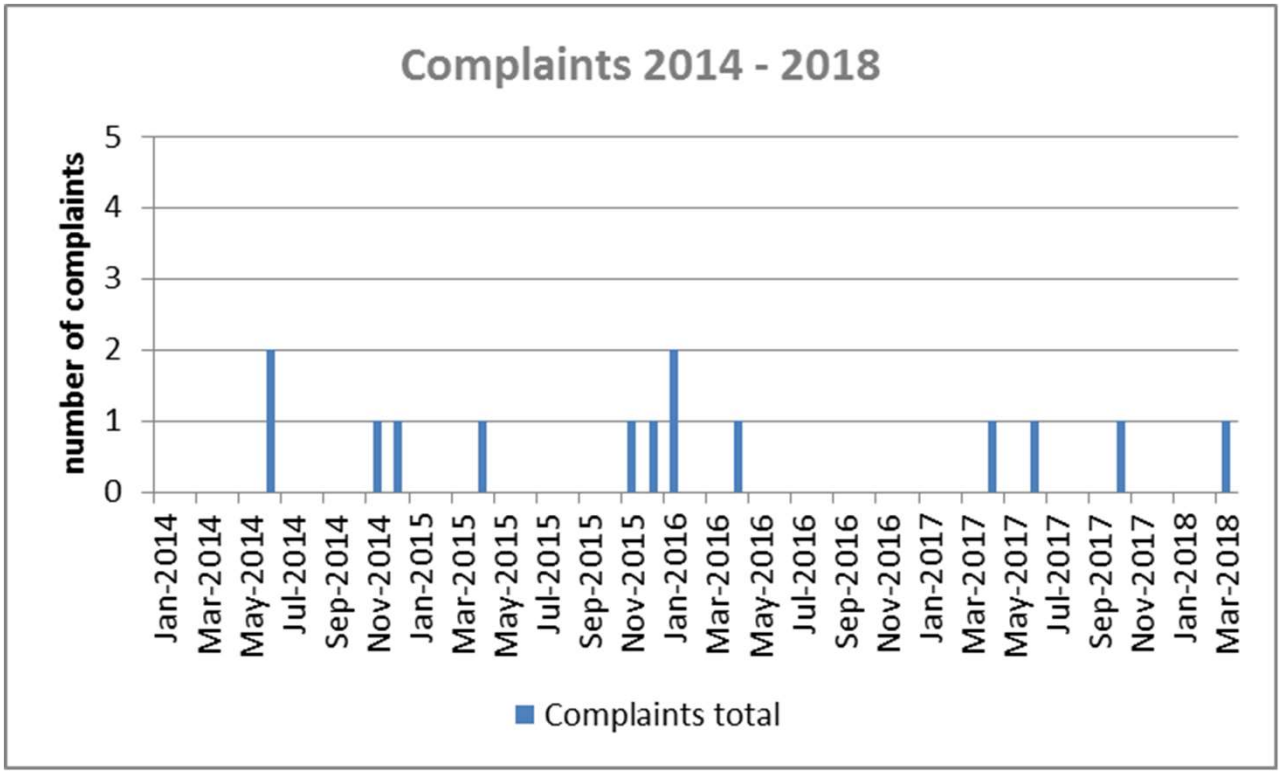
- No loss time injuries
- Two DPI audits conducted:
  - Electric shock and Arc burns
  - Explosives Control Plan conducted
- Dedicated pedestrian areas established around site to improve pedestrian safety

Agenda Item 6 - Environmental Performance Incidents



Nov 2017 - 1 hydraulic hose spill
Dec 2017 – 1 hydraulic hose spill
March 2018 – 1 diesel spill during refuelling

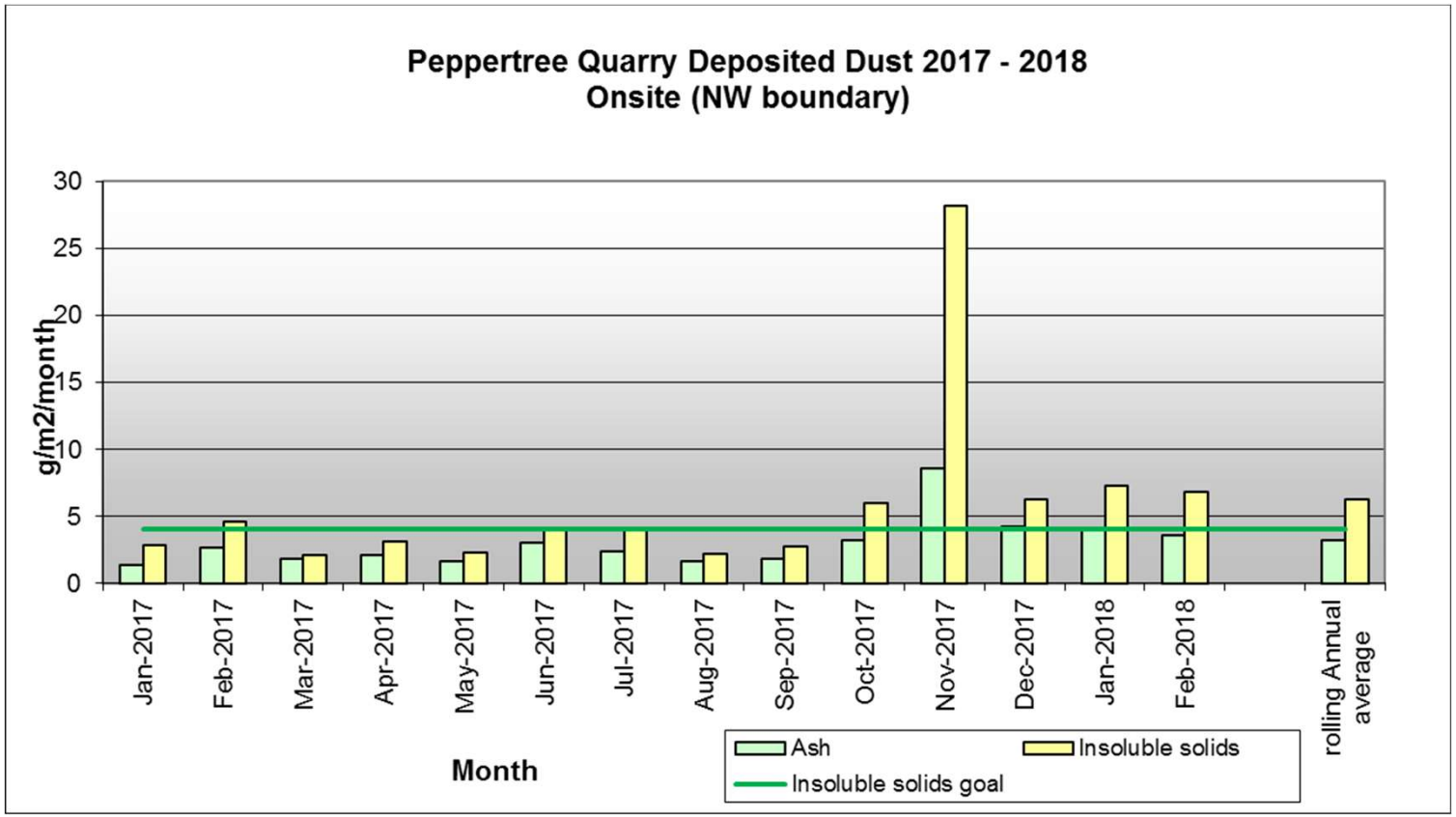
Agenda item 6 – Environmental Performance
Complaints



October 2017 – 1 regarding traffic
March 2018 – Noise

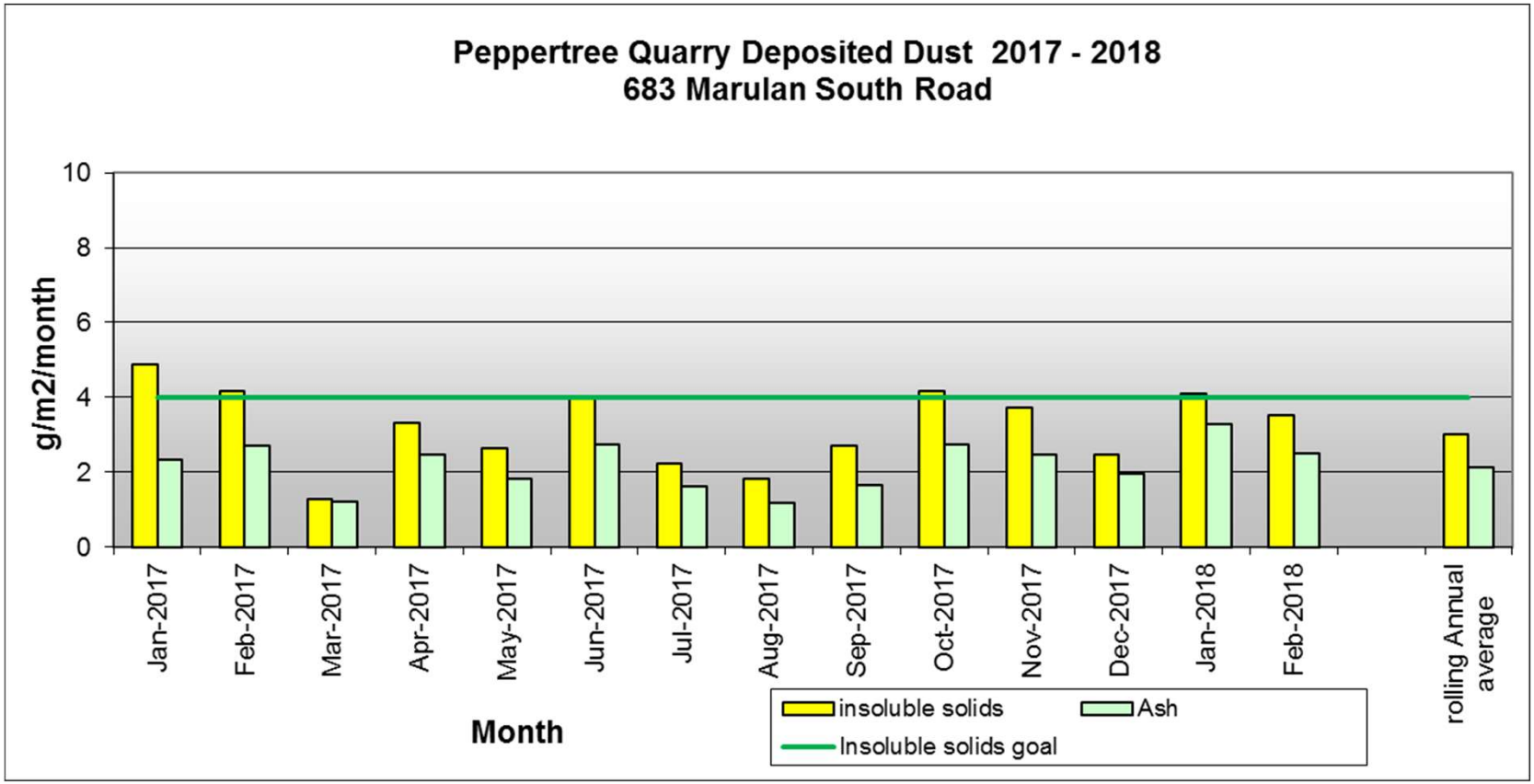
6 texts regarding noise as part of our noise investigations at a residential receiver

Agenda item 6 – Environmental Performance
Air



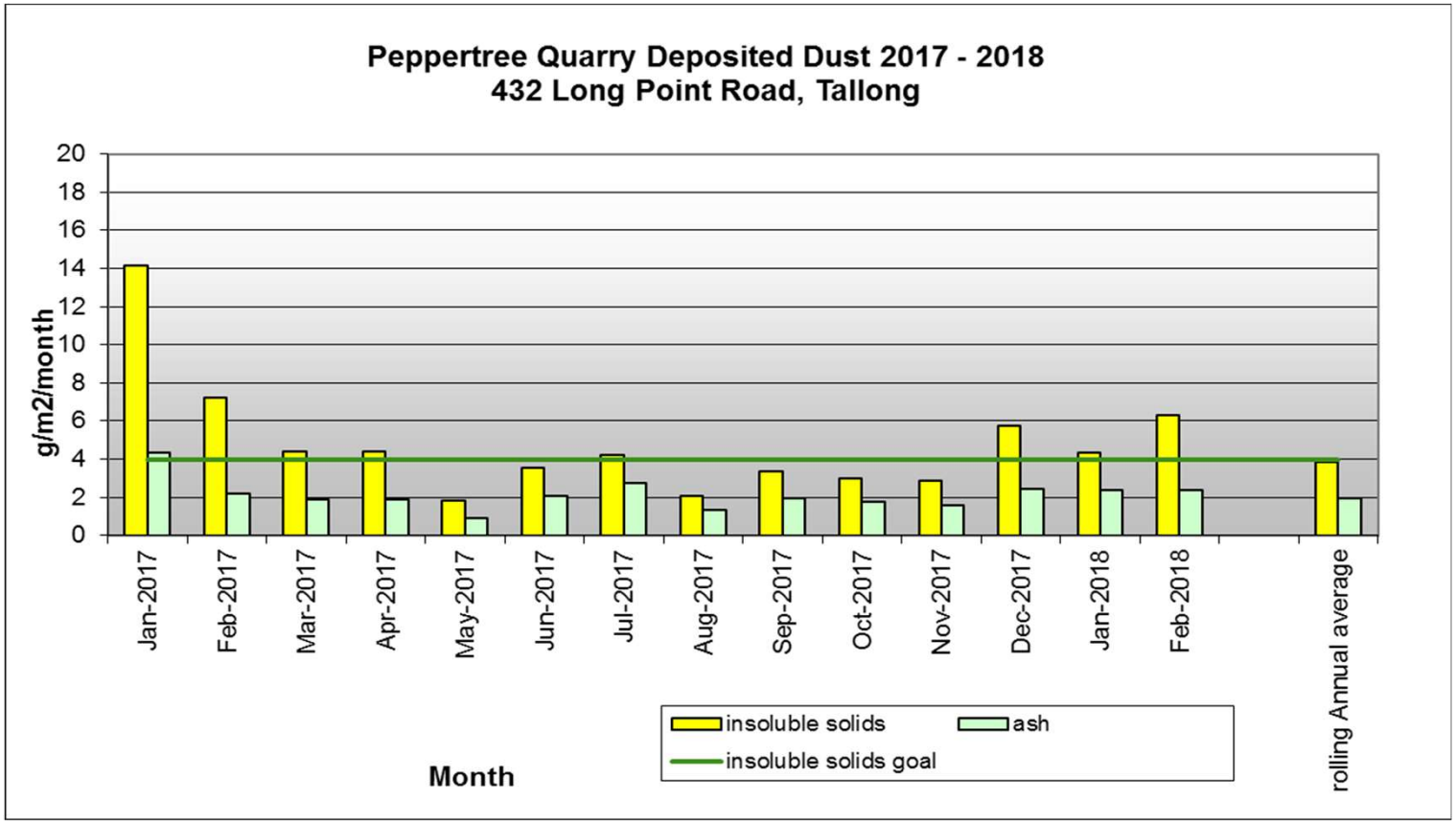
Annual Average goal of 4gm2/month
not in compliance at the site however majority of insoluble solid is organic
Annual average would be below goal at the boundary
Report received advising relocation of the bottle to the boundary

Agenda item 6 – Environmental Performance
Air



Annual Average goal of 4gm2/month
In compliance

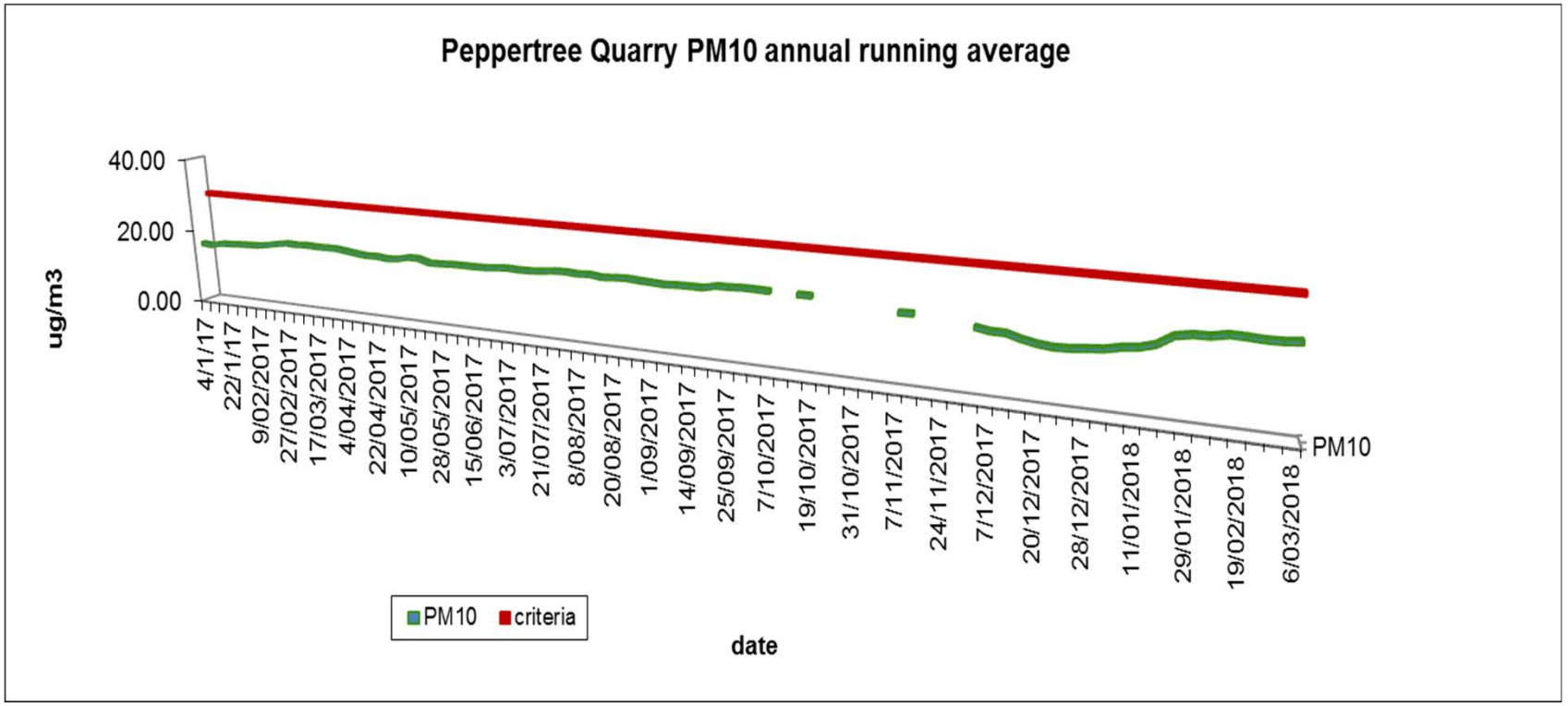
Agenda item 6 – Environmental Performance
Air



Annual Average goal of 4gm2/month
In compliance

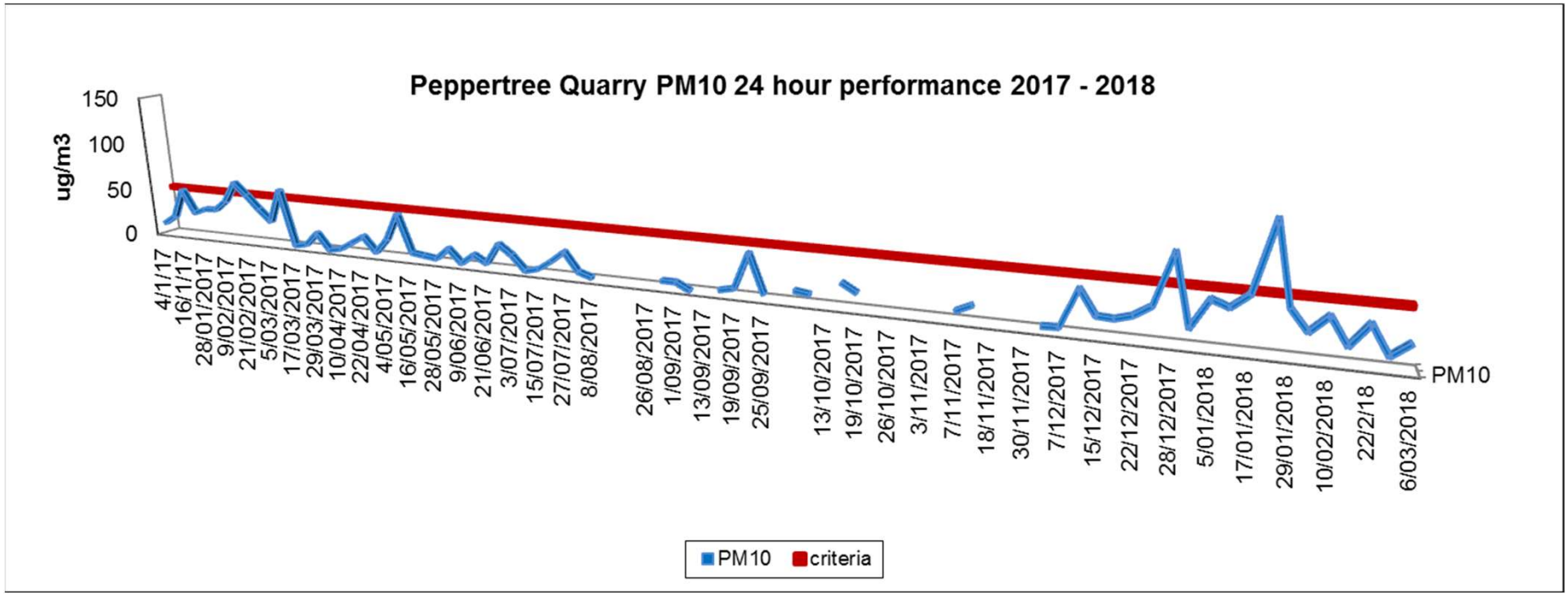
However Bottle continues to have a high organic content. Report has been received advising relocation of bottle.

Agenda item 6 – Environmental Performance
Air – Particulate Matter <10 microns – annual average



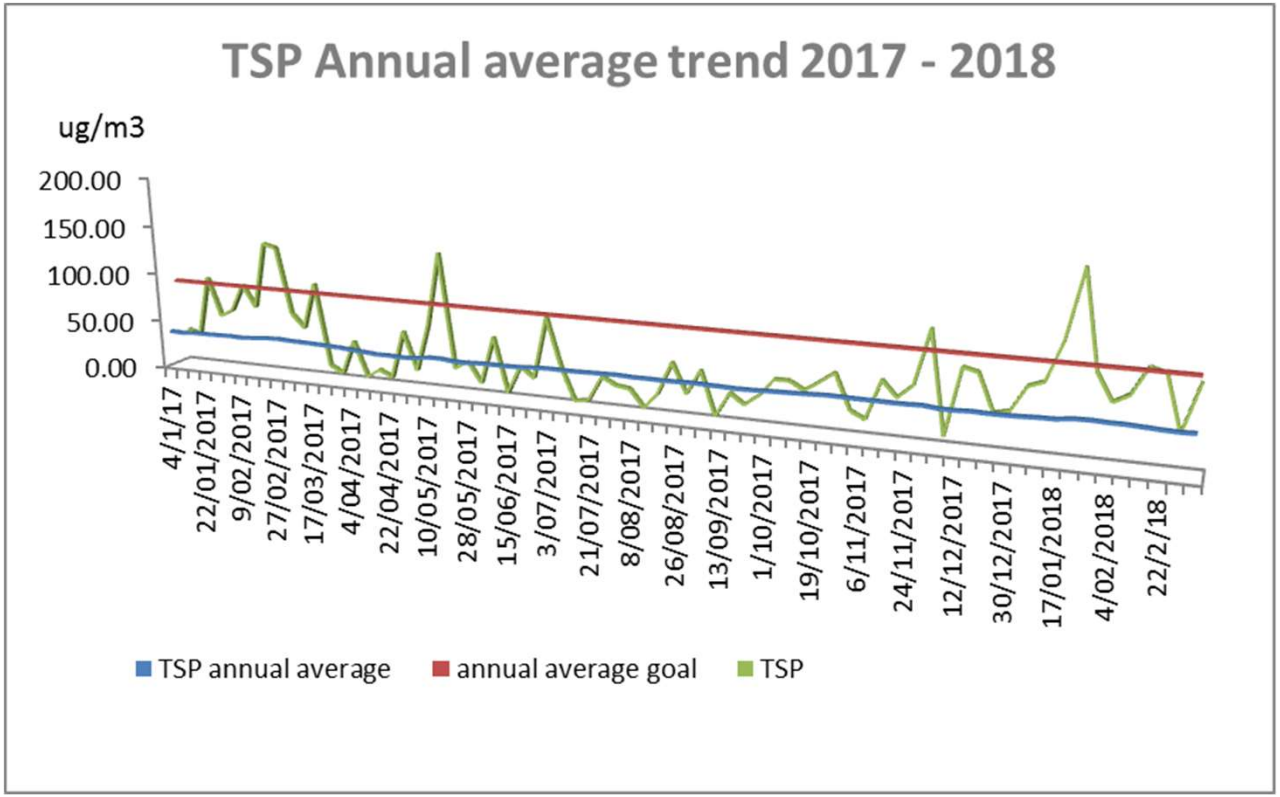
In compliance with the annual average goal
Gap in data due to failure of the sampler to operate – additional samples have been run

Agenda item 6 – Environmental Performance
Air – Particulate Matter <10 microns – 24 hour criteria



2 samples over 24 hour criteria
23 Jan 2018 - predominantly westerly
28 Dec 2017 – very little wind
Due to weather conditions at the time not believed to be due to the quarry

Agenda item 6 – Environmental Performance
Air - Total Suspended Particulates



TSP below Annual average goal

Agenda item 6 – Environmental Performance
Noise - quarterly noise monitoring Dec 2017 - daytime

Receiver		Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID			Leq , 15 minute (dB(A))	daytime
R2		12-Dec-17	23	35
R2		12-Dec-17	23	35
R2		13-Dec-17	30	35
R8		13-Dec-17	26	41
R17		12th December 2017	20	35
R17		12th december 2017	19	35
R17		13th december 2017	27	35
R4		12-Dec-17	30	35
R4		12-Dec-17	23	35
R4		13-Dec-17	26	35
R3		12-Dec-17	25	35
R3		12-Dec-17	25	35
R3		13-Dec-17	25	35

All in compliance

Agenda item 6 – Environmental Performance
Noise - quarterly noise monitoring December 2017 – evening

Receiver		Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID			Leq , 15 minute (dB(A))	evening
R2		14-Dec-17	30	35
R2		14-Dec-17	28	35
R2		14-Dec-17	30	35
R8		14-Dec-17	26	35
R17		14th december 2017	22	35
R17		14th december 2017	21	35
R17		14th december 2017	20	35
R4		13-Dec-2017	27	35
R4		13-Dec-17	27	35
R3		13-Dec-17	30	35
R3		13-Dec-17	30	35
R3		14-Dec-17	29	35
R3		14-Dec-17	29	35

All in compliance

Agenda item 6 – Environmental Performance
Noise - quarterly noise monitoring December 2017 evening 1min

Receiver		Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID			LA1, 1 minute (dB(A))	evening
R2		14-Dec-17	32	45
R2		14-Dec-17	26	45
R8		14-Dec-17	32	45
R17		14th december 2017	25	45
R17		14th december 2017	24	45
R17		14th december 2017	30	45
R4		13-Dec-17	31	45
R4		13-Dec-17	34	45
R3		13-Dec-17	34	45
R3		13-Dec-17	33	45
R3		14-Dec-17	33	45
R3		14-Dec-17	34	45
				45

All in compliance

Agenda item 6 – Environmental Performance
Noise - quarterly noise monitoring January 2018 daytime

Receiver		Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID			Leq , 15 minute (dB(A))	daytime
R2		30/01/2018	26	35
R2		30/01/2018	26	35
R2		31/01/2018	16	35
R2		31/01/2018	18	35
R8		30/01/2018	24	41
R8		30/01/2018	22	41
R8		31/01/2018	25	41
R8		31/01/2018	35	41
R17		30/01/2018	22	35
R17		30/01/2018	24	35
R17		31/01/2018	15	35
R17		31/01/2018	11	35
R4		30/01/2018	19	35
R4		30/01/2018	22	35
R4		31/01/2018	28	35
R4		31/01/2018	29	35
R3		30/01/2018	23	35
R3		30/01/2018	25	35
R3		31/01/2018	31	35
R3		31/01/2018	30	35

All in compliance

Agenda item 6 – Environmental Performance
Noise - quarterly noise monitoring January 2018 evening

Receiver		Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID			Leq , 15 minute (dB(A))	evening
R2		1/02/2018	19	35
R2		1/02/2018	20	35
R8		31/01/2018	30	35
R8		31/01/2018	30	35
R17		1/02/2018	15	35
R17		1/02/2018	18	35
R4		31/01/2018	27	35
R4		31/01/2018	28	35
R3		1/02/2018	24	35
R3		1/02/2018	24	35

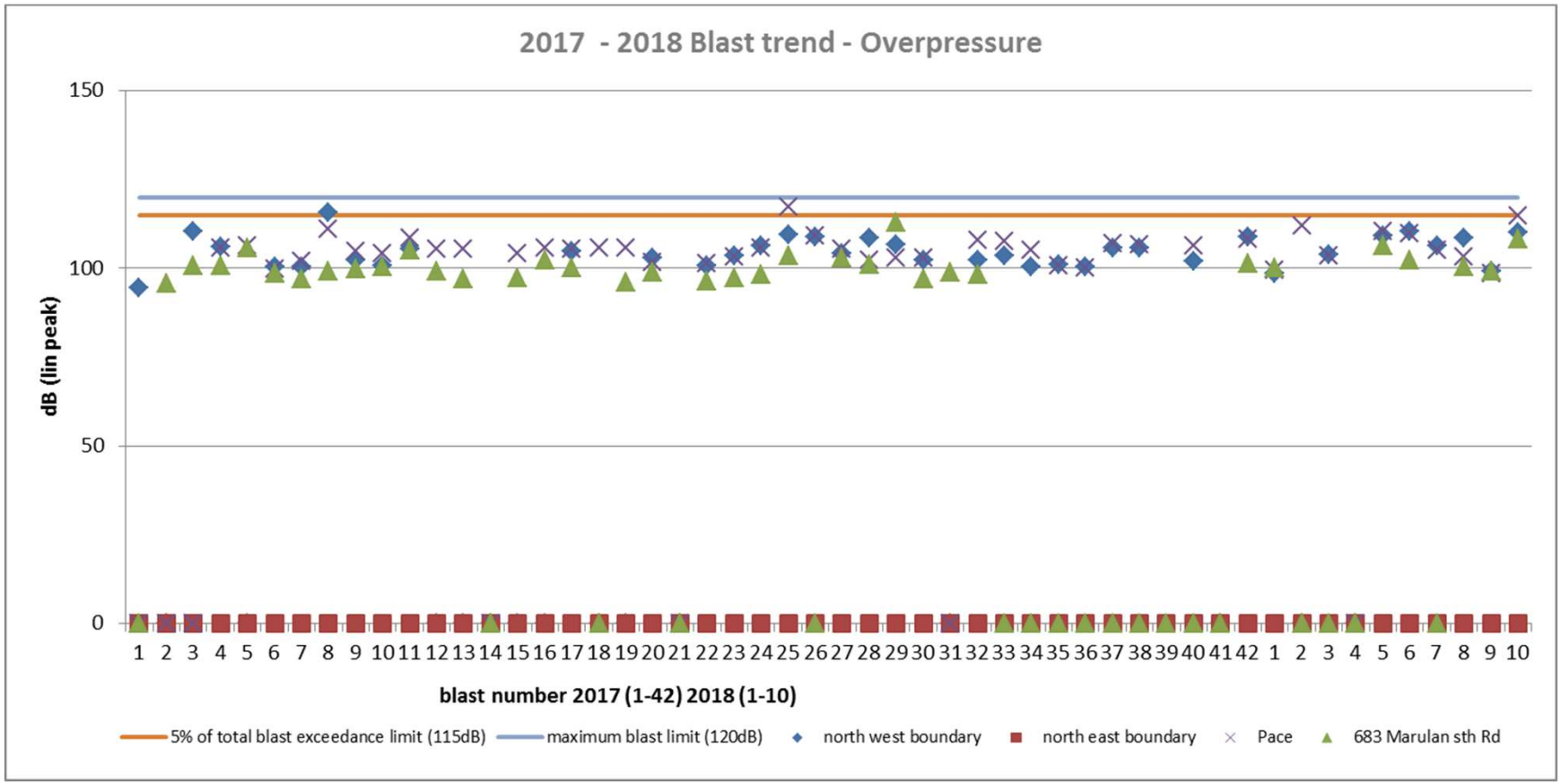
All in compliance

Agenda item 6 – Environmental Performance
Noise - quarterly noise monitoring January 2018 evening 1min

Receiver		Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID			LA1, 1 minute (dB(A))	evening
R2		1/02/2018	19	45
R2		1/02/2018	20	45
R8		31/01/2018	33	45
R8		31/01/2018	33	45
R17		1/02/2018	17	45
R17		1/02/2018	19	45
R4		31/01/2018	28	45
R4		31/01/2018	29	45
R3		1/02/2018	25	45
R3		1/02/2018	26	45

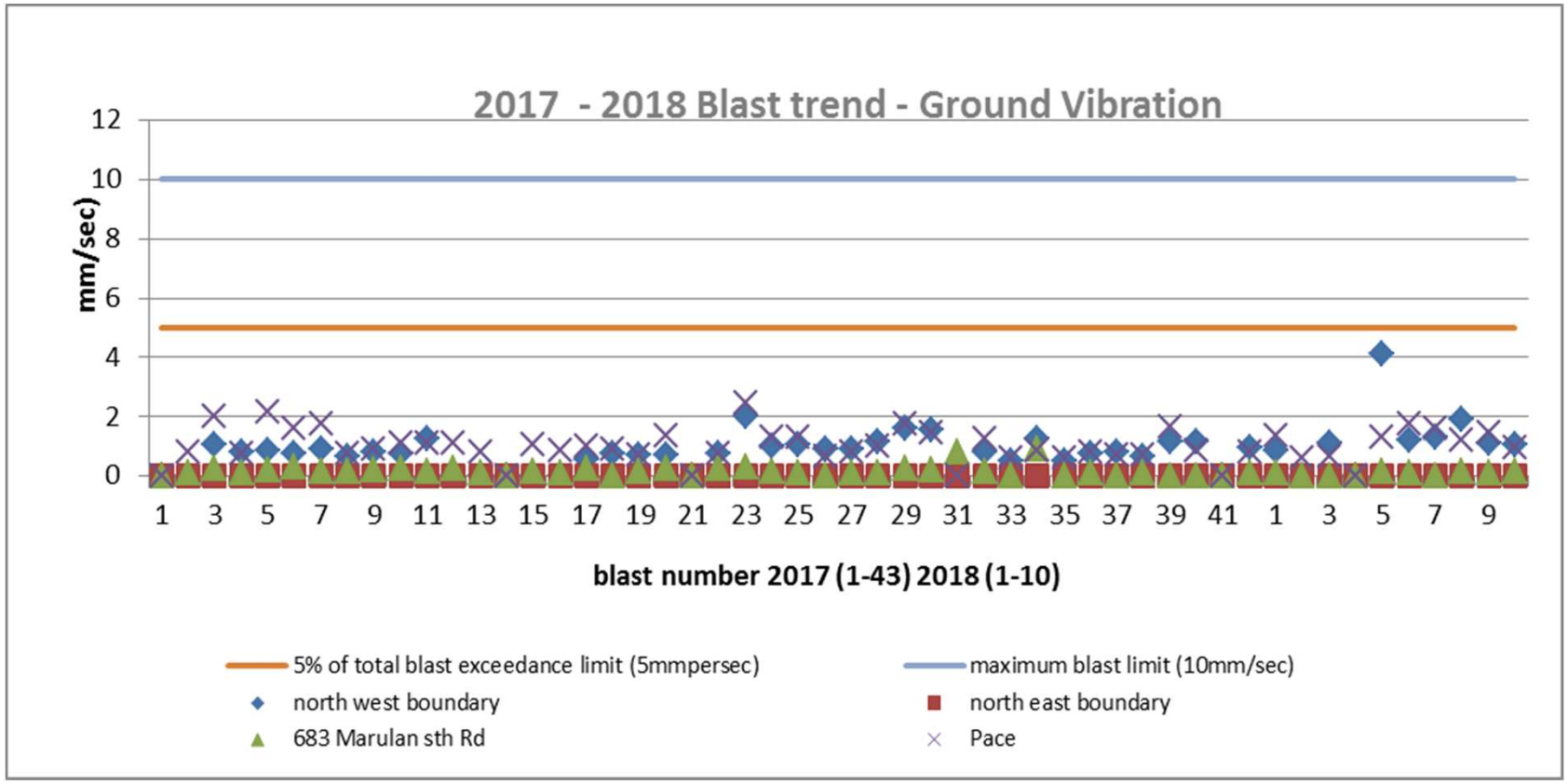
All in compliance

Agenda item 6 – Environmental Performance
Blast monitoring



All in compliance

Agenda item 6 – Environmental Performance
Blast monitoring



All in compliance

Agenda item 6 – Environmental Performance
Surface water

Quarterly monitoring round undertaken in December 2017 and March 2018

Due to lack of rain only 3 sites sampled in December– no flow onto the site.

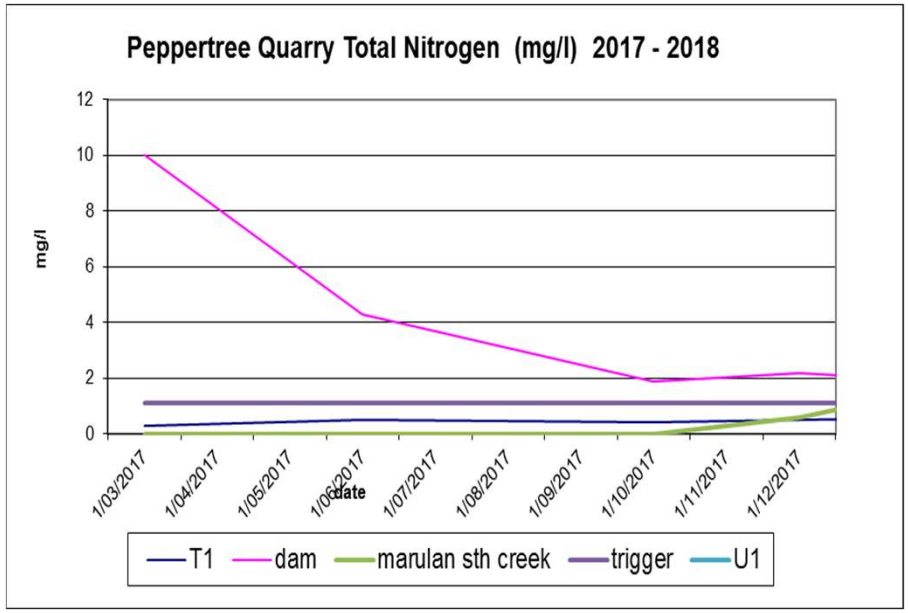
All 4 sites sampled for March 2018 due to rain

Marulan south creek has been introduced as a “background” sample. Sampled from December 2017

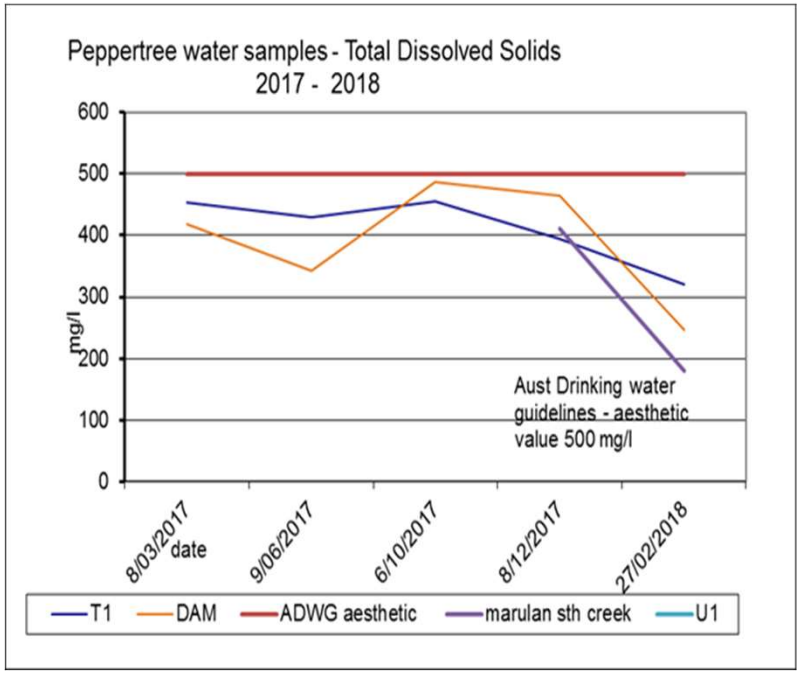
Analyses now compared to trigger levels

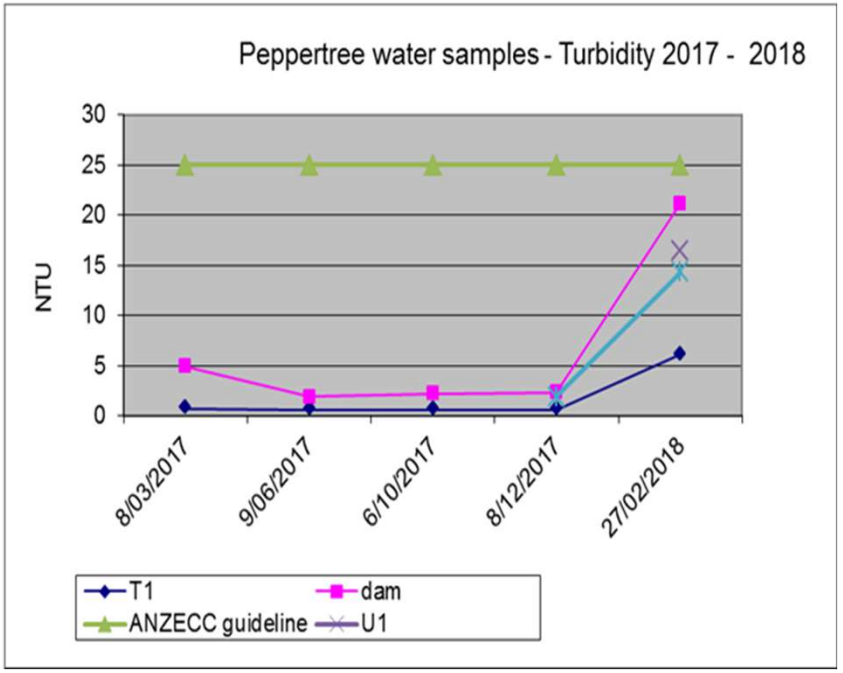
Next sample round June 2018

Total Nitrogen for T1 is in compliance, levels in the dam have always been higher but have decreased during 2017.



Agenda item 6 – Environmental Performance
Surface water

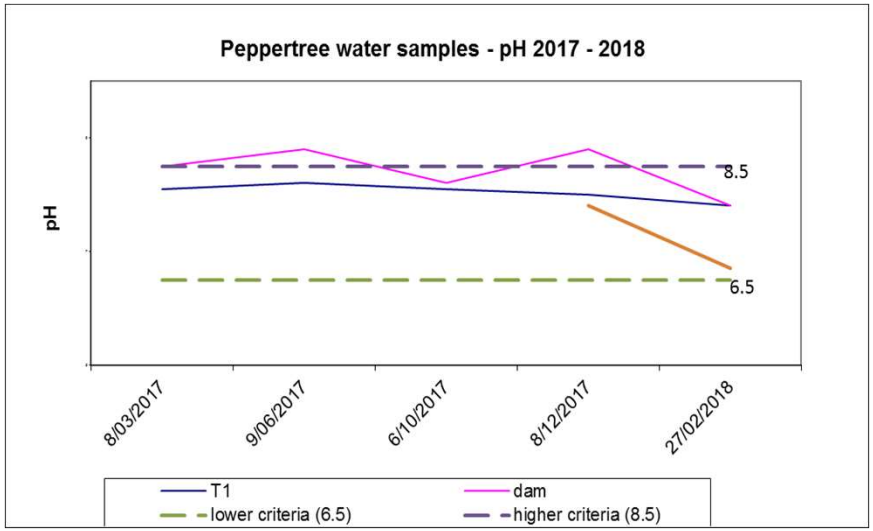


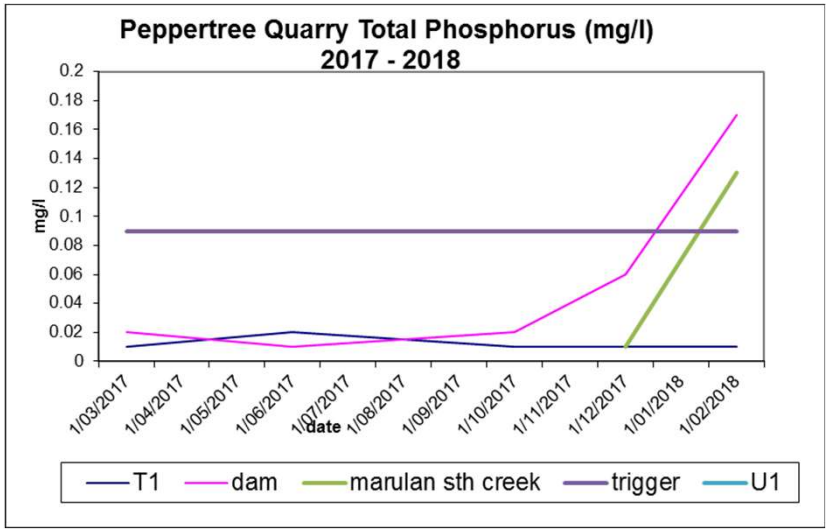


Total dissolved solids in compliance – decrease in 2018 due to rain

Turbidity In compliance – increase due to rain

Agenda item 6 – Environmental Performance
Surface water

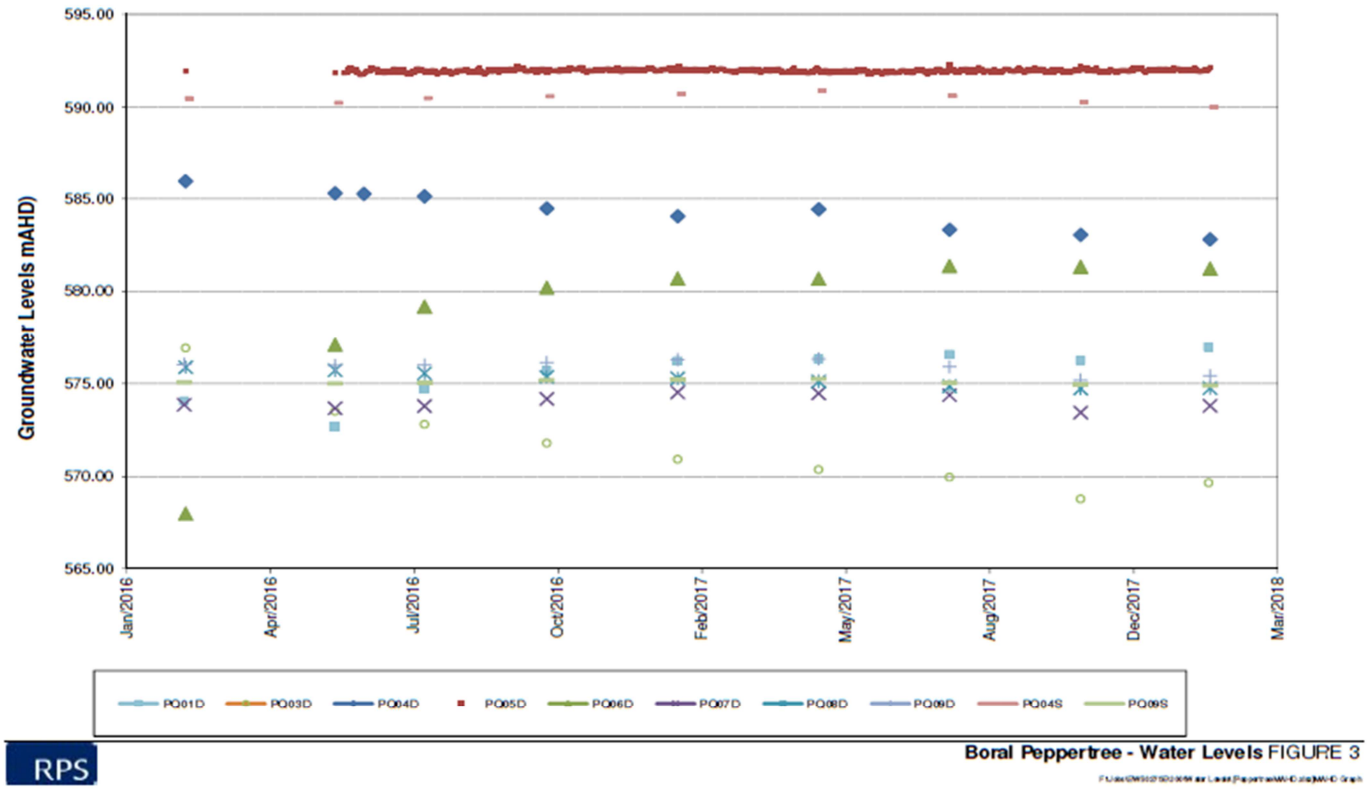




pH fluctuates for the dam but T1 downstream is in compliance

Total phosphorus - In compliance for T1 but increase at the end of 2017 and early 2017 for the dam. May be due to changes in water level introducing nutrients from above the site and an increase in water fowl population in the dam. Marulan south creek shows a similar increase.

Agenda item 6 – Environmental Performance
Ground water

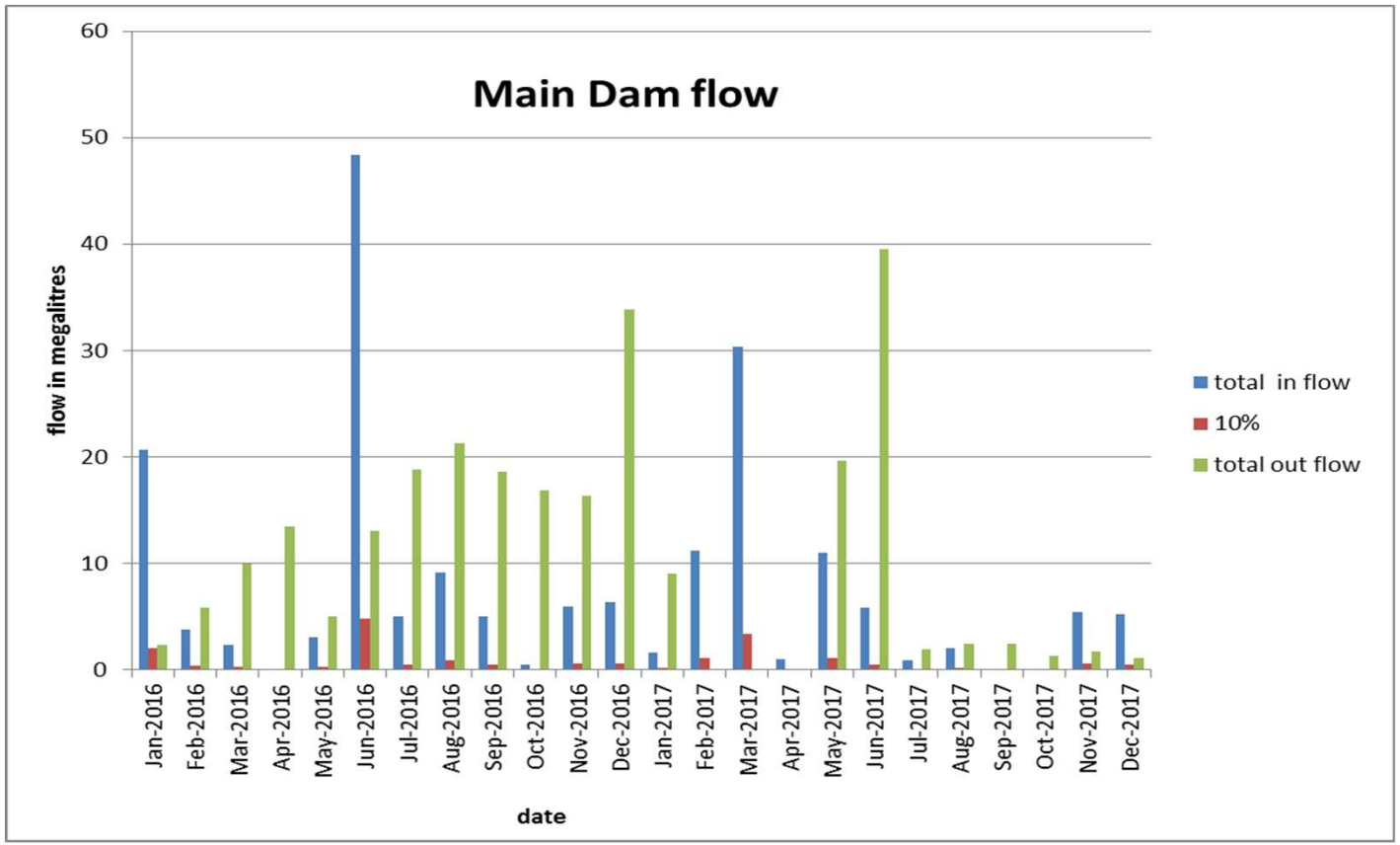


- No draw down of ground water from sentinel well .i.e. no impact on local groundwater.

Agenda item 6 – Environmental Performance
Ground water

- Monitoring conducted October 2017 and January 2018
- Measured against trigger levels
- Continue to have Exceedances of total nitrogen and total phosphorus at some bores (background levels are higher than guidance standards)
- Continue to have higher than trigger levels on a range of analytes such as chloride, sodium magnesium.
- The majority of these results however are minor, and likely due to the poorly developed nature of the bores and the limited dataset utilised for trigger levels development.
- Statistical review of the trigger values need to occur now that we have 9 sample rounds of data.

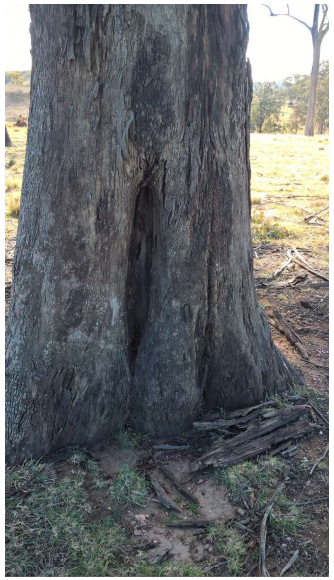
Agenda item 6 – Environmental Performance
Environmental flow



All in compliance

Agenda item 6 – Environmental Performance
Heritage

- Heritage salvage works have now been completed
- Scar tree identified in the footprint of the southern overburden emplacement. Review of the tree has been undertaken
- Next step is to collate and catalogue the artifacts commencing in July 2018



Agenda item 6 – Environmental Performance
Ecology

- Initial benchmark survey undertaken and photo points identified
- Next planting on the eastern OB held off till April / May 2018 due to weather

Agenda item 6 – Stakeholder Engagement

- HASP project – now part of the Marulan Village plan
- CVA schools program being arranged
- Tallong Apple Festival Chevalier College STEM visit
- National Trust Tour
- Outward Bound – May 2018
- Woodwards Creek erosion management
  - (Bungonia Park trust and soil Conservation)

Agenda item 7 – Plans for the next three months

- **Safety**
  - Maintain zero harm to our employees and contractors
- **Overburden**
  - Tender for 2018/19 FY overburden works is now being priced. This will take the pit towards the South again near the site entrance. Expected to follow on directly behind the existing campaign.
- **Pit update**
  - Over the next 3 months the pit will continue to the east
- **Processing**
  - Commissioning of two additional air classifiers
  - Development of a store for parts storage next to the workshop to eliminate shipping containers
- **People**
  - Continuation of training and development of our people

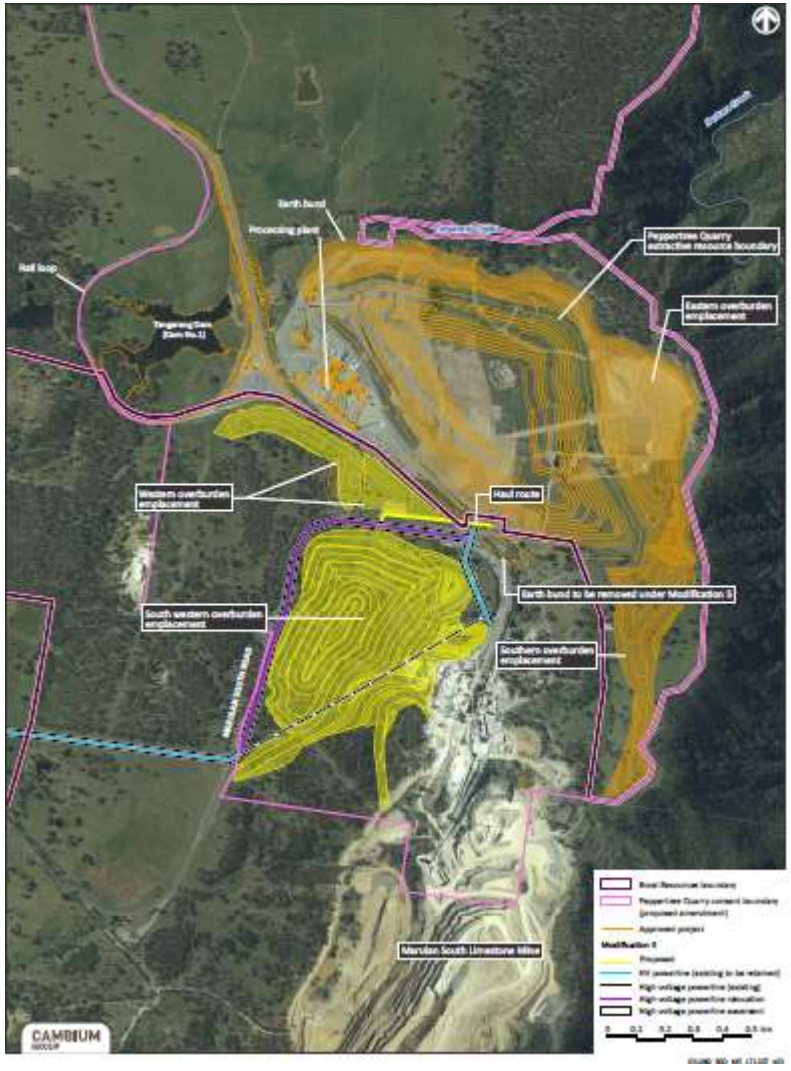
Agenda item 8 – General Business

- **Weather station update**
  - Review of the weather station to be undertaken as part of Voluntary Undertaking
  - Relocation also now required

- **Marulan South Limestone update**
  - Still being prepared

- **Peppertree Quarry Modification 5**
  - The proposal comprises: developing a new overburden emplacement (South-west Overburden Emplacement - SWOE), amending the Western Overburden Emplacement, removing the Western Earth Bund, relocating a powerline, constructing a new haul road, constructing a new intersection on Marulan South Road so that the haul road can access the SWOE, and extending the consent boundary south to encompass the SWOE.

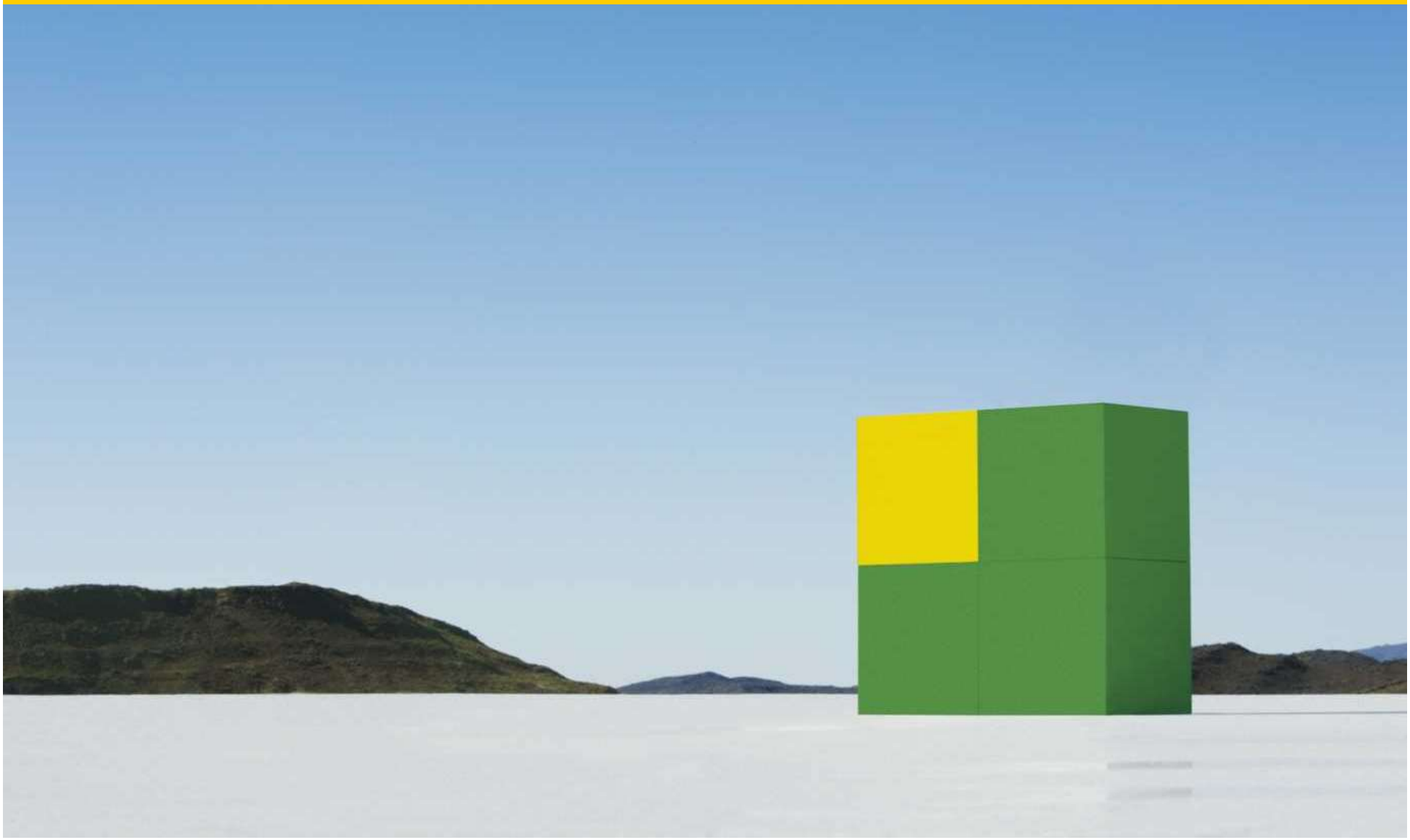
Agenda item 8 – General Business



Agenda item 8 – General Business

- Next meeting dates –
  - August 2018
  - November 2018

END



Peppertree Community Consultative Committee

Minutes

Meeting Date: 11th April 2018

Location: Peppertree Quarry, Marulan South

CCC Member Attendees: Geoff Clark (representing Tallong Community Focus Group);;Cr Sturgiss (representing Goulburn Mulwaree Council); Russell Montgomery (community representative)

Boral attendees: Angus Shedden, Sharon Makin,

Apologies: Gordon Kirkby (JBA Urban Planning – Independent Chairperson); Tino Foti (local business representative); Charles Mendel (community representative)

Distribution: As above; Department of Planning (Georgia Dragicevic <Georgia.Dragicevic@planning.nsw.gov.au>); Goulburn Mulwaree Council Administration (amy.croker@goulburn.nsw.gov.au)

Subject: April 2018 Meeting of Peppertree Quarry CCC

Item	Description
Welcome and Introduction	Sharon opened the meeting at 3.10 pm, welcomed all members
Apologies	as above
Site Inspection	not undertaken
Confirmation of minutes from previous meeting	The Committee accept that the minutes from last meeting were an accurate record of the meeting. Moved G.Clark.
Business arising	Corrected data set was prepared and reviewed by G Clark. weather station still to be relocated
Correspondence IN **Correspondence OUT**	**Department of Planning and Environment** • AEMR 2017 issued • Request for road transport of overburden for Aglime • Request for road transport of rocks to Bungonia for Soil Conservation service work • Advice of noise levels exceeding criteria and voluntary undertaking • Advice of Modification 5 – request for information on EA **EPA** • Advice of noise levels exceeding criteria and voluntary undertaking **G Clark** • weather data reviews – weather station monthly reviews (Oct, Nov, dec

	2017, jan, feb, march 2018) • Corrected weather data • Email re weather station assessment Details of the Voluntary Undertaking regarding noise were discussed and an example of the curtain material tabled. undertaking includes an assessment of noise management controls on the in pit crusher, the bin and the surge stockpile as well as investigation into real time noise monitoring and the ability to turn off equipment based on noise triggers.
Progress of Operations to date	**Safety** Achieved zero LTI's since last CCC (Nov 2017) **Overburden** Overburden works continuing to open the pit eastwards and placement in the southern overburden area **Pit update** Mine plan remains a consistent Easterly direction with additional load and haul of rock from top bench as part of the overburden works **Processing** Volumes remain very healthy as market is healthy and busy Two projects underway to help increase productivity: Reclaim hopper at the surge pile to reduce requirement to push in the surge Two additional air classifiers to improve sand consistency in wet weather Manufacturing sand process detail discussed aim for 2.5mt for 2018. Current train network can take 3MT. **People** Relatively stable workforce over past few months Development of people remains a priority Geoff Stephens now QM at Peats Ridge Huge number of competency assessments completed
OH&S	• No loss time injuries • Two DPI audits conducted: • Electric shock and Arc burns • Explosives Control Plan conducted • Dedicated pedestrian areas established around site to improve pedestrian safety •
Environment **incidents** **complaints** **Air Quality**	• Environmental Incidents (November 2017 to April 2018) • Nov 2017 - 1 hydraulic hose spill • Dec 2017 – 1 hydraulic hose spill • March 2018 – 1 diesel spill during refuelling • 6 messages received from a resident regarding noise, as part of an ongoing assessment of noise at their residence. • 2 complaints October 2017 1 regarding traffic and March 2018 – Noise • Air monitoring results were tabled for discussion. Results are available for dust deposition gauges and high volume air samplers, both total suspended particles (TSP) and particulate matter less than 10 microns (PM10). One deposition gauge not in compliance. D3 is not In compliance due to dust recorded in Nov 2017, Dec 2017, Jan and Feb 2018. However, the insoluble solids Ash content (organic) is nearly 50%. A report has been prepared by Todoroski Air Services as to the relocation of the bottle

Blasting	• PM10, Annual average in compliance. 2 samples over 24 hour criteria • 23 Jan 2018 - predominantly westerly • 28 Dec 2017 – very little wind • Due to weather conditions at the time not believed to be due to the quarry • TSP in compliance. Data to be reviewed in regards to annual average • All blasts have complied with noise and vibration measurements requirements.
Noise	• Quarterly Noise monitoring was conducted in December 2017 and January 2018. In compliance at all receivers. Detailed noise investigation undertaken in October 2017 to determine potential noise sources to a residential receiver.
surface water	• surface water Quarterly monitoring round undertaken in December and March 2018. Total Nitrogen for T1 is in compliance with levels in the dam decreasing during 2017 and 2018. Total dissolved solids in compliance. Turbidity in compliance. pH fluctuates for the dam but T1 downstream is in compliance. Total phosphorus In compliance for T1 but increase at the end of 2017 and early 2017 for the dam. May be due to changes in water level introducing nutrients from above the site and an increase in water fowl population in the dam. Marulan south creek (background) shows a similar increase. • Environmental Flow - 10% environmental flow required – in compliance
Ground water	• Groundwater samples - Monitoring conducted October 2017 and January 2018. No draw down of ground water from sentinel well .ie no impact on local groundwater. All results are in compliance with some exceptions associated with naturally high background levels of total nitrogen and total phosphorus. Revised statistical review now required with more data.
Heritage	• Heritage salvage works have now been completed. • Scar tree identified in the footprint of the southern overburden emplacement. Review of the tree has been undertaken • Next step is to collate and catalogue the artifacts commencing in July 2018
Rehabilitation	• Initial benchmark survey undertaken and photo points identified for rehabilitation areas • Next planting on the eastern OB held off till April / May 2018 due to weather
Community (participated in)	▪ HASP project – now part of the Marulan Village plan ▪ CVA schools program being arranged ▪ Tallong Apple Festival Chevalier College STEM visit ▪ National Trust Tour ▪ Outward Bound – May 2018 ▪ Woodwards Creek erosion management ▪ (Bungonia Park trust and soil Conservation)

Plans for next three months	**Safety** Maintain zero harm to our employees and contractors **Overburden** Tender for 2018/19 FY overburden works is now being priced. This will take the pit towards the South again near the site entrance. Expected to follow on directly behind the existing campaign. **Pit update** Over the next 3 months the pit will continue to the east **Processing** Commissioning of two additional air classifiers Development of a store for parts storage next to the workshop to eliminate shipping containers **People** Continuation of training and development of our people
General Business	**Weather station update** ▪ Review of the weather station to be undertaken as part of Voluntary Undertaking ▪ Relocation also now required **Marulan South Limestone update** ▪ Still being prepared **Peppertree Quarry Modification 5** ▪ The proposal comprises: developing a new overburden emplacement (South-west Overburden Emplacement - SWOE), amending the Western Overburden Emplacement, removing the Western Earth Bund, relocating a powerline, constructing a new haul road, constructing a new intersection on Marulan South Road so that the haul road can access the SWOE, and extending the consent boundary south to encompass the SWOE.
Actions	• TSP Data to be reviewed in regards to annual average
Next Meeting	Wednesday 8th August 2018
Meeting Close	5 pm

Community Consultative Committee

August 2018

Agenda item 3 – Correspondence (since May, June, July)

- **Department of Planning and Environment**
  - Update on voluntary undertaking

- **EPA**
  - Meeting re Mod 5, dust bottle relocation and update on Voluntary Undertaking

- **G Clark**
  - Report from Geoff re Cement weather station data
  - weather data reviews – weather station monthly reviews (April, May, June 2018)

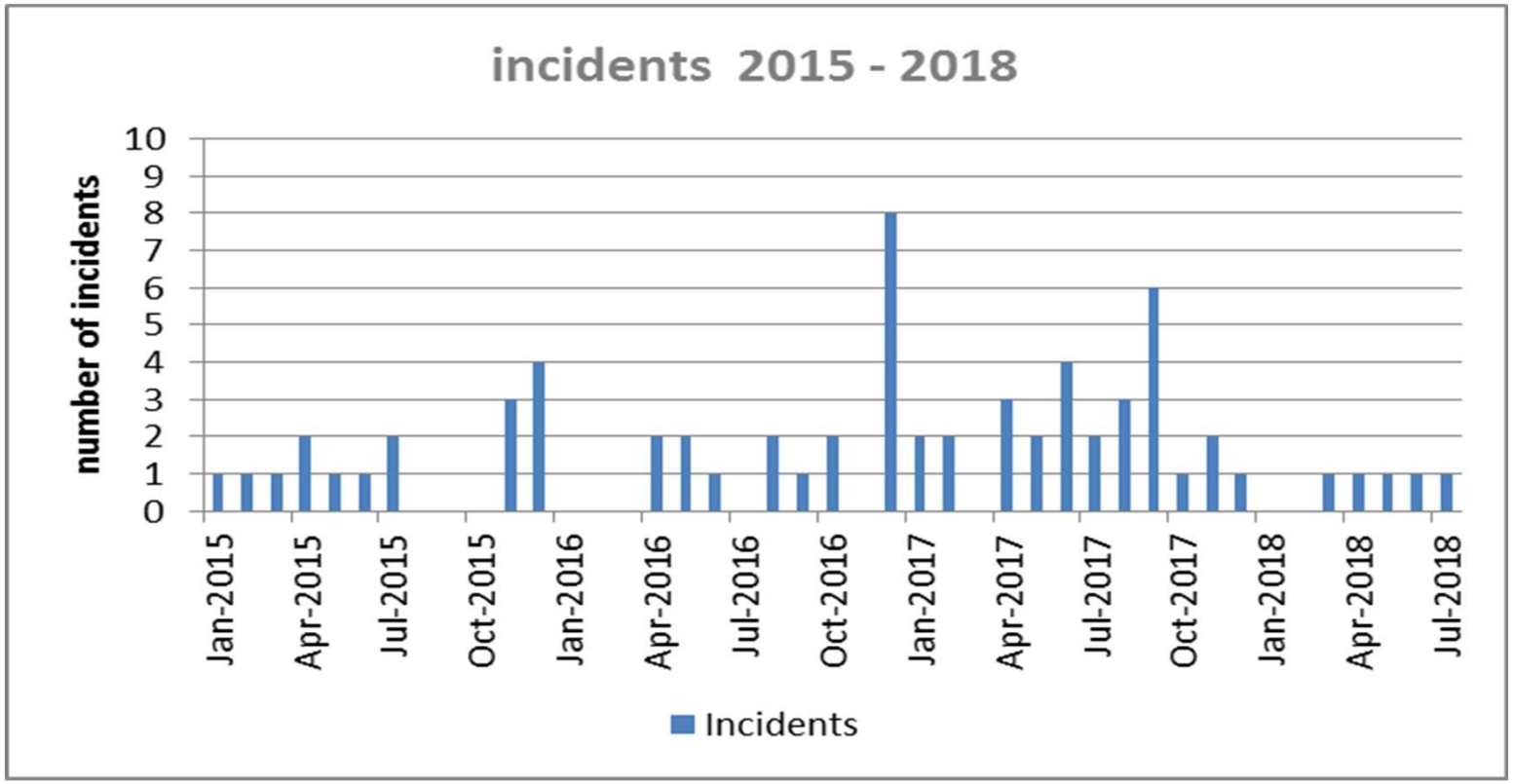
Agenda item 4 – Operations

- **Safety**
  - Achieved zero LTI's since last CCC (April 2018)
- **Overburden**
  - Overburden works ceased with new contract issued to TRN commencing this week.
- **Pit update**
  - Mine plan remains a consistent Easterly direction with additional load and haul of rock from top bench as part of the overburden works
- **Processing**
  - Volumes remain very healthy
  - Two projects completed to help increase productivity:
    - Reclaim hopper at the surge pile to reduce requirement to push in the surge
    - Two additional air classifiers to improve sand consistency in wet weather
- **People**
  - Relatively stable workforce over past few months
  - Development of people remains a priority

Agenda item 5 – OH&S Performance

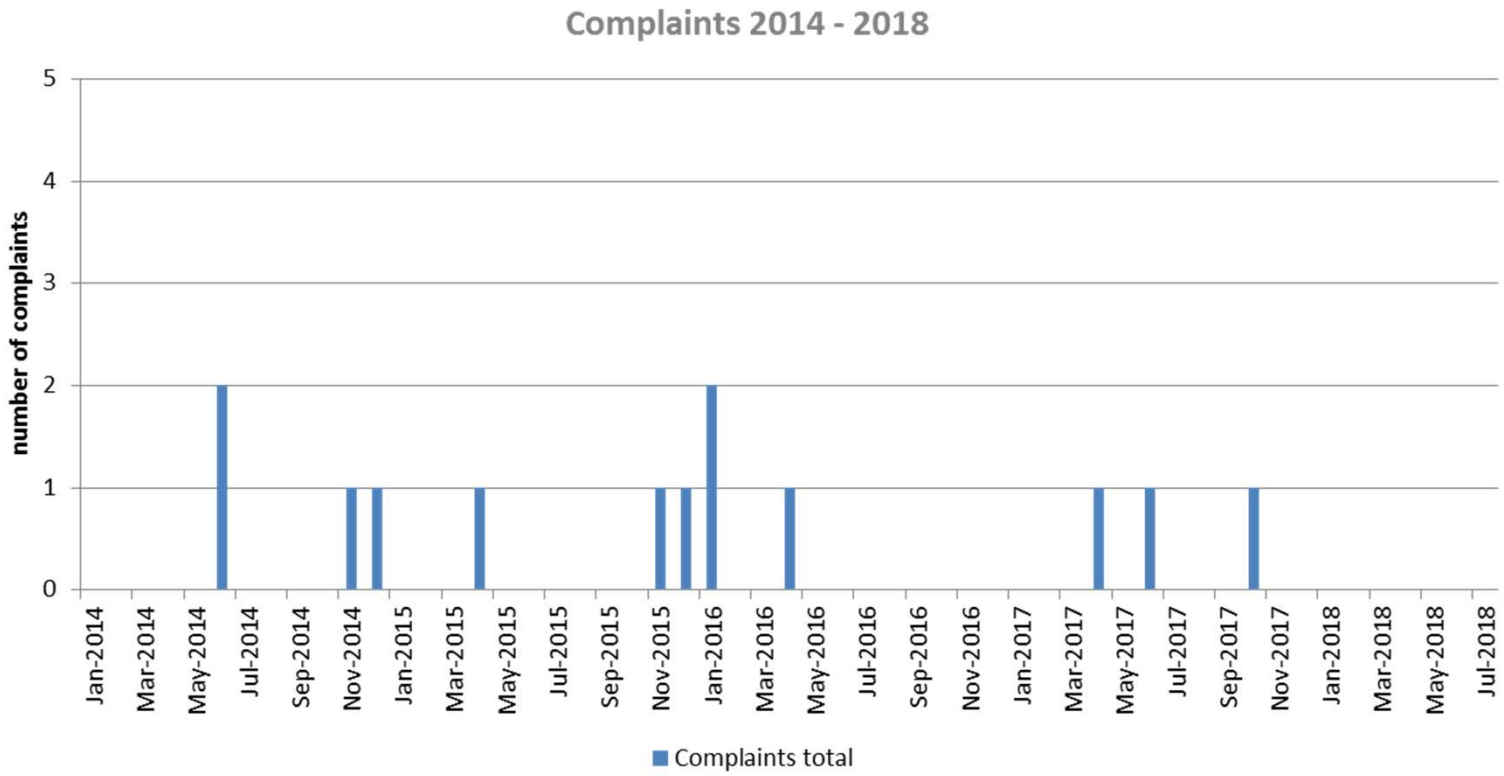
- No loss time injuries
- Surprise DPI audit on HME.
  - No major issues identified
  - however lessons learnt on the use of pre checklists prior to operations
- Winner of “One” Award for being # 1 supplier in regards to quality
- Finalist for the 2018 National IQA safety awards (decision in Sept 18)

Agenda Item 6 - Environmental Performance Incidents

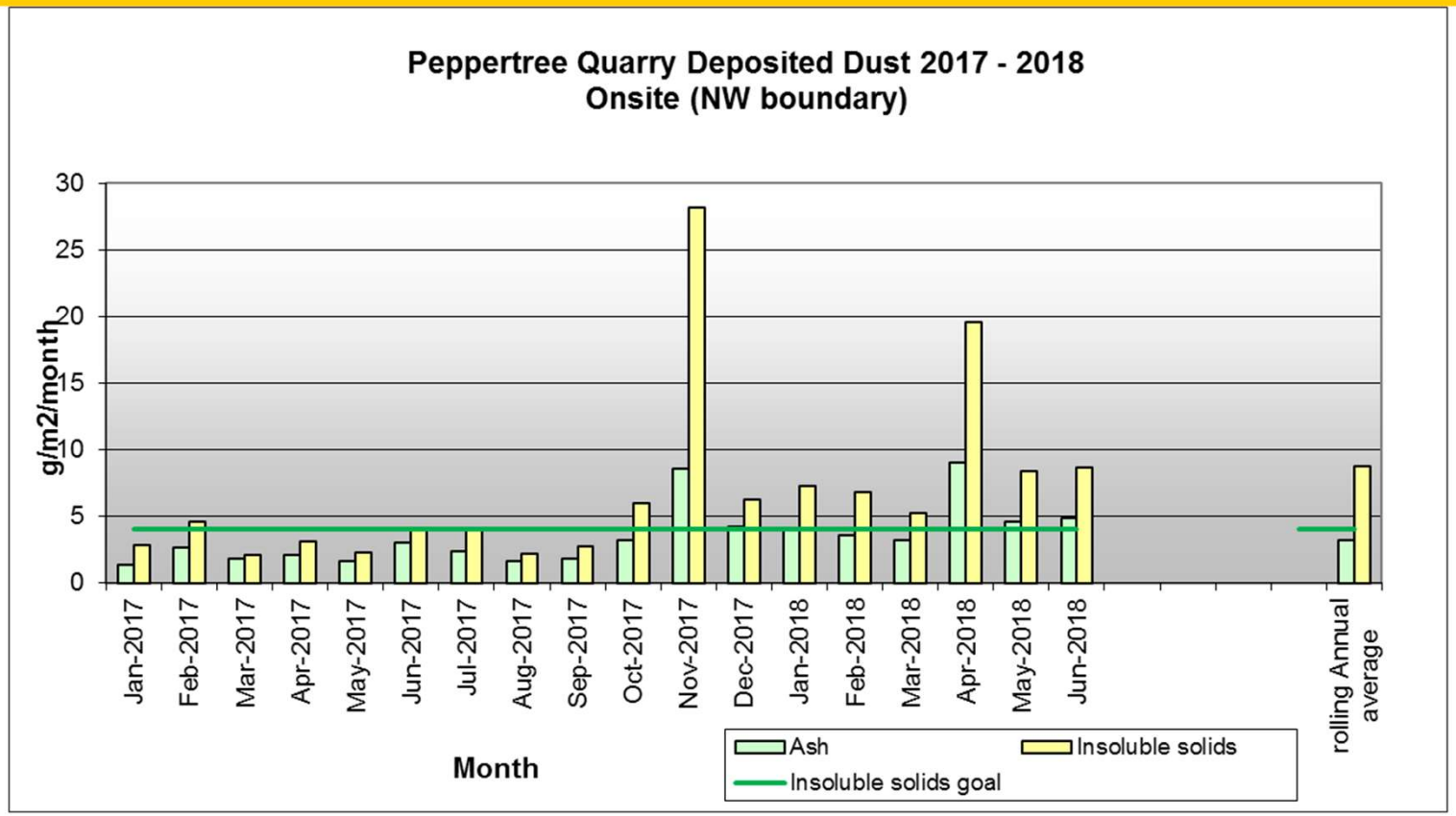


May 2018–1 – hydraulic hose failure
June 2018– 1 – drill rig broken hose
July 2018 – 1 – dust from pit operations

Agenda item 6 – Environmental Performance Complaints

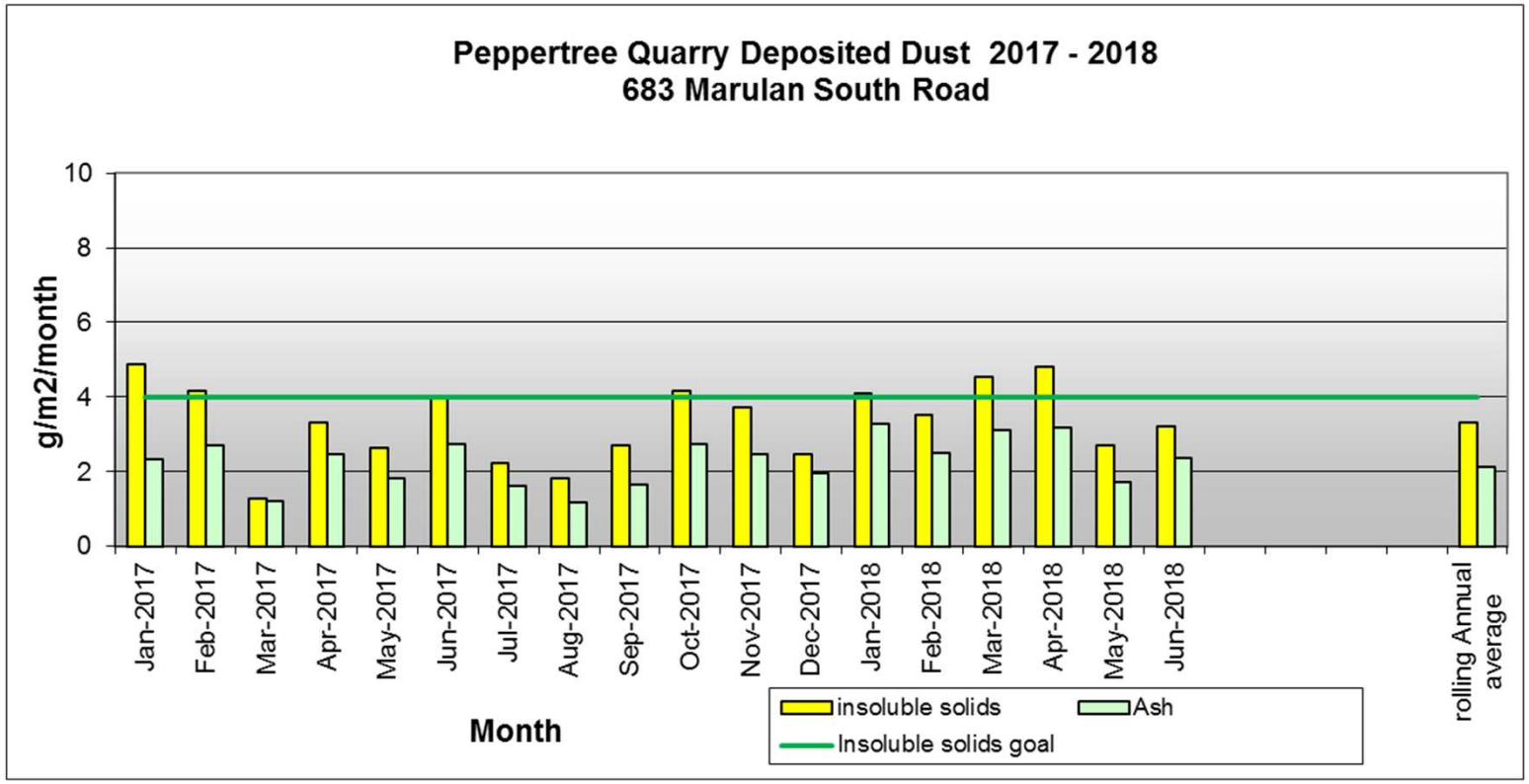


Agenda item 6 – Environmental Performance
Air



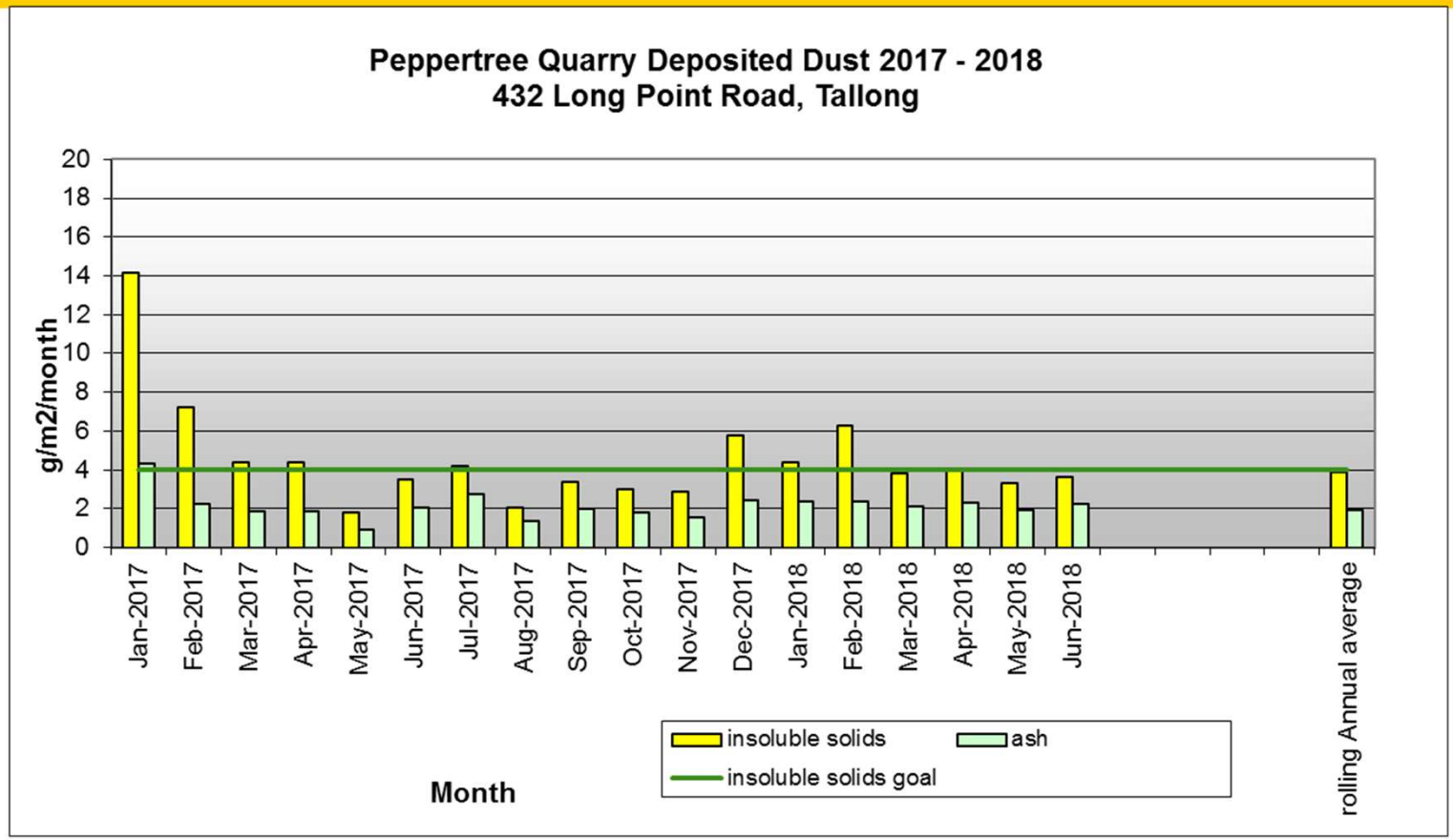
Annual Average goal of 4gm2/month
not in compliance at the site however majority of insoluble solid is organic
Annual average would be below goal at the boundary
Report received advising relocation of the bottle to the boundary

Agenda item 6 – Environmental Performance
Air



Annual Average goal of 4gm2/month
In compliance

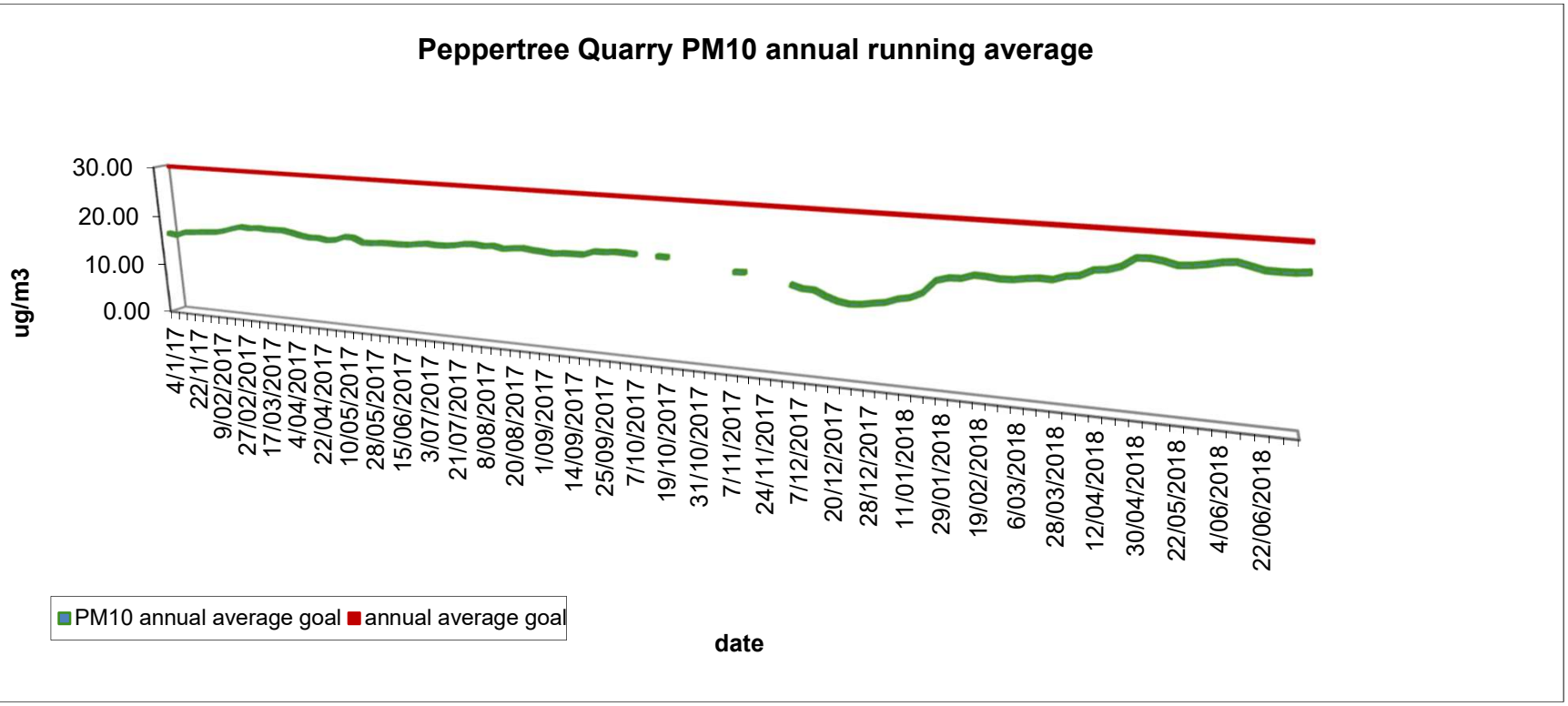
Agenda item 6 – Environmental Performance
Air



Annual Average goal of 4gm2/month
In compliance

However Bottle continues to have a high organic content. Report has been received advising relocation of bottle.

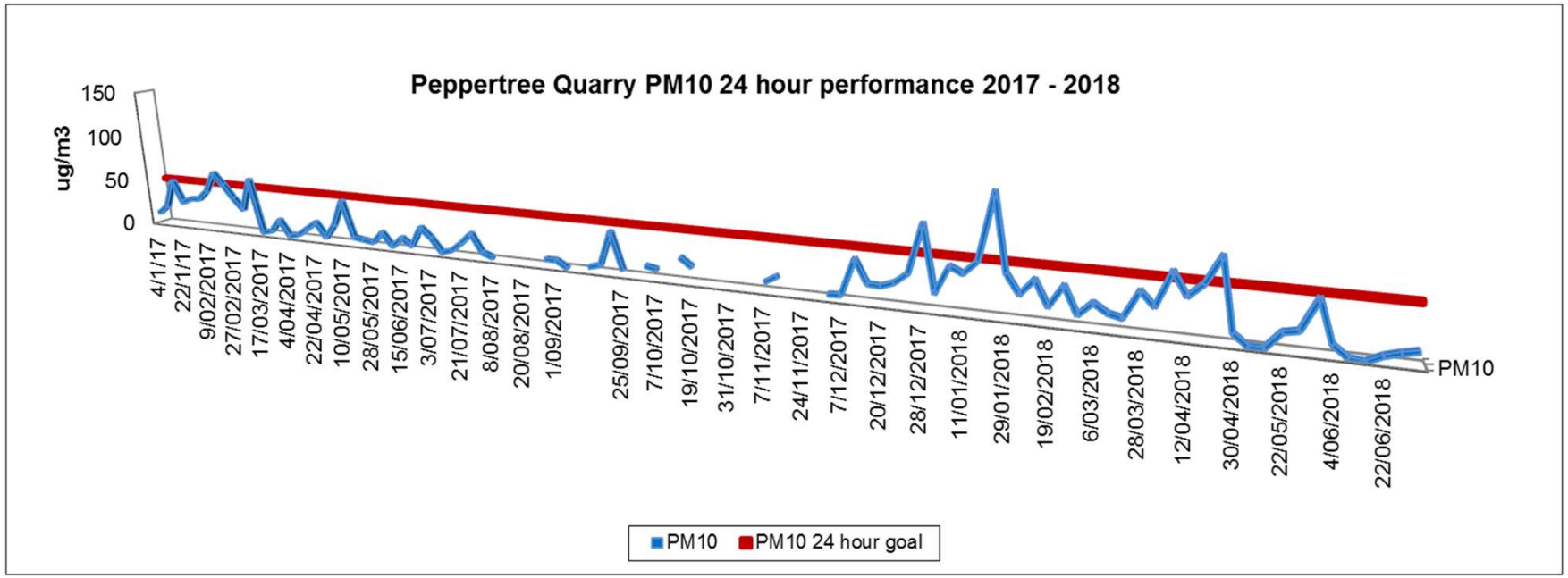
Agenda item 6 – Environmental Performance
Air – Particulate Matter <10 microns – annual average



In compliance with the annual average goal

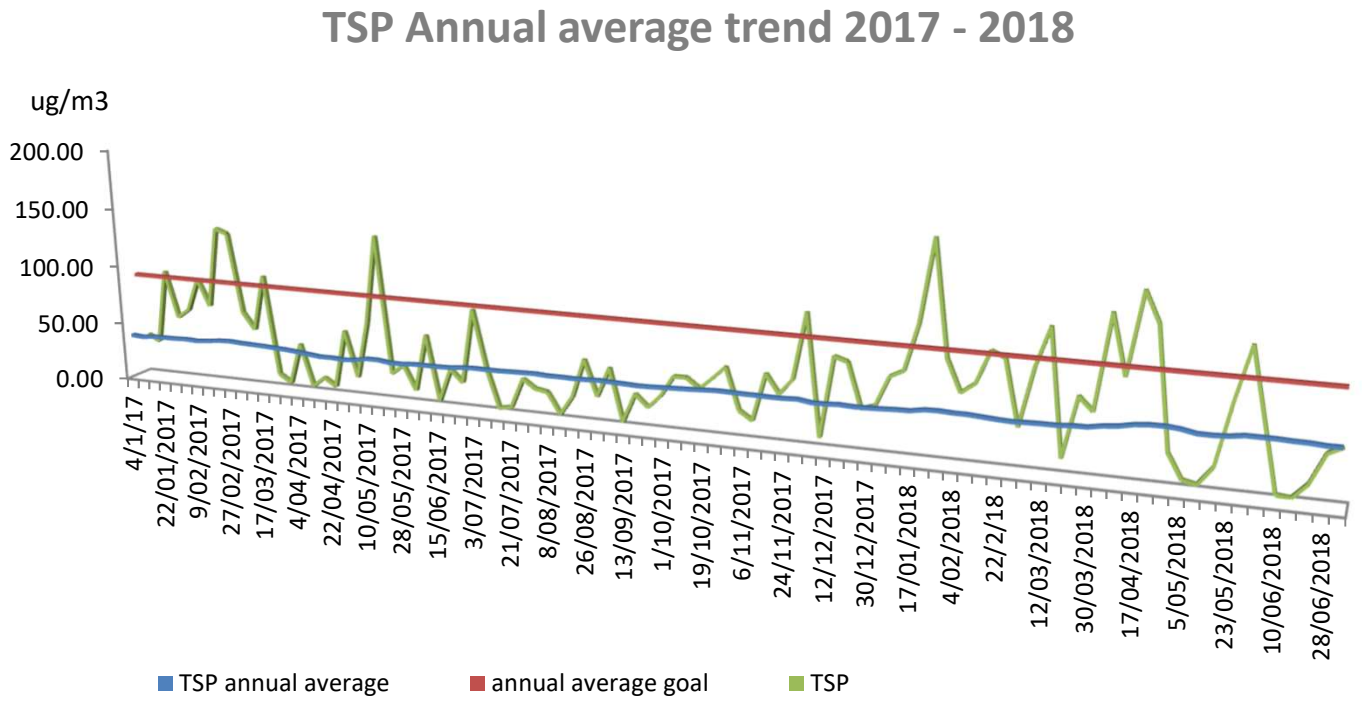
Gap in data due to failure of the sampler to operate – additional samples have been run

Agenda item 6 – Environmental Performance
Air – Particulate Matter <10 microns – 24 hour criteria



May, June and July in compliance

Agenda item 6 – Environmental Performance
Air - Total Suspended Particulates



TSP below Annual average goal

Agenda item 6 – Environmental Performance
Noise - quarterly noise monitoring April 2018 daytime

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	daytime
R17	1/5/2018	<30	35
R2	1/5/2018	<30	35
R3	1/5/2018	<30	35
R8	1/5/2018	31	41
R4	1/5/2018	31	35
R17	2/5/2018	31	35
R2	2/5/2018	31	35
R3	2/5/2018	<30	35
R8	2/5/2018	33	41
R4	2/5/2018	<30	35

All in compliance

Agenda item 6 – Environmental Performance
Noise - quarterly noise monitoring April 2018– evening

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		Leq, 15 minute (dB(A))	evening / night
R17	2/5/2018	<30	35
R17	2/5/2018	32	35
R2	2/5/2018	32	35
R2	3/5/2018	33	35
R8	3/5/2018	<30	35
R8	3/5/2018	<30	35
R4	3/5/2018	<30	35
R4	3/5/2018	<30	35
R3	3/5/2018	<30	35
R3	3/5/2018	<30	35

All in compliance

Agenda item 6 – Environmental Performance
Noise - quarterly noise monitoring April 2018 evening 1min

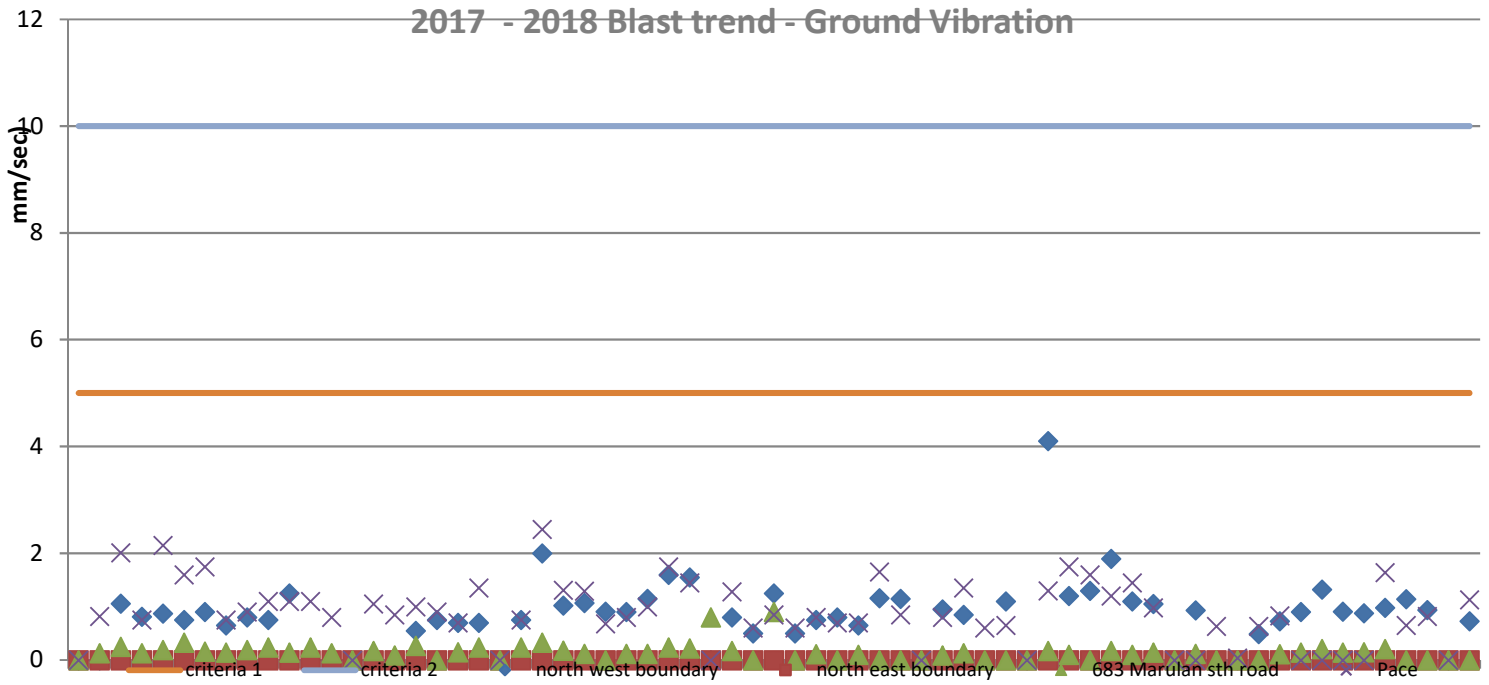
Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LA1, 1 minute (dB(A))	evening
R2	2/5/2018	32	45
R2	3/5/2018	33	45
R8	3/5/2018	<30	45
R8	3/5/2018	<30	45
R17	2/5/2018	<30	45
R17	2/5/2018	32	45
R4	3/5/2018	<30	45
R4	3/5/2018	<30	45
R3	3/5/2018	<30	45
R3	3/5/2018	<30	45

All in compliance

Agenda item 6 – Environmental Performance
Noise - quarterly noise monitoring

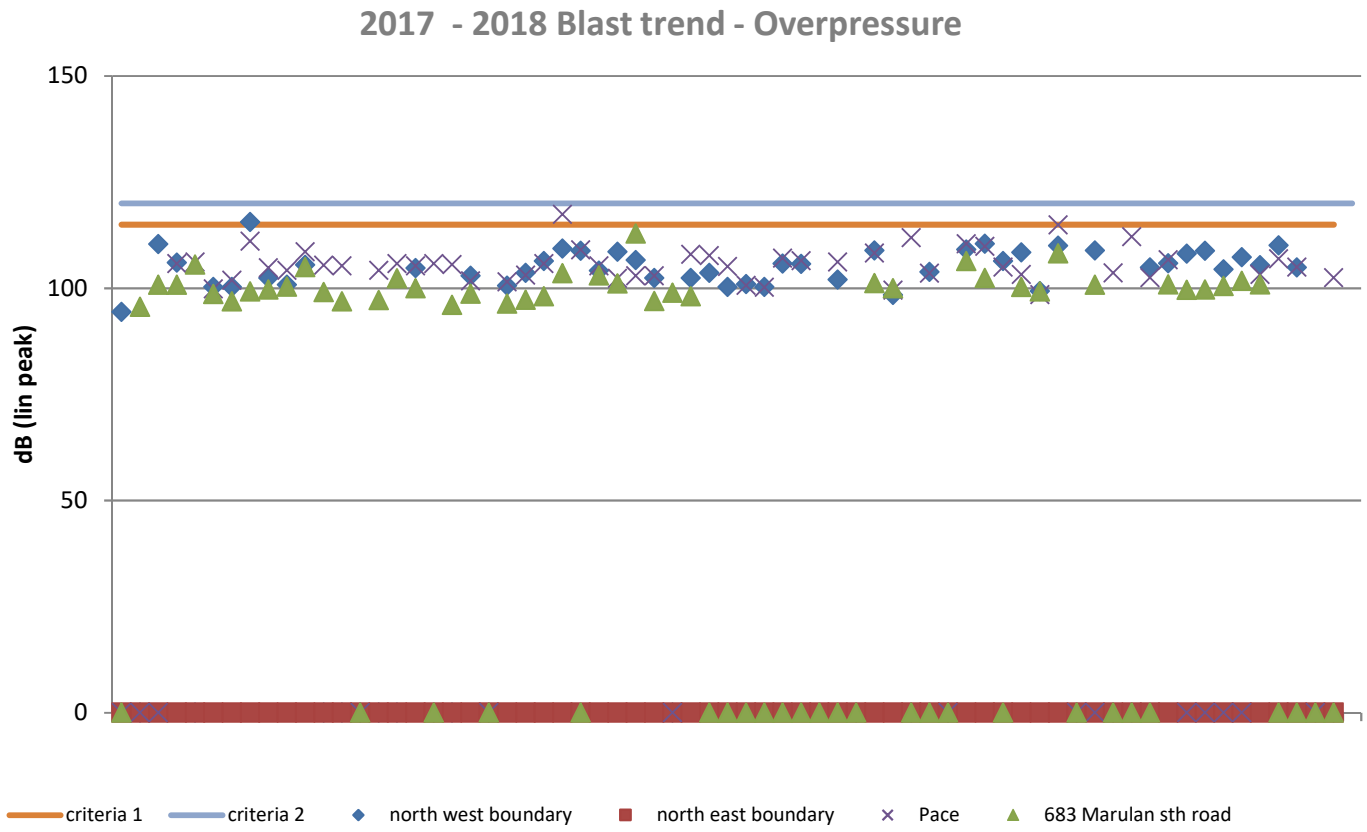
July 2018 undertaken but results not yet received

Agenda item 6 – Environmental Performance
Blast monitoring



All in compliance

Agenda item 6 – Environmental Performance
Blast monitoring



All in compliance

Agenda item 6 – Environmental Performance
Surface water

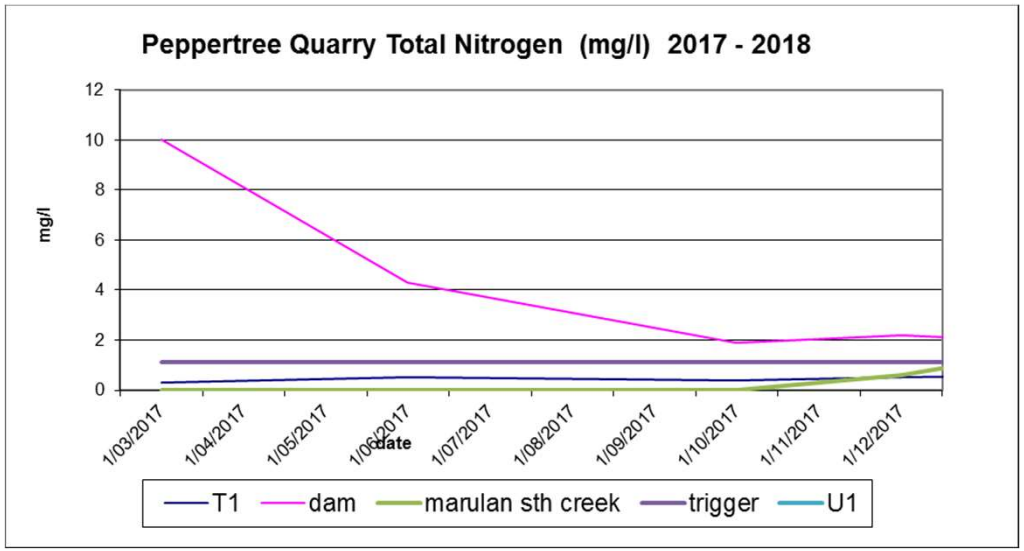
Quarterly monitoring round undertaken in June 2018

Due to lack of rain only 3 sites sampled in June– no flow onto the site.

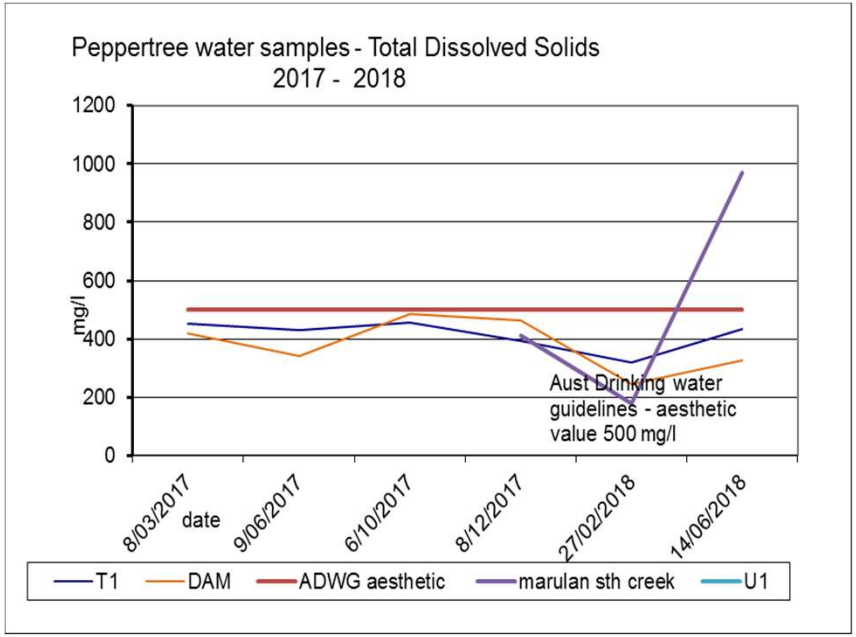
Analyses now compared to trigger levels

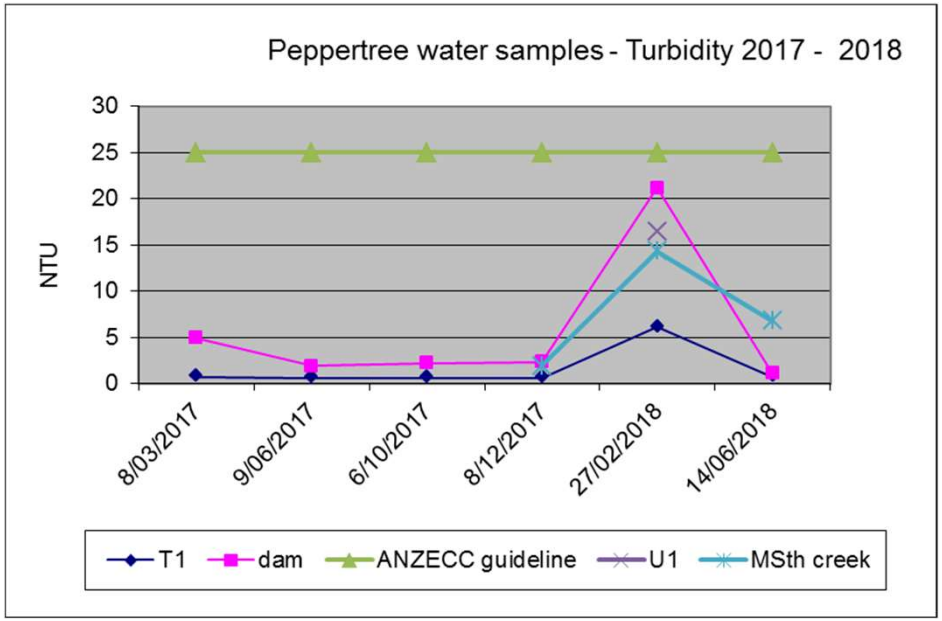
Next sample round September 2018

Total Nitrogen for T1 is in compliance, levels in the dam have always been higher but have decreased during 2017 and leveled off. Marulan south creek increasing and may be due to lack of flow of water



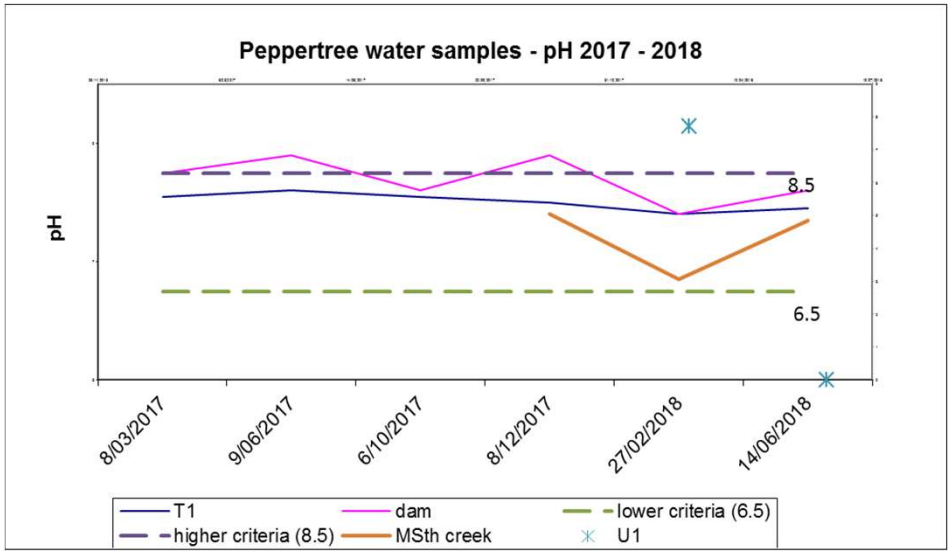
Agenda item 6 – Environmental Performance
Surface water

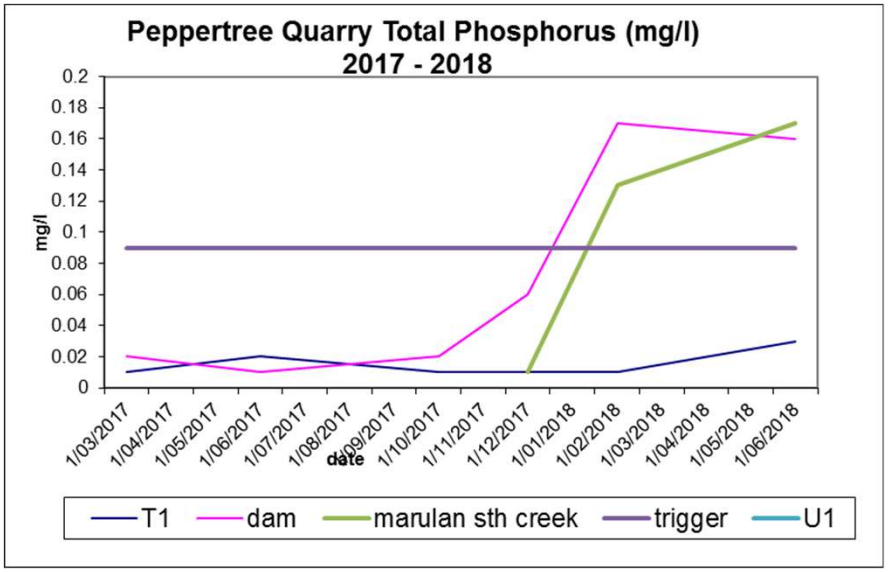




Total dissolved solids in compliance with the exception of Marulan south creek – due to low flow
Turbidity In compliance – increase due to rain and then decrease

Agenda item 6 – Environmental Performance
Surface water

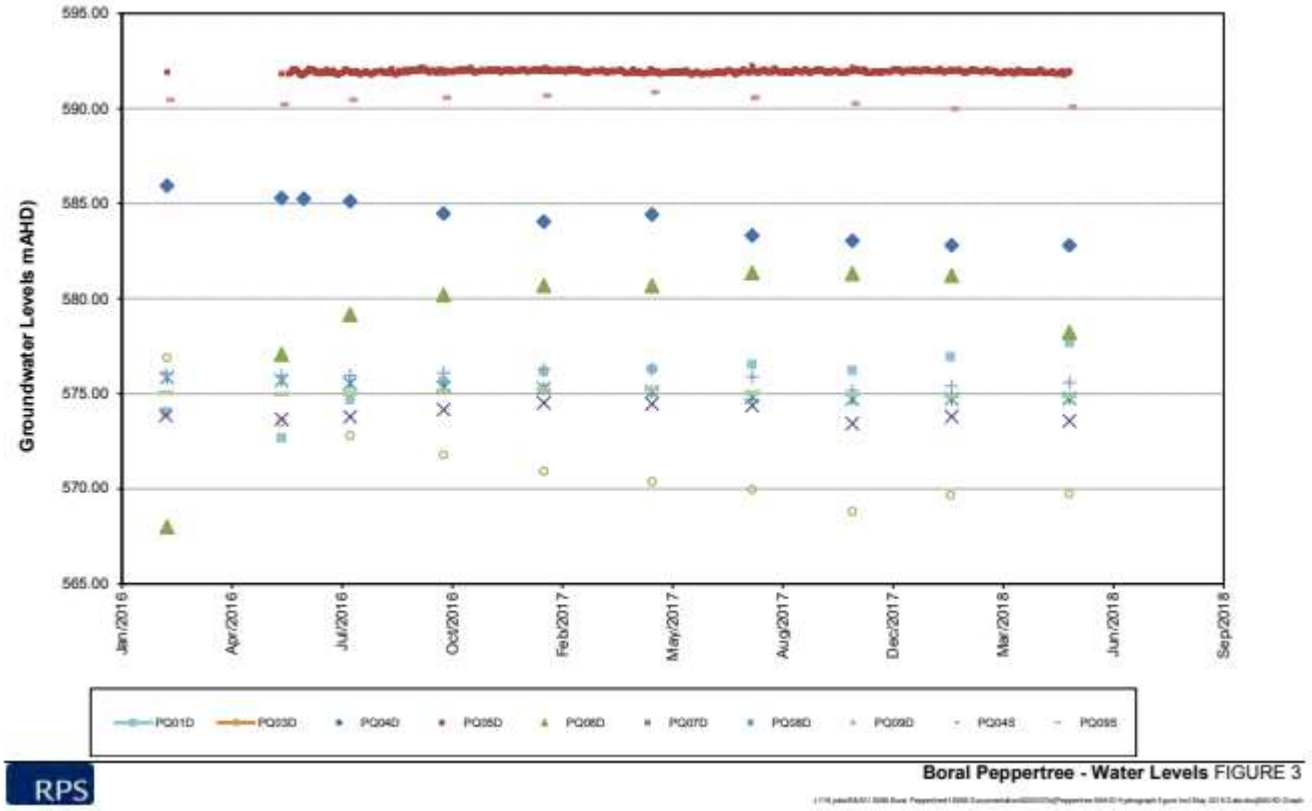




pH fluctuates for the dam but T1 downstream is in compliance

Total phosphorus - In compliance for T1 but increase at the end of 2017 and early 2018 for the dam. May be due to changes in water level introducing nutrients from above the site and an increase in water fowl population in the dam. Marulan south creek shows a similar increase. Marulan south creek shows similar increase

Agenda item 6 – Environmental Performance
Ground water

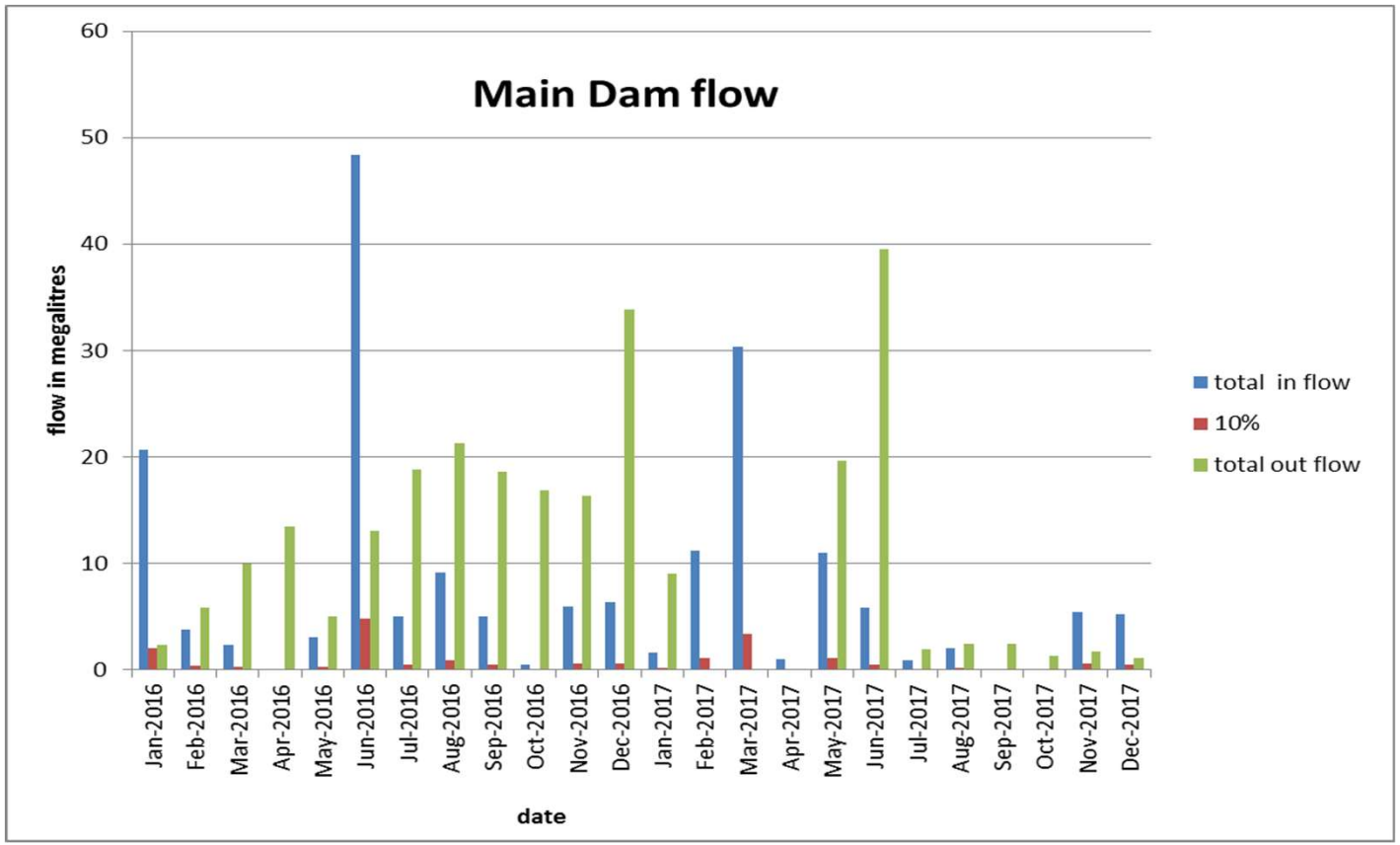


- No draw down of ground water from sentinel well .i.e. no impact on local groundwater.

Agenda item 6 – Environmental Performance
Ground water

- Monitoring conducted April and July 2018
- Measured against trigger levels
- Continue to have Exceedances of total nitrogen and total phosphorus at some bores (background levels are higher than guidance standards)
- Continue to have higher than trigger levels on a range of analytes such as chloride, sodium magnesium.
- The majority of these results however are minor, and likely due to the poorly developed nature of the bores and the limited dataset utilised for trigger levels development.
- Statistical review of the trigger values need to occur now that we have 10 sample rounds of data.

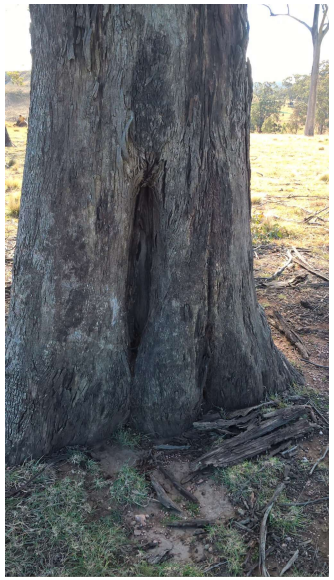
Agenda item 6 – Environmental Performance
Environmental flow



All in compliance

Agenda item 6 – Environmental Performance
Heritage

- Heritage salvage works have now been completed
- Scar tree identified in the footprint of the southern overburden emplacement. Review of the tree has been undertaken
- Next step is to collate and catalogue the artifacts commencing in July 2018



Agenda item 6 – Environmental Performance
Ecology

- Initial benchmark survey undertaken and photo points identified
- Next planting on the eastern OB held off till September 2018 due to weather

Agenda item 6 – Stakeholder Engagement

- CVA schools program being arranged – Tallong school
- Outward Bound – May 2018
- Kite festival
- 150th railway celebrations
- Woodwards Creek erosion management
  - (Bungonia Park trust and soil Conservation)

Agenda item 7 – Plans for the next three months

- **Safety**
  - Maintain zero harm to our employees and contractors
- **Overburden**
  - Removal of overburden over the next 9 months which will take the pit towards the South again near the site entrance. This should complete the Southern overburden dump.
- **Pit update**
  - Over the next 3 months the pit will continue to the east
- **Processing**
  - Development of a store for parts storage next to the workshop to eliminate shipping containers
  - Investigating options for an additional train
- **People**
  - Continuation of training and development of our people

Agenda item 8 – General Business

- **Weather station update**
  - Review of the weather station to be undertaken as part of Voluntary Undertaking
  - Relocation also now required

Agenda item 8 – General Business

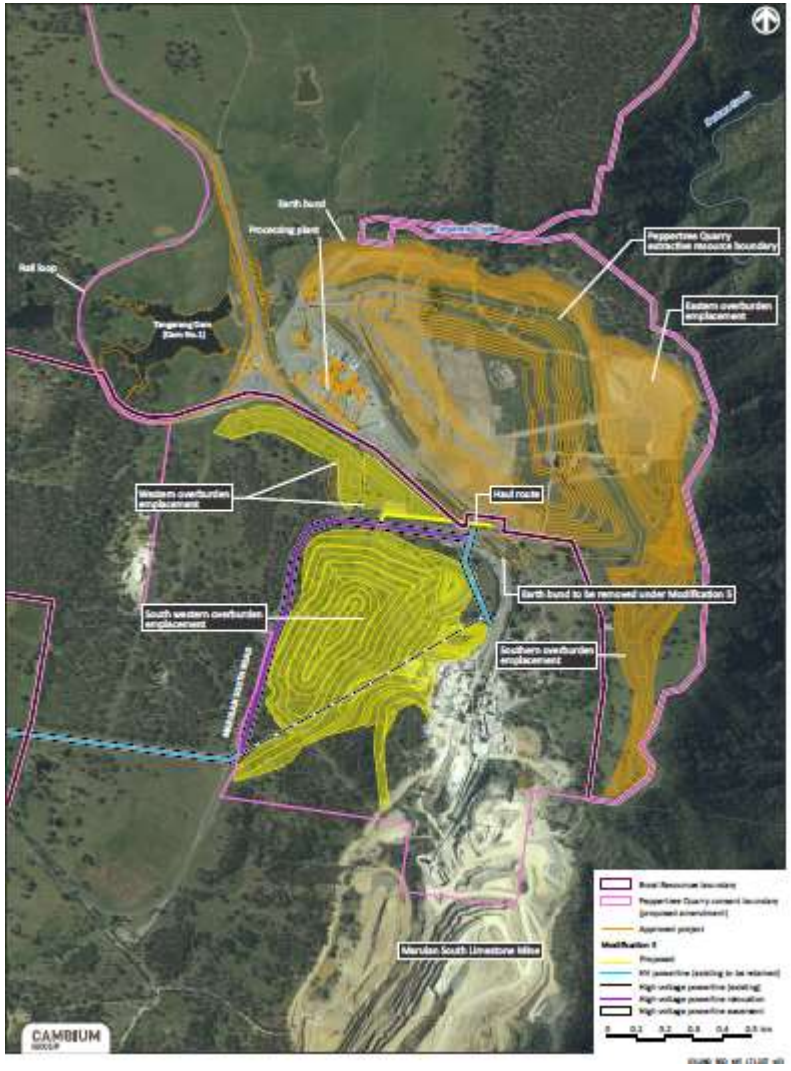
- **Marulan South Limestone update**
- Two public information sessions held in Marulan last week about Boral's plans to expand its limestone mine.

- The Marulan South mine, will soon lodge a revised Environmental Assessment (EA) to the State Government.
- The company proposes to increase production from 3.5 million to four million tonnes per annum and to relocate over-burden material.
- The realisation that there was more limestone on the northern and western sides of the mine triggered a revision of environmental impact studies.
- The company hopes to lodge a revised EA in September/October.

Agenda item 8 – General Business

- **Peppertree Quarry Modification 5**
  - The proposal comprises: developing a new overburden emplacement (South-west Overburden Emplacement - SWOE), amending the Western Overburden Emplacement, removing the Western Earth Bund, relocating a powerline, constructing a new haul road, constructing a new intersection on Marulan South Road so that the haul road can access the SWOE, and extending the consent boundary south to encompass the SWOE.

Agenda item 8 – General Business



Agenda item 8 – General Business

- Next meeting dates –
  - November 2018

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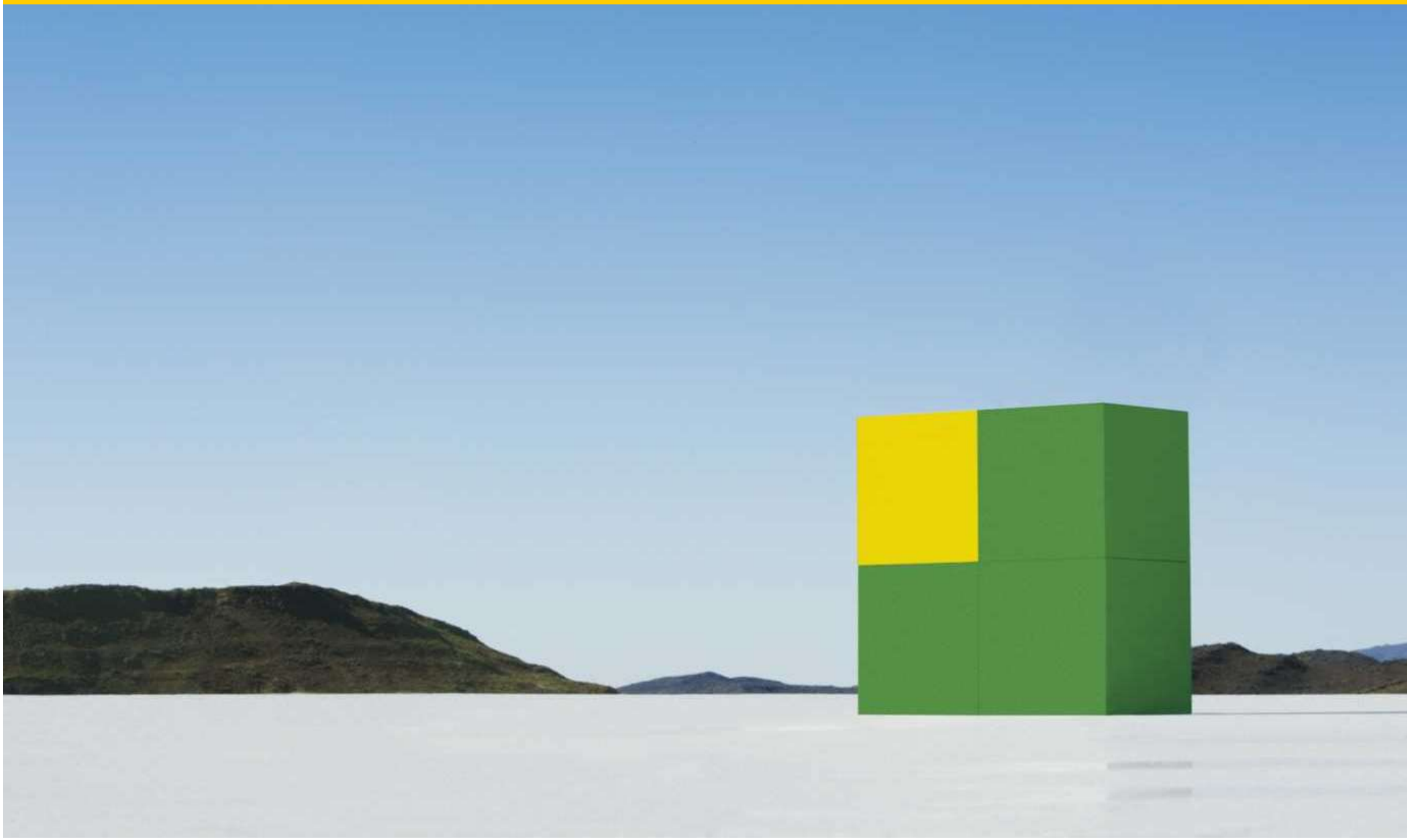

Peppertree Community Consultative Committee

Minutes

Meeting Date: 15th August 2018

Location: Peppertree Quarry, Marulan South

CCC Member Attendees: Geoff Clark (representing Tallong Community Focus Group); Russell Montgomery (community representative); Gordon Kirkby (JBA Urban Planning – Independent Chairperson);

Boral attendees: Angus Shedden, Sharon Makin, Chris Brown

Apologies: Cr Sturgiss (representing Goulburn Mulwaree Council); Tino Foti (local business representative); Charles Mendel (community representative)

Distribution: As above; Department of Planning (Georgia Dragicevic <Georgia.Dragicevic@planning.nsw.gov.au>); Goulburn Mulwaree Council Administration (amy.croker@goulburn.nsw.gov.au)

Subject: August 2018 Meeting of Peppertree Quarry CCC

Item	Description
Welcome and Introduction	Gordon opened the meeting at 3 pm, welcomed all members
Apologies	as above
Site Inspection	not undertaken
Confirmation of minutes from previous meeting	The Committee accept that the minutes from last meeting were an accurate record of the meeting. Moved G.Clark.
Business arising	TSP Data to be reviewed in regards to annual average. Data was reviewed and all is correct.
Correspondence IN **Correspondence OUT**	**Department of Planning and Environment** • Update of Voluntary undertaking **EPA** • Meeting re Mod 5, dust bottle relocation and update on Voluntary Undertaking **G Clark** • weather data reviews – weather station monthly reviews (April, May, June 2018)
Progress of	**Safety**

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Operations to date	**Safety** • Achieved zero LTI's since last CCC (April 2018) **Overburden** • Overburden works ceased with new contract issued to TRN commencing this week. **Pit update** • Mine plan remains a consistent Easterly direction with additional load and haul of rock from top bench as part of the overburden works **Processing** • Volumes remain very healthy • Current 2.5MT with aim to move to 3Mt over the next 3 to 6 months • Work required with the trains to be able to take capacity • Two projects underway to help increase productivity: • Reclaim hopper at the surge pile to reduce requirement to push in the surge • Two additional air classifiers to improve sand consistency in wet weather **People** • Relatively stable workforce over past few months • Development of people remains a priority
OH&S	• No loss time injuries • Surprise DPI audit on HME. • No major issues identified • however lessons learnt on the use of pre checklists prior to operations • Winner of "One" Award for being # 1 supplier in regards to quality • DPI audit planned for 20th august on Confined space
Environment **incidents** **complaints** **Air Quality** **Blasting** **Noise**	• Environmental Incidents (April 2018 to May 2018) • May 2018–1 – hydraulic hose failure • June 2018– 1 – drill rig broken hose • July 2018 – 1 – dust from pit operations • Nil complaints • Air monitoring results were tabled for discussion. Results are available for dust deposition gauges and high volume air samplers, both total suspended particles (TSP) and particulate matter less than 10 microns (PM10). One deposition gauge not in compliance. D1 is not In compliance due to higher than normal levels of dust recorded in April, May and June 2018. However, the insoluble solids Ash content (organic) is nearly 50%. A report has been prepared by Todoroski Air Services as to the relocation of the bottle • PM10, Annual average in compliance. No samples over 24 hour criteria • TSP in compliance. • All blasts have complied with noise and vibration measurements requirements. • Quarterly Noise monitoring was conducted in April 2018. In compliance at all receivers. Monitoring undertaken in July but results not received as yet. • surface water Quarterly monitoring round undertaken in June 2018. Total Nitrogen for T1 is in compliance with levels in the dam decreasing during 2017 and 2018. Total dissolved solids in compliance. Turbidity in compliance. pH fluctuates for the dam but T1 downstream is in

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surface water **Ground water** **Heritage** **Rehabilitation**	compliance. Total phosphorus In compliance for T1 but increase at the end of 2017 and early 2018 for the dam. May be due to changes in water level introducing nutrients from above the site and an increase in water fowl population in the dam. Marulan south creek (background) shows a similar increase. • Environmental Flow - 10% environmental flow required – in compliance • Groundwater samples - Monitoring conducted April and July 2018. No draw down of ground water from sentinel well .ie no impact on local groundwater. All results are in compliance with some exceptions associated with naturally high background levels of total nitrogen and total phosphorus. Revised statistical review now required as we have 10 sample rounds of data • Heritage salvage works have now been completed. • Scar tree identified in the footprint of the southern overburden emplacement. Review of the tree has been undertaken • Next step is to collate and catalogue the artifacts commencing in July 2018 • Initial benchmark survey undertaken and photo points identified for rehabilitation areas • Next planting on the eastern OB held off till September 2018 due to weather
Community (participated in)	▪ CVA schools program being arranged ▪ Outward Bound – May 2018 ▪ Kite Festival ▪ 150th railway celebrations ▪ Woodwards Creek erosion management ▪ (Bungonia Park trust and soil Conservation)
Plans for next three months	**Safety** • Maintain zero harm to our employees and contractors **Overburden** • Removal of overburden over the next 9 months which will take the pit towards the South again near the site entrance. This should complete the Southern Overburden dump. Then no overburden stripping for about 18 months **Pit update** • Over the next 3 months the pit will continue to the east then south **Processing** • Development of a store for parts management next to the workshop to eliminate shipping containers • Investigating options for an additional train **People** • Continuation of training and development of our people
General Business	**Weather station update** ▪ Review of the weather station to be undertaken as part of Voluntary Undertaking ▪ Relocation also now required **Marulan South Limestone update**

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	▪ Two public information sessions held in Marulan last week about Boral's plans to expand its limestone mine. ▪ The Marulan South mine, will soon lodge a revised Environmental Assessment (EA) to the State Government. ▪ The company proposes to increase production from 3.5 million to four million tonnes per annum and to relocate over-burden material. ▪ The realisation that there was more limestone on the northern and western sides of the mine triggered a revision of environmental impact studies. ▪ The company hopes to lodge a revised EA in September/October **Peppertree Quarry Modification 5** ▪ The proposal comprises: developing a new overburden emplacement (South-west Overburden Emplacement - SWOE), amending the Western Overburden Emplacement, removing the Western Earth Bund, relocating a powerline, constructing a new haul road, constructing a new intersection on Marulan South Road so that the haul road can access the SWOE, and extending the consent boundary south to encompass the SWOE.
Actions	• Provide details on weatherzone forecasting system algorithms
Next Meeting	Wednesday 14th November 2018
Meeting Close	5 pm

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APPENDIX B

Peppertree Quarry and Marulan South Limestone Community Plan 2015-17

Community Plan

PEPPERTREE QUARRY & MARULAN SOUTH LIMESTONE 2015-17

PEPPERTREE QUARRY & MARULAN SOUTH LIMESTONE
COMMUNITY PLAN 2015-17

Introduction

Boral is the leading producer and supplier of materials for the building and construction industries of Australia. The Boral Group, managed from headquarters in Sydney, consists of operations in every Australian state and territory, and in south-east Asia and North America.

One of Boral's stated objectives is to take *a socially responsible approach to all (our) activities*. This means ensuring operations do not unnecessarily influence surrounding stakeholders, and implementing a partnership approach to seek mutually beneficial outcomes.

Community standards are ever-evolving. Boral therefore recognises the importance of effective stakeholder engagement and communication between each of its operations and the stakeholders associated with them.

Boral additionally recognises some operations are of high significance to surrounding communities, either by virtue of historical attachment, physical presence and/or economic input. In such cases, Boral seeks to generate value for the community through its presence.

Boral uses a risk-based approach in determining its community activities, taking into account a range of social, geographical, environmental and legislative considerations. A profile is constructed for each site which then forms the basis of a Community Plan tailored to the site's context.

Regular reviews are conducted to ensure the appropriate methods are being deployed and issues are being given attention throughout implementation.

A plan for all local operations

As part of its approach, Boral operations located within close proximity are treated as one entity. This is because the wider community generally only recognises a single Boral name and brand.

The contents of this Plan apply to both the Peppertree Quarry and Marulan South Limestone operations. Copies of the Plan are kept at both sites and are considered by respective management as part of their operations.

Stakeholders

Stakeholders for the Marulan operations include potentially affected fenceline neighbours in Marulan, Bungonia and Tallong, elected officials, regulatory bodies including the Goulburn Mulwaree Council, industry groups, community associations, Indigenous representatives, customers, employees and media.

Ongoing contact with these stakeholders has been maintained since the original Marulan South Community Plan was developed in 2011-12. The information and feedback gained through this ongoing contact has informed the development of this Plan, as well as the selection of areas of focus and initiatives included.

Stakeholder Engagement Activities

Boral's stakeholder engagement approach seeks to achieve the following main aims:

- Inform and educate stakeholders about the purpose and activities of each operation and how they contribute to the local area, wider region, and the community as a whole;
- To identify potential matters of concern to stakeholders, and propose ways in which those matters can be discussed and, where possible, resolved to mutual benefit;
- To create opportunities for stakeholders to freely comment on their observation and experience of each operation, and for that feedback to be used as part of continuous improvement;
- To address any compliance obligations each operation may have in regard to community information and engagement; and
- Where appropriate, to identify opportunities for value to be created for the community as a result of Boral's presence as a corporate citizen.

Each Community Plan therefore includes a range of actions which support the realising of these aims. These incorporate activities undertaken as part of the day-to-day business of the sites, as well as obligations listed in development consents and approvals for the operations.

The Plans may also identify activities initiating the need for wider consultation beyond the day-to-day, as well as highlighting stakeholder groups with whom the sites must form and maintain relationships, and the manner and frequency of contact to be undertaken with those parties.

Where an operation is deemed to be of significance to the community in which it is located, either by historical, social, economic or other means, the Plans will also propose actions which facilitate Boral's participation in that community (dependent on resource availability).

Boral's Community Support Policy and Standard Operating Procedure outlines the company's overall corporate approach to this type of community contribution.

While Boral acknowledges it may receive requests for assistance through its sites from time to time, any such requests will usually be referred to Boral's corporate office for addressing as part of the corporate approach.

The following table outlines Boral's current areas of focus for participating in the Marulan, Bungonia and Tallong communities. Each area is illustrated with **examples only** of activities which Boral will seek to support through the Plan.

Item	Purpose (Example only)
Fenceline neighbours – Christmas contact	End-of-year seasons greetings from Boral to immediate neighbours
Goulburn Mulwaree Council – Community events and initiatives	Involvement with non-political Council activities involving local business community. Example items for support include: • Business networking events and publications • Promotion of Marulan/Goulburn region to external markets • Mayoral charity and business functions and activities – annual Charity Golf Day / annual Community Bike Week Ride • Working Group involvement – Pathway to Extractive Industries
Aboriginal Management Committee / Indigenous community initiatives	Commitment toward respecting and representing Indigenous significance of operational sites. Example items for support include: • Indigenous representative involvement in corporate/education events • Representation of site cultural significance through art, signage, literature etc • Regional initiatives educating general public about Indigenous heritage of area

Item	Purpose (Example only)
Development of joint project with Indigenous stakeholders and local historical societies	Connection of Indigenous and local stakeholders, demonstrates commitment to community and its heritage. Example items for support include: • Education day for local school students • Heritage based event held during NAIDOC or Reconciliation Weeks • Documentation of traditional stories/language from region.
Conservation of local heritage, including extractive industry heritage.	Support for community-driven efforts to represent, record, conserve and share regional heritage, including significant history of limestone operations. Example items for support include: • Active participation in the HASP (Heritage and Sustainable Parklands project – Regional Heritage Trail) • Assistance in the development of tourism based walks and talks • In-kind assistance associated with heritage preservation or celebrations – Tallong Memorial Park restoration / Marulan Archive Centre
Sponsorship of Tallong Apple Day Festival and Marulan Kite Festival	Major community events which draw external visitation, opportunity to showcase Boral and be seen as a local contributor
Identification of annual project with local business organisation (eg Marulan Chamber of Commerce)	Opportunities to support community-driven initiatives in tourism, leverage Boral's 'industrial tourism' capacity to raise profile. Example items for support include: • Active participation in the HASP (Heritage and Sustainable Parklands project – Regional Heritage Trail) • Town improvements which can showcase Boral products
Outward Bound partnership	Assist in the development of leadership skills of Year 9 students from local high schools, with the opportunity to participate in a Boral Youth Leadership program partnered with Outward Bound
Conservation Volunteers Australia	Assist with rehabilitation and management of nominated areas with CVA volunteers as part of the Boral Corporate program.

Communication

To keep stakeholders informed about activity at the sites, and to provide general information in an accessible manner, Boral will implement a number of communication initiatives to suit the needs of a variety of community members. These include:

- Continuing the current **Community Consultative Committee** as required by the Peppertree Project Approval;
- Maintaining the established **website** for the Marulan South Operations (**www.boral.com.au/marulan**);
- Issuing a regular **community newsletter** to the wider Marulan, Bungonia and Tallong communities;
- Developing a suite of information sheets/brochures on a range of topics related to the operations and making them accessible on-line, at the site and via appropriate outlets in Marulan and Tallong;
- Organising **information stalls and static displays** in line with appropriate community events and celebrations;
- Accepting opportunities to give presentations to community groups;
- Developing a 'welcome' procedure for any new residents arriving within the wider 'footprint' of the operations; and
- Installation of detailed signage at public points around the operations which include key contact details (including for 'after hours'), operational and administrative hours, emergency contacts and other relevant information.

Contact with stakeholders

Boral recognises that each individual stakeholder group prefers to receive information via different communication channels. In implementing this Plan, Boral will seek to meet these needs based upon the knowledge it has gathered about its stakeholders.

Preference will be for face-to-face contact, especially when considering fenceline neighbours and groups within the immediate Marulan and Tallong communities. Where this is not practical, telephone contact will form the secondary option.

Regular meetings will also be arranged with stakeholders such as Council, State and Federal Members, Government Departments and so on to ensure each are kept up-to-date with the latest progress at the operations, and to identify potential issues.

At all times when stakeholders interact with Boral's Marulan operations, it is Boral's intent that:

- they will be treated with due courtesy and respect;
- if they have raised a concern, they will receive a prompt response (or regular updates if the matter or resolution is more complex);
- the operations will provide timely advice on any matters which may affect external stakeholders;
- general information about the operations will be available and accessible (on-line, printed and other materials);
- all employees will be made aware of the stakeholder engagement arrangements for the operations, including procedures and practices designed to remove/reduce the influence of the operations on neighbours and the wider community; and
- general adherence to Boral's corporate values and purpose.

Evaluation

This Plan, which follows the successful original 2012-14 Plan, has been developed for implementation during 2015-17. The content has been based upon the success of the previous Plan and the involvement of Boral in the community during its implementation.

During the development of this new Plan, key stakeholders provided feedback that the initiatives as had been established were working well and should continue to follow the same focus.

The Plan includes a reporting and adjustment process to ensure progress is being made and to address any issues arising. Contact with key stakeholders will continue to be made to analyse whether the chosen initiatives have been noticed within the community and are proving effective.

Once each review is complete, the results will be reported back to the respective site management teams for consideration and comment.

Preparations for the subsequent Plan will commence in the latter half of 2017. It will involve a new assessment of the site's performance and economic context before development of further actions.

Stakeholder input and feedback will again be sought to ensure the updated Plan continues to account for community views.

Ultimately, the successful implementation of this Plan will be measured against a set of key criteria aligned to Boral's corporate values and purpose. Specifically:

- Has the implementation of the Plan demonstrated **excellence** (the highest standards of performance)?
- Has the Plan helped to address stakeholder issues of concern effectively as they have arisen (**integrity**)?
- Has the Plan led to the development of social and economic partnerships between the operations and host community (**collaboration**)?
- Has the implementation of the Plan better positioned or moved Boral's reputation and local standing during its course (**endurance**)?
- Has the Plan helped to deliver **a socially responsible approach** from the operations?

Measures of success will include formal and anecdotal positive feedback from stakeholders, positive recognition of the Boral brand as a contributor within the wider community, minimal complaints related to availability of information about the operations, and favourable media coverage.

Appendix I
Boral Community Support Policy & Standard Operating Procedure

Functional Area: Communications & Investor Relations
Procedure Name: Community Support
Effective date: 10 April 2012
SOP: GRP-CIR-002
Revision No: 003
Applicable Regions: Global

Community Support

1 Policy Statement

It is Boral's policy to provide support to selected organisations in the communities in which it operates, through appropriate donation and sponsorship programs.

Boral's community support programs are intended to make a meaningful contribution to the social and economic well-being of communities where the Company operates and also to provide value to Boral operations through support of business objectives, improvements in community relations and corporate image, and enhanced bottom line results.

All partnership commitments – in cash or value in kind - must fall within the Limits of Authority and should take into consideration Boral's Community Partnership Model and accompanying guidelines.

2 Boral's Community Partnership Model

To enable the best selection of partnerships, Boral has a strategic community partnership model supported by key selection criteria that help determine the most effective partnerships for the Company. The core platform of Boral's partnership program is to make a valued and sustainable contribution to the communities in which we operate through Our Products; Our People and Our Places.

2.1 Boral Partnership Framework

This means:

2.1.1 Our Products

When it comes to Our Products, we look for supply opportunities to assist in building better amenities or to showcase what we manufacture. This can happen in several ways including Charity Home projects where new homes are constructed and sold to raise money for key charities; the supply of Boral materials into rebuilding programs after natural disasters; or the supply of materials or services to community partners for development projects or new amenities.

2.1.2 Our People

When it comes to Our People, we look for ways Boral staff can get involved. Involvement can include using our expertise to assist our community partners, volunteering to undertake community work or raising funds for a chosen cause. Employee involvement and participation also incorporates encouraging a better work-life balance for our people and involving them in cultural events and activities in the community. Where possible we also like to involve other stakeholders such as family members and our customers.

2.1.3. Our Places

When it comes to Our Places, we seek to ensure our programs match up to our national and international operating regions. This model provides a starting point in the partnership planning process, and we would expect all our partners to meet at least two elements within the model. In addition, there are detailed criteria that we use to further determine partnership suitability, which are available for employees on Boral's intranet and to interested community groups on Boral's website.

2.2 Guidelines

In implementing the community support policy, the following guidelines should be used:

1. Donations and sponsorship programs must support Boral's Business objectives and thereby obtain significant recognition and return for Boral.

2. Programs selected may include education, medical and health, welfare, environmental, safety and cultural activities. Boral does not generally support individuals, religious activities or sporting events or organisations.

3. The level of community support in a locality should reflect the scale and importance of Boral's operations in that locality. Consideration should always be given to disaster appeals in areas where Boral has operations.

4. Community organisations supported by Boral must be able to demonstrate management capability, administrative efficiency and financial responsibility.

5. As with other company projects, donations and sponsorship programs should have specific business objectives, planned activities, budgets and schedules. Programs may run for several years to maximise Boral's recognition and return but every program must include a termination date.

6. Any support for community activities and organisations must be provided in an open and transparent manner.

7. The Company will consider more favourably organisations in which Boral employees are involved in fundraising or in the activities or management of the organisation.

8. A Community program may need to be accompanied by appropriate public relations activities (such as advertising, hospitality, media releases, etc.) to ensure that Boral obtains adequate recognition and return. The likely cost of such activities should be included in any program proposal.

9. Preference should be given where possible to support in kind, where Boral products can be used and highlighted.

10. Programs that relate specifically to promotion of Boral products (such as industry awards functions or conference exhibitions) will be treated as advertising and should be funded from corporate or divisional advertising budgets.

11. The Company will take advantage of tax deductibility for community contributions wherever possible.

2.3 Approval Procedure

The Communications & Investor Relations department is responsible for coordinating community support programs within Boral to ensure that such programs meet Boral's guidelines, avoid duplication of funding, maximise the Company's recognition and achieve tax deductibility, if relevant.

Proposals for donations or sponsorships must be discussed with Communications & Investor Relations department on 02 9220 6433. Approvals of community programs must be consistent with the Company's Limits of Authority.

Appendix II
About the operations

Boral Marulan South Limestone Operations

The origins of Marulan South Limestone date back to the 1870s when the first mining took place. Located around 10km south-east of Marulan, Marulan South Limestone employs around 100 people, the majority of whom live in the local Goulburn Mulwaree Council area.

Operations have been continuous over the past century with a variety of owners, notably Portland Southern Cement (later Blue Circle Southern Cement). Boral purchased 'Blue Circle' in 1987, by which the site continued to be known until 2010 when it converted to the 'parent' Boral identity.

The site produces around three million tonnes of limestone yearly for use in cement making, manufacturing processes and agriculture. Extraction takes place via drill and blast in two open-cut pits reaching into the limestone deposit, while there is also an on-site kiln producing quicklime.

Much of the limestone mined is delivered to the Boral Berrima Cement Works where it becomes a key component in the cement manufacture process. Material is transported using a rail spur to the Main Southern Railway, and via Marulan South Road to the Hume Highway.

The operations are bordered by the Morton and Bungonia National Parks, including the Bungonia Gorge which attracts many visitors from around the world.

Boral Peppertree Quarry

The Peppertree Quarry has been developed to replace the now depleted resources at the Emu Plains Quarry in western Sydney. This site historically supplied 60 percent of the metropolitan aggregate demand, and its finalisation left Sydney without 'local' hard rock quarry resources.

Construction commenced at Peppertree during 2011 after around a decade of investigations and planning. Operations began in January 2014.

Sited immediately north of the Marulan South Limestone site, the quarry employed more than 100 people during the construction of the facility. Around 30 staff run the site in its operational mode.

Peppertree has a 30-year approval which allows up to 3.5 million tonnes of hard rock aggregates and quarry products to be produced per year, although the resource is estimated at more than 80 years. Parts of the plant and equipment are located 'in pit', reducing the potential for noise and dust outputs while making productivity and environmental gains through reduced haulage and handling.

The materials produced at Peppertree are transported from site via rail to terminals around Sydney. The quarry property is also bordered by the Morton National Park as well as rural and pastoral lands.

Approvals and licences

Details of the key approvals and licences in effect for both the Peppertree Quarry and Marulan South Limestone can be viewed on-line at **www.boral.com.au/marulan**.

APPENDIX C

Boral Marulan South 2018 Newsletters

Build something great™

Boral Marulan South Operations
Newsletter

July 2018

This month, we'd like to bring you up to date with plans we started to develop back in 2015-16 which aimed to continue operations at our Marulan South Limestone site well into this century.

Re-starting our future…

Our landmark Limestone site has supplied critical raw materials for use in building and construction across NSW and the ACT for almost 150 years.

The majority of the limestone finds its way to the Boral Cement Works at Berrima, where it becomes the basis of **up to 60 percent** of all cement products consumed within the state.

This makes our Marulan South mine a vitally important asset in respect to ongoing growth.

When we last raised the site's future, we were compiling a 'State Significant Development' (SSD) planning application for submission to the NSW Department of Planning and Environment.

The purpose was to seek the extension of current operations into the next **30 years**, with an annual production limit of **four million tonnes**.

As a consequence, we anticipated the current mine would **widen and deepen**, requiring a new design, as well as the need for new **overburden emplacement** areas around the site.

Then, during 2016, we appeared to stop mentioning the application. So what happened?

A new understanding…

As we compiled the SSD application and studies, we were also drilling around site to investigate the extent of the limestone resource.

That led us to discover the amount of available limestone at Marulan South is more expansive than we thought. We therefore had to review the thinking which supported the application until that point.

Further, about the same time changes in state legislation came into effect. This meant studies we'd originally done for the application needed adjustment.

After two years of further information gathering and hard work, we're now ready to restart our 'journey'.

Where to now?

The main aim of our SSD application for Marulan South Limestone has not changed. Some of the associated detail, however, has.

The final application will still include the things we were intending to ask for in 2015-16 – continued operations for 30 years, four million tonnes per year of production, and new overburden emplacements, including one to be placed across the route of Marulan South Road.

Similarly, it will also keep our original commitments, such as building the new Marulan South Road route around the overburden, providing funds for the upgrade of the full road and ongoing maintenance, and updated environmental control measures at the site.

Also, as in 2015-16, the SSD application for Limestone will be accompanied by a separate request to modify the neighbouring **Boral Peppertree Quarry**'s planning consent (**MOD 5**). This time, however, the modification will simply be to allow Peppertree 'ownership' of one of Limestone's intended overburden emplacements, meeting operational needs at their similarly crucial site.

There's a lot of detail involved with our plans and the associated processes. Local community members can therefore expect to see more information in coming months about what we need to do.

We've planned a range of in-person opportunities, as well as online and written information including future *Discover Marulan* issues, to convey this. Keep an eye on our website (www.boral.com.au/marulan), local media and your letterbox to find out more.

Like to know more? Call us on 4841 1701 (Quarry) or 4820 3003 (Limestone). Or visit www.boral.com.au/marulan.
For environmental matters (quarry), please call 4841 1701.

Build something great™

Boral Marulan South Operations
Newsletter

August 2018

In our Discover Marulan column last month, we mentioned we'd restarted working on how our Marulan South Limestone mine operations will be continued well into this century. This month, we're extending an invitation to you to begin once again offering your feedback about our plans.

Securing the source of cement…

Our Marulan South Limestone mine is where up to **60 percent** of all cement products bought and consumed in NSW and the ACT begin.

The mine forms the start of our cement supply chain in NSW. Limestone is loaded onto trains which take it to our **Cement Works** at Berrima where, after blending with other materials at very high temperature, it is turned into **clinker**.

The clinker is then ground inside the Berrima mill, producing the cement 'powder' which can be bought at your local hardware store.

The mine is also an integral supplier of lime and limestone into the steel, agricultural and commercial industries

During its almost **150 year** history our Limestone site has been governed, from a planning perspective, by a collection of leases, plans and consents granted through NSW Government authorities and the Goulburn Mulwaree Council.

The mine also relies on **existing use rights**. For many years, the **NSW Department of Planning and Environment (DP&E)** has sought to replace these 'rights' with modern **State Significant Development (SSD)** planning approvals.

In our last column, we mentioned we'd started work on an SSD process in 2015, but paused when we discovered more limestone resource was available at the site.

After adjusting the studies done in support of the original SSD, we said that we're ready to move toward lodging an application with the DP&E.

A site of state significance…

The main aim of our SSD application is to ensure we can continue to supply the state's building and construction industries with cement and concrete, made using Marulan South limestone and to supply the steel, agricultural and commercial industries with this vital raw material

To meet the objective, we're developing an application which will seek approval for:

- The mine to operate for **30** more years;
- A **four million** tonnes per year production limit;
- A **wider** and **deeper** mine design; and
- Use of the **overburden** (topsoil, subsoil and vegetation between the surface and rock) to fill the southernmost part of the existing pit, and for use in **emplacements** to be built on our lands.

More detail can be found on the Marulan South Operations website – **www.boral.com/marulan**.

You'll also find information about a **fifth** modification to the neighbouring Peppertree Quarry's planning consent for which we're also about to apply.

The modification simply seeks to transfer 'ownership' of one of the overburden emplacements from Limestone to the quarry.

Drop in, learn more, tell us what you think!

To further explain the **SSD application** and the Peppertree **modification**, we've organised a community **drop in centre**.

Visit us at the **Marulan Hall** in **George Street** (next to Tony Onions Park) to find out more, ask your questions and leave your thoughts:

2.30-5.30pm, Wednesday 8 August

9.30am-1pm, Thursday 9 August

Like to know more? Call us on 4841 1701 *(Quarry)* or 4820 3003 *(Limestone)*. Or visit www.boral.com.au/marulan.
For environmental matters *(Quarry)*, please call 4841 1701.

Build something great™

Boral Marulan South Operations
Newsletter

September 2018

Boral's Marulan South Operations are pleased to present our regular newsletter for the information of our valued neighbours and wider community.

Hearing from you

We'd like to thank those who took the time to visit our 'drop in' centre at the Marulan Hall on 8 and 9 August in support of our upcoming planning proposals.

The 'centre' was opened specifically to help the community better understand our impending State Significant Development (SSD) application for the Marulan South Limestone site, and a modification we need to make to the Peppertree Quarry planning approval.

Matters discussed with us included the proposed overburden emplacements to be built around the sites, traffic on Marulan South Road, and the continuing improvement of our dust emissions management. We're also grateful for additional feedback we've received about the applications in person, via phone and email.

The planning documentation is still being compiled, so we'd be happy to receive more comments and answer questions residents might still have. Emails can be sent to feedback@boral.com.au, or you can call Paul Jackson, our Stakeholder Relations Manager, on 4677 2946 (*Mon/Tue/Fri*) or 0401 894 097 (*Wed/Thu*).

Details on what is proposed for each of our sites can be found on our Marulan South Operations webpage - www.boral.com.au/marulan.

Outward Bound 2018

The 2018 Boral Youth Leadership program in partnership with Outward Bound was held several months ago with 14 students from local high schools spending a week at Tharwa developing leadership skills and planning community projects.

The participant's next step, with Boral staff assistance is to plan out the projects in detail and implement them in their communities before the end of the year.

These projects include an aboriginal bush garden, tree planting and education on the glossy black cockatoos, support for peers program and engagement in aged care and hospitals.

We look forward to these young people making a difference.

Marulan Railway 150th

The teams from both Boral quarries were more than happy to assist the organising committee with the installation of a granite centrepiece at the Marulan Railway station to celebrate the 150th birthday of the Marulan railway station.

Marulan South Limestone HSE Connect

Marulan South Limestone hold regular "HSE Connect" sessions bringing together about 80 managers and shop floor employees to deal with various themes in the Health, Safety and Environmental space.

Earlier in the year the session was put together in an "expo" format, dealing with numerous topics, the primary one being traffic management. It also included fatigue, drugs and alcohol, mental health, sustainability awareness, isolation, positive psychology and HSE leadership. We made available a 777 Haul Truck, Front End Loader, Excavator and road Truck & Dog to build an awareness of blind areas and various traffic management controls that we have in place. It was a very interactive day with a shift away from the traditional presentations.

Like to know more? Call us on 02 4841 1701 (Quarry) or 02 4820 3003 (Limestone). Or visit www.boral.com.au/marulan.
For environmental matters (quarry), please call 4841 1701.

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Boral Marulan South Operations
Newsletter

November 2018

Boral's Marulan South Operations are pleased to present our regular newsletter for the information of our valued neighbours and wider community.

Marulan Kite Festival

CONGRATULATIONS to the organising committee of the 2018 Marulan Kite Festival. What an amazing festival this year's event was.

Boral is proud to be a key sponsor of this event as well as working behind the scenes with the committee to make the festival happen.

This year's theme of Time Flies allowed us once again to make kites on the day even though the weather let us down a bit with very little wind.

We were also able to arrange once again Kite Man to make an appearance courtesy of one of Boral's partners Red Kite and with the help of a Boral employee, Sam Bray, volunteering his time to be in the suit.

We also wish to thank companies such as Fenner Dunlop, Coopers Earthmoving, Mine Main, Westrac and Komatsu who work closely with us at our sites and also supported the Kite Festival.

We look forward to being part of the 2019 Marulan on the Meridian Kite festival.

Employment Opportunities

Both our Marulan South Quarries are recruiting for operator roles.

Marulan South Limestone are currently advertising for a Production Operator, with Peppertree Quarry to seek Fixed Plant operators in the next month or so.

If you are interested head to the website careers.boral.com.au

Bike Safety Week

Safety is important to all Boral operations so we were proud to partner once again with Council and provide sponsorship and Hi Visibility vests for participants for the Goulburn Challenge Community Bike ride and to help promote the message about "Share the Road".

A New look!

If you see us around town, you may notice the new uniform!

Boral has spent a few months assessing new uniforms for fit, comfort and to meet safety requirements at all our operations before issuing our new uniforms in October.

At the same time, Peppertree Quarry has received a new Excavator, a Caterpillar 6015 to assist in the loading of the in pit crusher.

Like to know more? Call us on 02 4841 1701 (Quarry) or 02 4820 3003 (Limestone). Or visit www.boral.com.au/marulan.
For environmental matters (quarry), please call 4841 1701.