



Mt Arthur Coal Community Consultative Committee

Meeting Date: 11 February 2019

Information provided:

1 October to 31 December 2018

Environmental Management

No new improvement initiatives have been finalised during the reporting period.

Mine Services Team have commenced bulk shaping and topsoiling works on the VD5 area which is part of the FY19 rehabilitation target of 90Ha.

MAC has recently received approval for a new Air Quality Management Plan. Please note the following changes to the monitoring program:

- All three High Volume Air Samplers are in the process of being decommissioned as the real-time PM₁₀ data is best practice and the preferred monitoring technique. This is in line with other Hunter Valley operations.
- Four out of six depositional dust gauges are in the process of being decommissioned. DD08 and DD14 remain as the upwind and downwind monitoring locations for MAC. This is in line with other Hunter Valley operations.

Environmental Performance

Air Quality Monitoring (Period 1st October to 31st December 2018)

- This paper (for the reporting period of 1st October 2018 to 31st December 2018) covers the performance of all six statutory PM₁₀ monitoring sites using TEOMs, all three high volume air samplers and all six dust deposition gauges. Moving forward, this paper will be consistent with the monitoring program within the Air Quality Management Plan.
- Seven days (twenty occurrences) within the reporting period experienced elevated absolute PM₁₀ TEOM monitoring results. These events (Table 1 below) were investigated accordingly, finding the incremental MAC contribution not exceeding the criteria. The investigations were provided to the DP&E. Note that for the exceedances on the 22/11/18 and 23/11/18 (twelve occurrences), the DP&E considered these events to be regional dust events.
- One day (one occurrences) within the reporting period experienced elevated absolute PM₁₀ HVAS monitoring results. These events (Table 1 below) were investigated accordingly, finding the incremental MAC contribution not exceeding the criteria. The investigations were provided to the DP&E with no further action required. No graphs have been produced (Action 2) as the HVAS monitoring equipment will be decommissioned.
- No exceedances reported for depositional dust. Depositional Dust (DD) graphs for DD08 and DD14 have been included in this report (Action 2) and in line with the MAC Air Quality Management Plan.
- These events (Table 1 below) were investigated accordingly, finding the incremental MAC

contribution not exceeding the criteria. The investigations were provided to the DP&E.

Table 1 Air Quality Monitoring Performance Summary

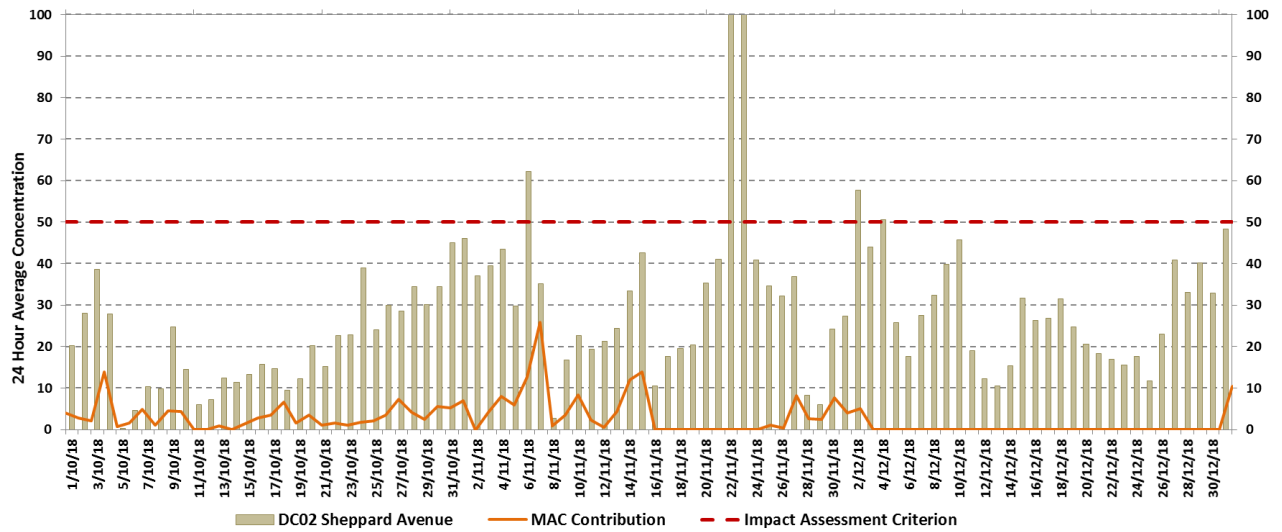
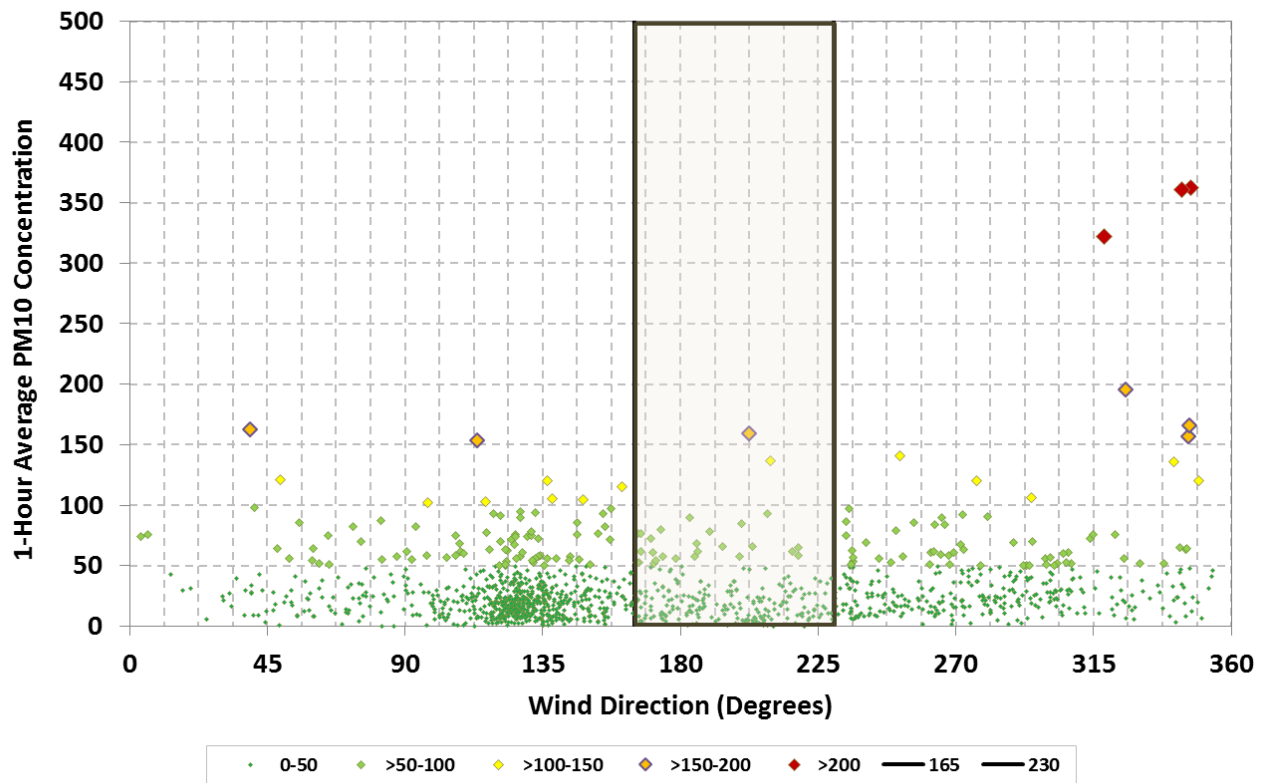
Note: These notifications are raised using pre-screened data.

Date	Monitoring Location
6/11/2018	DC02 – Sheppard Avenue
22/11/2018*	DC02 – Sheppard Avenue DC04 – South Muswellbrook DC05 – Roxburgh Road DC06 – Edderton Homestead DC07 - Antiene DC09 - Wellbrook
23/11/2018*	DC02 – Sheppard Avenue DC04 – South Muswellbrook DC05 – Roxburgh Road DC06 – Edderton Homestead DC07 - Antiene DC09 - Wellbrook
2/12/2018	DC02 – Sheppard Avenue DC04 – South Muswellbrook DC09 - Wellbrook
4/12/2018	DC02 – Sheppard Avenue
9/12/2018	DC09 - Wellbrook
15/11/2018	DF06 (HVAS)
27/12/2018	DC05 – Roxburgh Road DC09 - Wellbrook

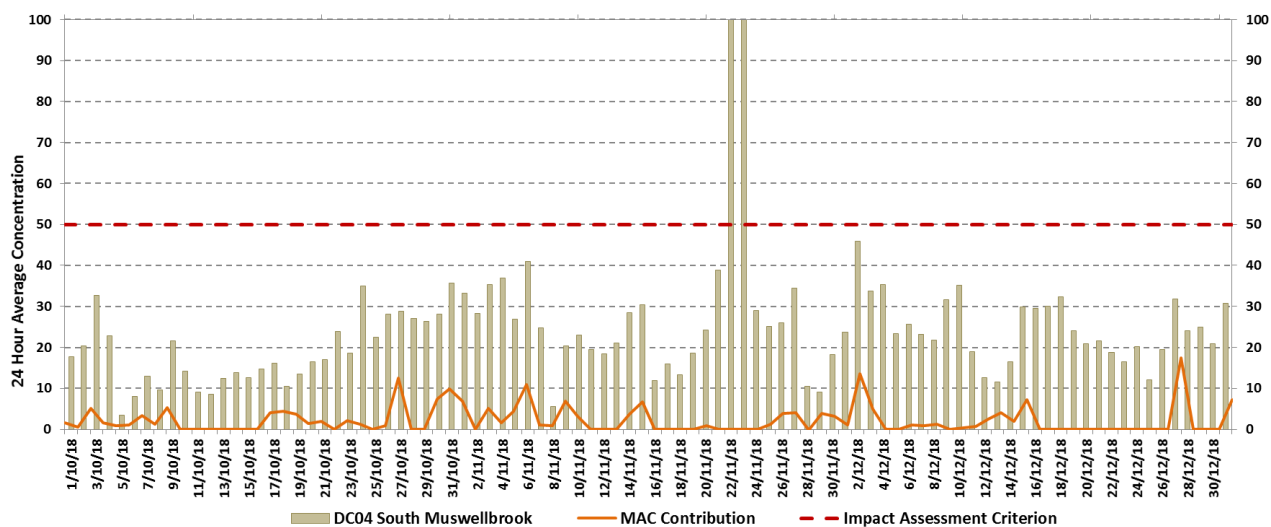
* The NSW DPE considers these to be an extraordinary event as defined in Schedule 3, Condition 20 footnote d of PA 09_0062.

Air Quality Monitoring (Period 1st October to 31st December 2018)

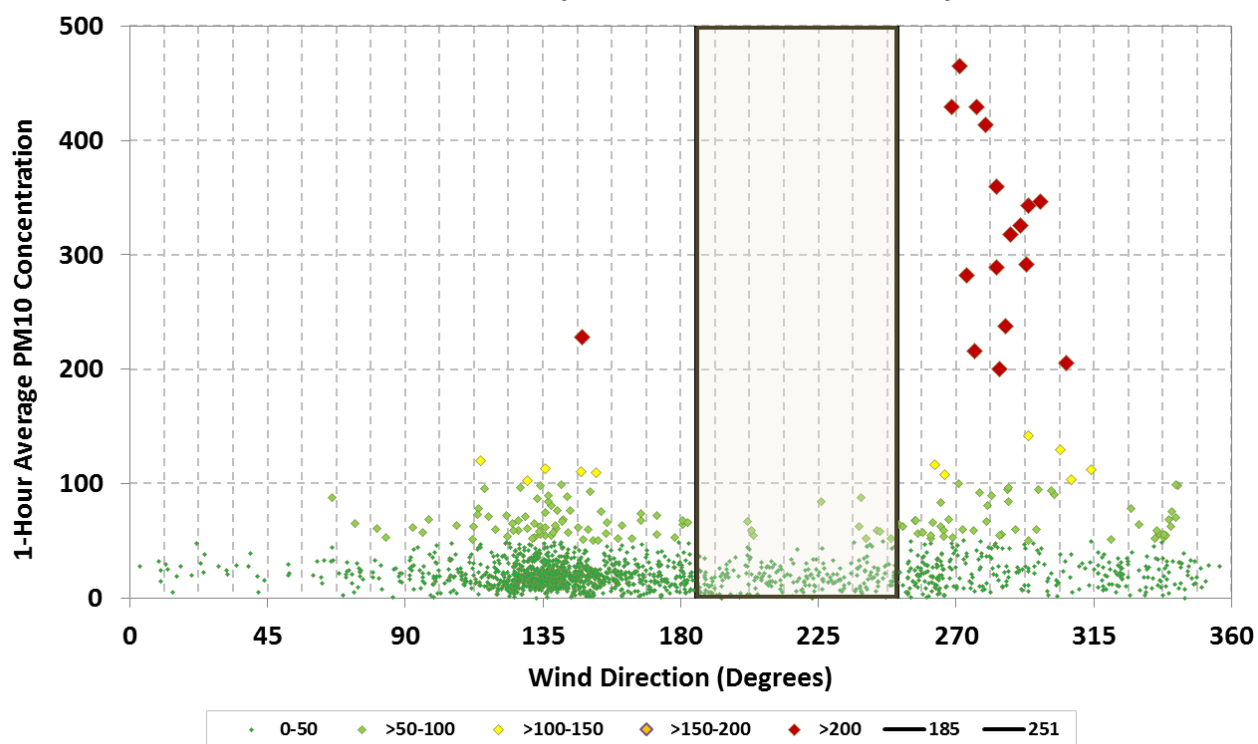
Note that these graphs have been developed using post-screening data at the end of the reporting period.

Sheppard Avenue – DC02**DC02 (1/10/2018 - 31/12/2018)**

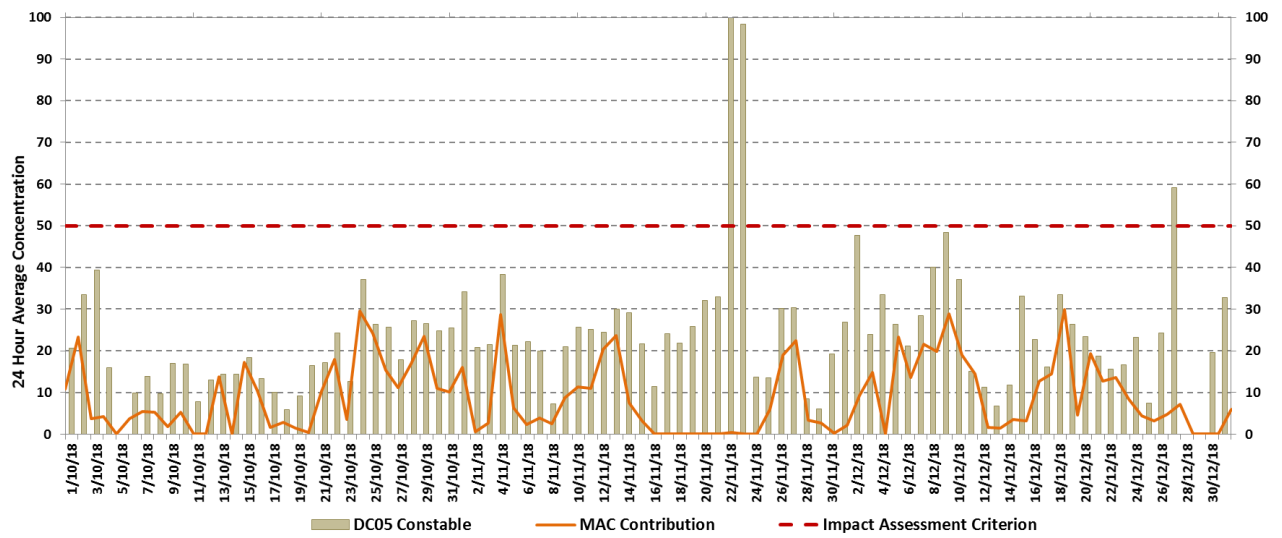
South Muswellbrook – DC04



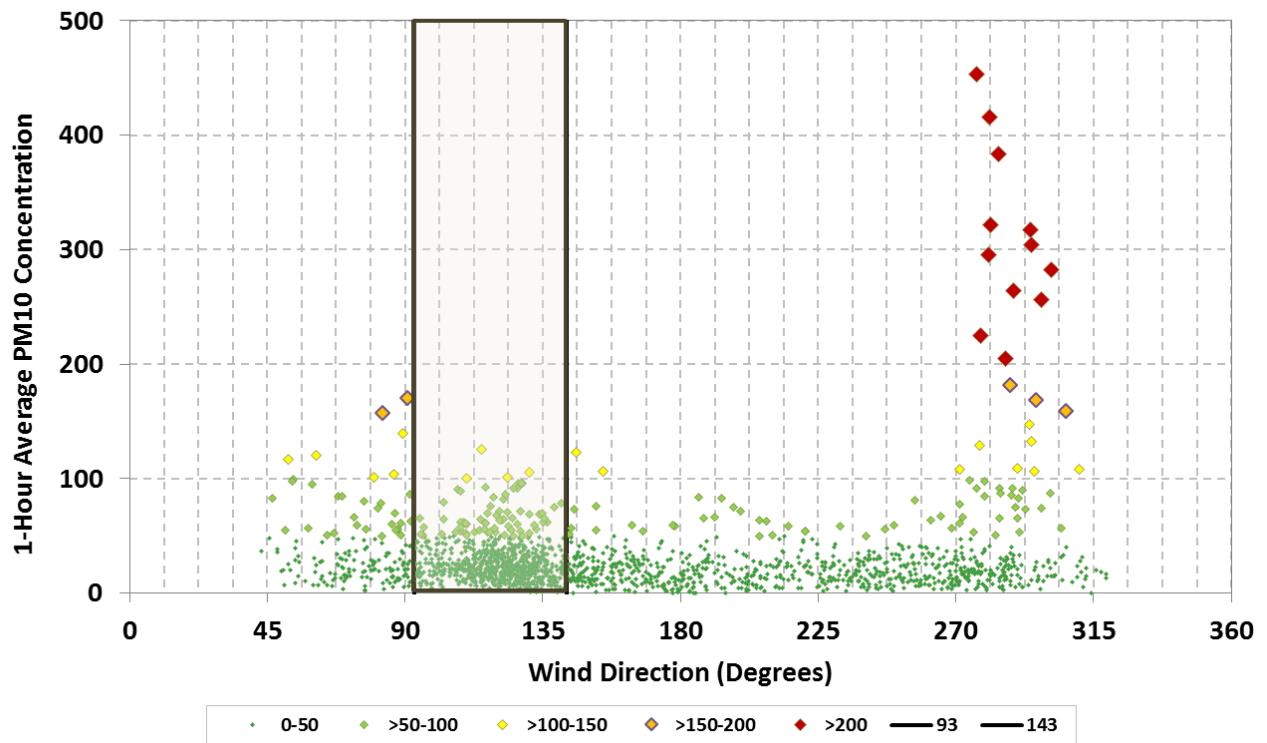
DC04 (1/10/2018 - 31/12/2018)



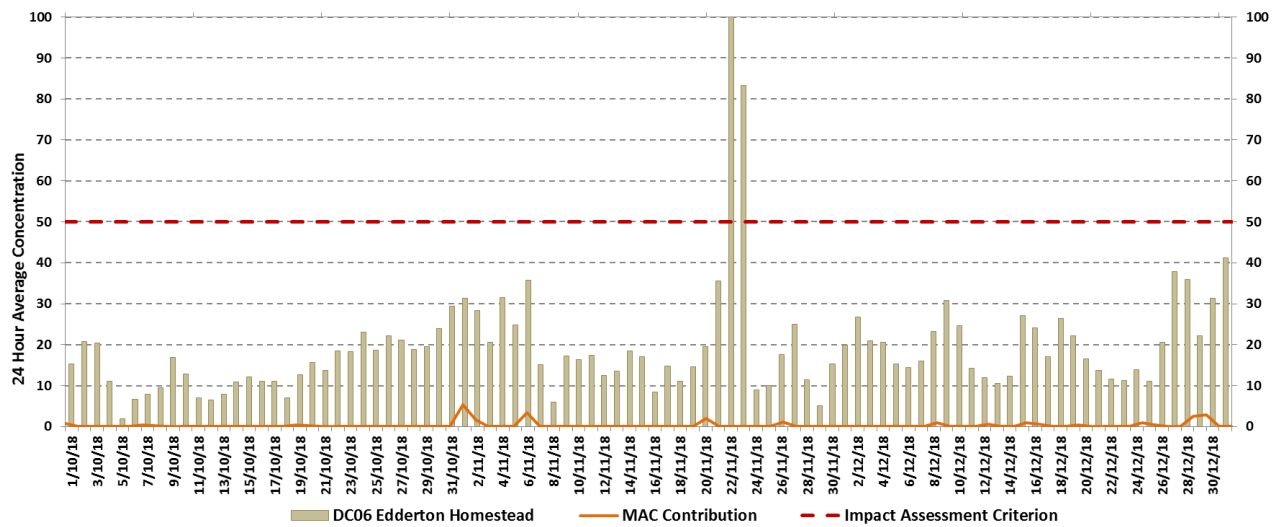
Roxburgh Road – DC05



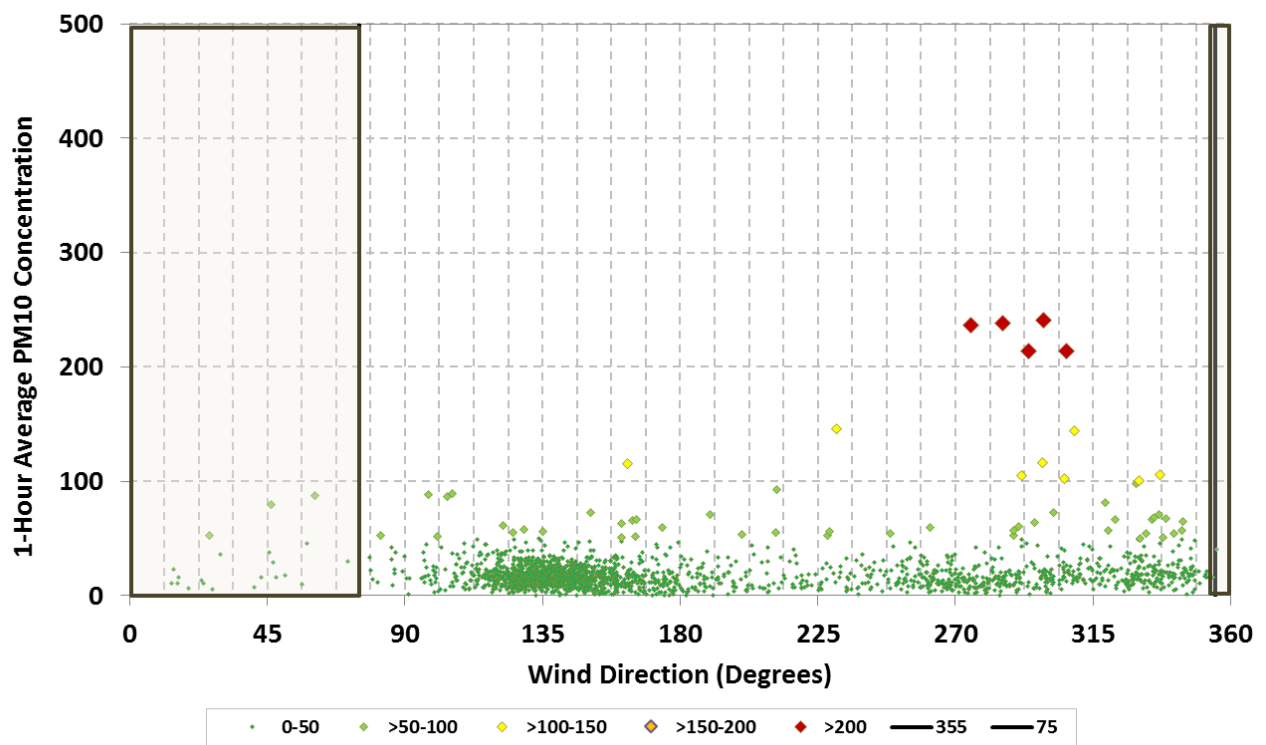
DC05 (1/10/2018 - 31/12/2018)



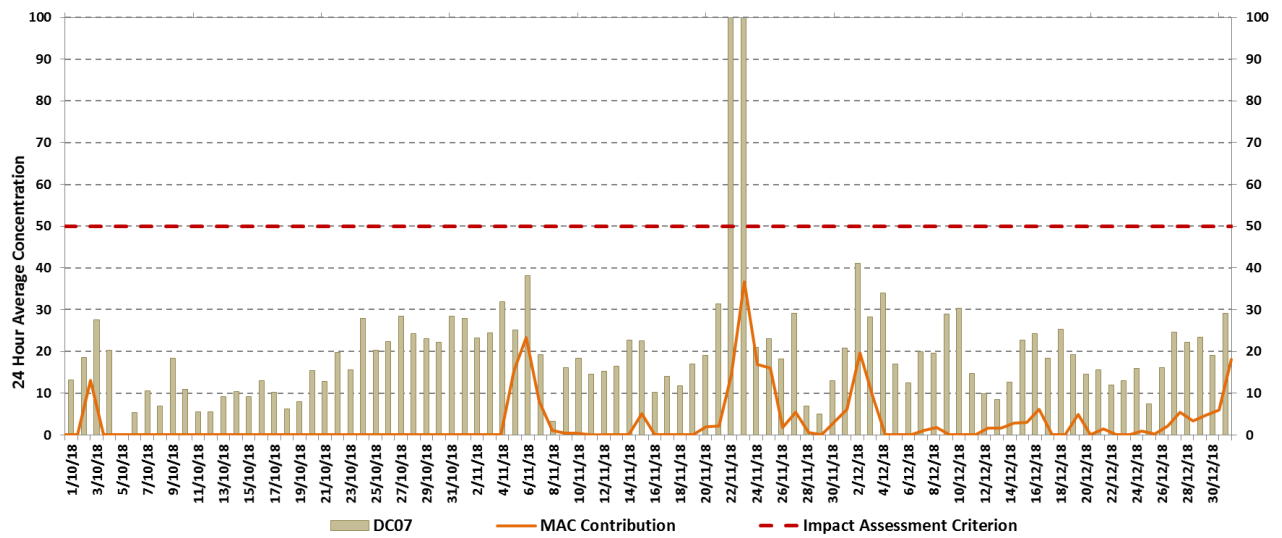
Edderton Homestead - DC06



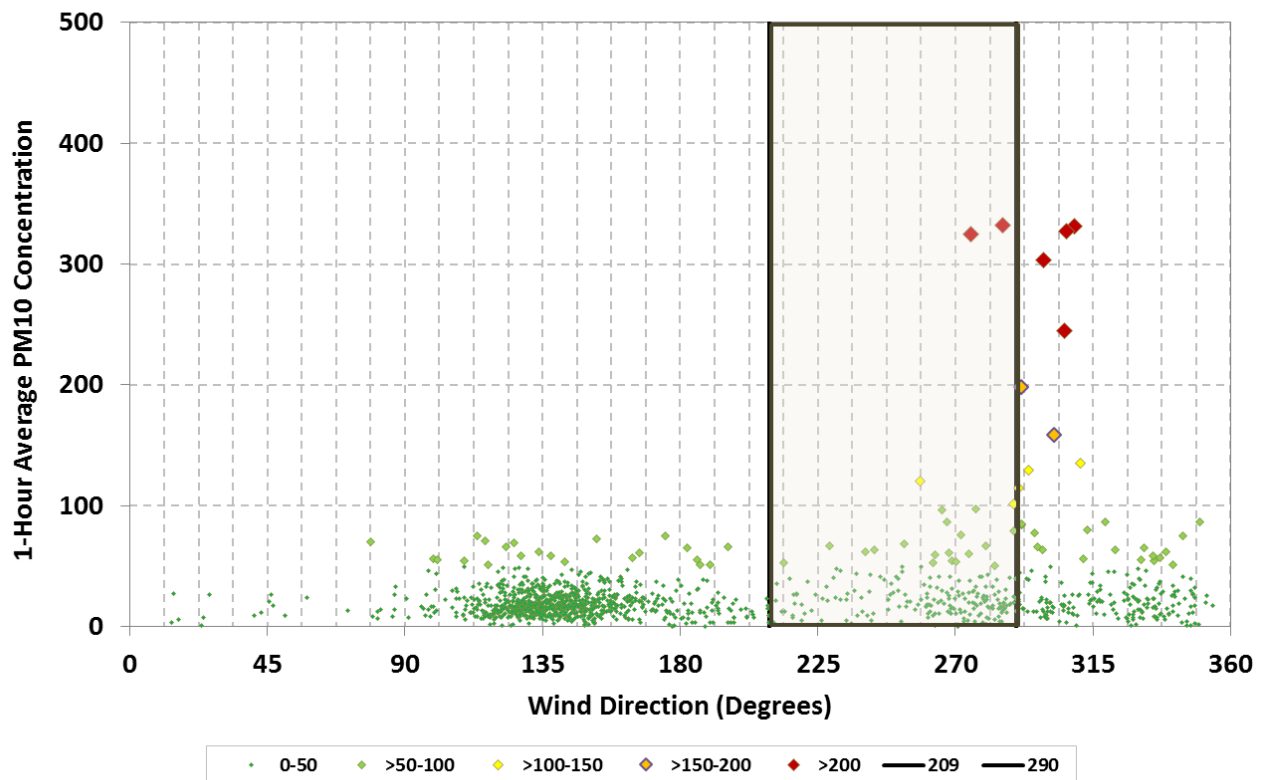
DC06 (1/10/2018 - 31/12/2018)



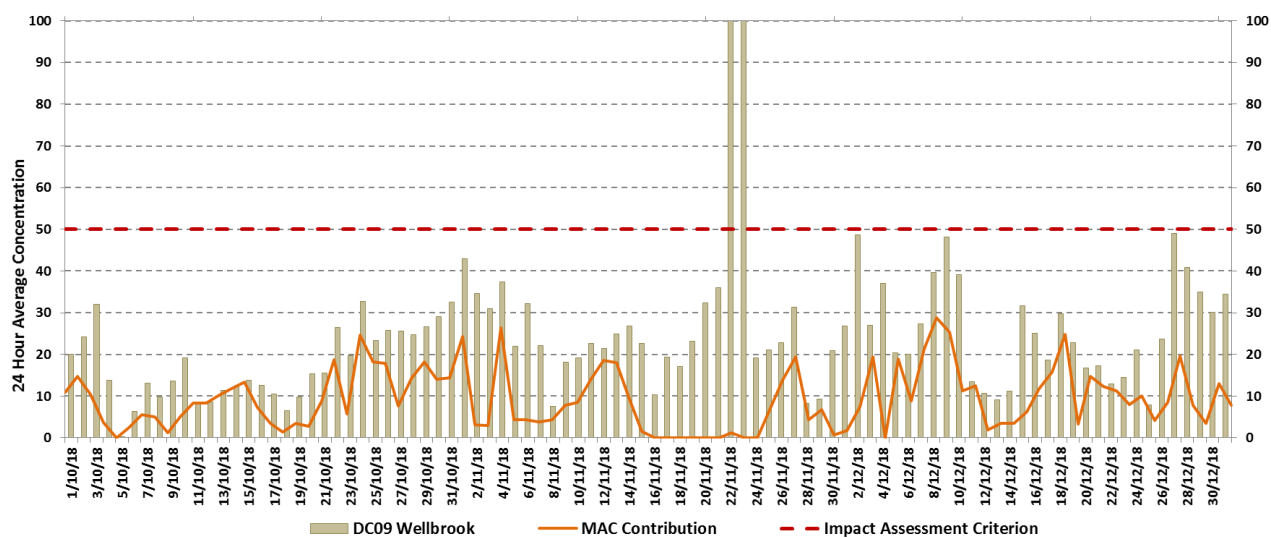
Antiene - DC07



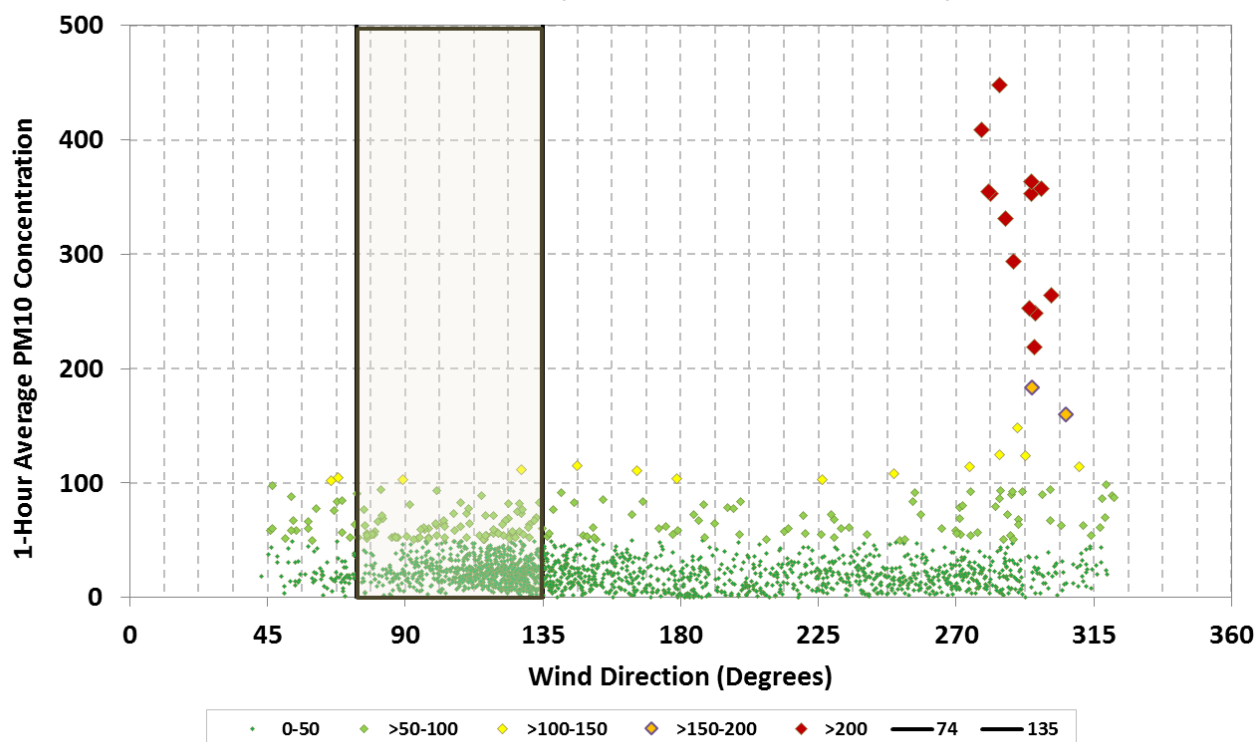
DC07 (1/10/2018 - 31/12/2018)

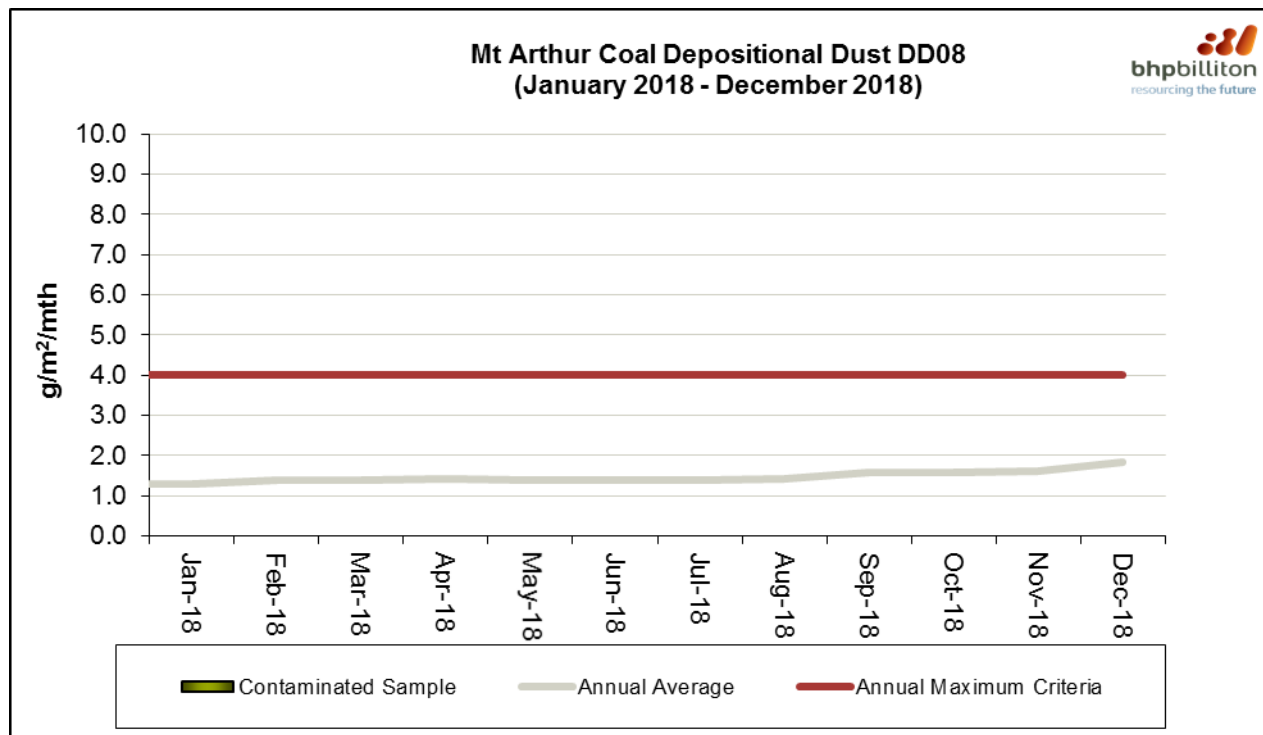
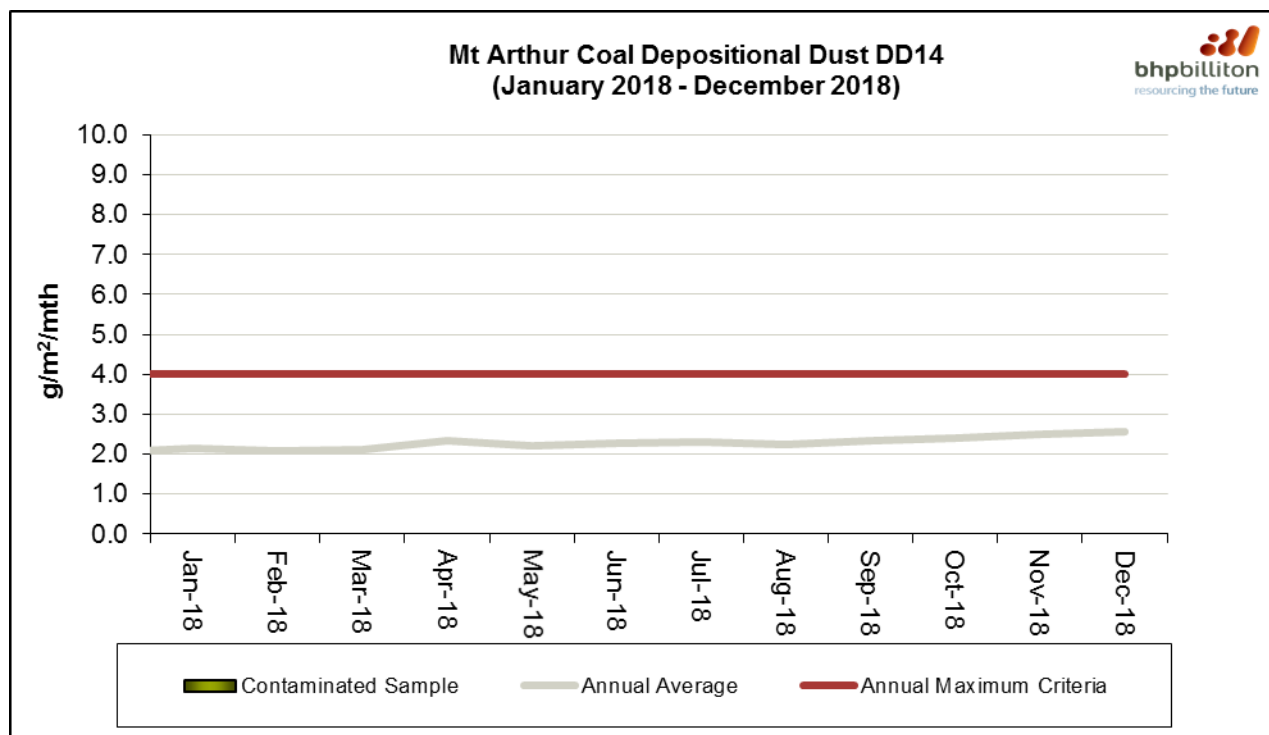


Wellbrook – DC09



DC09 (1/10/2018 - 31/12/2018)



Deposited Dust**DD08****DD14****Water Monitoring (Period 1st October to 31st December 2018):**

- Four occurrences within the reporting period whereby a single surface water sampling location exceeded the Electrical Conductivity (EC) trigger level. These events were investigated accordingly finding MAC operations not a contributing factor. The primary

reason was deemed due to very low flows occurring. The investigations were provided to the DP&E.

- *There were no occurrences within the reporting period where a groundwater sampling point exceeded trigger levels.*

Table 2 Water Monitoring Performance Summary

Date	Monitoring Location	Details
17/10/2018	SW12 - Surface Water	Exceedance of Electronic Conductivity (EC) Stage 1 trigger level requiring investigation. The primary reason was deemed due to very low flows occurring and not mining activities.
21/11/2018	SW12 - Surface Water	Exceedance of Electronic Conductivity (EC) Stage 2 trigger level requiring investigation. The primary reason was deemed due to very low flows occurring and not mining activities.
11/12/2018	SW12 & SW04 - Surface Water	Exceedance of Electronic Conductivity (EC) trigger levels requiring investigation. The primary reason was deemed due to very low flows occurring and not mining activities.

Blast Monitoring (Period 1st October to 31st December 2018)

- *One occurrence within the reporting period where a blast monitor recorded an overpressure exceedance due to a MAC blast on the 24/12/2019. This event was investigated accordingly and reported the Regulator.*

Table 3 Blast Monitoring Performance Summary

Date	Monitoring Location	Details
17/10/2018	BP09 – Denman Rd West	Exceedance of upper overpressure limit of 120dB. BP09 recorded 120.6dB. An investigation was carried out which found that one hole in particular was overloaded which resulted in a reduced stemming height and lack of confinement. Vibration results were within relevant limits. D&B team has been made aware of the importance of identifying overloaded hole.

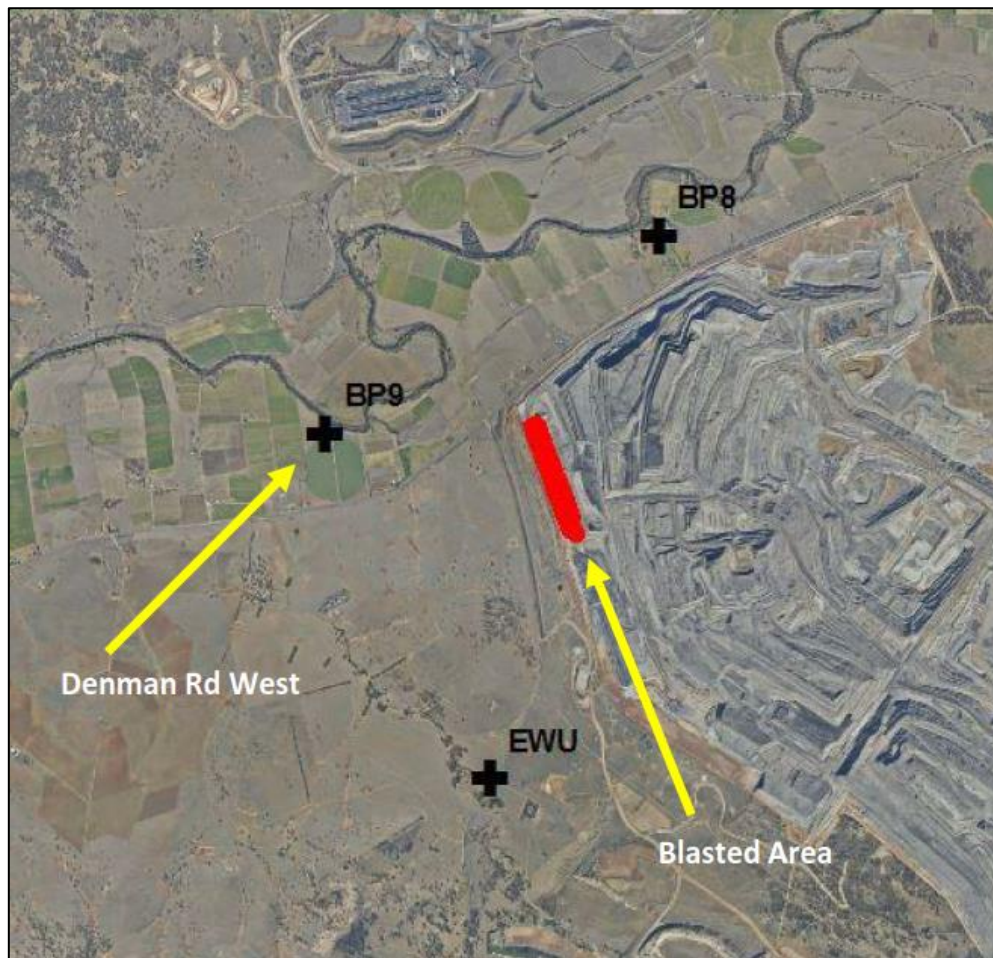


Figure 1 Location of Overpressure (OP) exceedance at BP09

Environmental Incidents

There were no environmental incidents during the period.

Environmental Reporting

MAC has completed, and therefore complied with, all annual reporting requirements under licence conditions. These are available to view on the BHP website using the following link:

<https://www.bhp.com/environment/regulatory-information#>

Community Complaints

October 2018

Date and time	From	Issue	Lodgement type	Investigation and response to caller
06/10/2018 17:45	Other	Spontaneous Combustion	Community Response Line	Investigation revealed spontaneous combustion activity at the time of the call. Mining operations were altered to reduce spontaneous combustion related activity. Caller was advised of investigation.
09/10/2018 20:22	Racecourse Road/Sheppard Avenue	General Dust	Community Response Line	Investigation revealed location of lights, which were redirected or turned off. Caller was advised of investigation results and action taken. Caller advised they were satisfied that the issue had been resolved.

26/10/2018 10:32	Racecourse Road/Sheppard Avenue	Blast Vibration	Community Response Line	Investigation revealed weather conditions were suitable for blasting at the time. Results indicated overpressure noise and ground vibration levels were within regulatory criteria. Caller did not request to be called back regarding investigation and monitoring.
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November 2018

Date and time	From	Issue	Lodgement type	Investigation and response to caller
02/11/2018 21:47	Racecourse Road/Sheppard Avenue	General Dust	Community Response Line	Investigation revealed mining operations had already ceased at the time. Results at the nearest monitor indicated dust levels were not elevated at the time, and the 24 hour average remained within regulatory criteria. Caller did not request to be called back regarding investigation and monitoring results.
02/11/2018 20:33	Other	Lighting	Community Response Line	Investigation revealed no offending lights. Caller did not request to be called back regarding investigation results.
02/11/2018 21:47	Racecourse Road/Sheppard Avenue	Lighting	Community Response Line	Investigation revealed location of lights, which were turned off or redirected. Caller did not request to be called back regarding investigation results.
07/11/2018 11:37	Racecourse Road/Sheppard Avenue	Blast Vibration	Community Response Line	Investigation revealed weather conditions were suitable for blasting at the time. Results indicated overpressure noise and ground vibration levels were within regulatory criteria. Caller was advised of investigation.
13/11/2018 20:59	Racecourse Road/Sheppard Avenue	Lighting	Community Response Line	Investigation revealed location of lights, which were redirected or turned off. Caller was advised of investigation results and action taken. Caller advised they were satisfied that the issue had been resolved.
22/11/2018 9:26	Roxburgh Road	General Dust	Community Response Line	Results at the nearest monitor indicated dust levels were not elevated at the time, and the 24 hour average remained within regulatory criteria. Caller did not request to be called back regarding investigation and monitoring results.
23/11/2018 21:06	Skellatar Stock Route	General Dust	Community Response Line	Investigation revealed mining operations were reduced at the time. Results at the nearest monitor indicated dust levels were elevated at the time. Unable to contact caller to advised of investigation and monitoring results.
23/11/2018 21:06	Skellatar Stock Route	Lighting	Community Response Line	Investigation revealed location of lights, which were redirected or turned off. Caller was advised of investigation results and action taken. Caller advised they were satisfied that the issue had been resolved
27/11/2018 21:33	Racecourse Road/Sheppard Avenue	Lighting	Community Response Line	Investigation revealed no issues with lights

December 2018

Date and time	From	Issue	Lodgement type	Investigation and response to caller
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4/12/2018 10:21	Other	Blast Vibration	Community Response Line	Investigation revealed weather conditions were suitable for blasting at the time. Results indicated overpressure noise and ground vibration levels were within regulatory criteria. Caller was advised of investigation and monitoring results.
9/12/2018 10:02	Roxburgh Road	Lighting	Community Response Line	Investigation revealed location of lights, which were redirected or turned off. Caller was advised of investigation results and action taken. Caller advised they were satisfied that the issue had been resolved
20/12/2018 20:17	Thomas Mitchell Drive	Other	Community Response Line	Caller thanked for information supplied.
23/12/2018 22:40	Roxburgh Road	Lighting	Community Response Line	Investigation revealed location of lights, which were redirected or turned off. Caller was advised of investigation results and action taken. Caller advised they were satisfied that the issue had been resolved
24/12/2018 11:04	Muswellbrook	Other	Community Response Line	As part of its blasting procedures, Mt Arthur Coal places reduced speed signs along a public road approximately one hour before the anticipated time of the blast event. These signs are put in place for the safety of both the general public and company personnel who are located along the roadway in preparation for a blast. Investigation revealed that speed limit signs were erected within the timeframe set out in Mt Arthur Coal's blasting procedures, which aim to ensure the safety of Mt Arthur Coal personnel and community members.
24/12/2018 14:16	Denman Road	Blast Vibration	Community Response Line	Investigation revealed weather conditions were suitable for blasting at the time. Results indicated overpressure noise and ground vibration levels were not within regulatory criteria. Caller was advised of investigation and monitoring results.
24/12/2018 14:23	Racecourse Road/Sheppard Avenue	Blast Vibration	Phone Call	Investigation revealed weather conditions were suitable for blasting at the time. Results indicated overpressure noise and ground vibration levels were not within regulatory criteria. Caller was advised of investigation and monitoring results.
24/11/2018 – 01/12/2018	Other	Train Noise	Other	Investigation revealed trains were not operating at the time. Results at the nearest real-time monitor indicated noise levels were within regulatory criteria. Caller was advised of investigation and monitoring results.