

Mt Arthur Coal Community Consultative Committee

Planned meeting date:

14 May 2025

Information provided:

1 Jan 2025 to 31 Mar 2025

Environmental Management

FY25 Rehabilitation Update



Figure 1 Community Planting Day on the VD5 rehabilitation.

Mt Arthur's FY25 rehab target is 135ha.

During the reporting period Mt Arthur continued works in the Saddlers North area at the southern end of the mine and started works in the western end of the Out of Pit Dump area. Approximately 116 hectares has been seeded year to date.

Land Management

Weed treatment continues to focus maintenance of FY25 rehabilitation areas with spot weed treatment.

Mt Arthur Coal held its first ever community tree planting day on Friday 4 April. Almost 200 people attended, including local schools St James Primary, St Joseph's Aberdeen, Muswellbrook High School (Polly Farmer Program), Singleton High School (Clontarf Academy). Over 1000 trees were planted on the day, with a further 9000 to be planted by contractors.

The community told us they want to see a flourishing natural environment at Mt Arthur post closure, and it is something they'd like to be involved in, so we opened the gates and got the community on-site to get their hands dirty.

Environmental Performance

Air Quality Monitoring (1 Jan 2025 to 31 Mar 2025)

- 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 impact assessment criteria was exceeded eleven times at statutory TEOM monitoring sites over eight days. 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 these events, requiring no further action.
 - 2 January at Roxburgh Rd – DC05
 - 19 February at Roxburgh Rd – DC05
 - 23 February at Roxburgh Rd – DC05
 - 24 February at Sheppard Avenue – DC02 and Roxburgh Rd – DC05
 - 1 March at Roxburgh Rd – DC05, Edderton Rd – DC06, and Wellbrook – DC09
 - 2 March at Roxburgh Rd – DC05
 - 17 March at Wellbrook – DC09
 - 20 March at Roxburgh Rd – DC05
- Table 1 below provides an equipment performance summary. Over 95% of dust data captured from five of six statutory PM10 monitoring sites during the reporting period.
- The Sheppard Avenue monitoring site, DC02, captured 89% of data during the reporting period. This was caused by ongoing technical issues with the TEOM that required frequent outages and maintenance to diagnose. In response to these issues, the TEOM was replaced in early April and no further issues have presented following installation.
- Equipment availability continues to improve overall following implementation of several improvement initiatives including the purchase of new TEOMs, UPS battery units & communication loggers.

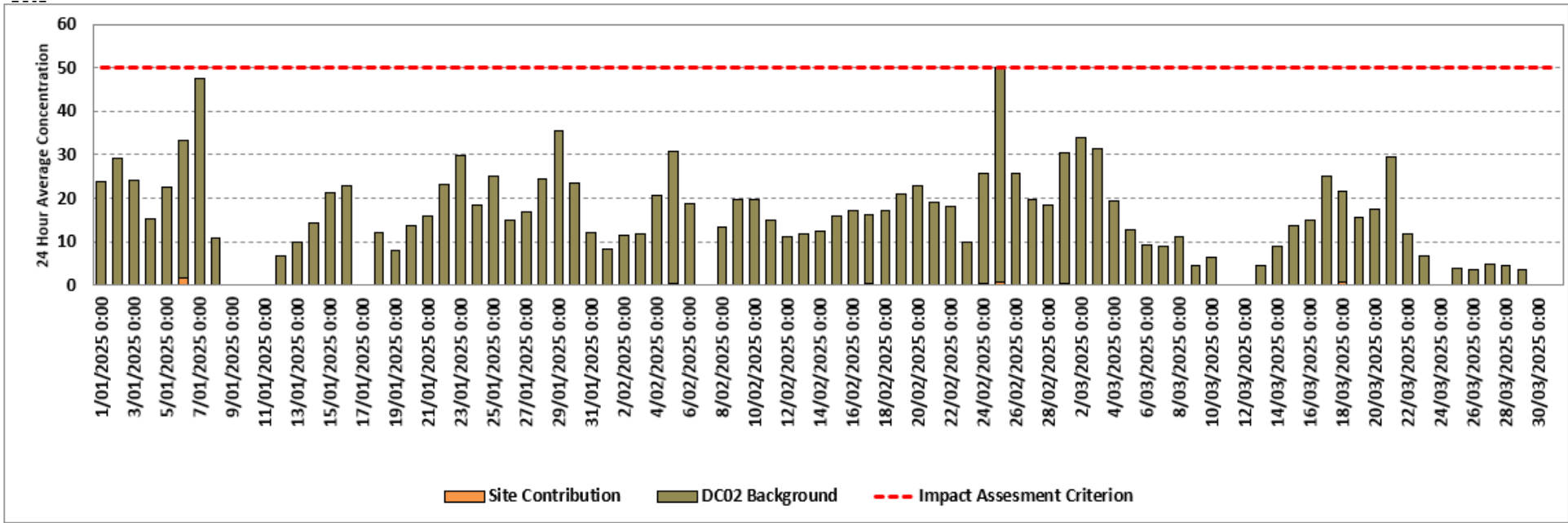
Table 1. Equipment Performance Summary

Site	Date/s	Reason
DC02	9/01/2025 - 11/01/2025, 17/01/2025, 7/02/2025, 11/02/2025, 12/03/2025, 24/03/2025, 30/03/2025, 31/03/2025	During the period listed <75% data captured due to power, technical or equipment connectivity issues.
DC05	14/01/2025, 19/01/2025, 20/01/2025	During the period listed <75% data captured due to power, technical or equipment connectivity issues.

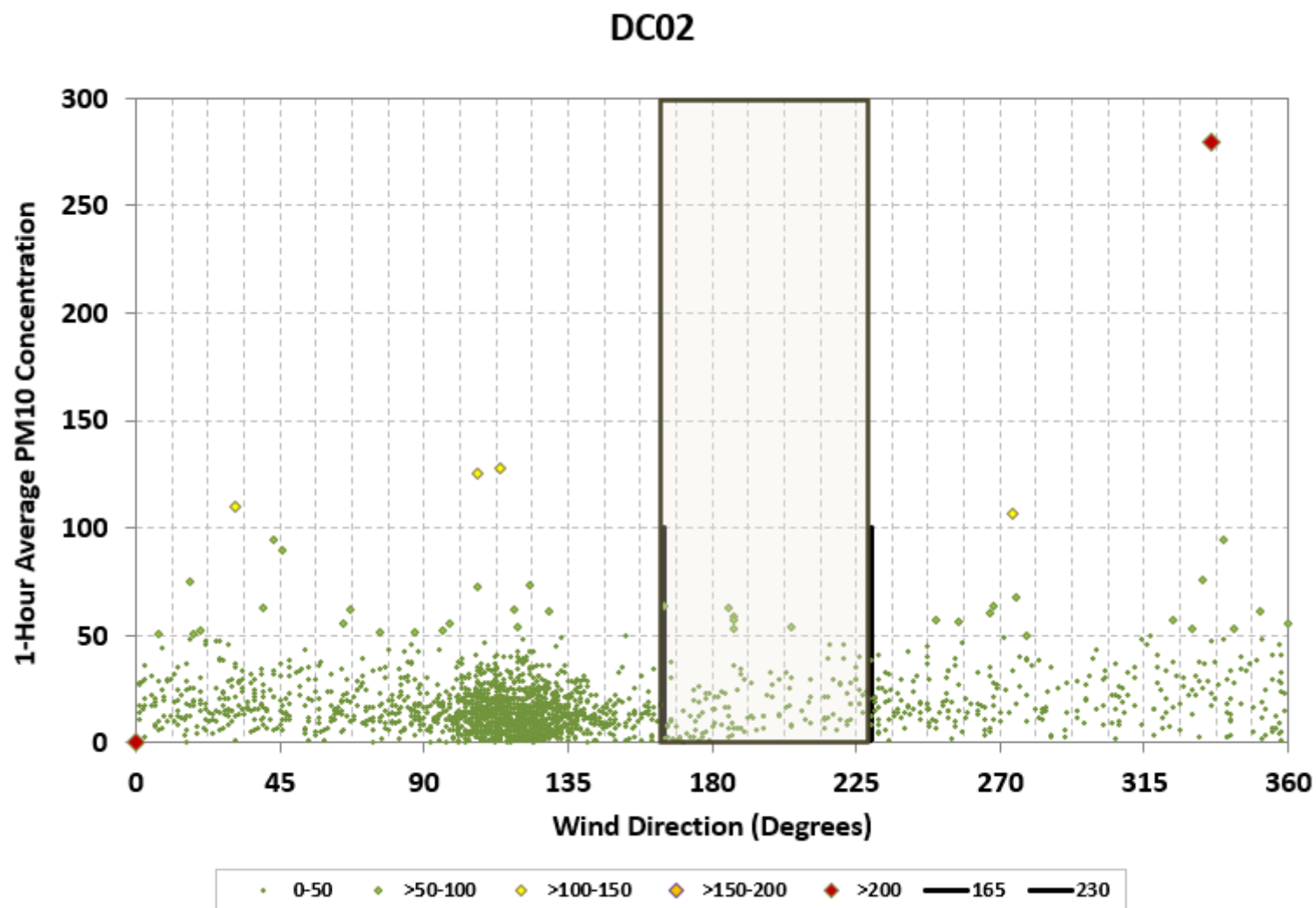
- A guide has been provided at the end of this section to assist in the interpretation of the results and figures. The figures within this section have been developed in line with consultation with members of the CCC.

Sheppard Avenue – DC02

Data capture – 89%

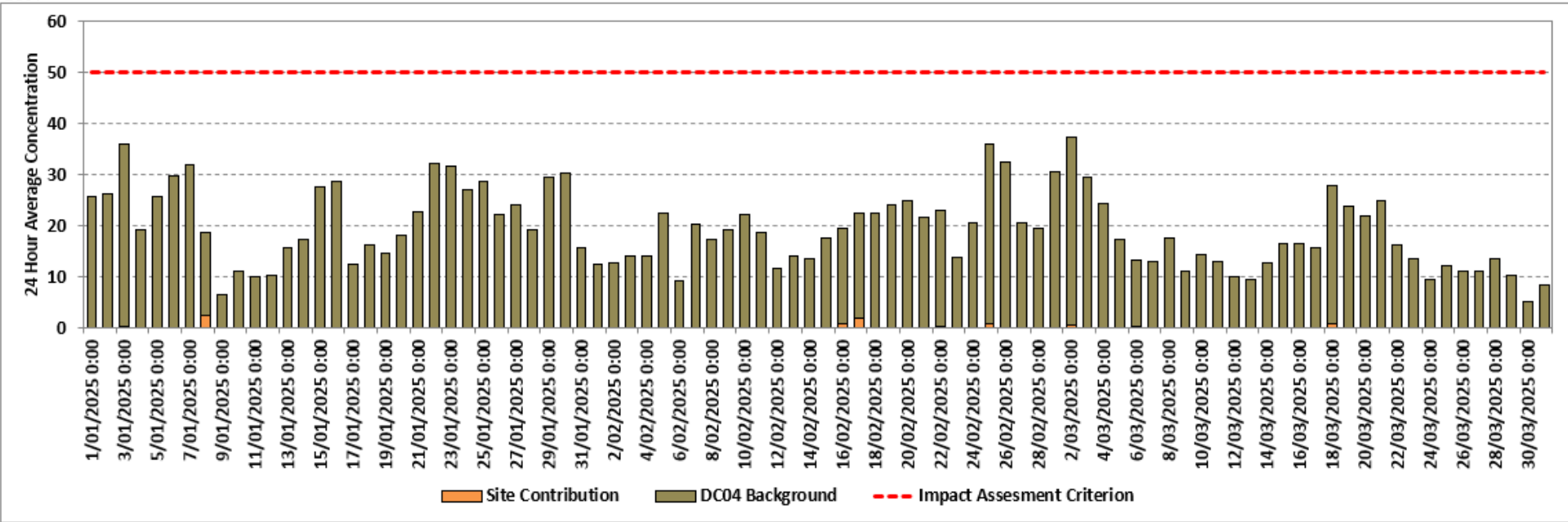


Sheppard Avenue – DC02

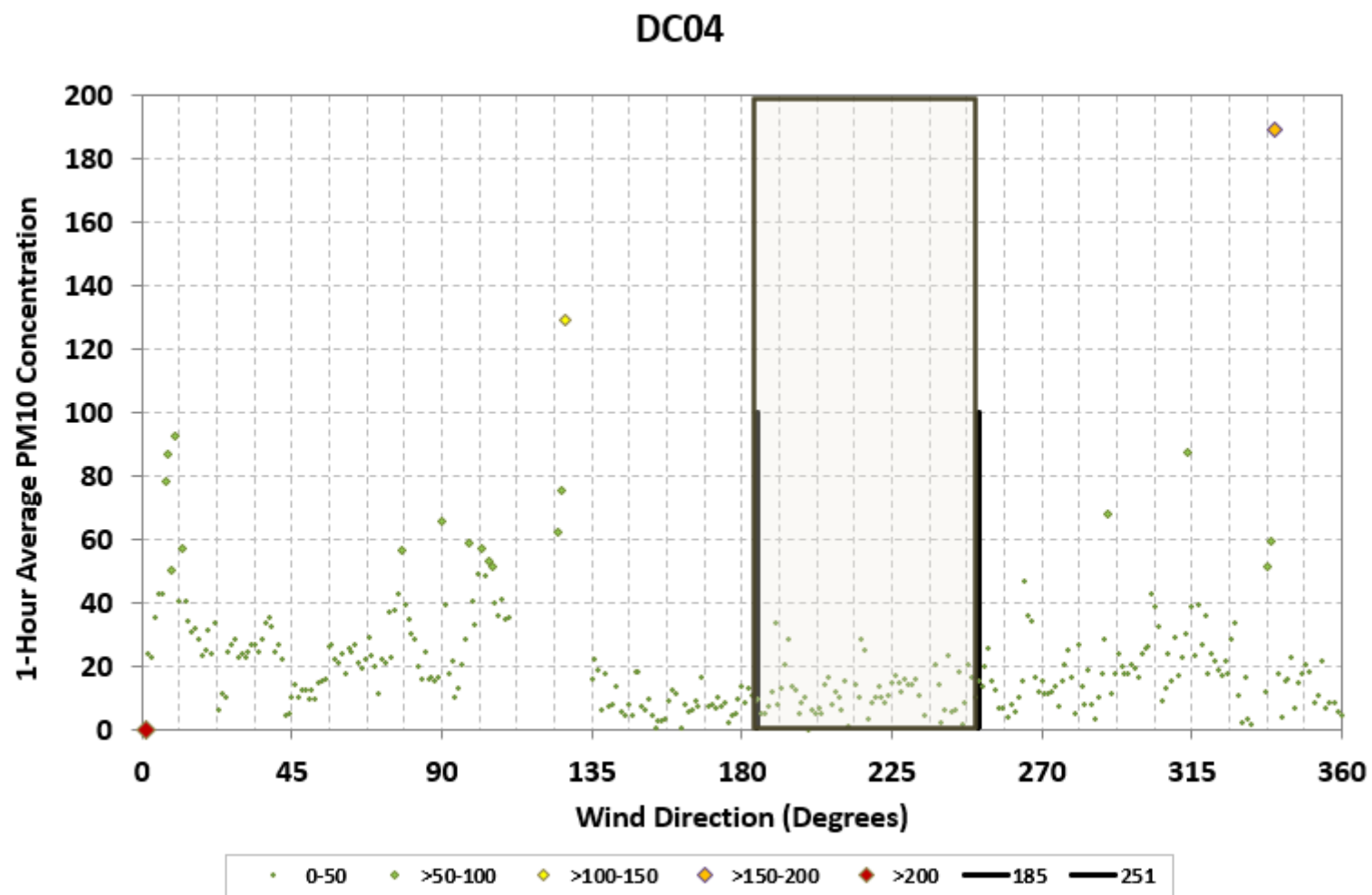


South Muswellbrook – DC04

Data capture – 100%

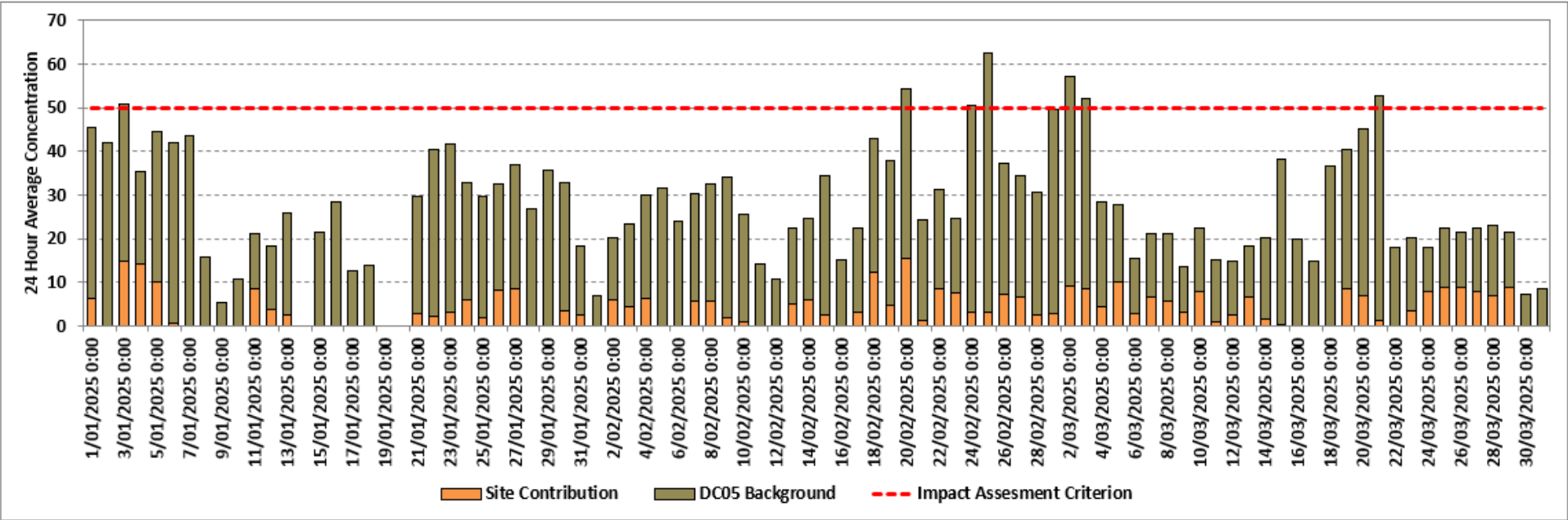


South Muswellbrook – DC04

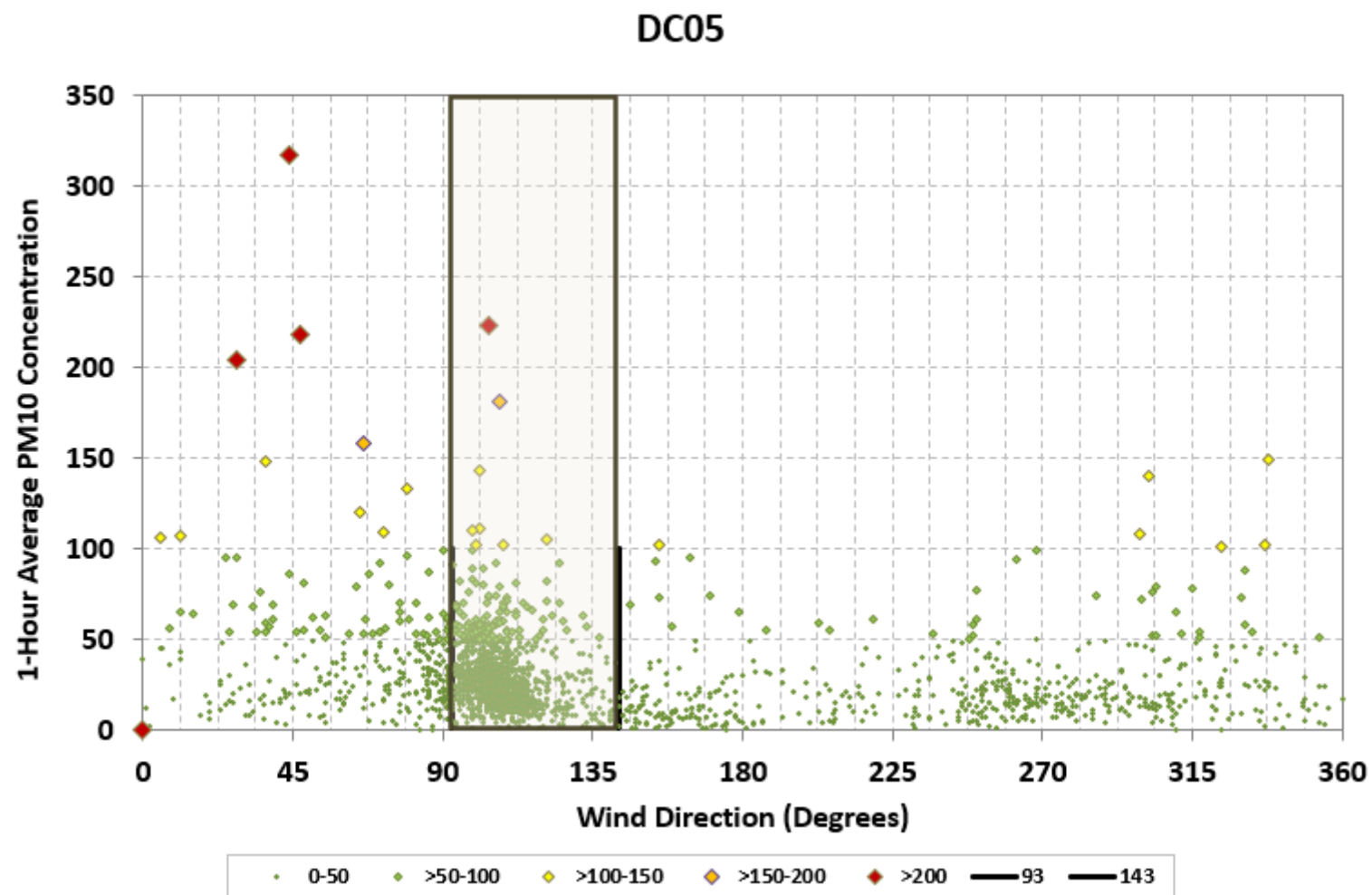


Roxburgh Road – DC05

Data capture – 97%

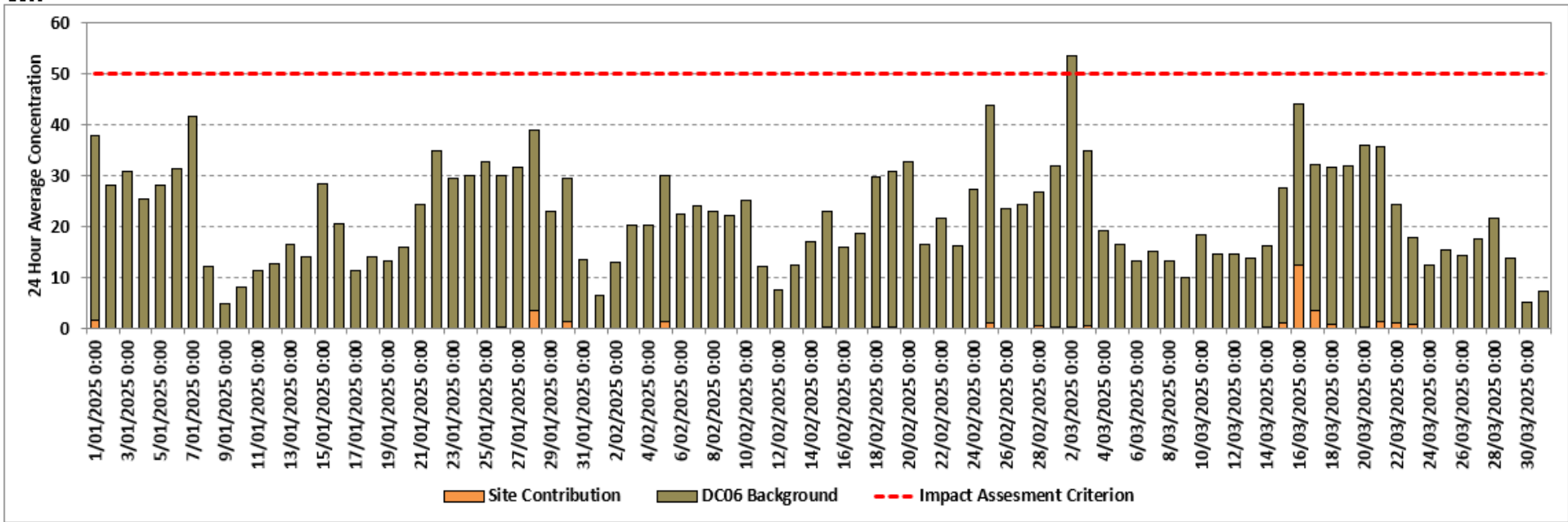


Roxburgh Road – DC05

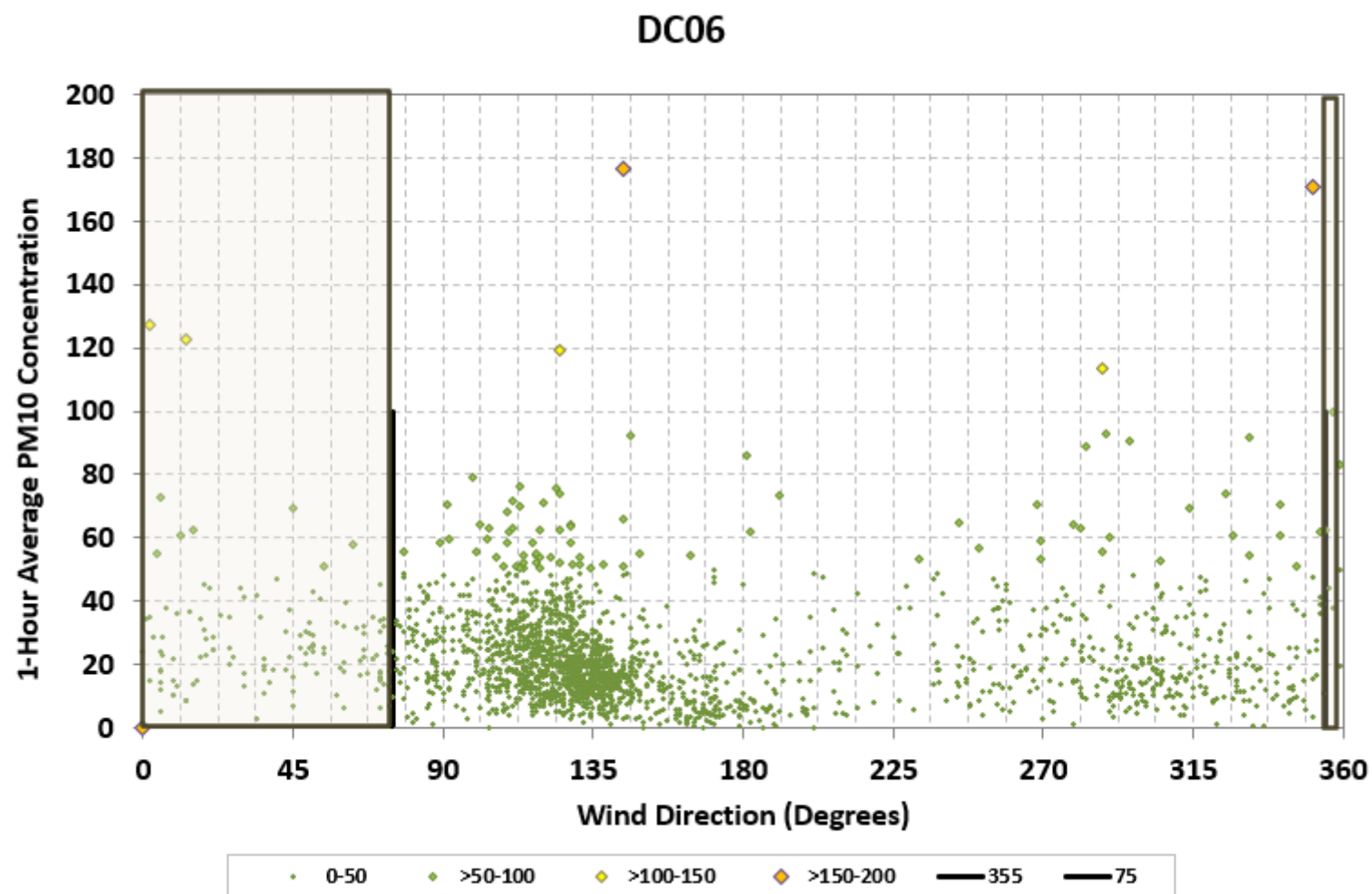


Edderton Homestead - DC06

Data capture – 100%

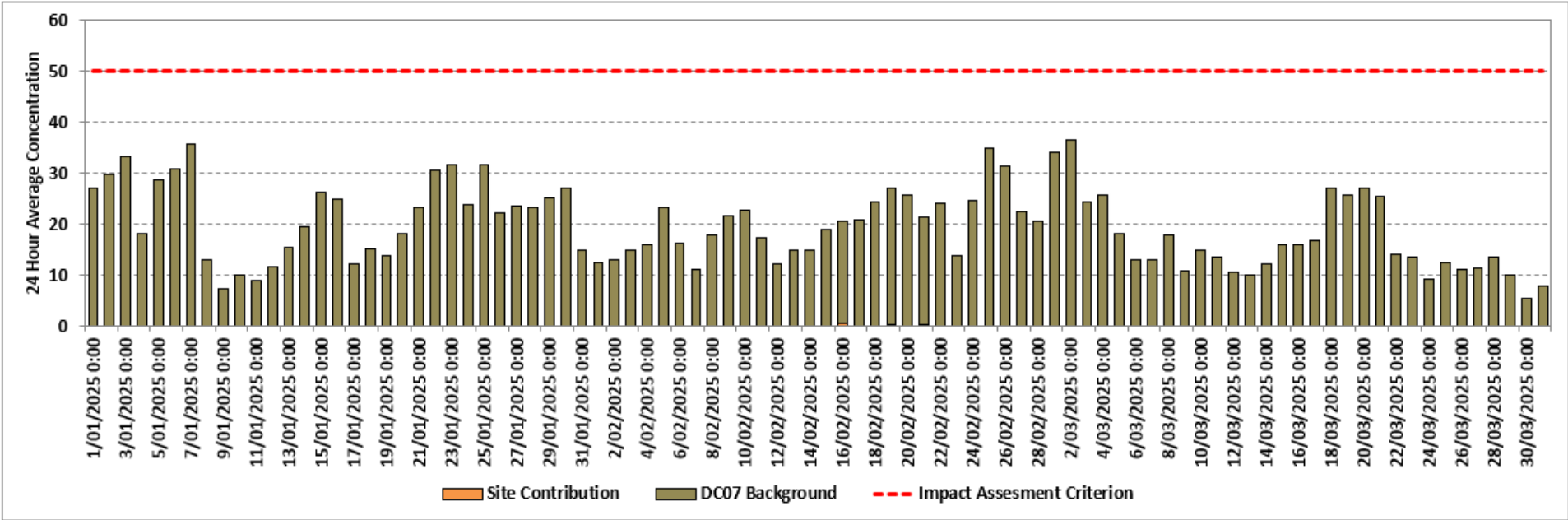


Edderton Homestead - DC06

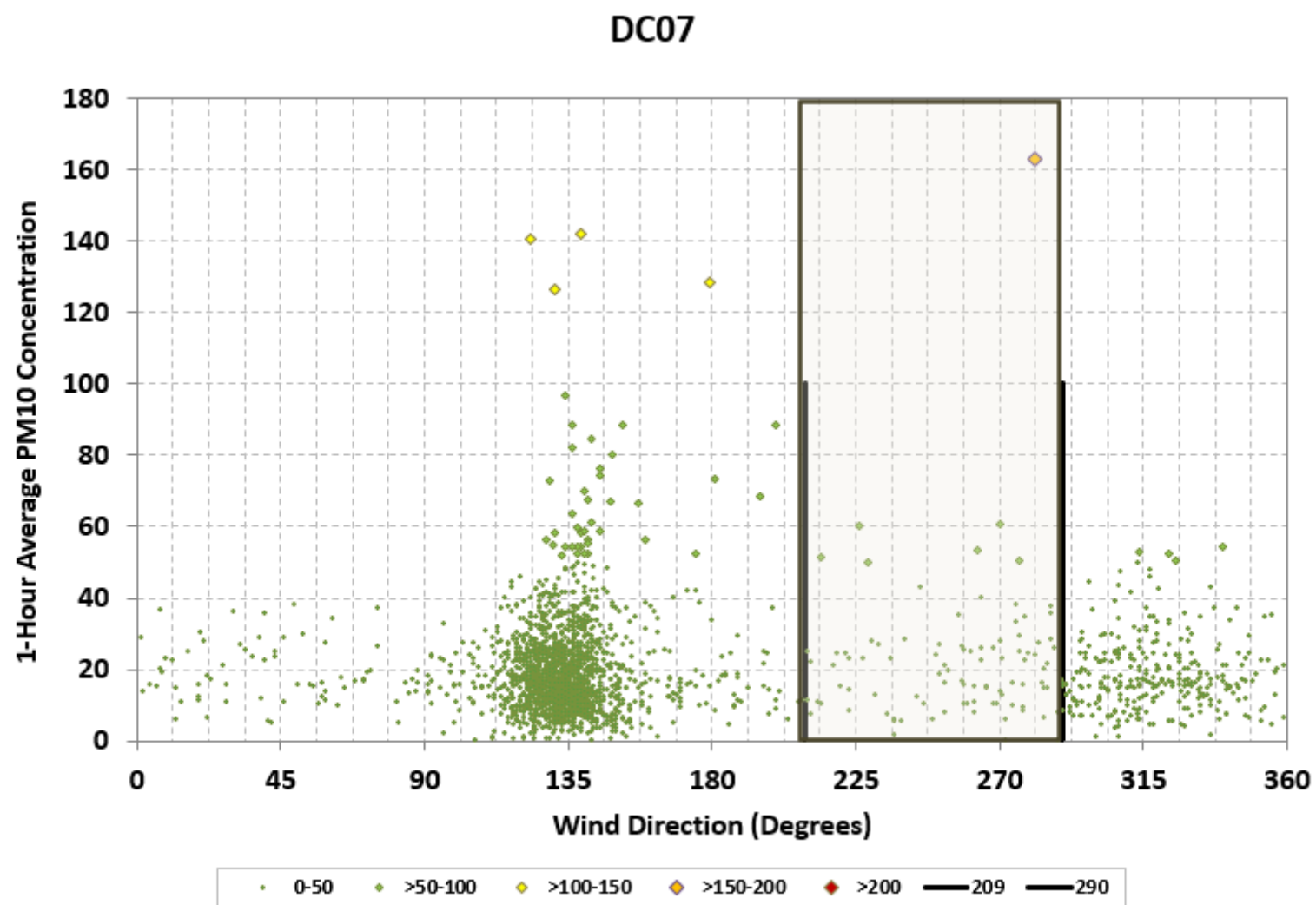


Antiene - DC07

Data capture – 100%

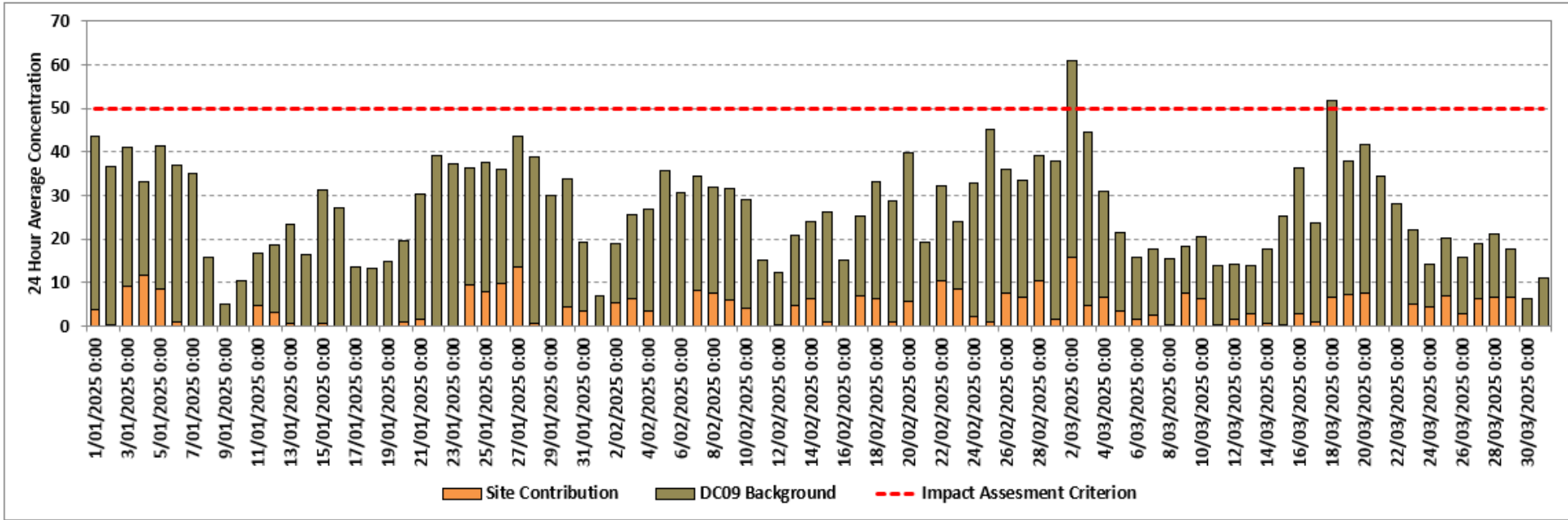


Antiene - DC07

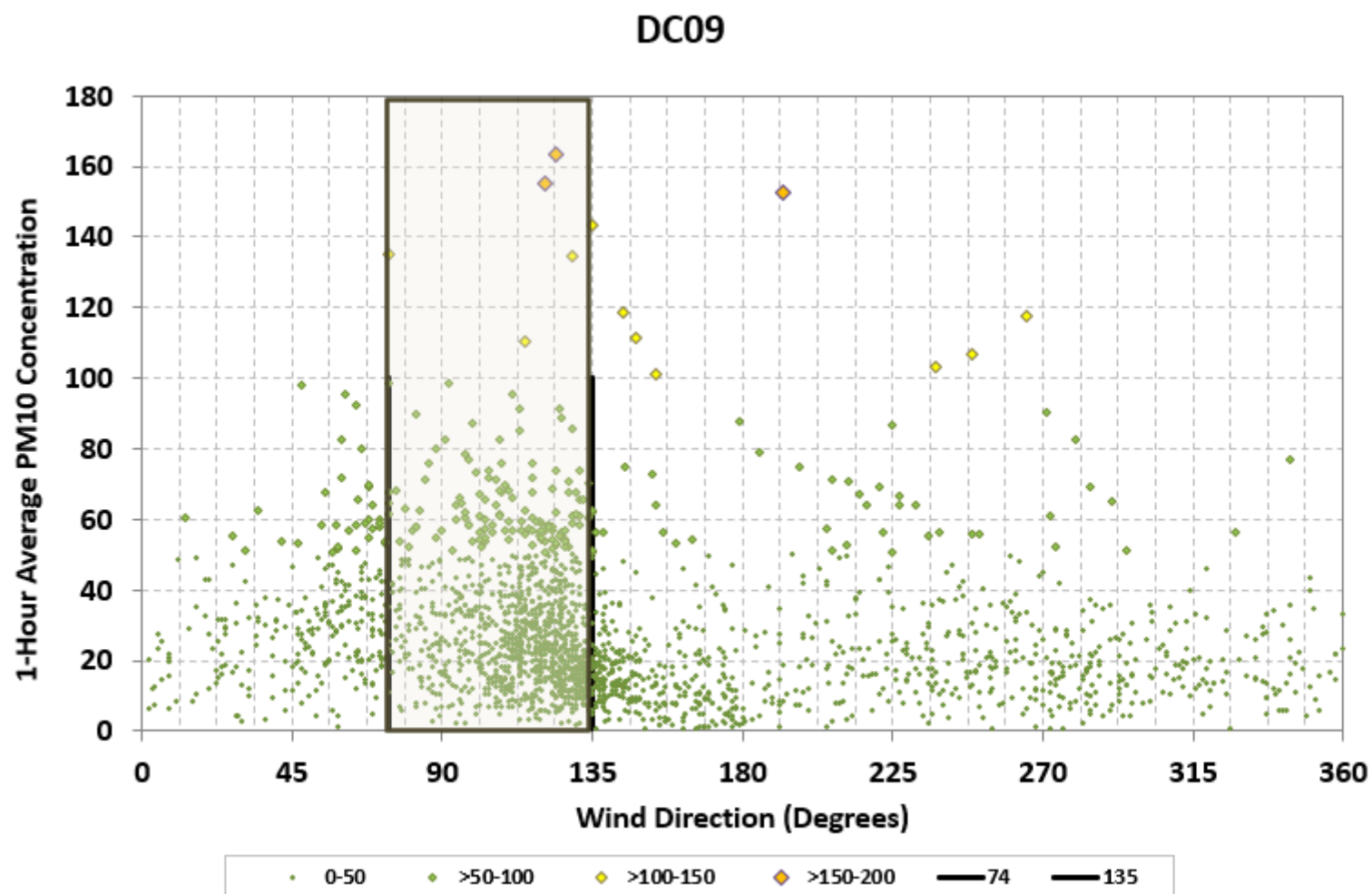


Wellbrook – DC09

Data capture – 100%

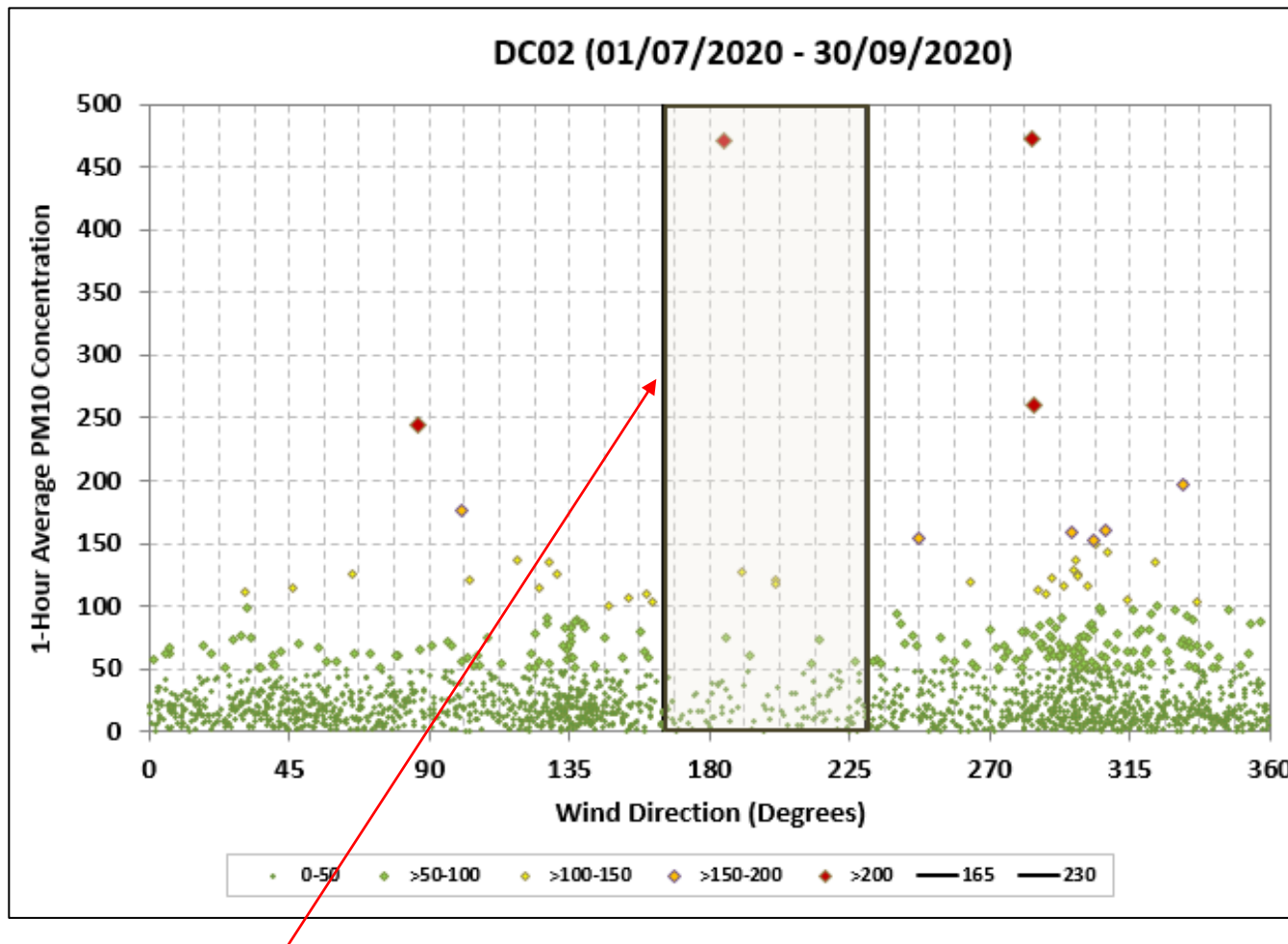


Wellbrook – DC09

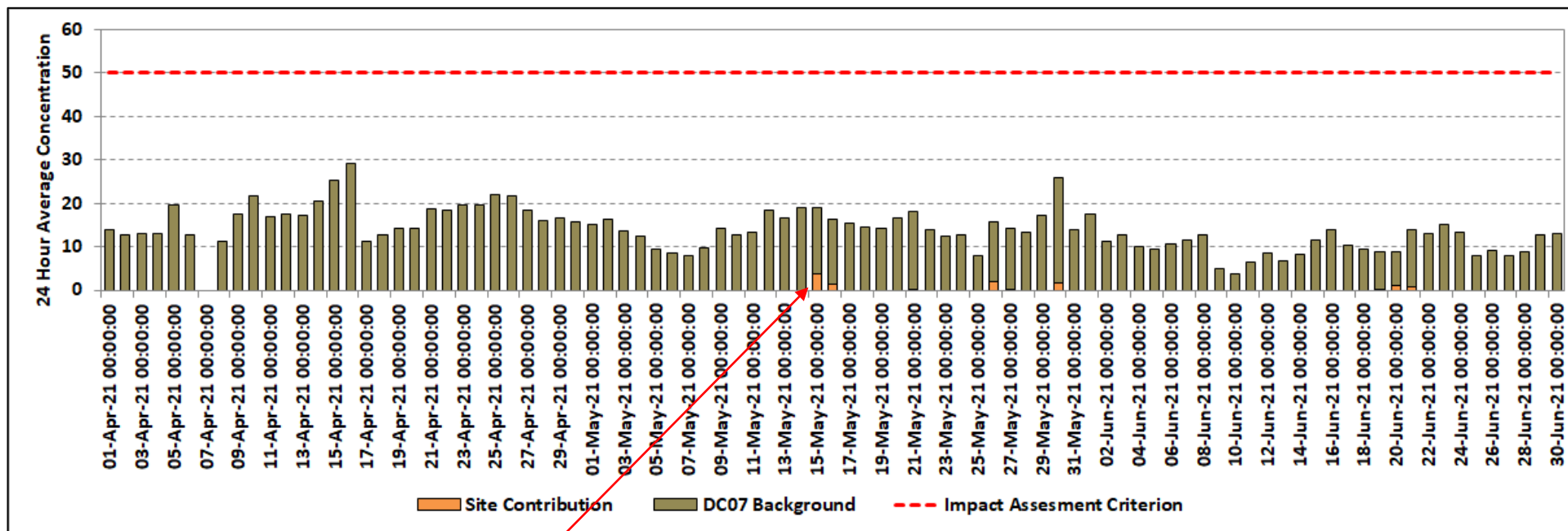


Air Quality Monitoring Interpretation Guidance

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



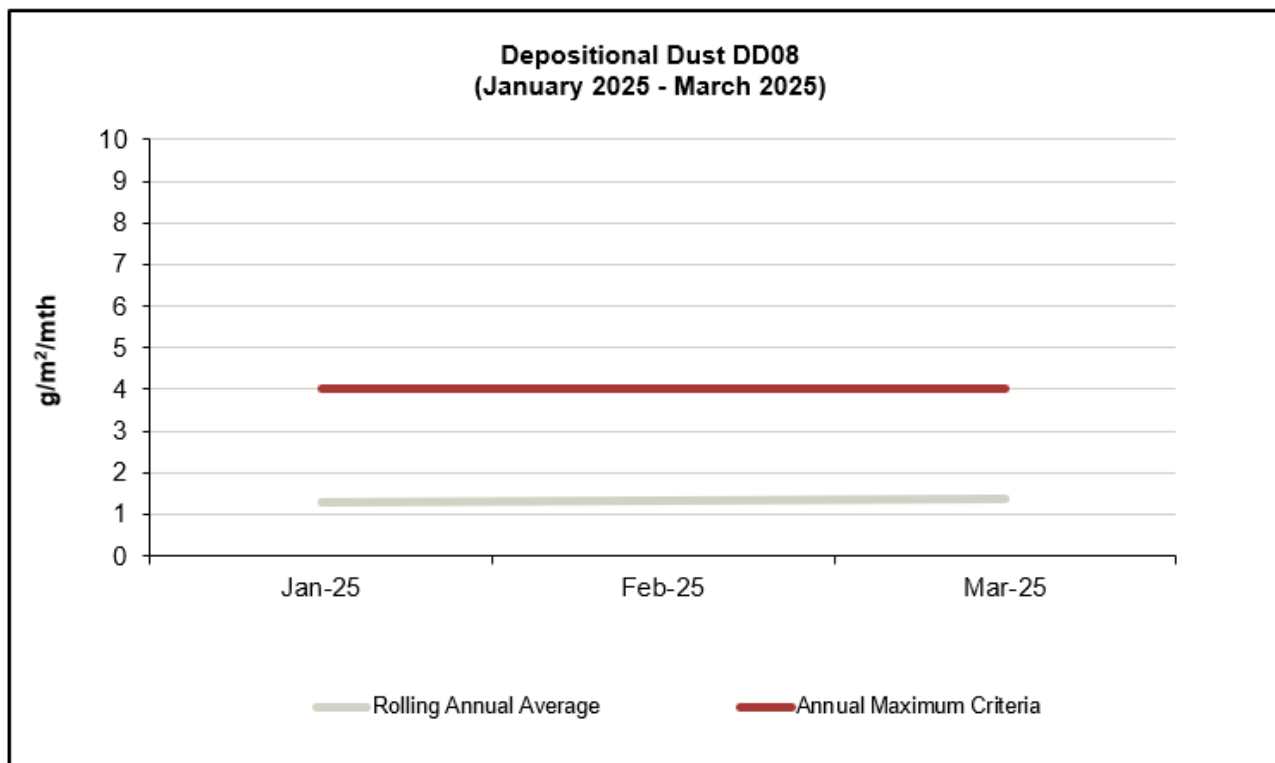
This graphic shows the window where the Mt Arthur Coal contribution is at risk of influencing the DC02 dust monitor based on the wind direction. This window can be referred to as the Arc of Influence. All 1- Hour Average Concentrations have been plotted for the reporting period to give an indication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

Air Quality Monitoring Interpretation Guidance continued

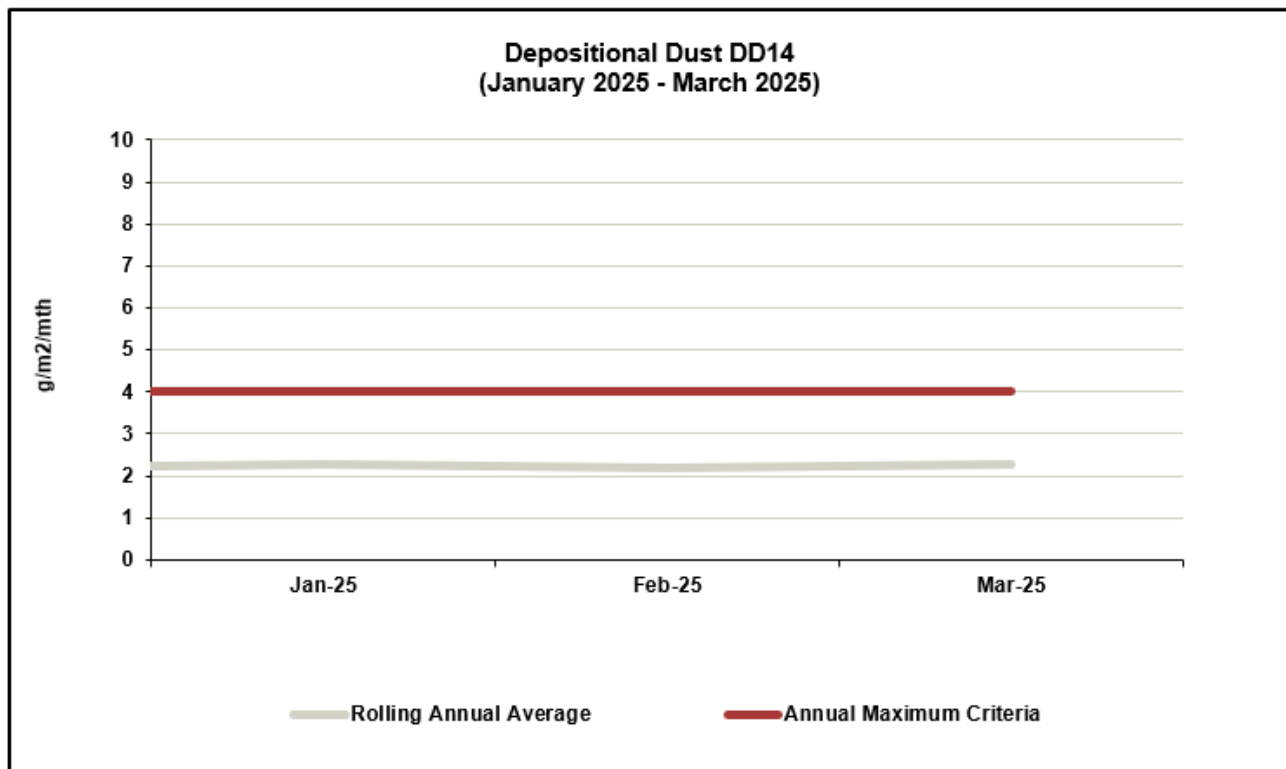
This graphic shows the cumulative Daily 24hr PM10 concentrations along with the incremental Mt Arthur Coal concentrations. This example shows that the cumulative 24hr concentration ('Background') of approximately $20\mu\text{g}/\text{m}^3$; the Mt Arthur incremental concentration ('Site Contribution')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

Deposited Dust**DD08**

Data capture – 100%

**DD14**

Data capture – 100%



Water Monitoring (1 January 2025 to 31 March 2025)*Groundwater*

Groundwater monitoring was undertaken in March 2025 with results currently being analysed. The results from the March 2025 monitoring round will be communicated at the next CCC.

The December 2024 groundwater monitoring results have 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 and will continue to be monitored.

Surface water

Surface water monitoring was conducted monthly during the three-month period. There was an exceedance of the electrical conductivity criteria in the March round of sampling at SW12 which was reported to the DPHI in line with the WMP.

Blast Monitoring (1 January 2025 to 31 March 2025)

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

There was one exceedance of the lower overpressure limit (115 dBL) reported on Friday 17 January 2025, 1:47 pm at the Edinglassie monitor (115.2 dBL). No complaints were received for this event. The exceedance of the lower limit is within the 5% of allowable exceedances for FY25 and not considered an environmental incident.

There was one exceedance of the upper overpressure limit (120dBL) reported on Thursday 2 January 2025, 3:24pm at the Sheppard Ave. The event was reported to the DPHI in line with the BMP. Subsequent investigations determined that the results were wind affected where the actual blast overpressure result (107dBL) was less than the criteria. Given this, the event is not considered an Environment incident. No complaints were received.

Operational Noise Monitoring (1 January 2025 to 31 March 2025)

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 January 2025 to 31 March 2025)Groundwater Exceedance

The groundwater monitoring that was undertaken in December 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 WMP. These exceedances were all reported to DPHI and will continue to be monitored.

Surface Water Exceedance

There was an exceedance of the electrical conductivity criteria in the March round of sampling at one surface water monitoring location (SW12) reported to the DPHI in line with the WMP.

Blast Exceedances

There were two exceedances of the allowable blast time (8am-5pm) reported on Monday 6 January 2025 (5:04:32pm) and Wednesday 26 March 2025 (5:01:26pm). Both events were reported to the EPA and DPHI in line with the BMP.

Dust Level Exceedances

HVEC recorded eleven exceedances of the impact assessment criteria on eight separate days throughout the period. Detailed investigation reports were provided to DPHI after each exceedance which outlined the project's contribution and the actions taken by the operation in line with the MAC Air Quality Management Plan. The table below provides a summary of each exceedance.

Date	Site	Absolute PM10 level (24-hr average µg/m3)	MAC Contribution (24-hr average µg/m3)	Other details
02/01/2025	DC05	20.8	14.8	No complaints. Appropriate actions taken by OCEs. Exceedance report closed out by the DPHI with no further information required.
19/02/2025	DC05	54.3	15.5	No complaints. Appropriate actions taken by OCEs. Exceedance report closed out by the DPHI with no further information required.
23/02/2025	DC05	50.7	3.3	No complaints. Appropriate actions taken by OCEs. Exceedance report closed out by the DPHI with no further information required.
24/02/2025	DC02	50.1	0.6	No complaints. Appropriate actions taken by OCEs. Exceedance report closed out by the DPHI with no further information required.
	DC05	62.6	3.2	
01/03/2025	DC05	57.2	9.3	No complaints. Appropriate actions taken by OCEs. Exceedance report closed out by the DPHI with no further information required.
	DC06	53.5	0.4	
	DC09	61.0	15.9	
02/03/2025	DC05	52.1	8.6	No complaints. Appropriate actions taken by OCEs. Exceedance report closed out by the DPHI with no further information required.
17/03/2025	DC09	51.7	6.8	No complaints. Appropriate actions taken by OCEs. Exceedance report closed out by the DPHI with no further information required.
20/03/2025	DC05	52.7	1.2	No complaints. Appropriate actions taken by OCEs. Exceedance report closed out by the DPHI with no further information required.

Environmental Reporting (1 January 2025 to 31 March 2025)

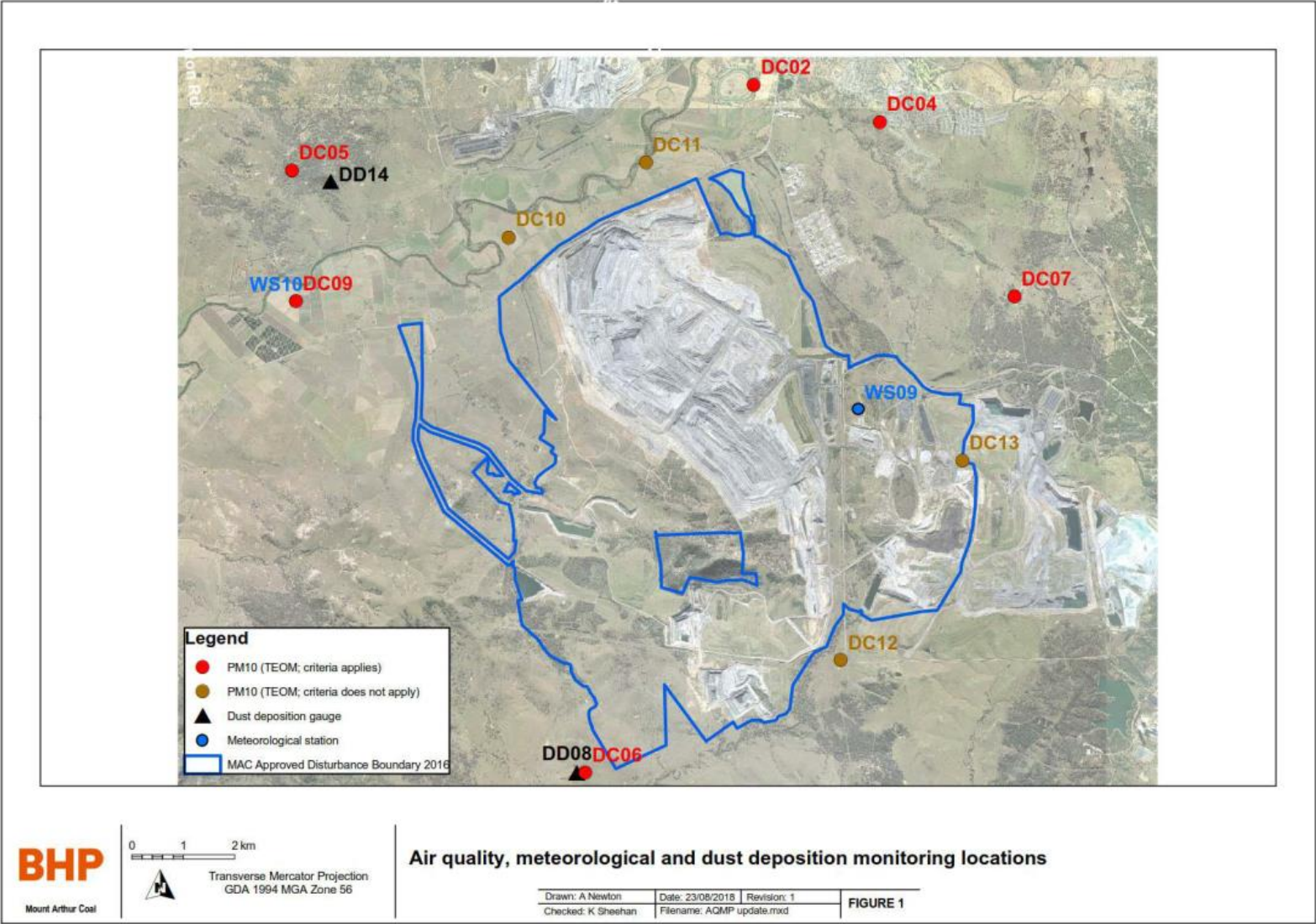
Monthly Reporting

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

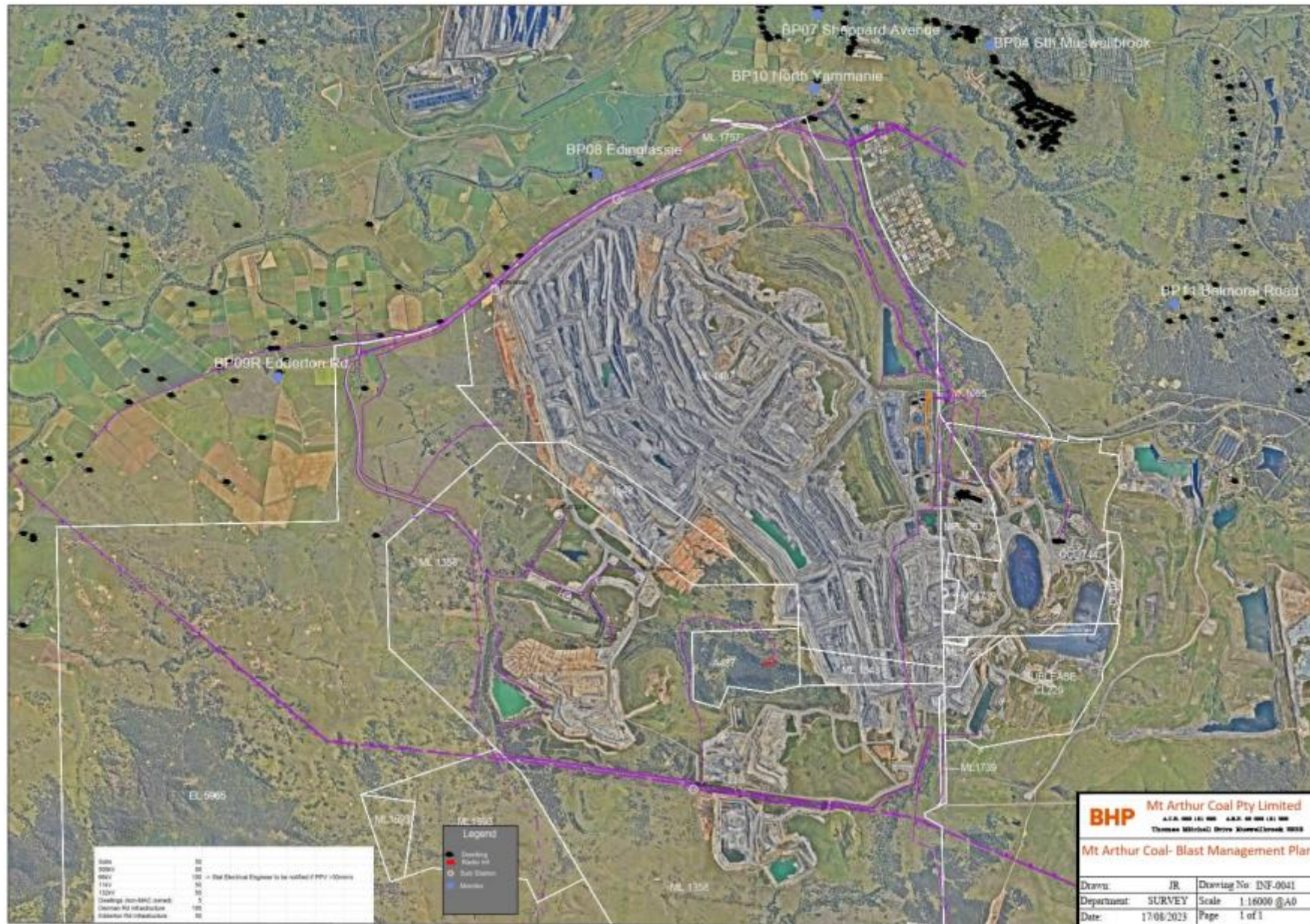
<https://www.bhp.com/sustainability/environment/regulatory-information>

Environmental Monitoring Plans (for reference)

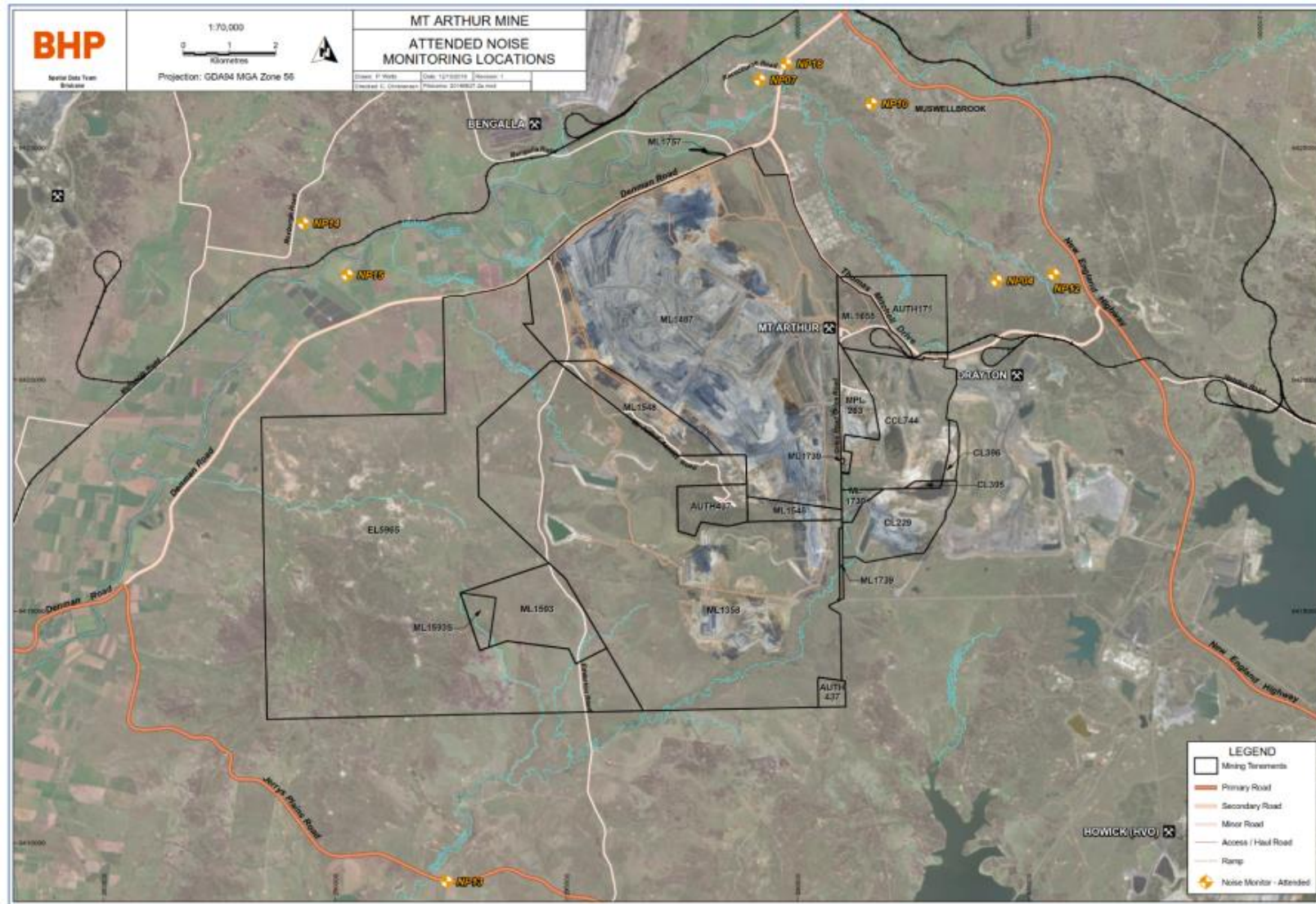
Air Quality and Meteorological Monitoring Locations (Source: Air Quality Management Plan)



Blast Monitoring Locations (Source: Blast Management Plan)

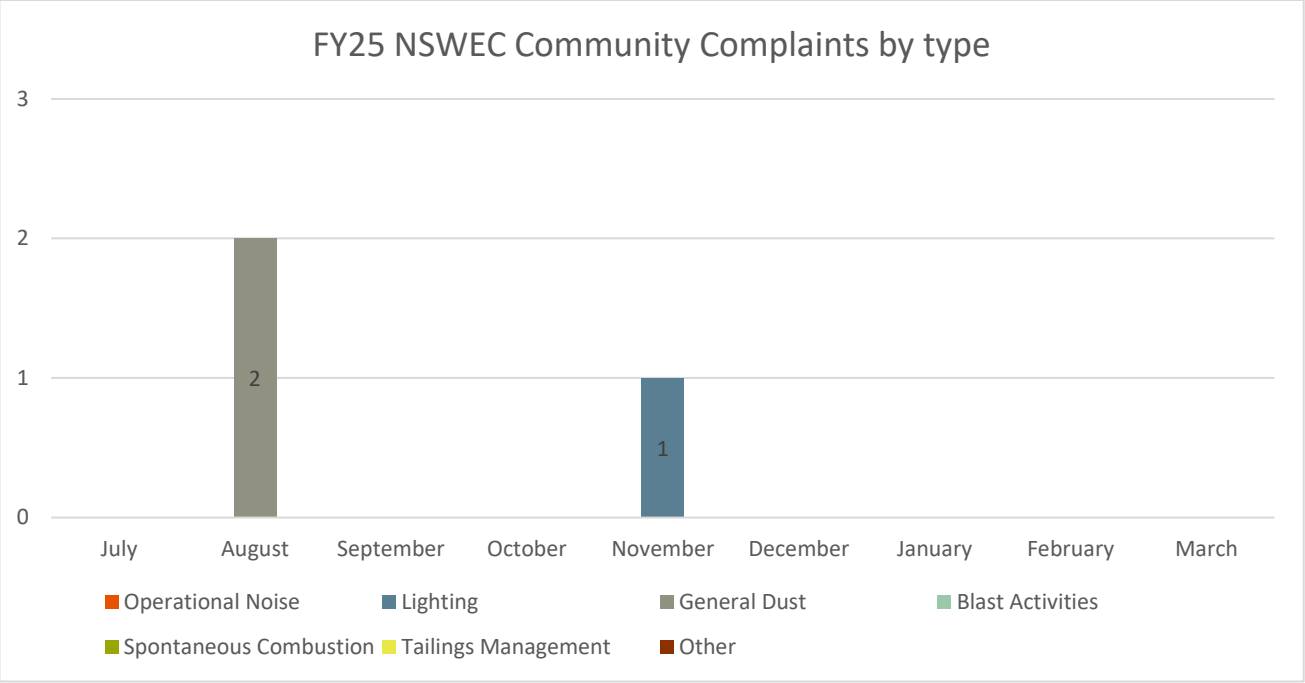


Operational Noise Monitoring (attended) Locations (Source: Noise Management Plan)



Community Complaints

The Community Complaints included in this report are for the period 1 January to 31 March 2025. Mt Arthur Coal received zero (0) complaints during this period.



Actions from previous meeting/s

The actions from previous meetings are listed below.

Action	Status
Actions from 10 November 2021 meeting	
Action 1: WP and JM to liaise regarding commencing a process for recruiting more community and stakeholder group members for MAC CCC.	To be completed
Action 2: JM to circulate the flyer on Tree Planting Day with CCC.	Complete – shared at the conclusion of the Feb meeting
Action 3: JM to circulate MAC's Earthquake statements with CCC	Complete – shared at the conclusion of the Feb meeting
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