

Mt Arthur Coal Community Consultative Committee

Meeting Date: 13 May 2019

Information provided:

1 January to 31 March 2019

Environmental Management

Kangaroo Management

On April 8 MAC conducted the first kangaroo harvest in approximately 10 years. The Management Program involves harvesting kangaroo carcasses for human consumption and includes the opportunistic shooting of feral animals such as dogs and rabbits. To date MAC has removed 1573kg of kangaroo meat from site, with the program continuing on throughout the calendar year. Areas being focused on include the onsite offsets and VD1 Rehab, as Figure 1 below.



Figure 1 Example of Kangaroo Management Zone

FY19 Rehabilitation Update

Mine Services Team have mostly completed bulk shaping and topsoiling works on the VD5 area which is part of the FY19 rehabilitation target. The same has commenced in Saddlers.

The FY19 rehab target has been modified following discussions with the Resources Regulator. FY19 rehab target was initially for 90ha completed rehab (bulk shaped, topsoil spread and final ecological community seeded). A substantial part (>40ha) of the target is the Main Dam and North Cut Tailings Dam. This is a complicated piece of work and in the process of planning the work to be completed safely and to the highest standards the completion date has been pushed back until FY21. As a result additional area for rehab has been required. This has caused delays to the completion of rehab for FY19, with 40ha to be completed and an additional 50 ha to be bulk shaped.

As previously reported, MAC has received approval for a new Air Quality Management Plan. Key changes are as follows:

- All three high volume air samplers have been decommissioned as 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 deposited dust gauges have been decommissioned. DD08 and DD14 remain as the approximate upwind and downwind monitoring locations for MAC. This is in line with other Hunter Valley operations.

Environmental Performance

Air Quality Monitoring (Period 1 January to 31 March 2019)

- This paper (for the reporting period of 1 January 2019 to 31 March 2019) covers the performance of all six statutory PM₁₀ monitoring sites using TEOMs, and the two dust deposition gauges identified above.
- 16 days 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 impact assessment criteria contained within the Project Approval. The investigations were provided to the NSW Government Department of Planning and Environment (DP&E). Note that for the exceedances on the 19/2/19, and 5-6/03/19, the DP&E considered these events to be regional dust events.
- No exceedances reported for deposited dust. Deposited Dust (DD) graphs for DD08 and DD14 have been included in this report in line with the MAC Air Quality Management Plan.

Table 1 Air Quality Monitoring Performance Summary

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

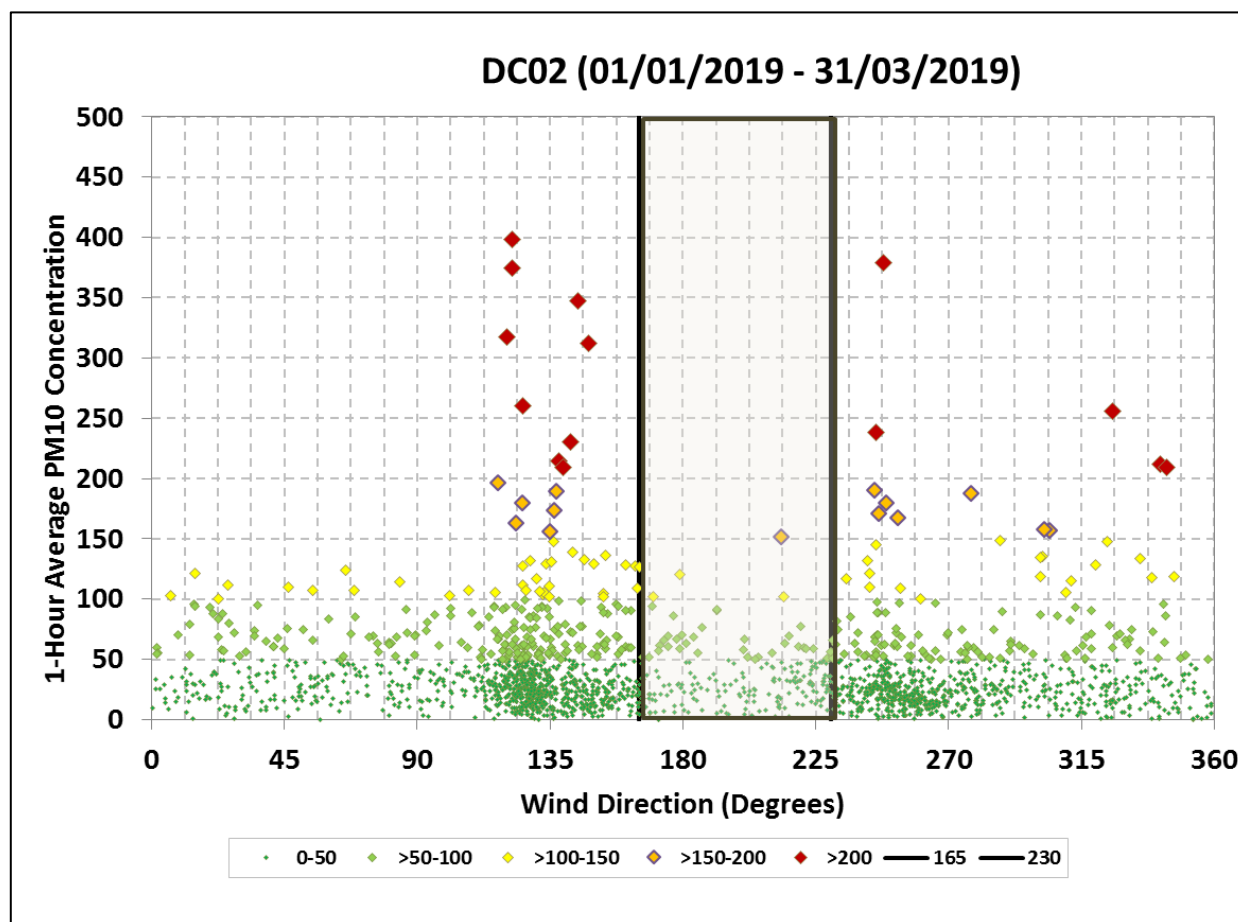
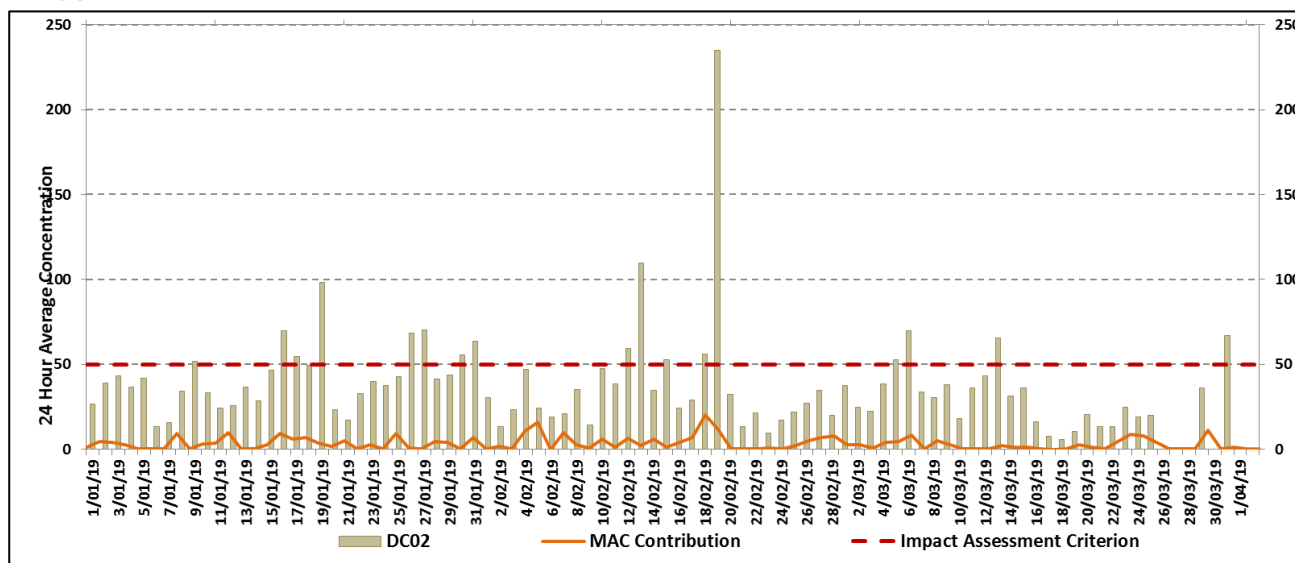
Date	Monitoring Location
3/01/2019	DC09 – Wellbrook
9/01/2019	DC02 – Racecourse Road; DC04 – South Muswellbrook
16/01/2019	DC02; DC04; DC07 – Antiene; DC09
17/01/2019	DC02; DC04; DC09
26/1/2019–27/1/2019	DC02

10/02/2019	DC04; DC05 – Roxburgh Road; DC07
12/02/2019	DC02
13/02/2019	DC02; DC04; DC05; DC06 – Edderton Road; DC07
15/02/2019	DC02
18/02/2019	DC02; DC04; DC09
*19/02/2019	DC02; DC04; DC07; DC09
*5/03/2019	DC02
*6/03/2019	DC02; DC04; DC05; DC06; DC09
13/03/2019	DC02
31/03/2019	DC02; DC04; DC05; DC07; DC09

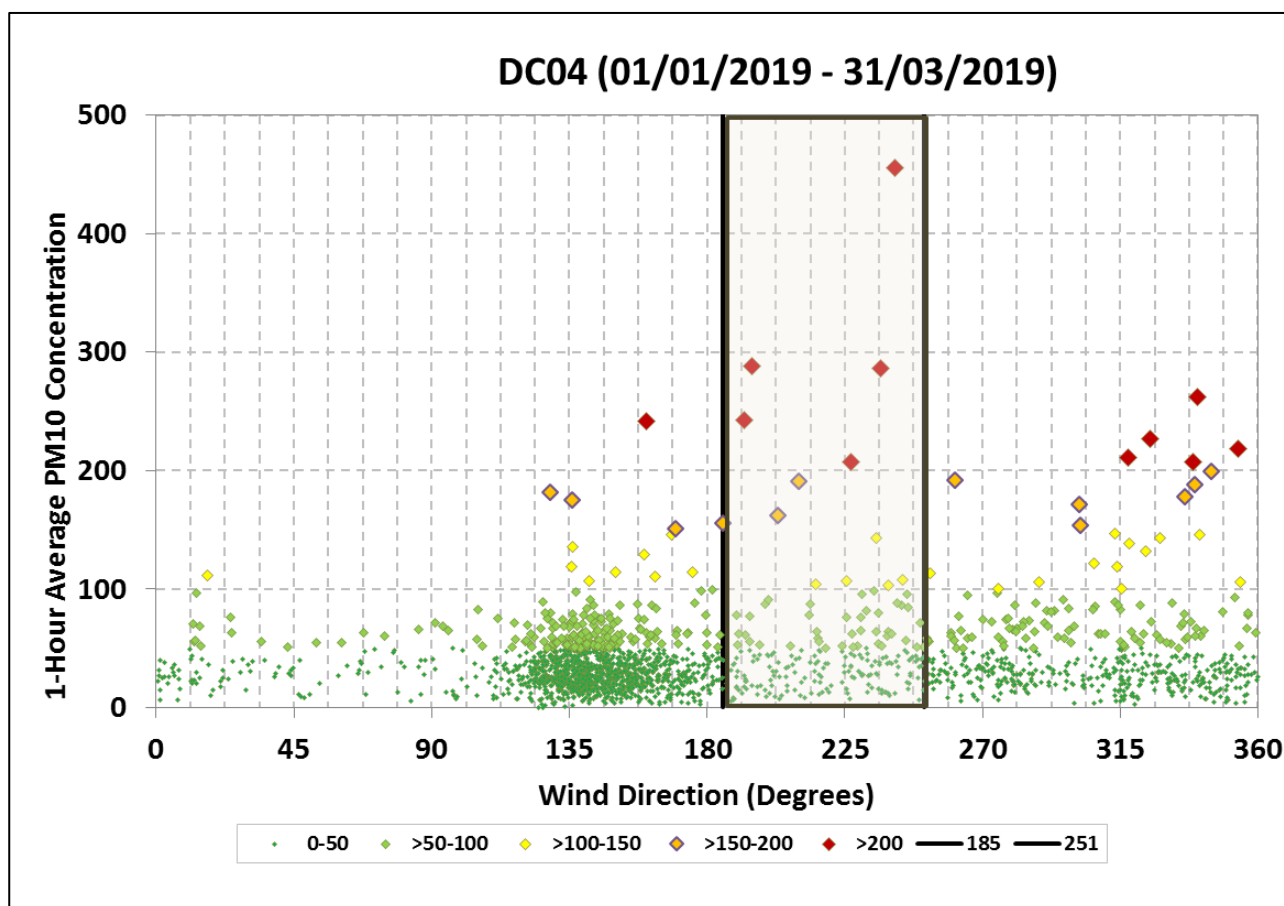
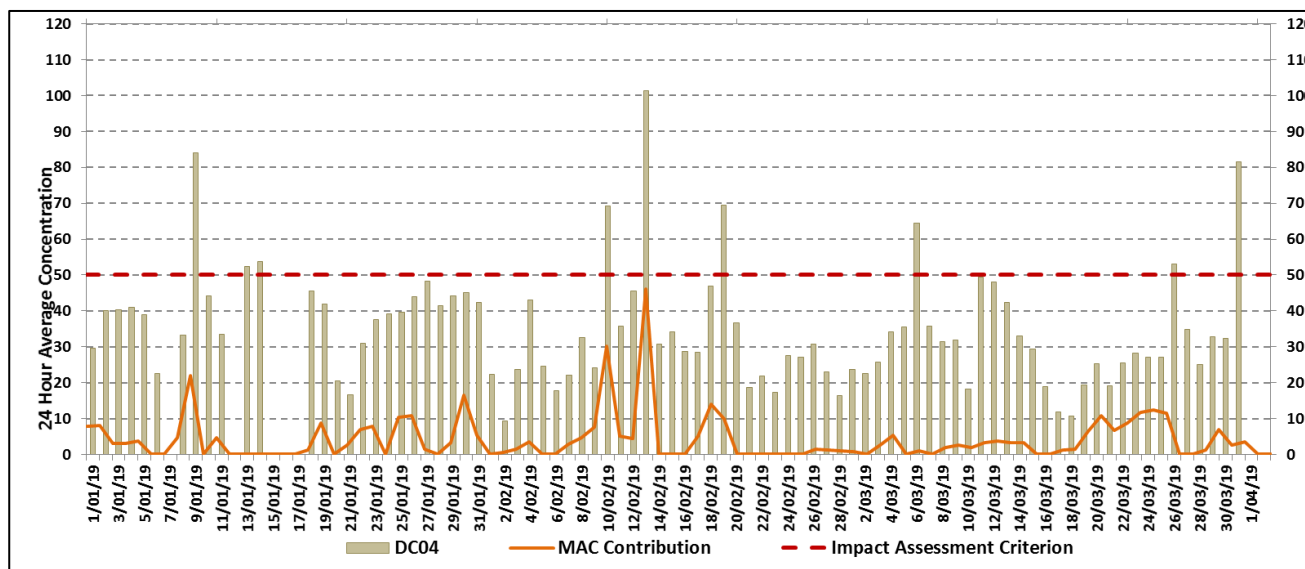
* The NSW DPE considers these to be an extraordinary event as defined in Schedule 3, Condition 20 footnote d of PA 09_0062.

Air Quality Monitoring (Period 1 January to 31 March 2019)

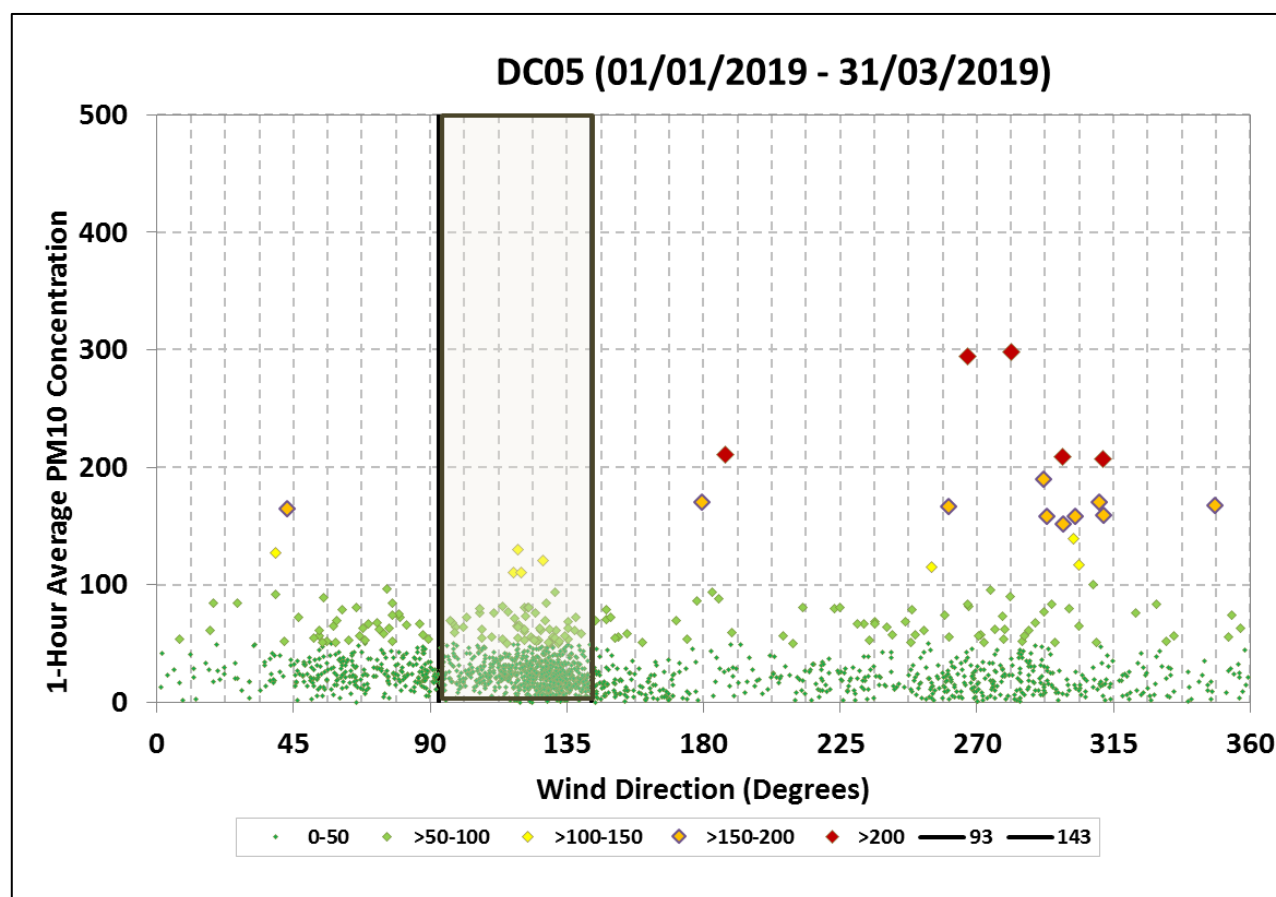
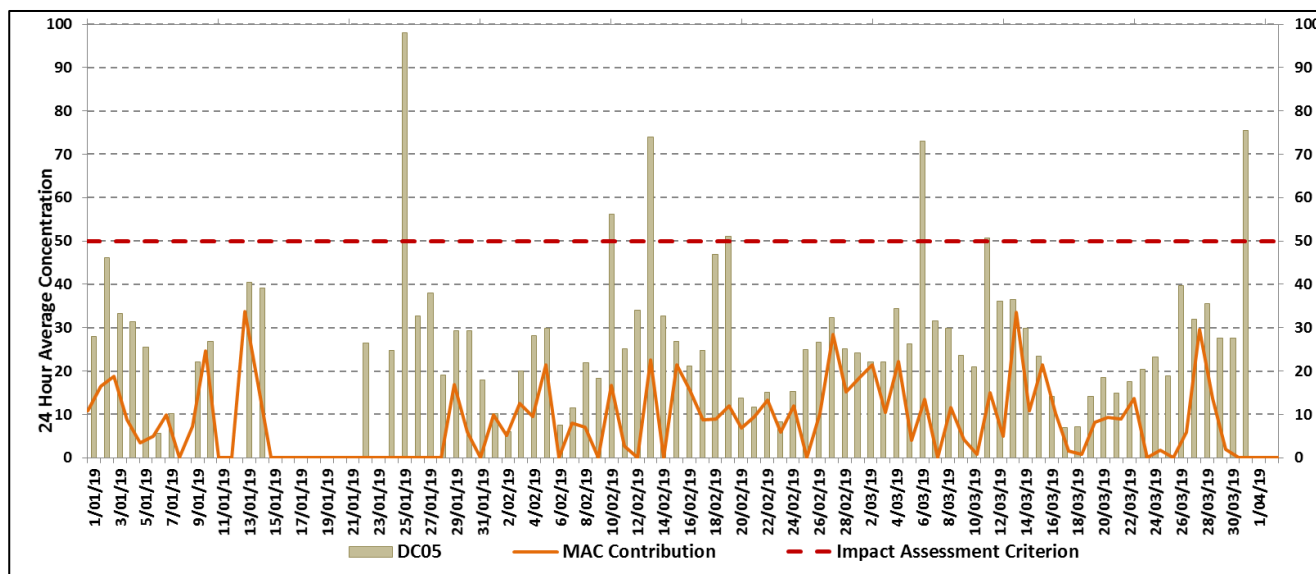
Note that these graphs have been developed using post-screening data at the end of the reporting period.

Sheppard Avenue – DC02

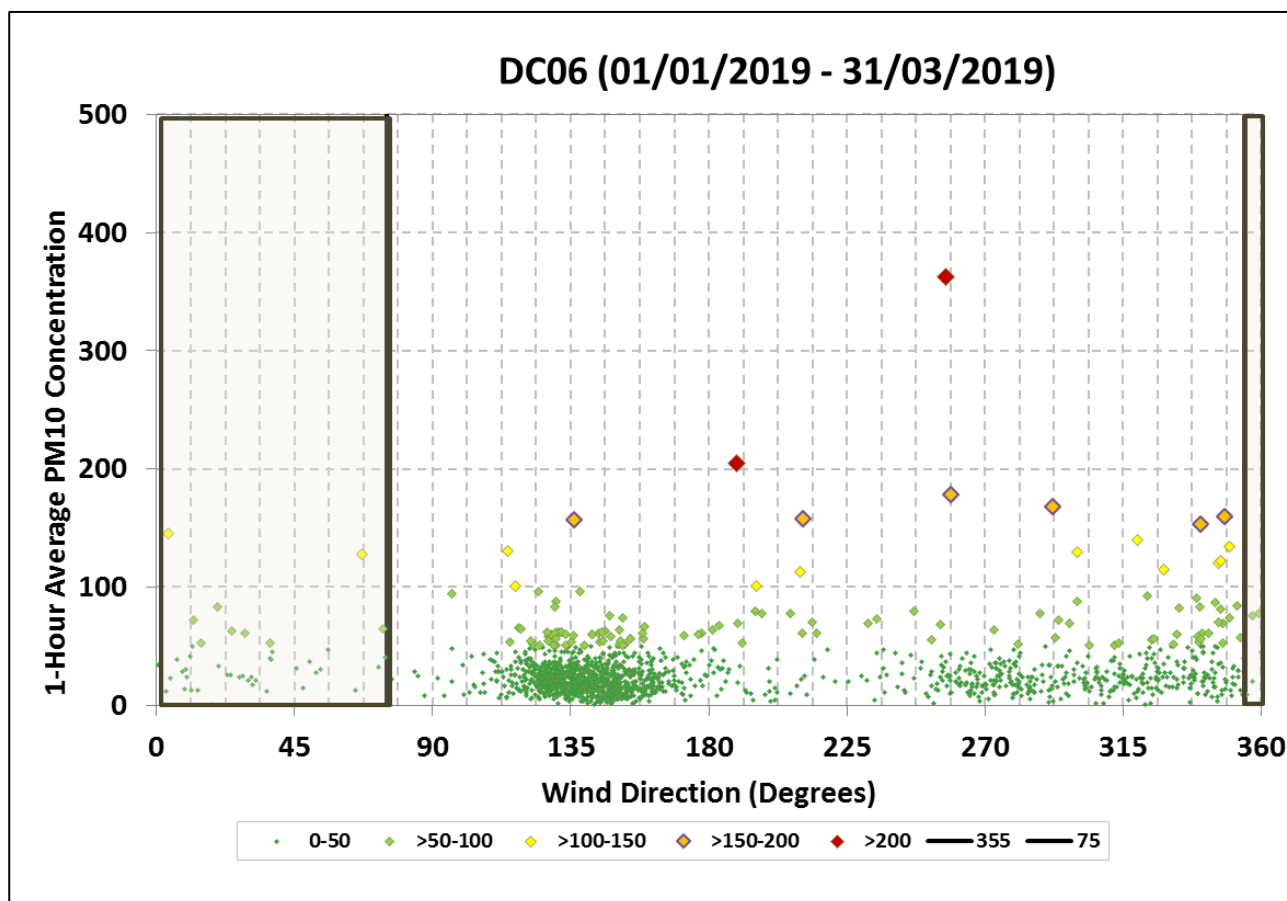
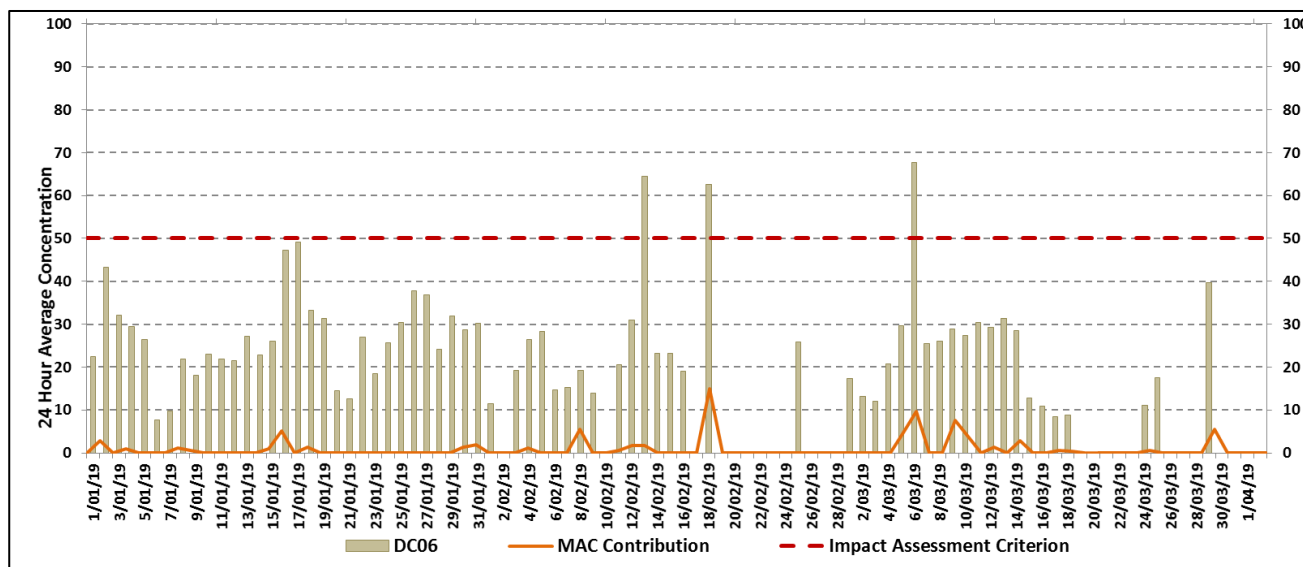
South Muswellbrook – DC04

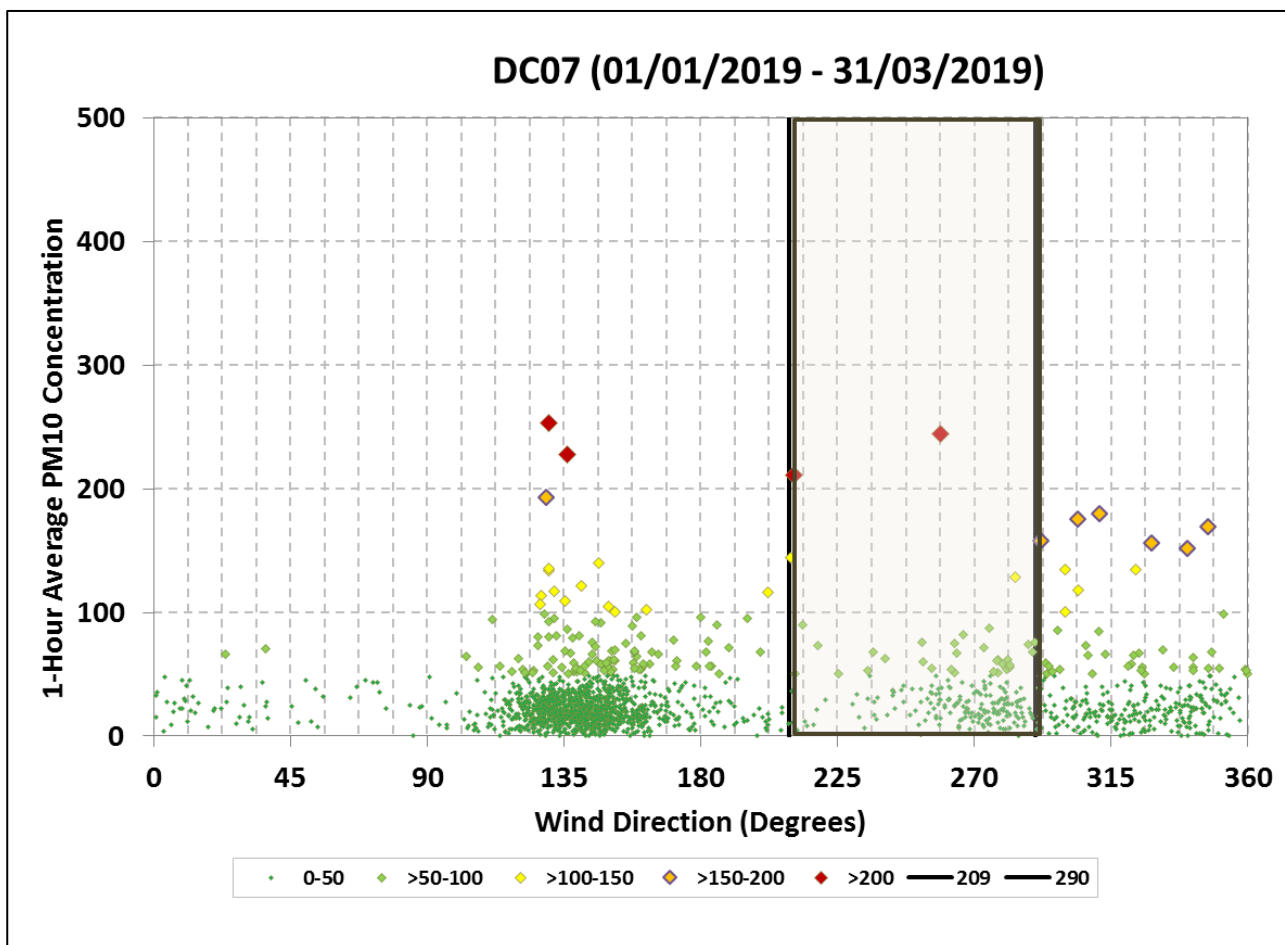
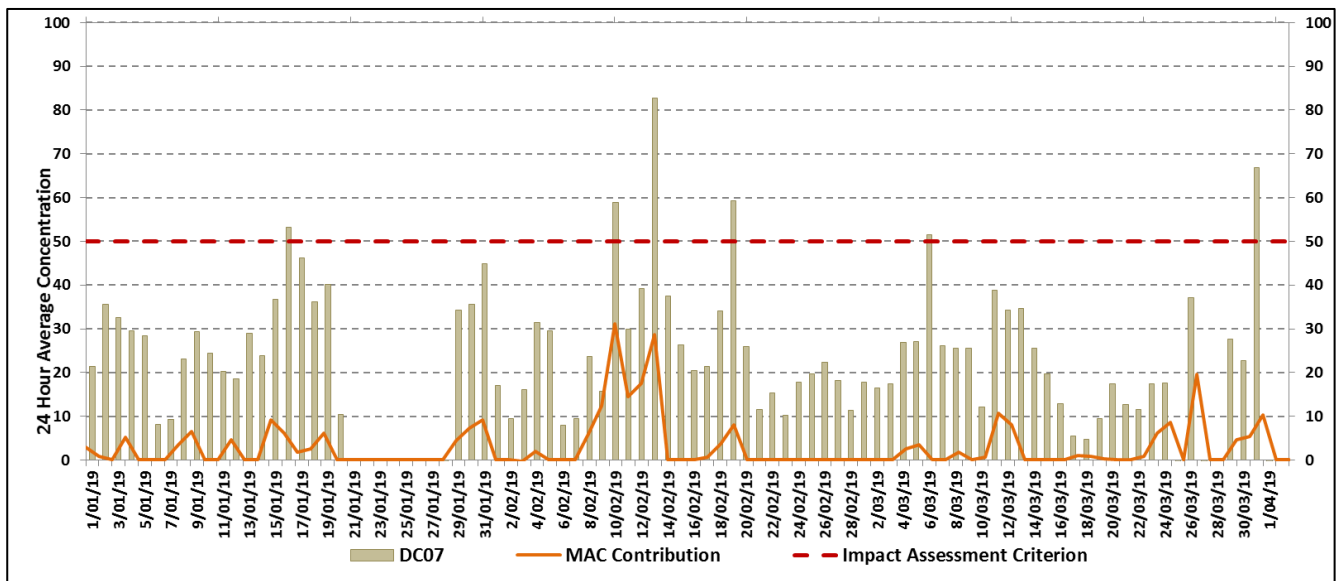


Roxburgh Road – DC05

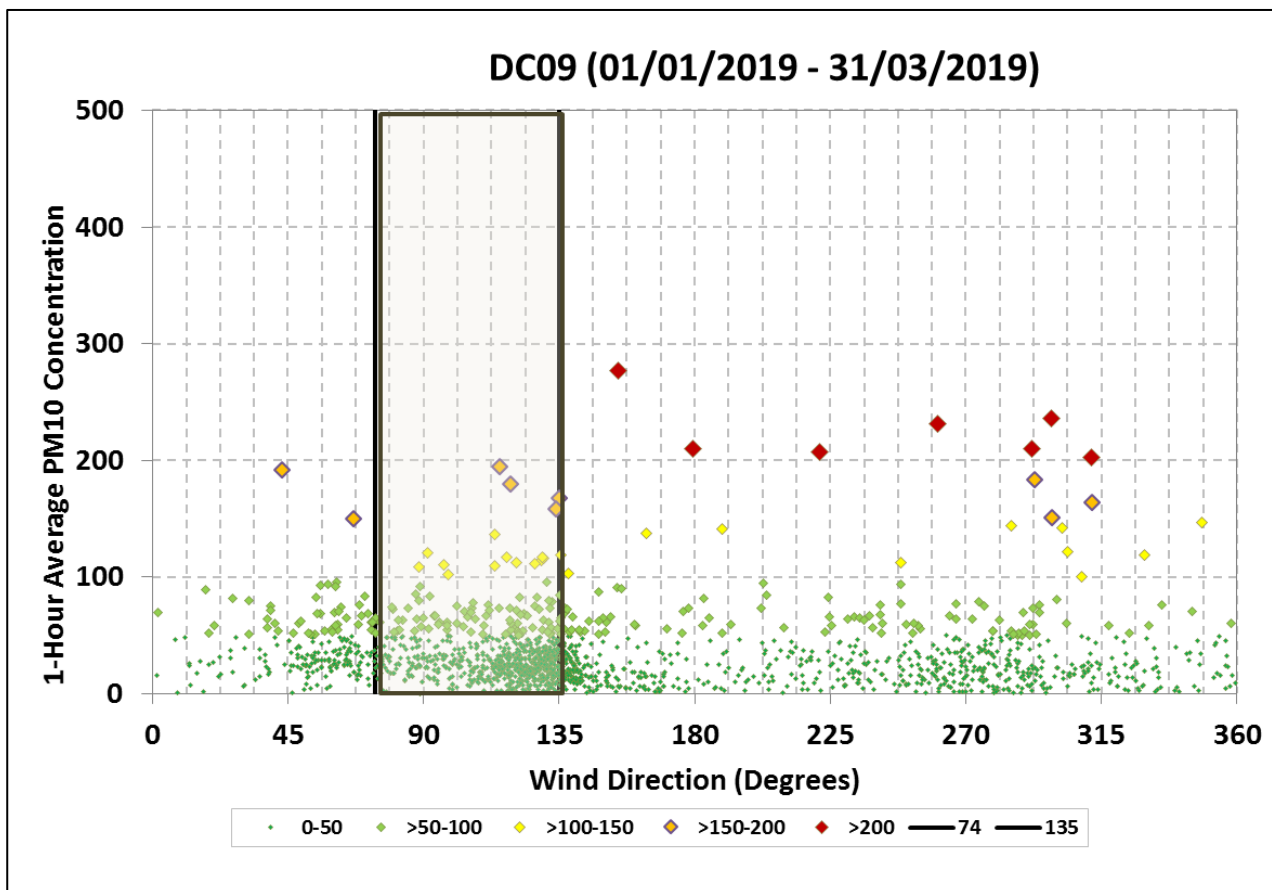
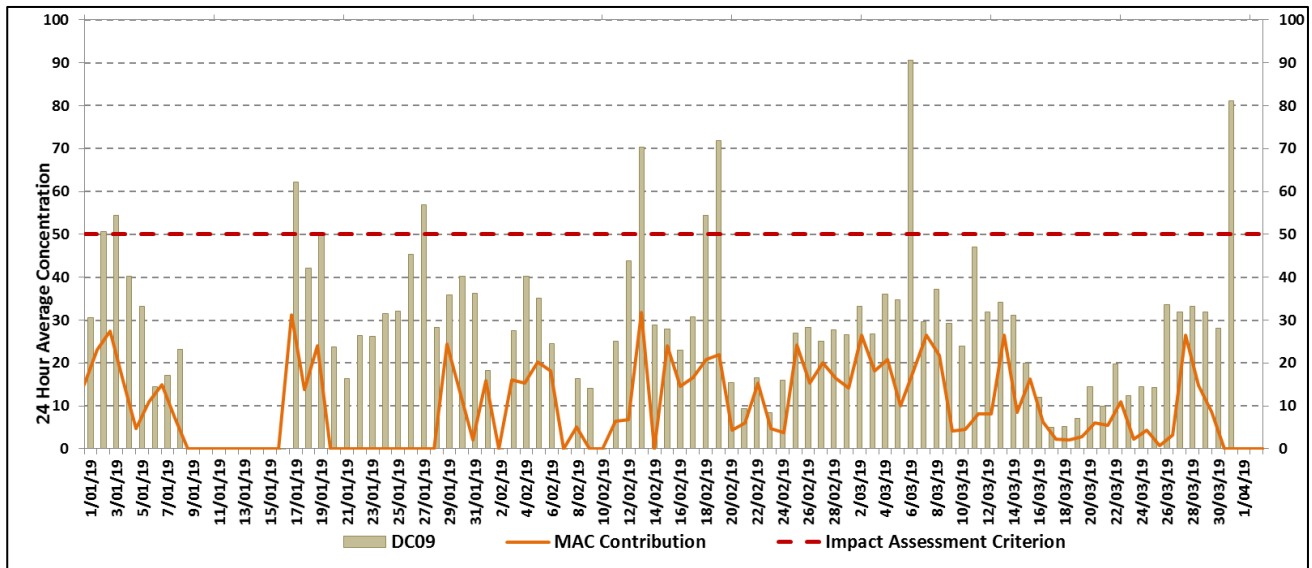


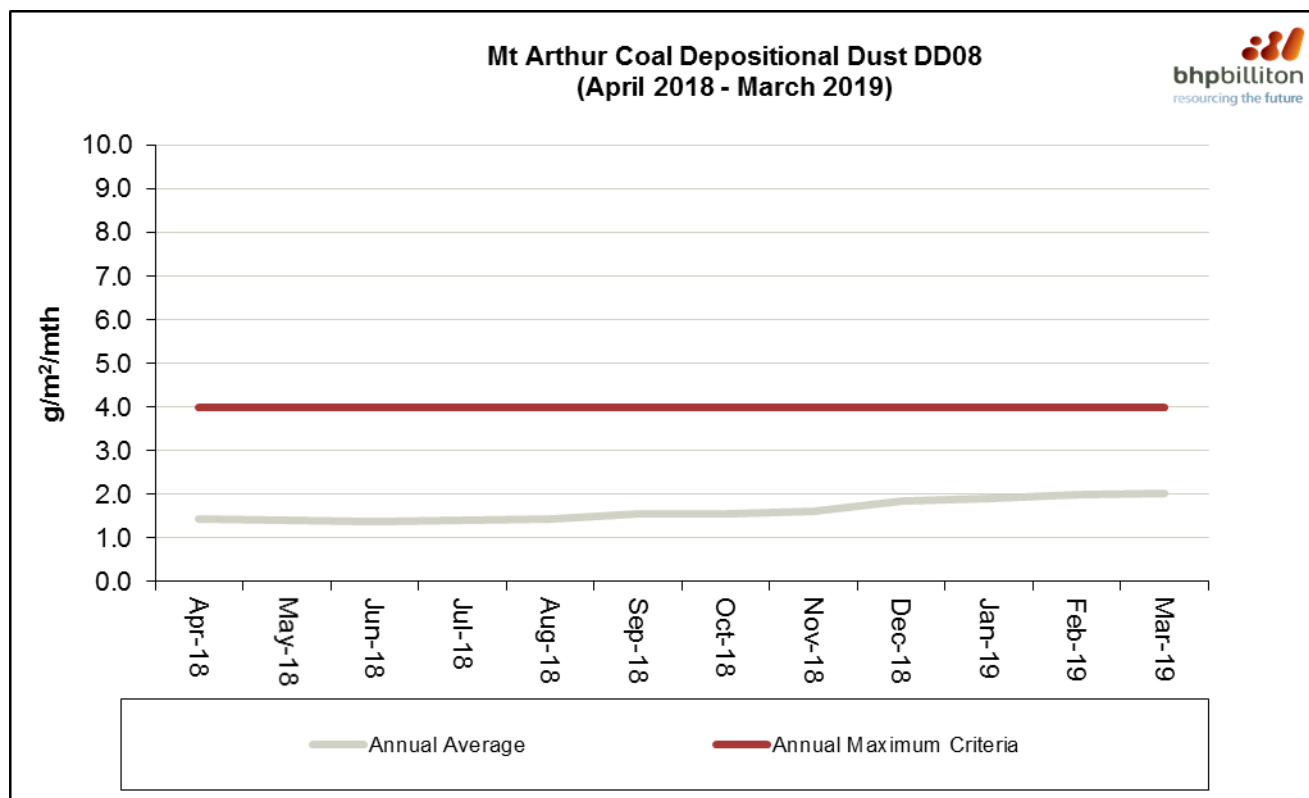
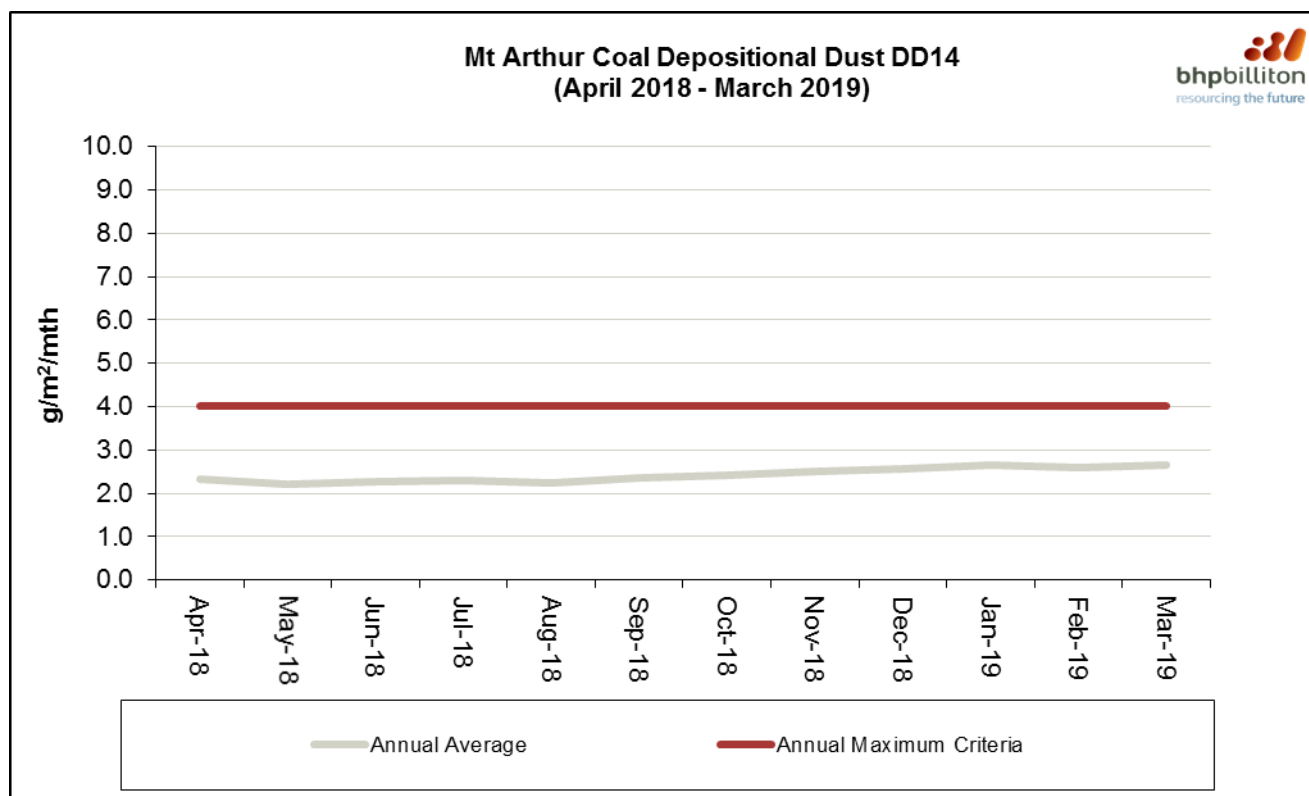
Edderton Homestead - DC06





Wellbrook – DC09



Deposited Dust**DD08****DD14**

Water Monitoring (Period 1 January to 31 March 2019):

- There was one occurrence within the reporting period whereby a single surface water sampling location exceeded the electrical conductivity (EC) trigger level. This event was 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
20/03/2019	SW12 - Surface Water	Exceedance of electrical conductivity (EC) Stage 1 trigger level requiring investigation. The primary reason was deemed due to very low flows occurring and not mining activities.

Blast Monitoring (Period 1 January to 31 March 2019)

- There were no exceedances of blasting criteria during the reporting period.

Table 3 Blast Monitoring Performance Summary

Date	Monitoring Location	Details
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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

January 2019

Date and time	From	Issue	Lodgement type	Investigation and response to caller
04/01/2019 10:50	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 within regulatory criteria.
05/01/2019 8:55	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
05/01/2019 8:55	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 was advised of investigation and monitoring results.
07/01/2019 9:19	Roxburgh Road	Operational Noise	Community Response Line	Investigation revealed no unusual mining operations were occurring 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.
08/01/2019 23:11	Roxburgh Road	Operational Noise	Community Response Line	Investigation revealed no unusual mining operations were occurring 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.
17/01/2019 19:06	Thomas Mitchell Drive	Other	Community Response Line	Caller thanked for information supplied.
17/01/2019 20:46	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
22/01/2019 20:57	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
23/01/2019 21:43	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
30/01/2019 5:13	Roxburgh Road	Operational Noise	Community Response Line	Investigation revealed no unusual mining operations were occurring 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

31/01/2019 23:10	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
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February 2019

Date and time	From	Issue	Lodgement type	Investigation and response to caller
03/02/2019 23:26	Roxburgh Road	Operational Noise	Community Response Line	Investigation revealed no unusual mining operations were occurring at the time. Results at the nearest real-time monitor were unavailable due to monitor being non-operational.
04/02/2019 17:46	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 was advised of investigation and monitoring results.
04/02/2019 17:49	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 was advised of investigation and monitoring results.
06/02/2019 4:48	Roxburgh Road	Operational Noise	Community Response Line	Investigation revealed no unusual mining operations were occurring at the time. Results at the nearest real-time monitor were unavailable due to monitor being non-operational. Investigation revealed weather conditions were suitable for blasting at the time. Results indicated overpressure noise and ground vibration levels were within regulatory criteria.
08/02/2019 11:33	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 within regulatory criteria.
08/02/2019 12:00	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 within regulatory criteria.
11/02/2019 22:28	Roxburgh Road	Operational Noise	Community Response Line	Investigation revealed no unusual mining operations were occurring at the time. Results at the nearest real-time monitor were unavailable due to monitor being non-operational.
15/02/2019 12:58	Muswellbrook	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 was advised of investigation and monitoring results.
20/02/2019 11:45	Roxburgh Road	Operational Noise	Community Response Line	Investigation revealed no unusual mining operations were occurring at the time. Results at the nearest real-time monitor indicated noise levels were within regulatory criteria.

21/02/2019 10:56	Muswellbrook	Blast Dust	Community Response Line	Investigation revealed weather conditions were suitable for blasting 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 was advised of investigation and monitoring results.
28/02/2019 1:05	Roxburgh Road	Operational Noise	Community Response Line	Investigation revealed no unusual mining operations were occurring at the time. Results at the nearest real-time monitor indicated noise levels were within internal benchmarks.

March 2019

Date and time	From	Issue	Lodgement type	Investigation and response to caller
05/03/2019 9:45	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 and monitoring results.
08/03/2019 20:27	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
12/03/2019 12:45	Roxburgh Road	Low Frequency Noise	Community Response Line	Investigation revealed no unusual mining operations were occurring at the time. Results at the nearest real-time monitor indicated noise levels were within regulatory criteria.
19/03/2019 10:48	Muswellbrook	Other	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.
20/03/2019 12:46	Roxburgh Road	Low Frequency Noise	Community Response Line	Investigation revealed no unusual mining operations were occurring at the time. Results at the nearest real-time monitor indicated noise levels were within regulatory criteria.
23/03/2019 23:56	Roxburgh Road	Low Frequency Noise	Community Response Line	Investigation revealed no unusual mining operations were occurring at the time. Results at the nearest real-time monitor indicated noise levels were within regulatory criteria.
24/03/2019 12:03	Roxburgh Road	Low Frequency Noise	Community Response Line	Investigation revealed no unusual mining operations were occurring at the time. Results at the nearest real-time monitor indicated noise levels were within regulatory criteria.