

Mt Arthur Coal Community Consultative Committee

Planned meeting date: 20
November 2024

Information provided: 1 Jul 2024
to 30 Sep 2024

Environmental Management

FY25 Rehabilitation Update



Figure 1 Rehabilitation works underway at Saddlers North at the southern end of the mine.

Mt Arthurs FY25 rehab target is 145ha. Mt Arthur is currently shaping in Saddlers North at the southern end of the mine wit other rehabilitation planned for the Out of Pit Dump area.

Land Management

Weed treatment continues to focus maintenance of FY24 rehabilitation areas with spot weed treatment. Mt Arthur has completed the dog baiting program in line with the LLS spring program.

Environmental Performance

Air Quality Monitoring (1 Jul 2024 to 30 Sep 2024)

- This paper covers the performance of all six statutory PM10 monitoring sites using TEOMs, and the two dust deposition gauges.
- During the reporting period, the absolute impact assessment criteria was exceeded one time at statutory TEOM monitoring sites over a single day. However, MAC contribution PM10 levels remained below limit. Further information provided on the Section Environmental Incidents.
- All exceedances recorded were notified to the Department of Planning, Housing and Infrastructure (NSW Planning) (previous Department of Planning and Environment) as per Project Approval. NSW Planning has closed out all those events, requiring no further actions.
 - 26 September at Sheppard Avenue DC02
- Table 1 below provides an equipment performance summary. Over 95% of dust data captured from all six statutory PM10 monitoring sites during the reporting period. Uptime percentages have continued to improve on the back of several improvement initiatives including the purchase of new TEOMs, UPS battery units & communication loggers.

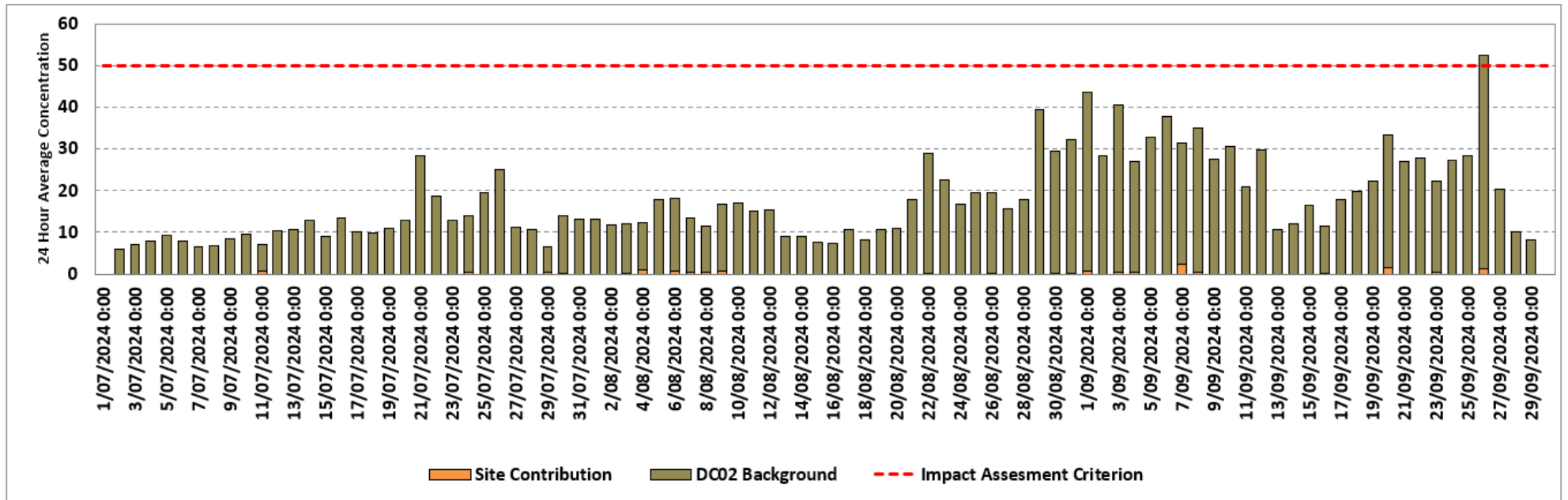
Table 1. Equipment Performance Summary

Site	Date/s	Reason
DC02	30/09/2024	During the period listed <75% data captured due to power or equipment connectivity issues.
DC05	23/08/2024, 24/08/2024, 07/09/2024,	During the period listed <75% data captured due to power or equipment connectivity issues.

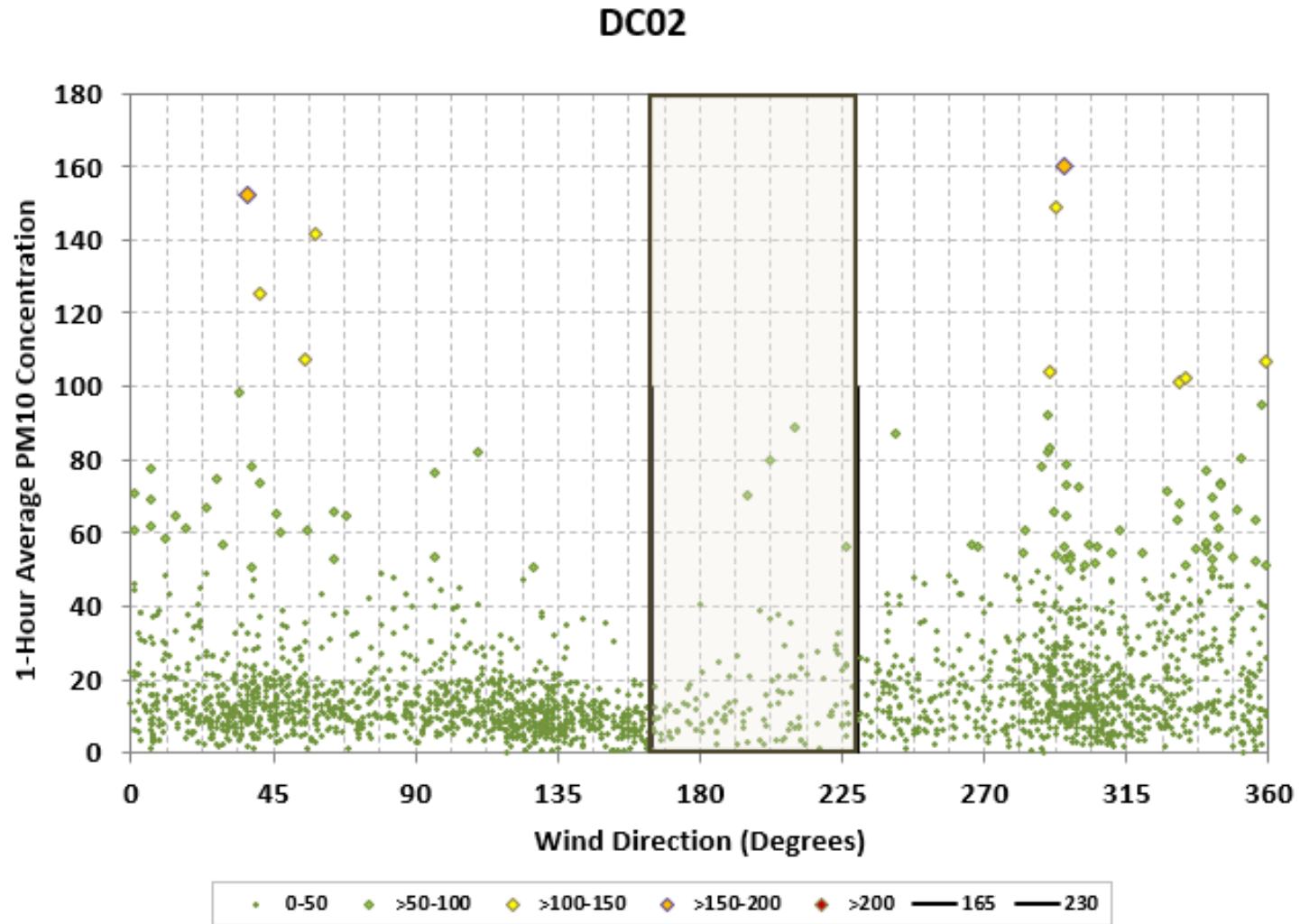
- A guide has been provided at the end of this section to assist in the interpretation of the results and figures. The figures within this section have been developed in line with consultation with members of the CCC.

Sheppard Avenue – DC02

Data capture – 98.91%

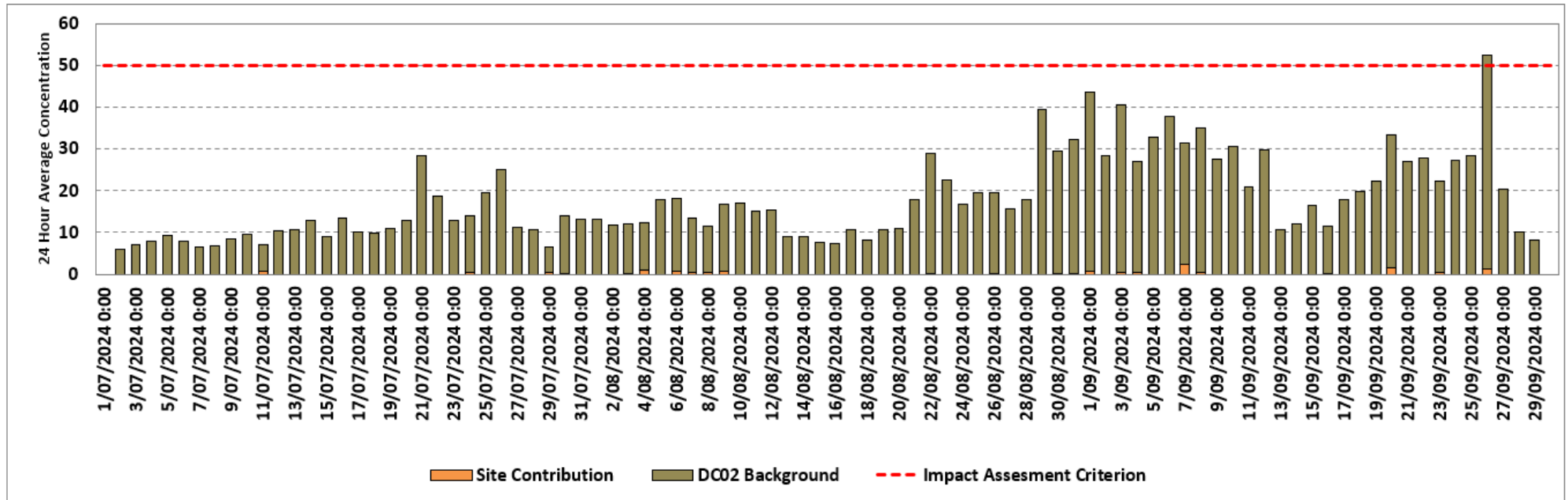


Sheppard Avenue – DC02



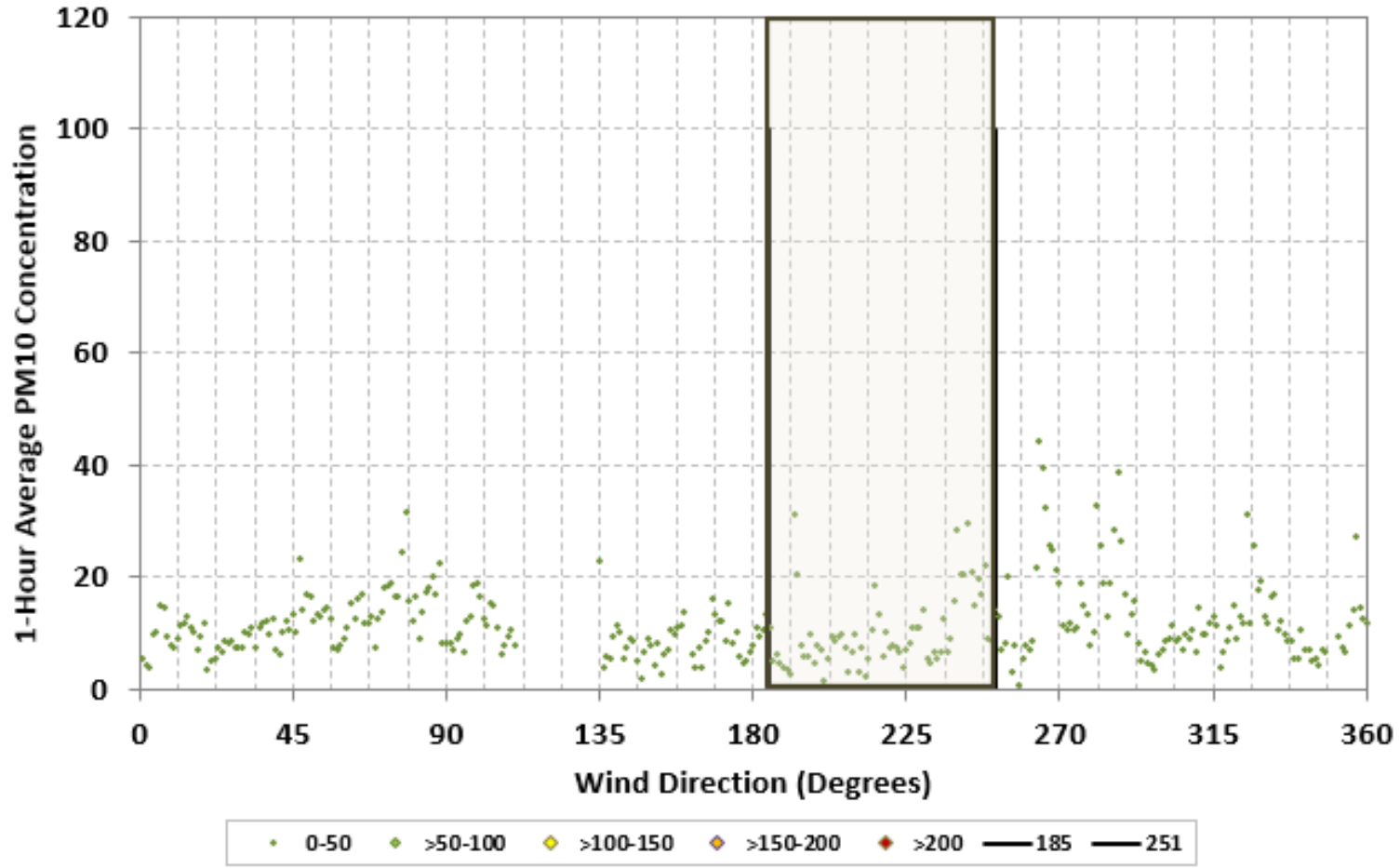
South Muswellbrook – DC04

Data capture – 100%



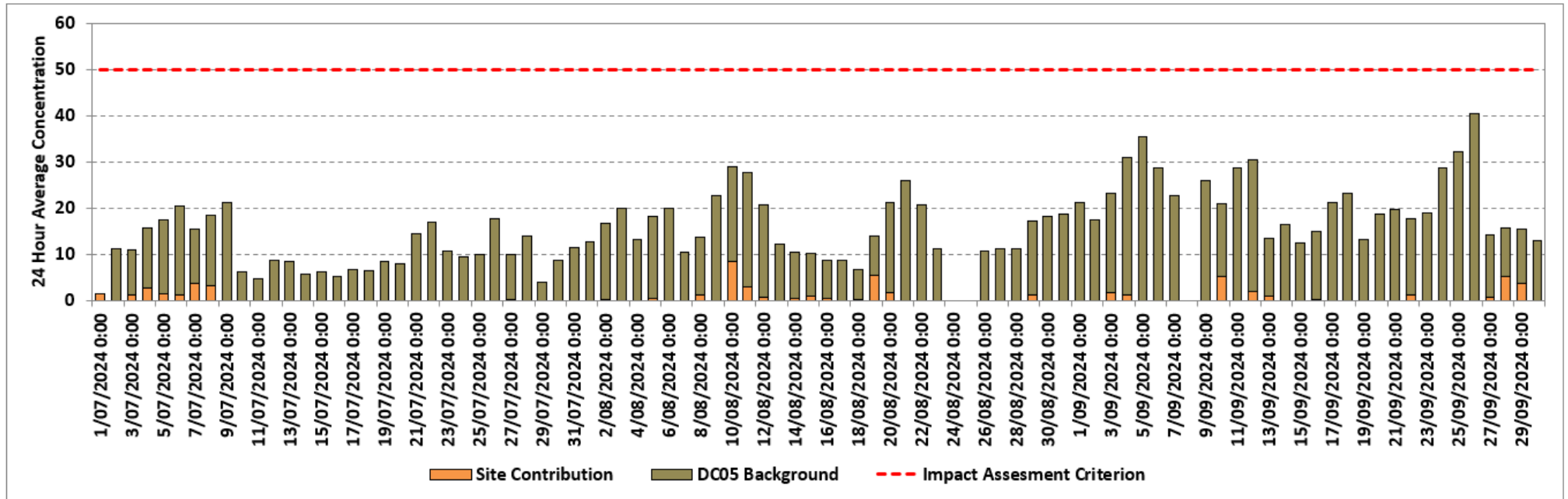
South Muswellbrook – DC04

DC04

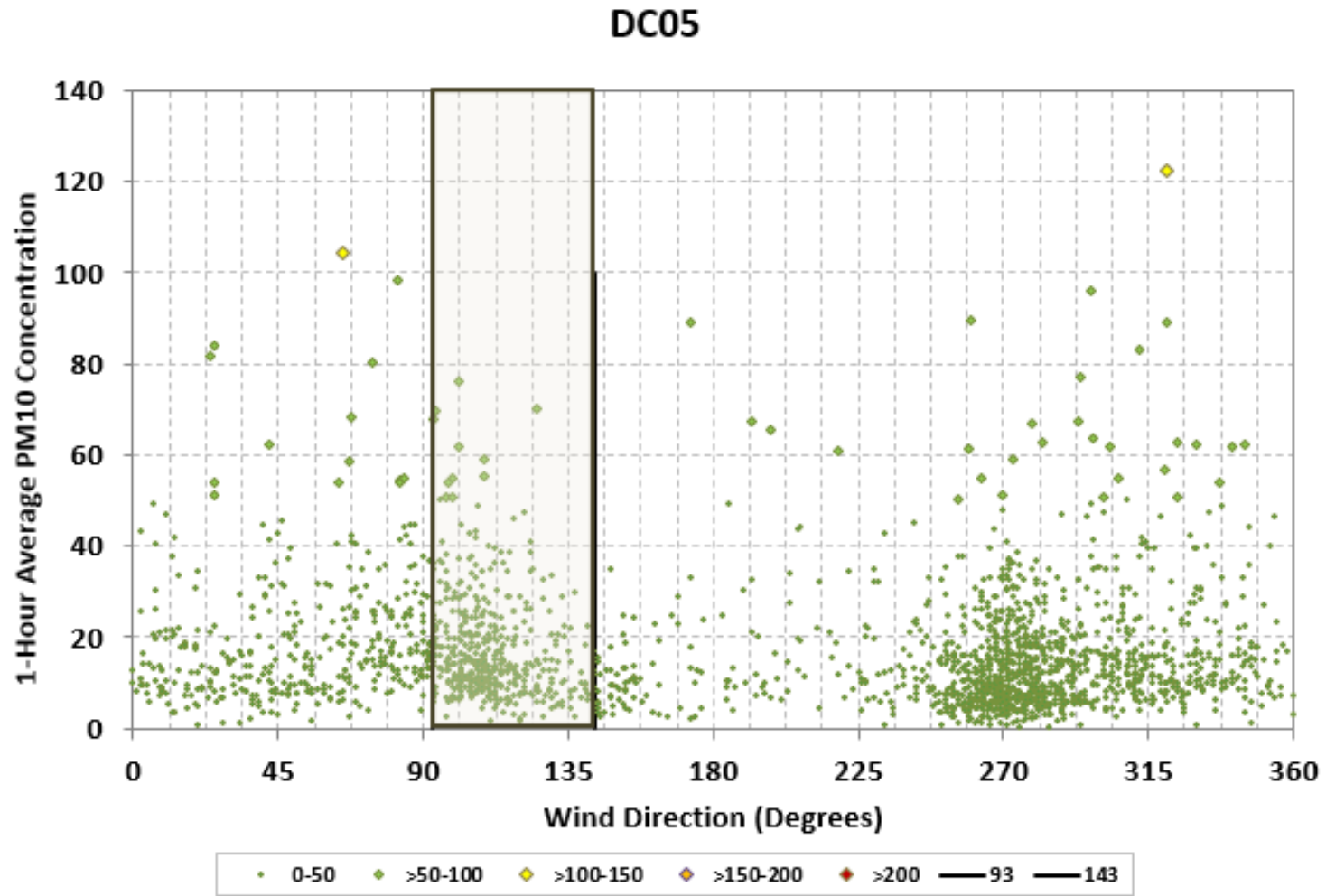


Roxburgh Road – DC05

Data capture – 96.74%

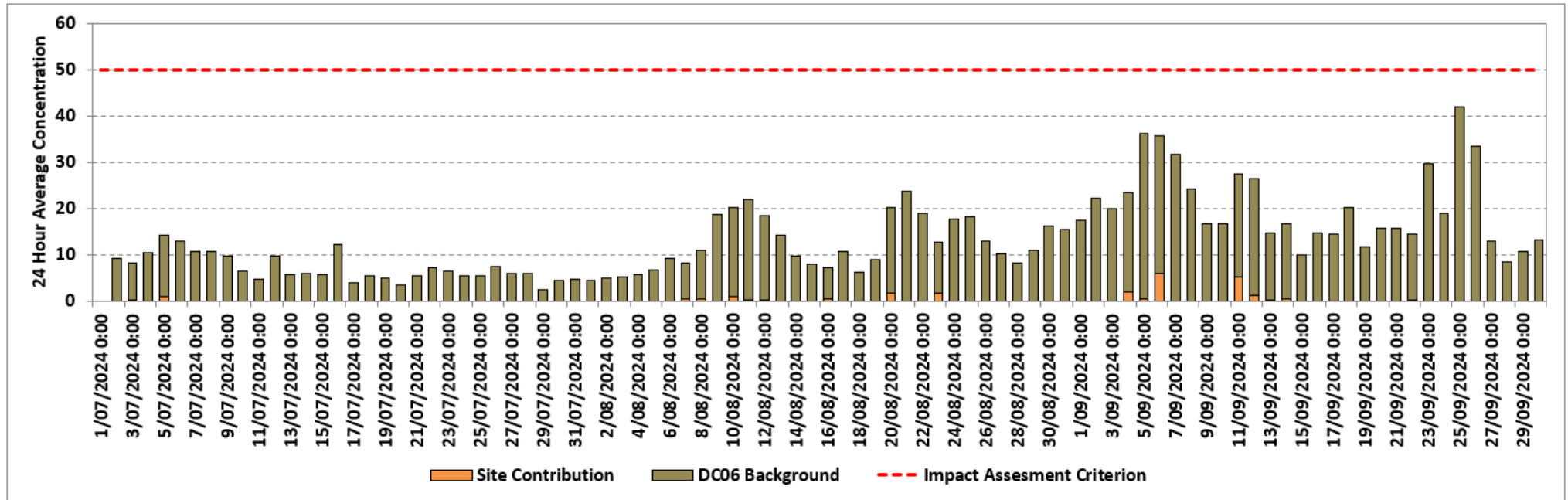


Roxburgh Road – DC05

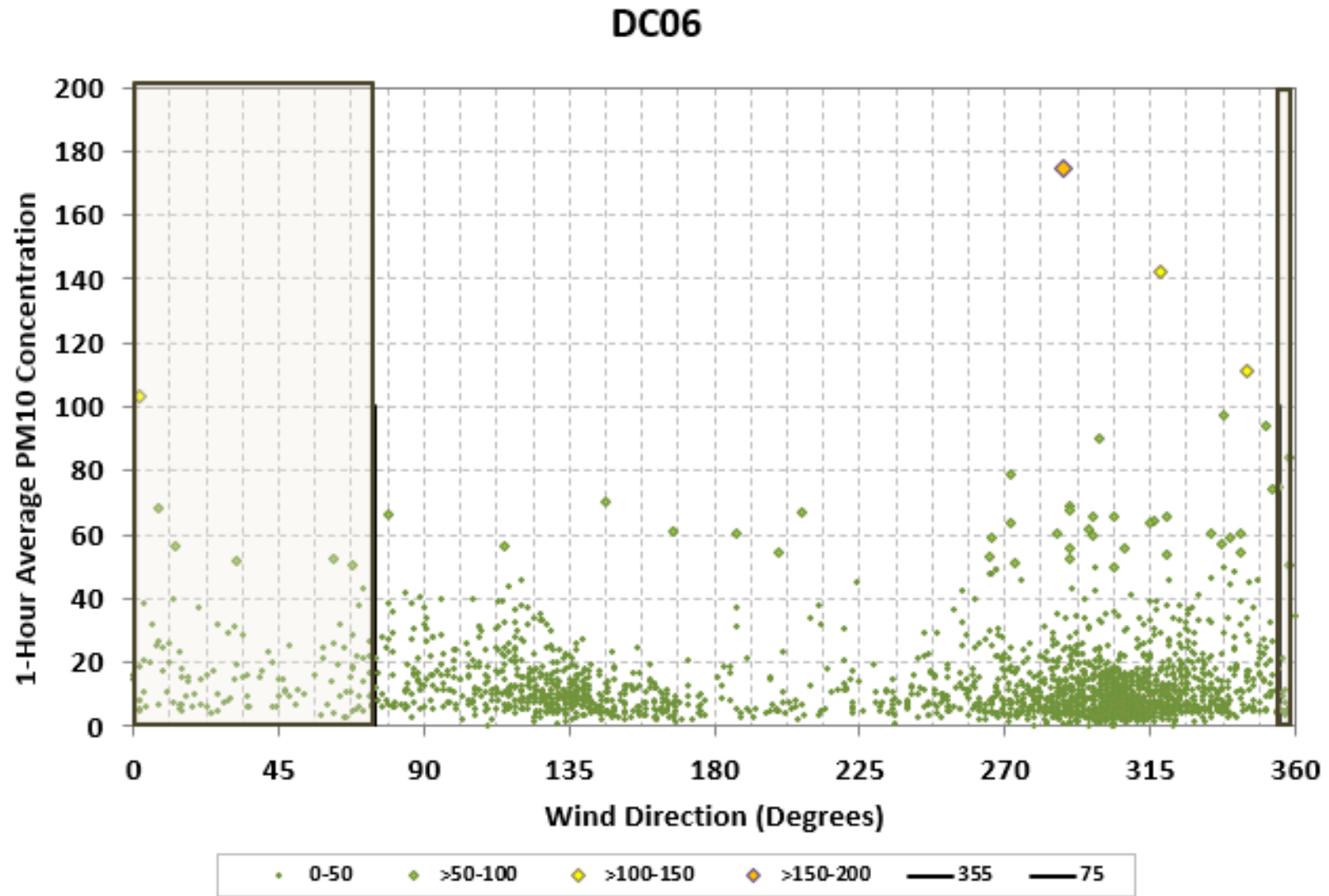


Edderton Homestead - DC06

Data capture – 100%

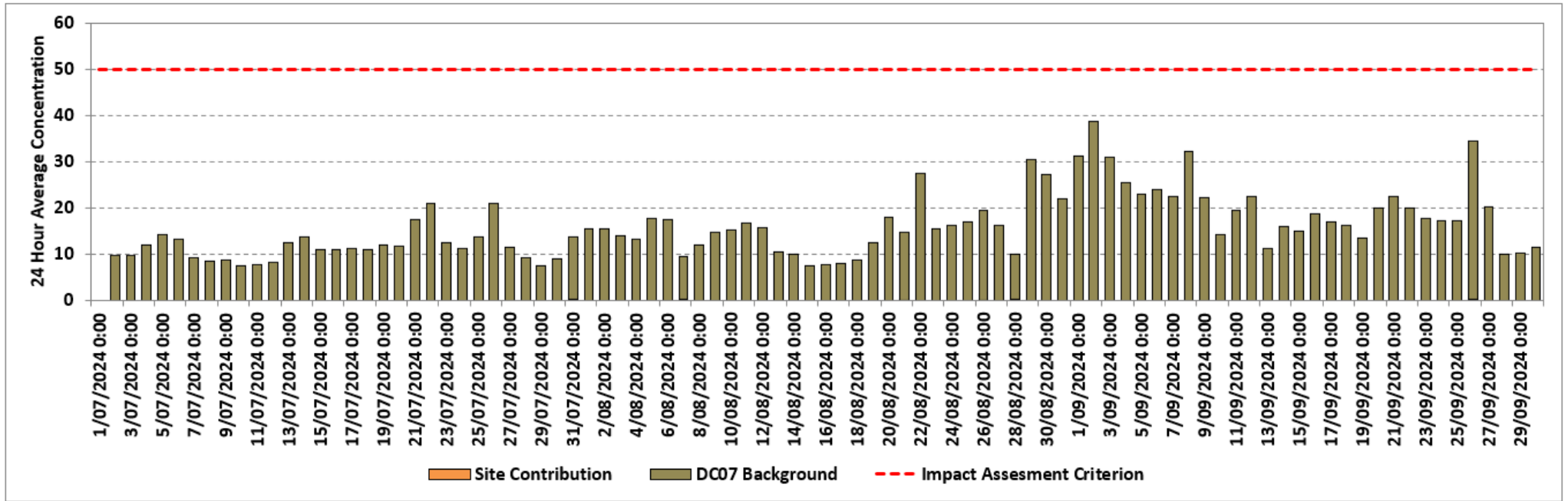


Edderton Homestead - DC06



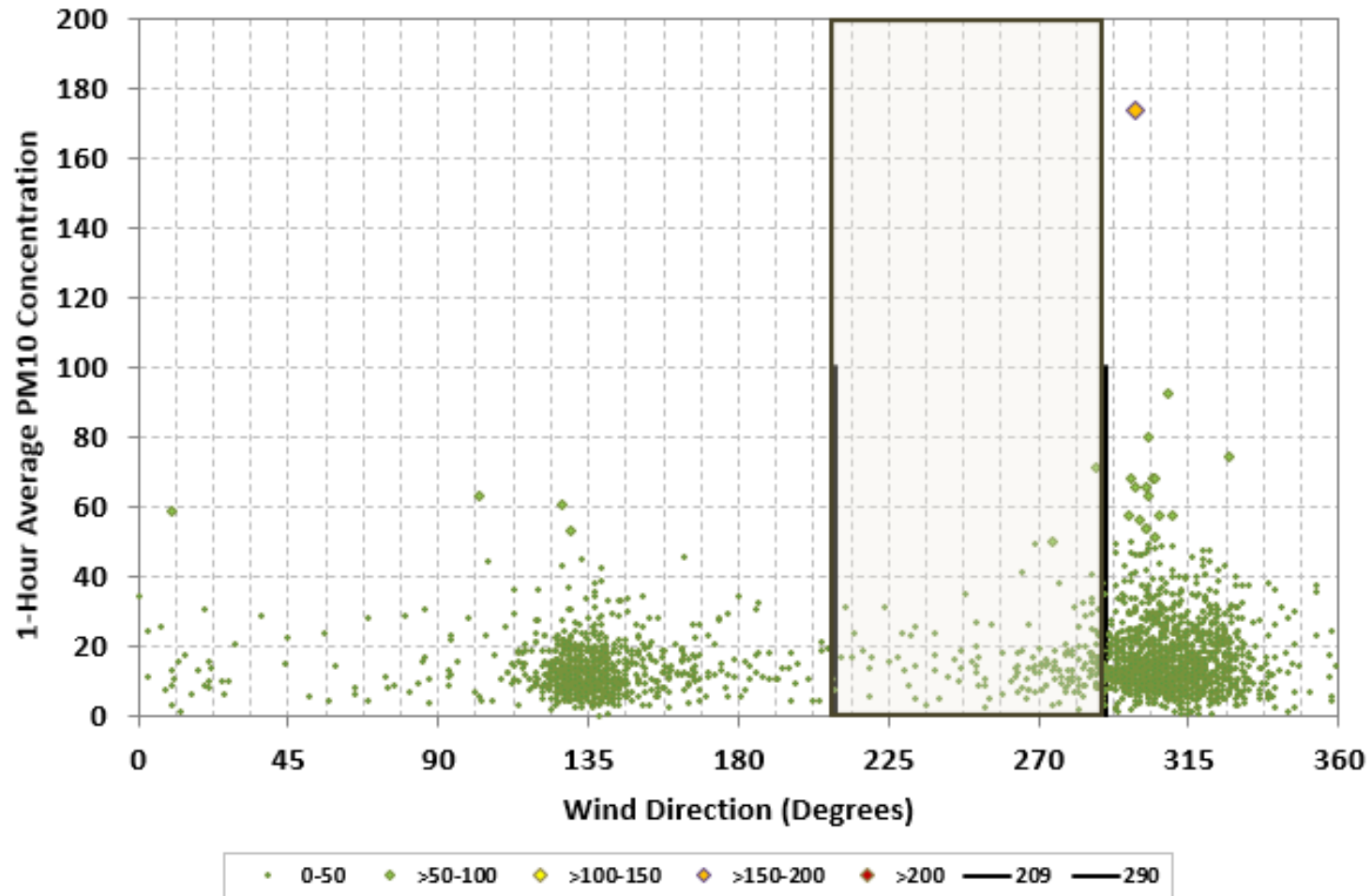
Antiene - DC07

Data capture – 100%



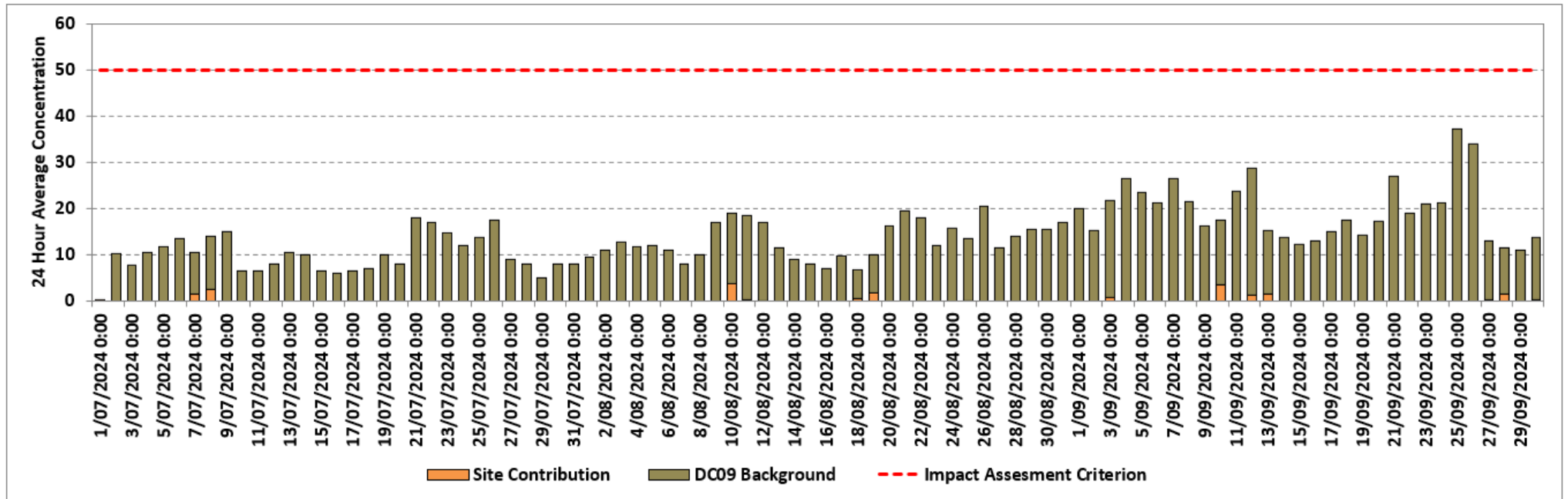
Antiene - DC07

DC07

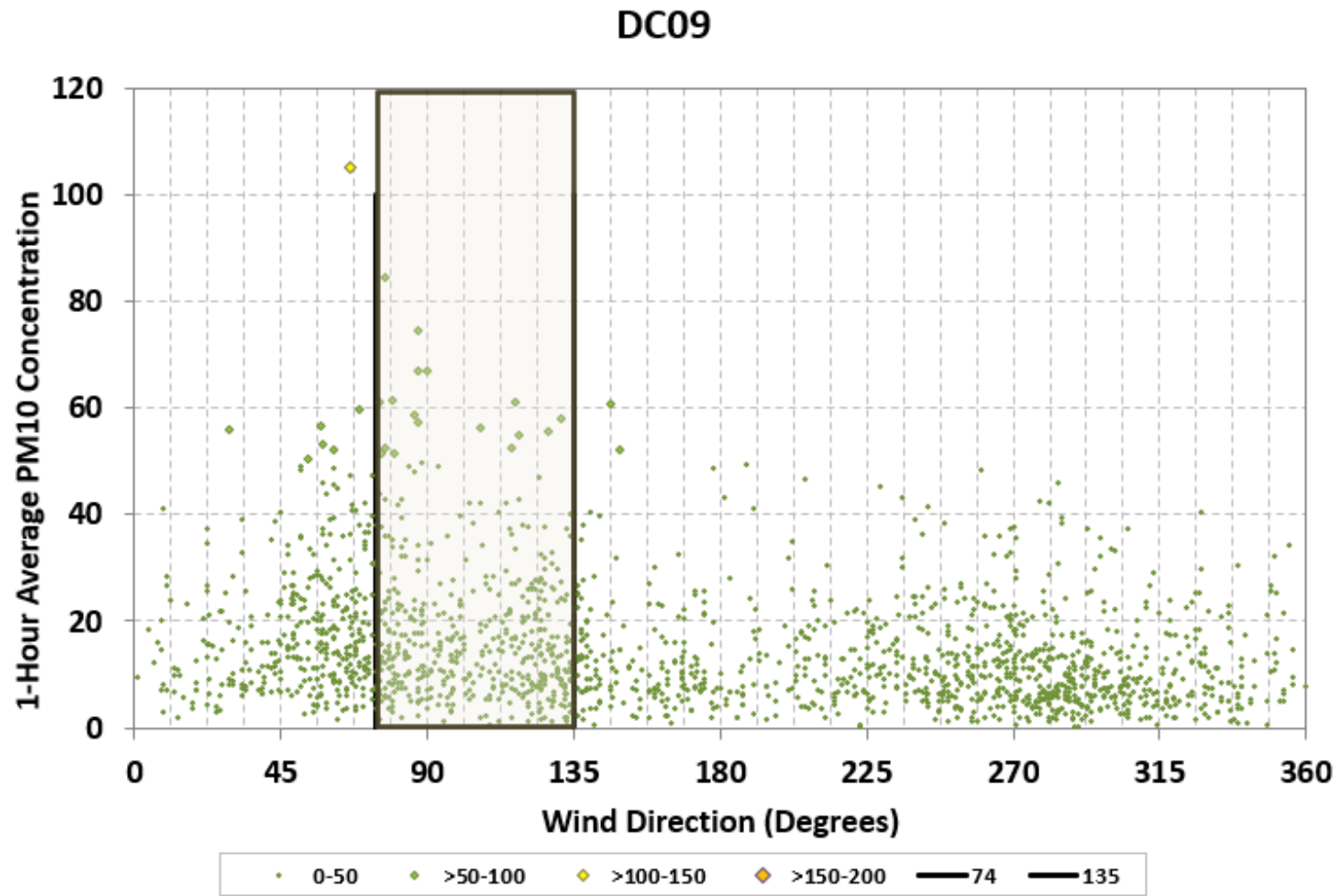


Wellbrook – DC09

Data capture – 100%

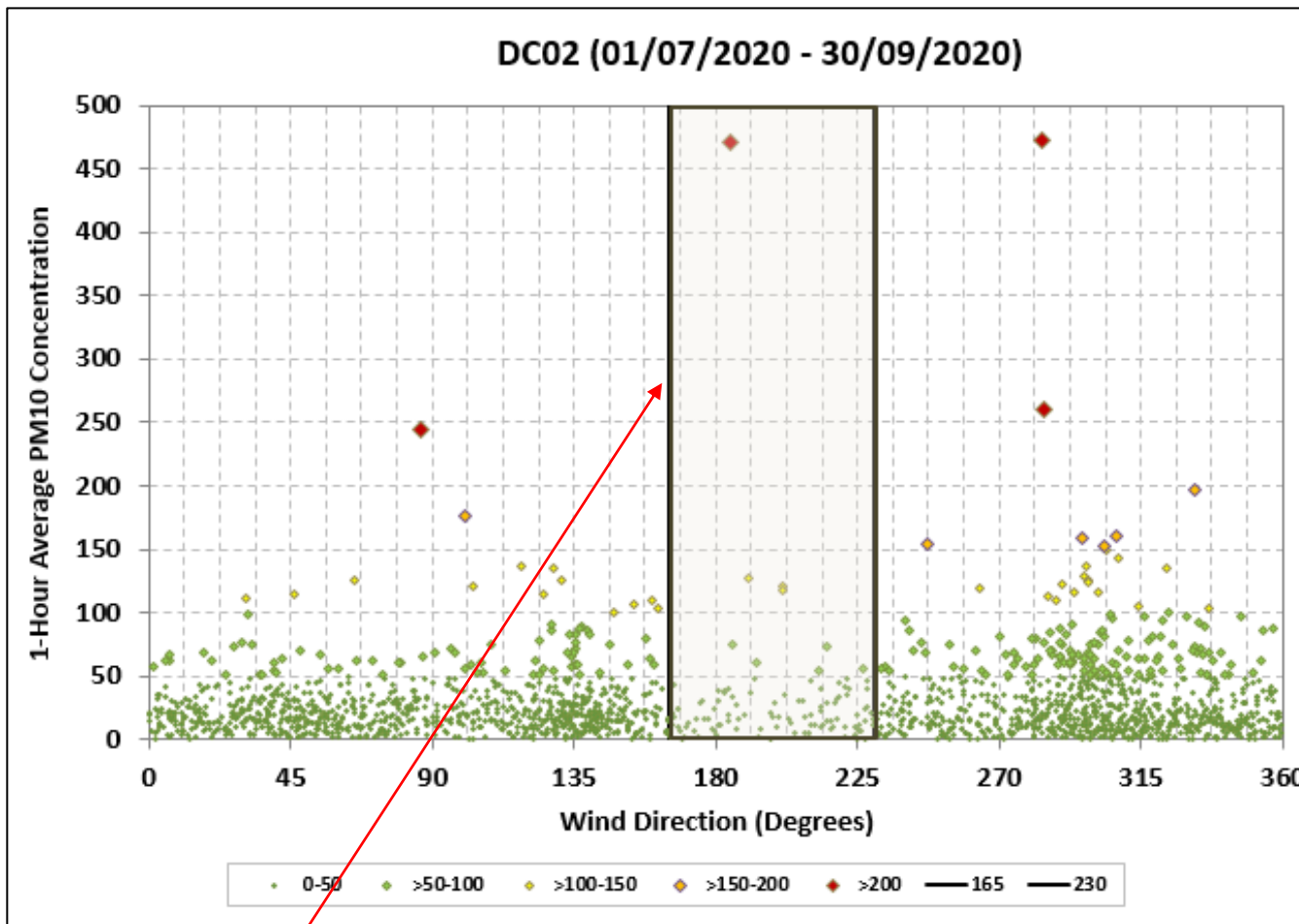


Wellbrook – DC09



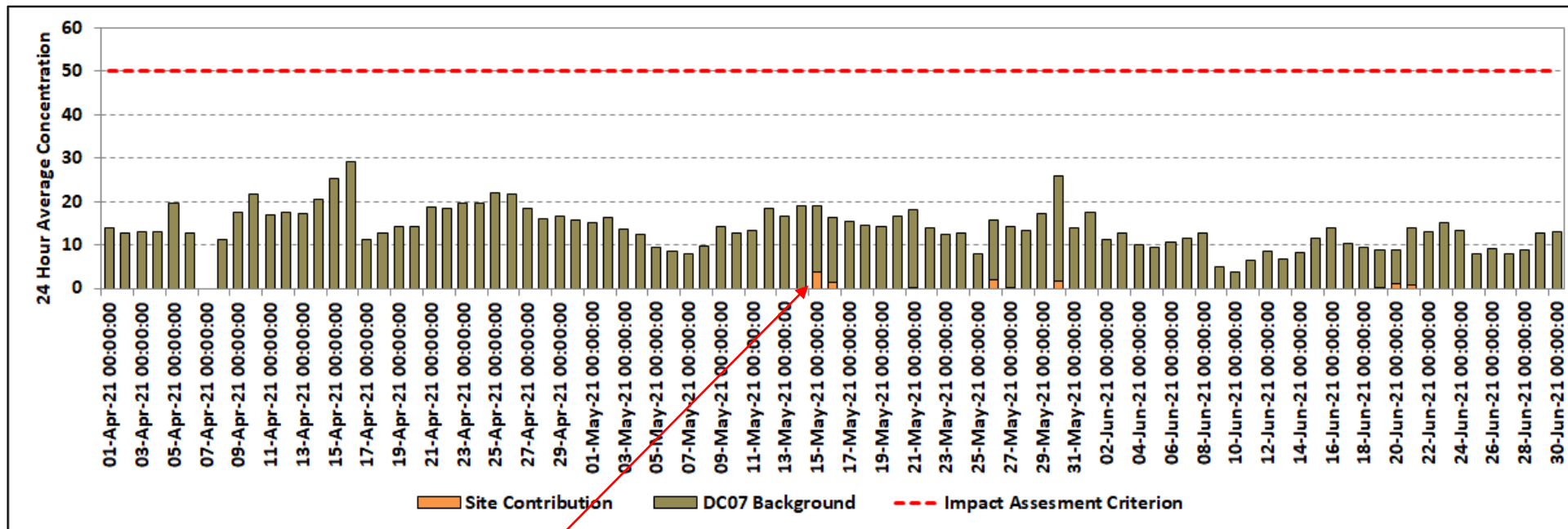
Air Quality Monitoring Interpretation Guidance

This information has been provided to assist with the interpretation of the air quality monitoring results and figures within this report.



This graphic shows the window where the Mt Arthur Coal contribution is at risk of influencing the DC02 dust monitor based on the wind direction. This window can be referred to as the Arc of Influence. All 1- Hour Average Concentrations have been plotted for the reporting period to give an indication of Mt Arthur’s influence on DC02.

Air Quality Monitoring Interpretation Guidance continued

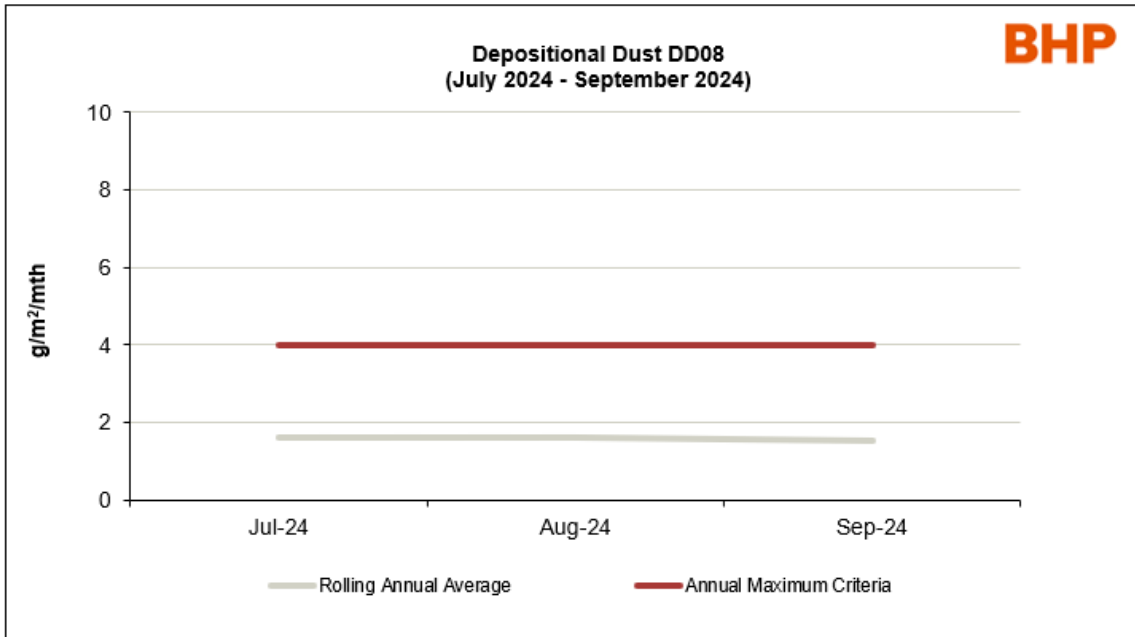


This graphic shows the cumulative Daily 24hr PM10 concentrations along with the incremental Mt Arthur Coal concentrations. This example shows that the cumulative 24hr concentration ('Background') of approximately 20 $\mu\text{g}/\text{m}^3$; the Mt Arthur incremental concentration ('Site Contribution') is represented by the orange coloured portion.

Deposited Dust

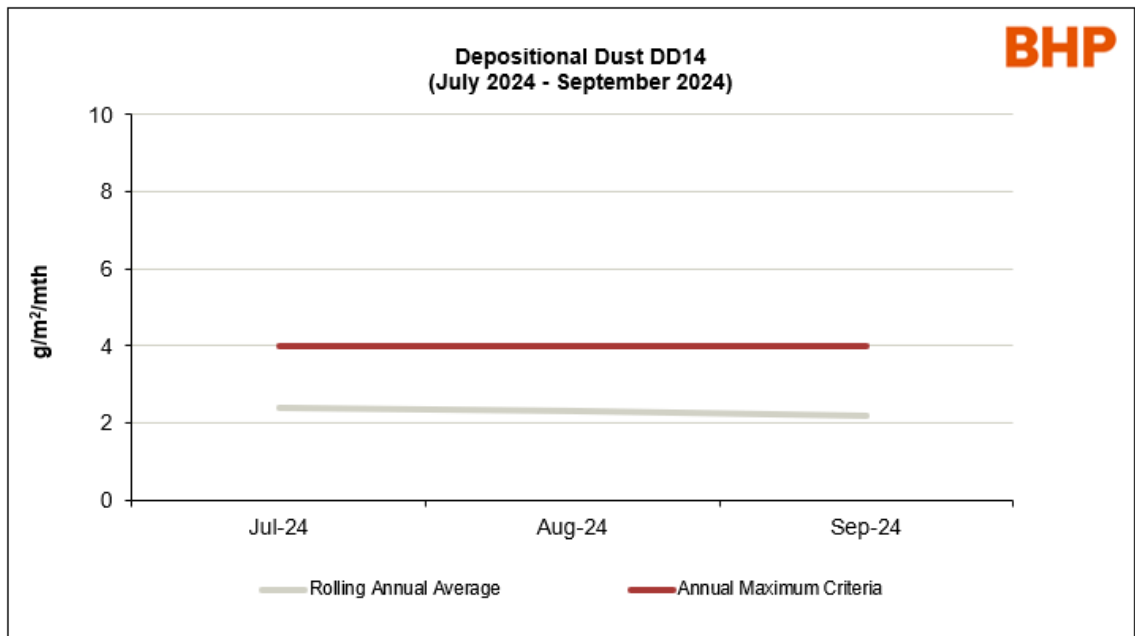
DD08

Data capture – 100%



DD14

Data capture – 100%



Water Monitoring (1 July 2024 to 30 September 2024)

Groundwater

Groundwater monitoring was undertaken in September 2024 with results currently being analysed. The results from the September 2024 monitoring round will be communicated at the next CCC.

The groundwater monitoring that was undertaken in June 2024 has been analysed with level exceedances detected at VWP07_418 and VWP X1_S-2(59) and a pH exceedance at X14MB-2D in line with the Water Management Plan (WMP). These exceedances were all reported to DPHI in the Annual Review and will continue to be monitored.

Surface water

Surface water monitoring was conducted monthly during the three-month period with no exceedances reported in line with the WMP.

Blast Monitoring (1 July 2024 to 30 September 2024)

During the reporting period, there were no exceedances of the upper or lower vibration limits.

There were two exceedances of the lower overpressure limits reported on:

- Tuesday 16 July 2024, 1:26pm at the Denman Road West Monitor (116.6 dBL); and
- Saturday 20 July 2024, 11:01am at the Denman Road West Monitor (119.0 dBL).

No complaints were received for these events. Exceedances of the lower limit are within the 5% of allowable exceedances for FY25 and not considered an environmental incident.

There were no exceedances of the upper overpressure limit.

Operational Noise Monitoring (1 Jul 2024 to 30 September 2024)

Monthly night-time compliance monitoring (attended) was completed to schedule by MAC's external expert consultant. MAC is not informed of when this monitoring is scheduled for completion to ensure there is a true representation of operational activities on any given night.

There were no exceedances of the threshold levels reported for any noise monitoring locations during the reporting period.

Environmental Incidents (1 June 2024 to 30 September 2024)

Groundwater Exceedance

The groundwater monitoring that was undertaken in June 2024 has been analysed with level exceedances detected at VWP07_418 and VWP X1_S-2(59) and a pH exceedance at X14MB-2D in line with the Water Management Plan (WMP). These exceedances were all reported to DPHI in the Annual Review and will continue to be monitored

Environmental Reporting (1 April 2024 to 30 June 2024)

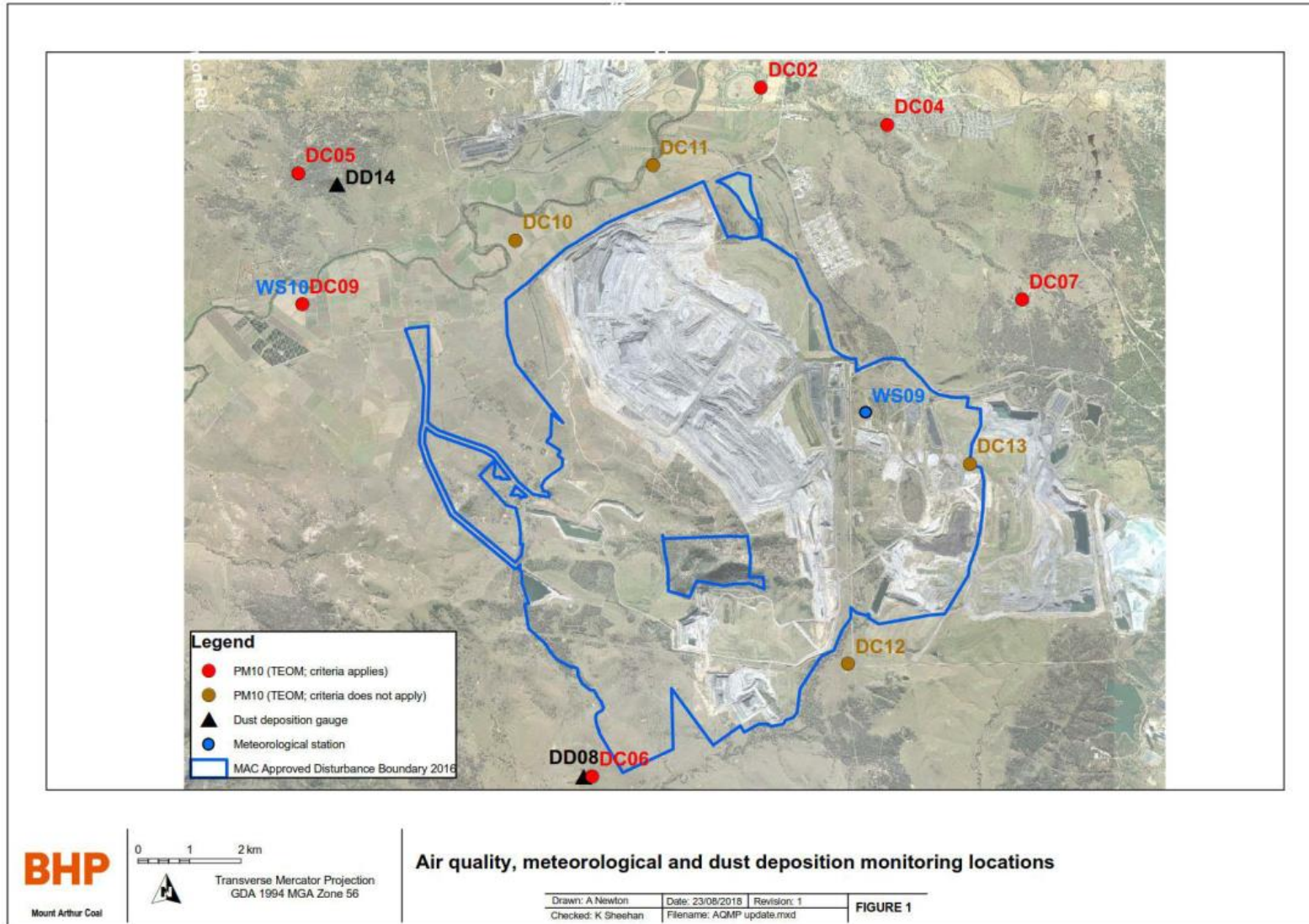
Monthly Reporting

Historical information and reporting is available to view on the BHP website using the following link:

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

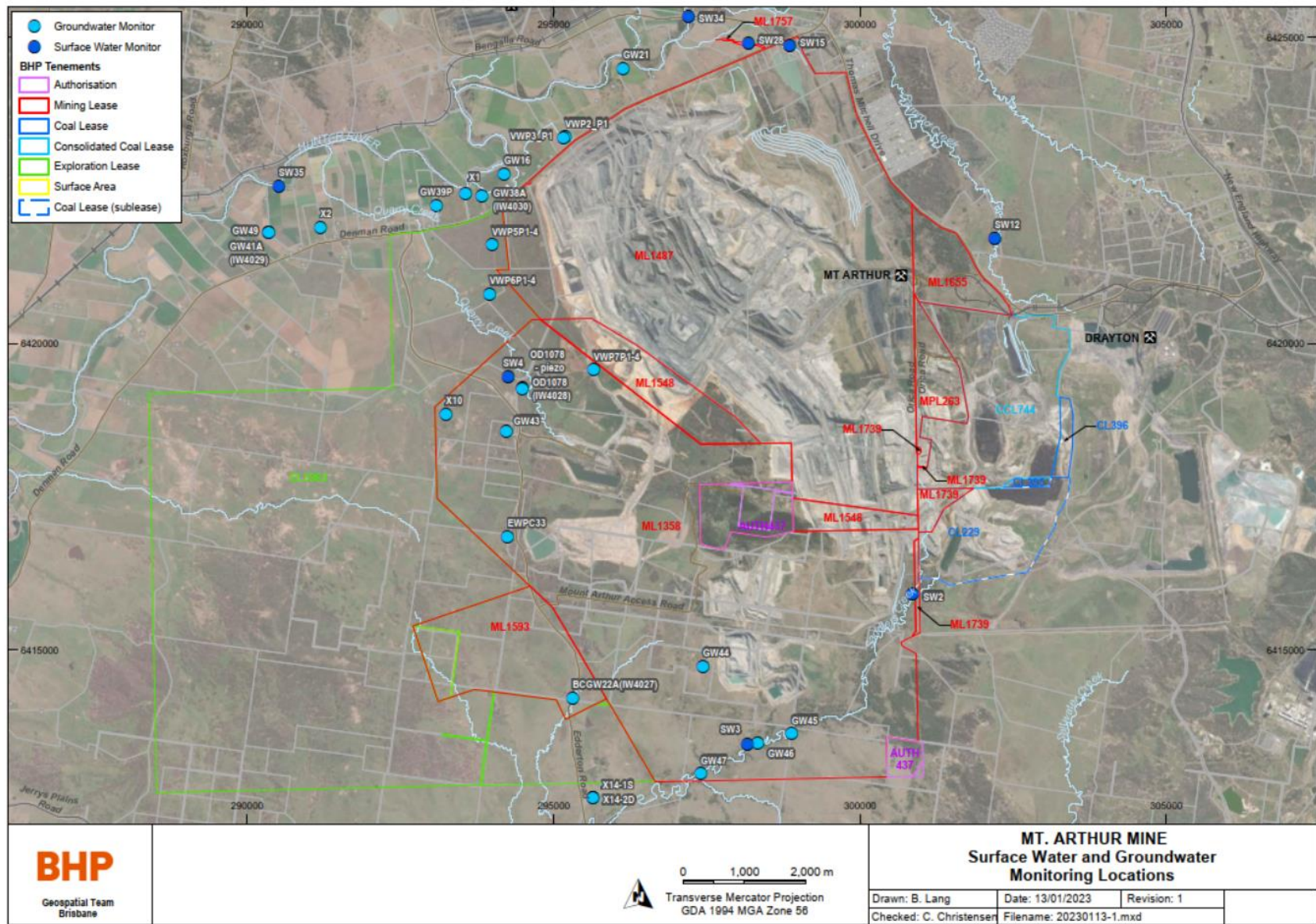
Environmental Monitoring Plans (for reference)

Air Quality and Meteorological Monitoring Locations (Source: Air Quality Management Plan)

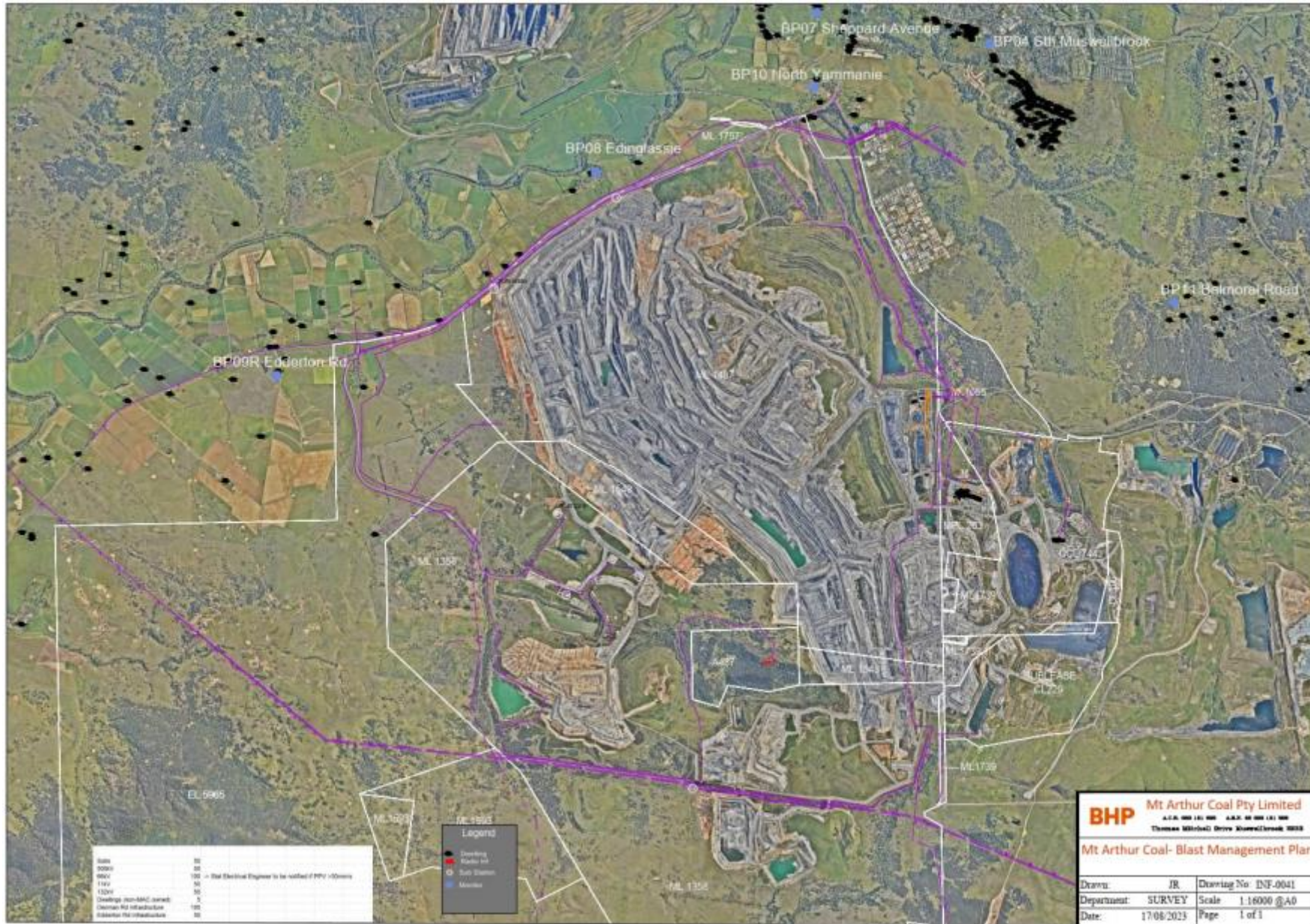


Site Water Monitoring Locations (Sourced and modified from: Site Water Management Plan)

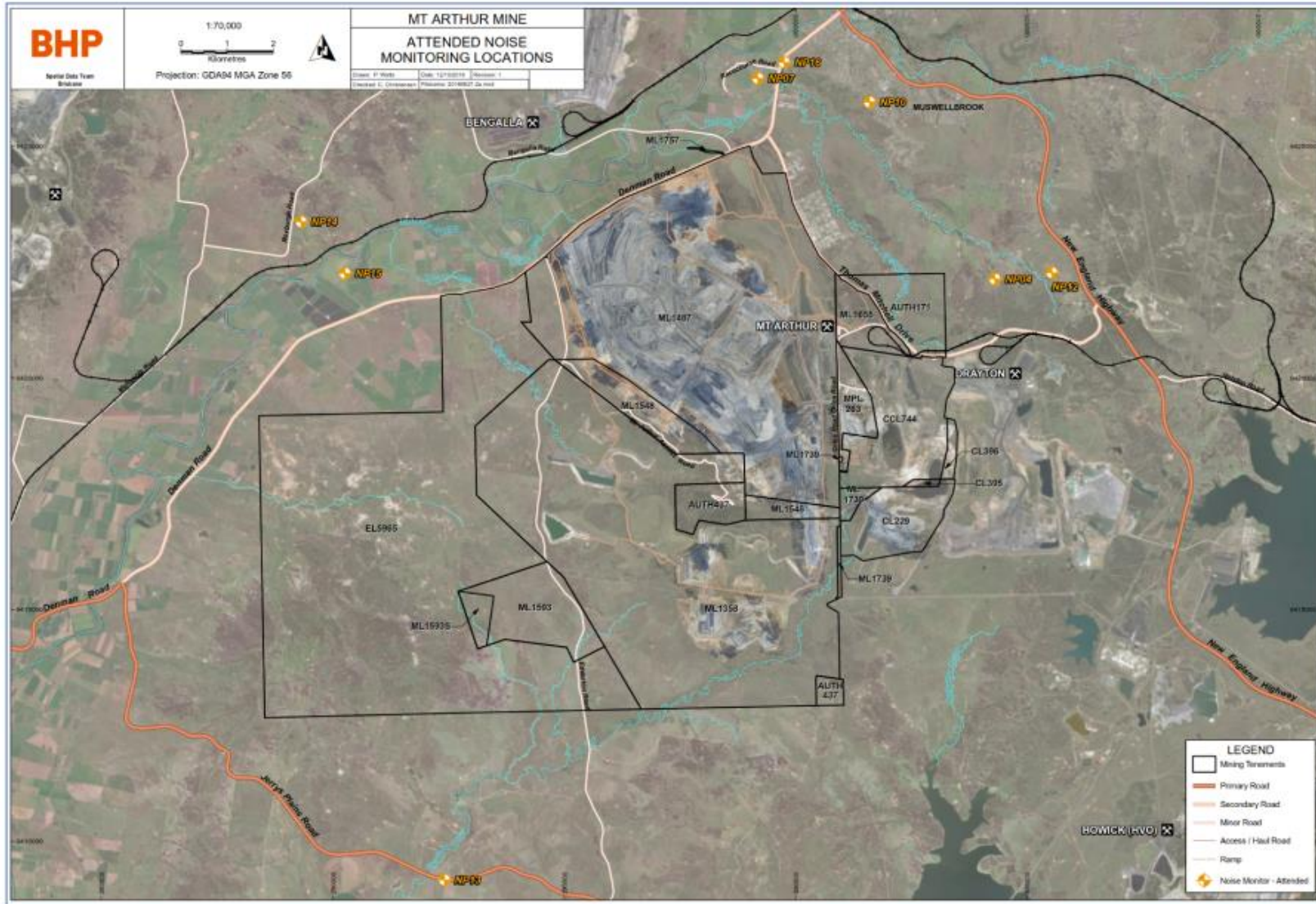
Surface Water and Ground Water Monitoring Locations:



Blast Monitoring Locations (Source: Blast Management Plan)

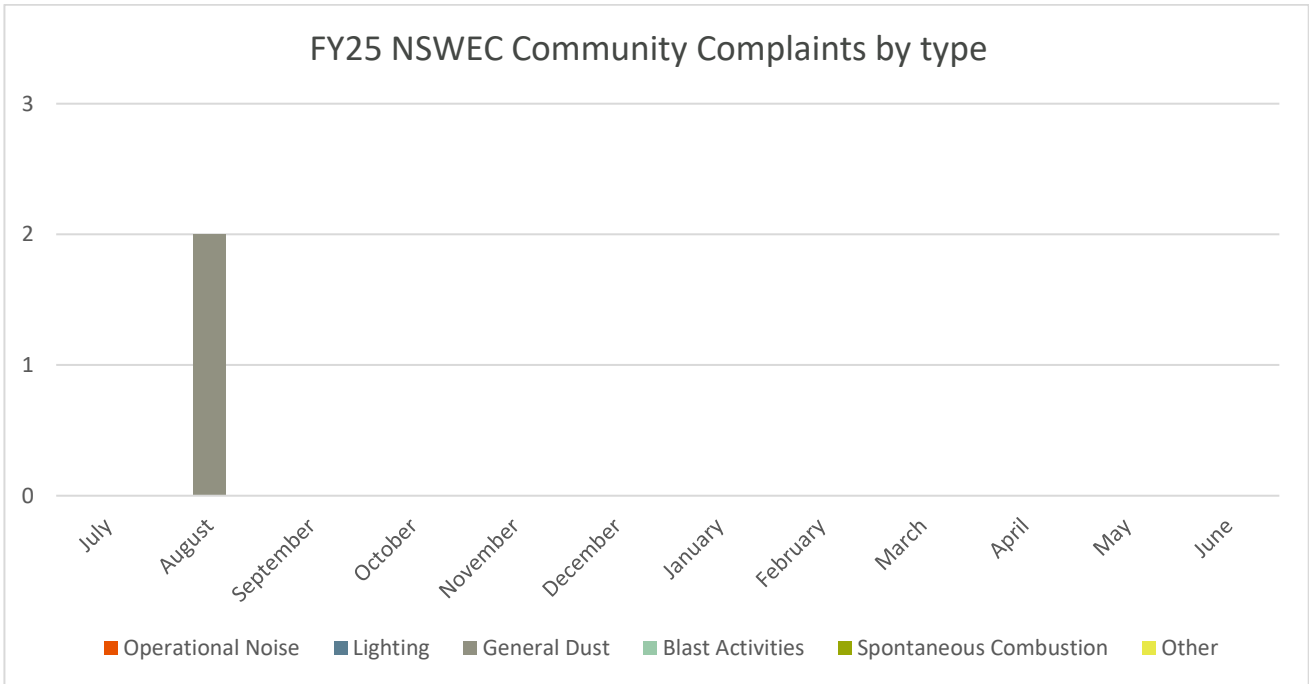


Operational Noise Monitoring (attended) Locations (Source: Noise Management Plan)



Community Complaints

The Community Complaints included in this report are for the period 1 July 2024 to 30 September 2024. Mt Arthur Coal received two (2) complaints during this period. Both were related to dust and were lodged via NSW EPA. There was no detailed location information provided.



Community Complaints Summary: 1 July 2024 to 30 September 2024

Date	Time	From	Issue	Lodgement type	Investigation and response to caller
28.08.2024	9am	Muswellbrook	Dust	Via NSW EPA	Investigation revealed high wind speeds were recorded on the day of the complaint. Detailed information was provided to EPA related to dust mitigation and control activities undertaken on that day in response to the conditions in accordance with the approved Air Quality Management Plan (AQMP) and the conditions in the Environment Protection Licence (EPL) with no further information required.
28.08.2024	11am	Muswellbrook	Dust	Via NSW EPA	Investigation revealed high wind speeds were recorded on the day of the complaint. Detailed information was provided to EPA related to dust mitigation and control activities undertaken on that day in response to the conditions in accordance with the approved Air Quality Management Plan (AQMP) and the conditions in the Environment Protection Licence (EPL) with no further information required.

Actions from previous meeting/s

The actions from previous meetings are listed below.

Action	Status
Actions from 14 August 2024 meeting	
Action 1: WP to liaise with AW regarding interest expressed by two parties to join the MAC CCC that had been in response to the company's Community Newsletter.	
Action 2: WP to provide LH with contact details for the DPHI representative for the MAC CCC.	
Actions remaining open from previous meetings	
Action 1 (Feb 2024): MAC to advise the CCC when the Public Exhibition period is known for the EPBC Referral documentation	Ongoing. No updates from DEECW

