

Mt Arthur Coal Community Consultative Committee

Planned meeting date:

15 May 2024

Information provided:

1 Jan 2024 to 31 Mar 2024

Environmental Management

FY24 Rehabilitation Update



The rehabilitation target for the FY24 year is 145ha. 39ha of the OOPD was topsoiled and seeded with a pasture species mix during the reporting period bringing the total area seeded to 47ha for FY24. Bulk shaping at the Visual Dump 5 (VD5) was ongoing throughout the reporting period.

Land Management

Weed treatment continues to focus on the species within the table below. MAC has been in contact with local weed management officials to ensure there is alignment on focus species. Work in the following areas was completed during the reporting period:

- Drayton Void – exotic grasses. Reduced density noticed.
- VD4/5 – exotic grasses, inkweed, galinea and box thorn.
- OOPD – follow up spraying of exotic grasses. Reduced density noticed.
- VD1 – slashing and spraying of exotic grasses, spraying Blue heliotrope.
- NCC TSF – Pampas Grass.

Species	Common Name
<i>Cortaderia selloana</i>	Pampas Grass
<i>Galenia pubescens</i>	Galenia (Carpet Weed)
<i>Heliotropium amplexicaule</i>	Blue Heliotropium
<i>Hyparrhenia hirta</i>	Coolatai Grass
<i>Lycium ferocissimum</i>	African Box Thorn
<i>Phytolacca octandra</i>	Inkweed

Environmental Performance

Air Quality Monitoring (1 January 2024 to 31 March 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 12 times at statutory TEOM monitoring sites over 10 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 most events, requiring no further actions. Only 3 of those are waiting for a response from NSW Planning.

- 22 January at Roxburgh Rd – DC05
 - 2 February at Roxburgh Rd – DC05
 - 3 February at Roxburgh Rd – DC05
 - 4 February at Edderton Rd – DC06
 - 5 February at Edderton Rd – DC06 and Wellbrook – DC09
 - 17 February at Roxburgh Rd – DC05
 - 3 March at Sheppard Avenue – DC02
 - 7 March at Roxburgh Rd – DC05
 - 13 March at Roxburgh Rd – DC05, Edderton Rd – DC06 and Wellbrook – DC09
 - 26 March at Roxburgh Rd – DC05
- 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.

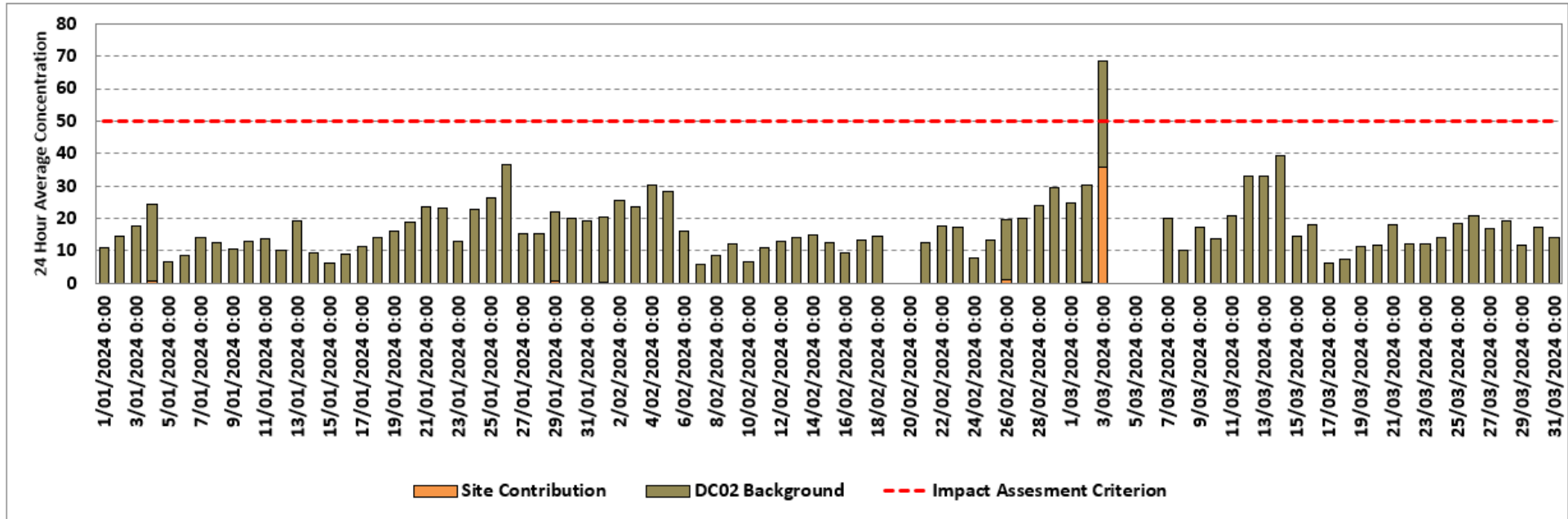
Table 1. Equipment Performance Summary

Site	Date/s	Reason
DC02	19/02/2024, 20/02/2024, 04/03/2024 to 06/03/2024	During the period listed <75% data captured due to power or equipment connectivity issues.
DC04	19/03/2024	During the period listed <75% data captured due to equipment connectivity issues.
DC09	09/01/2024	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.

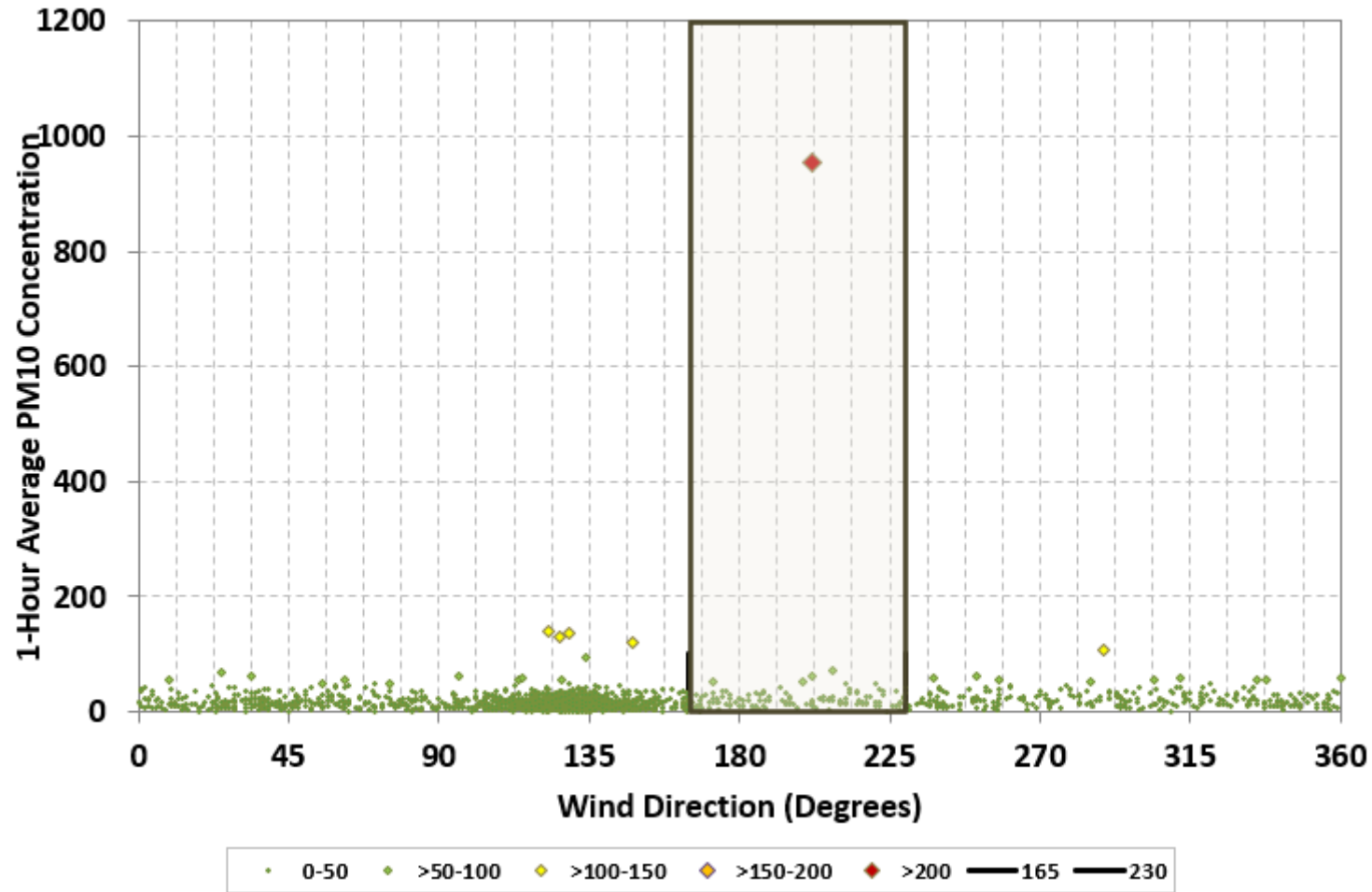
Sheppard Avenue – DC02

Data capture – 94.51%



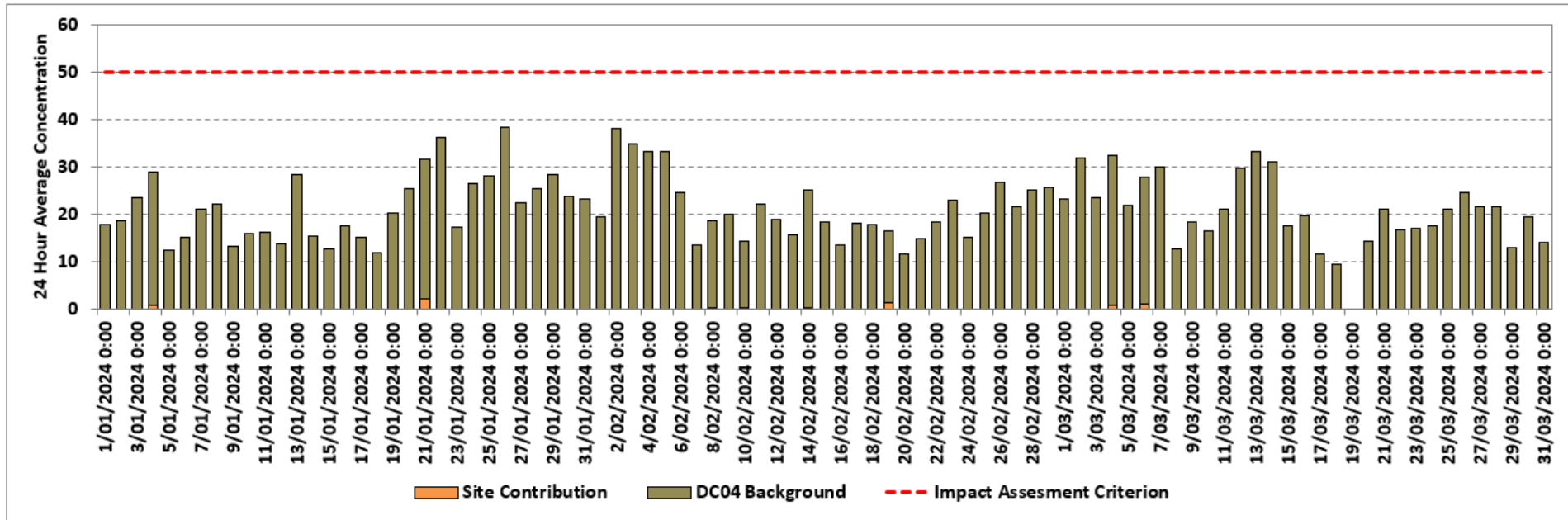
Sheppard Avenue – DC02

DC02

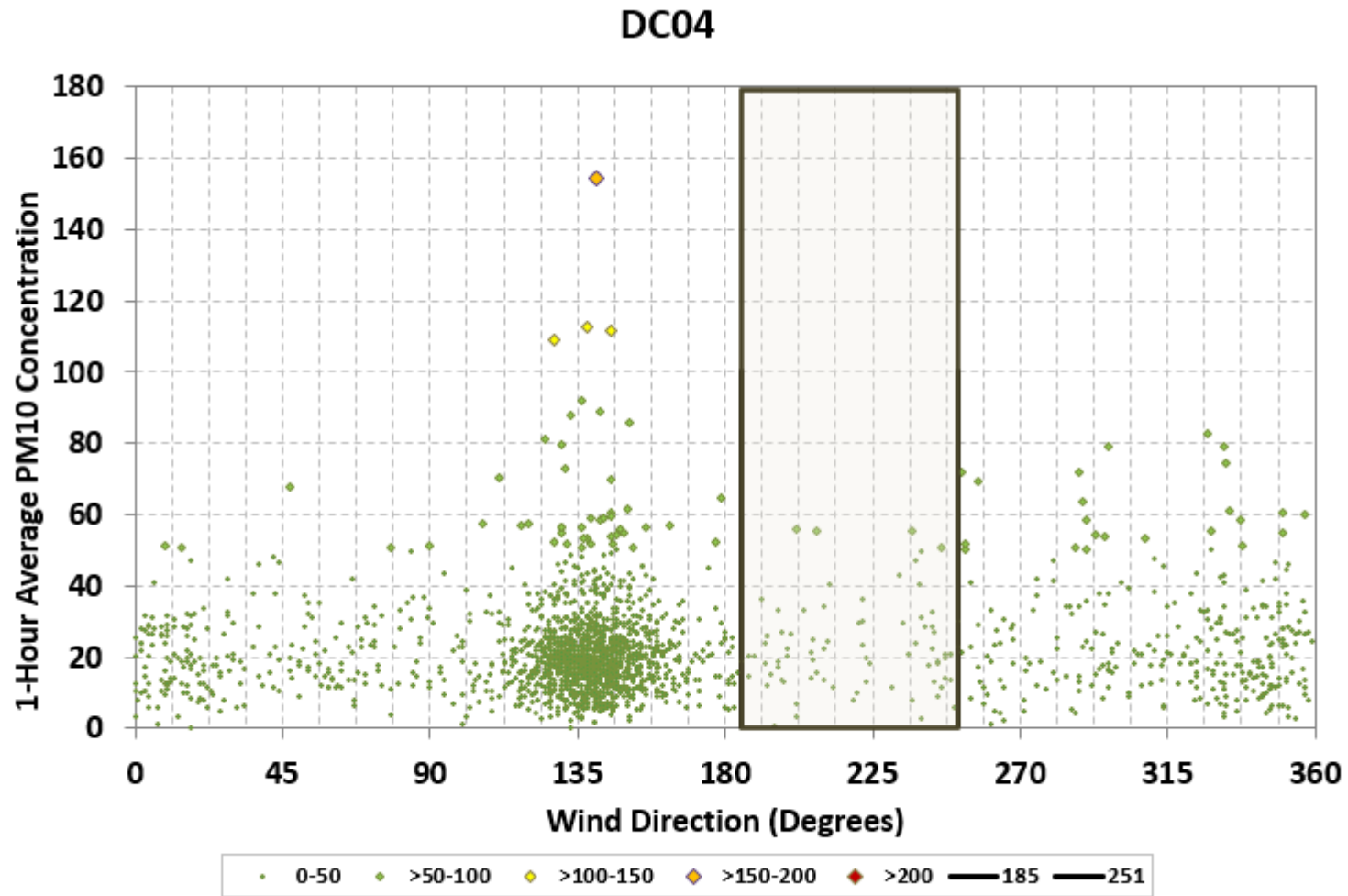


South Muswellbrook – DC04

Data capture – 98.9%

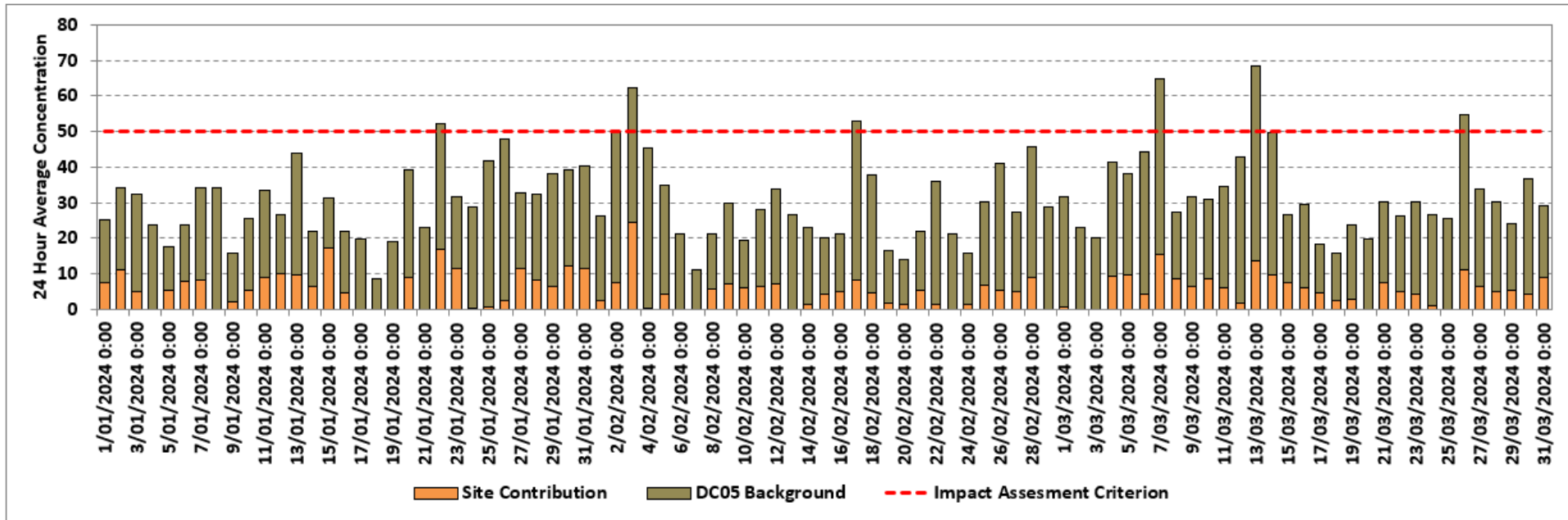


South Muswellbrook – DC04

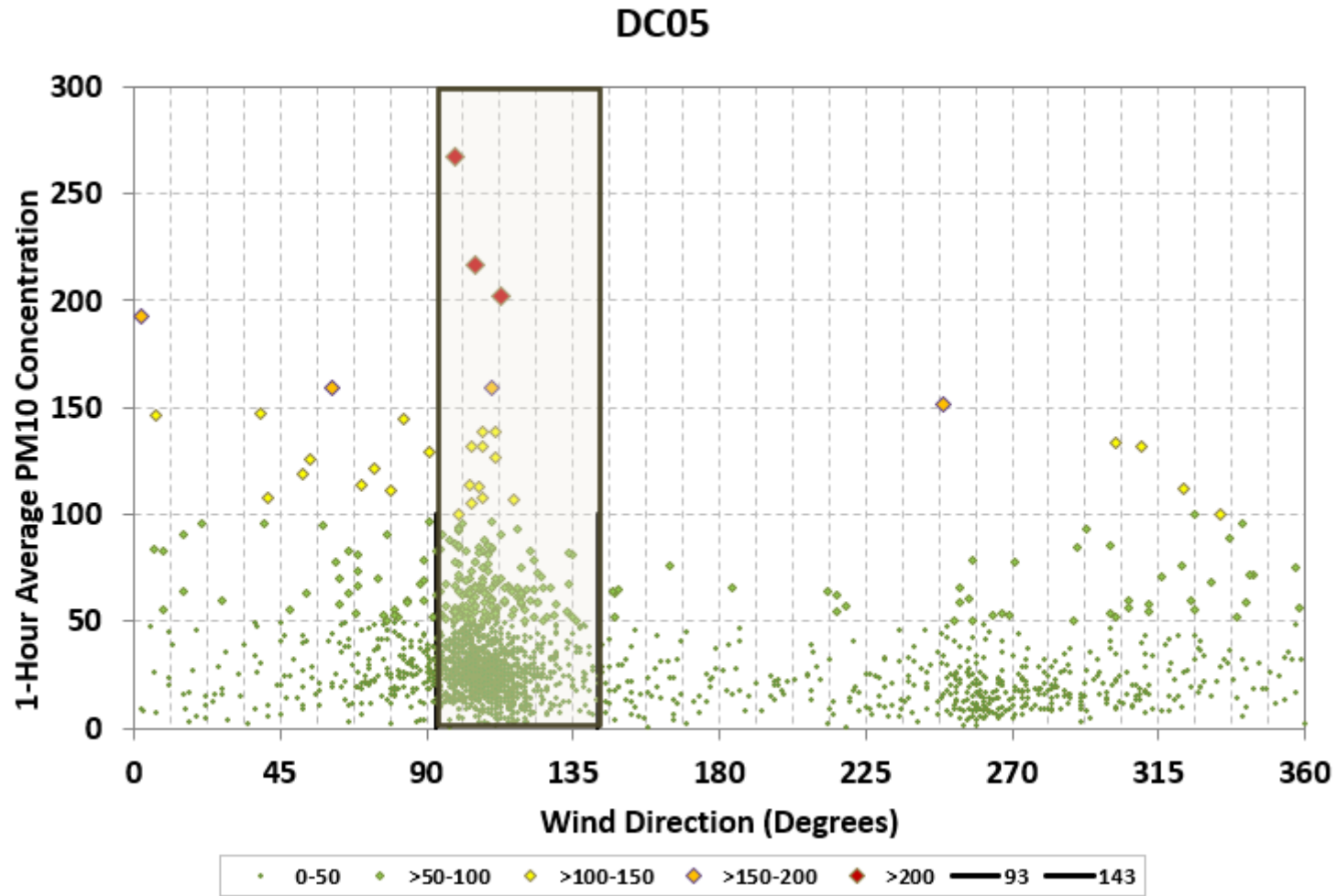


Roxburgh Road – DC05

Data capture – 100%

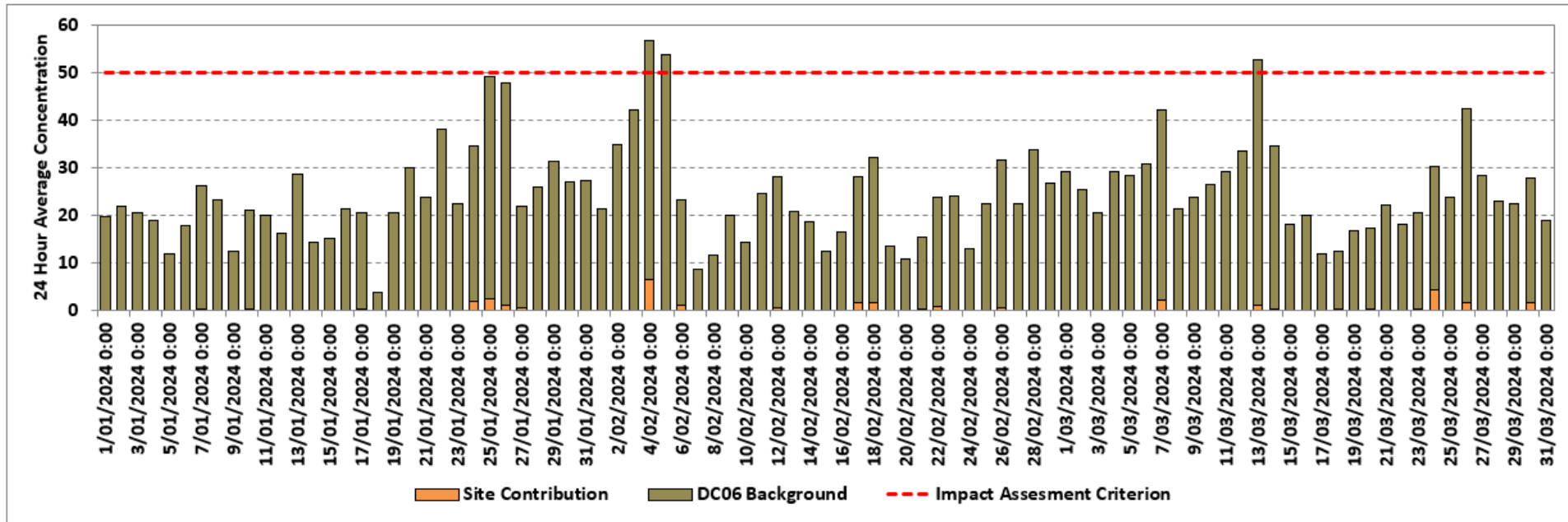


Roxburgh Road – DC05

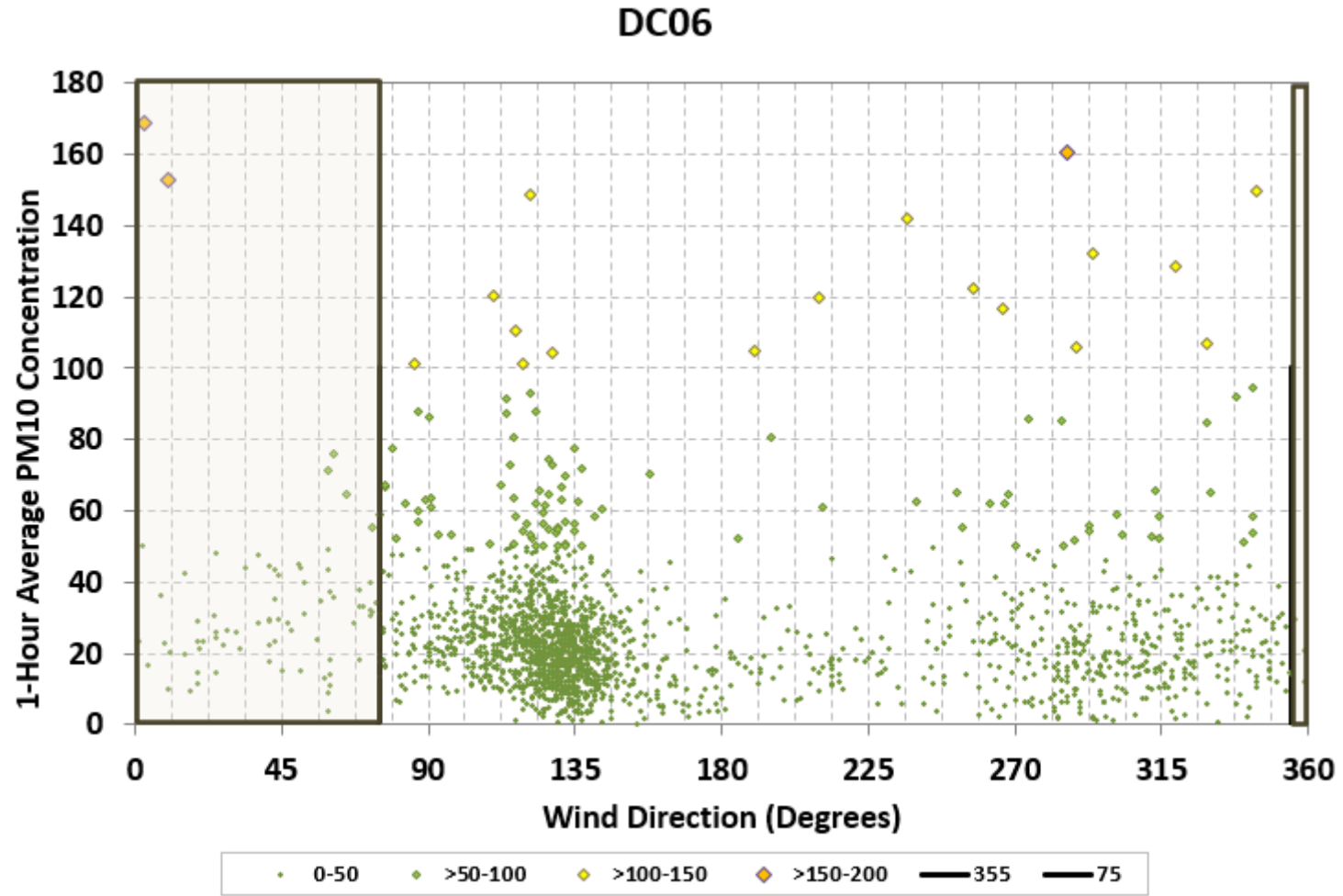


Edderton Homestead - DC06

Data capture – 100%

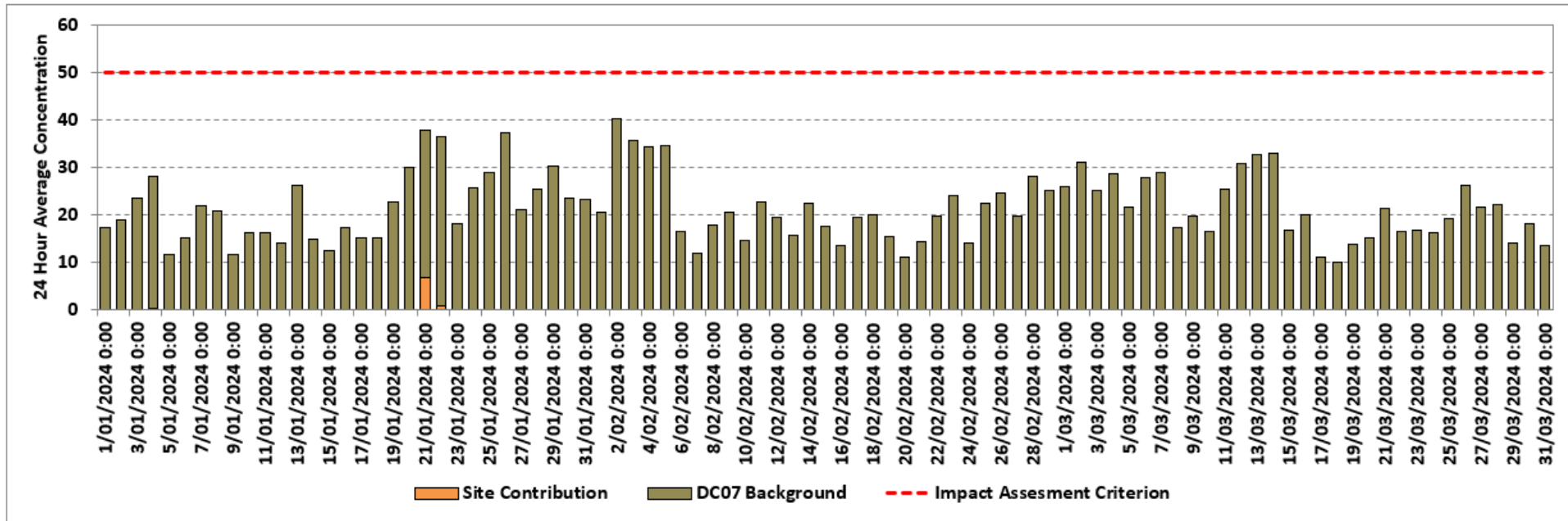


Edderton Homestead - DC06

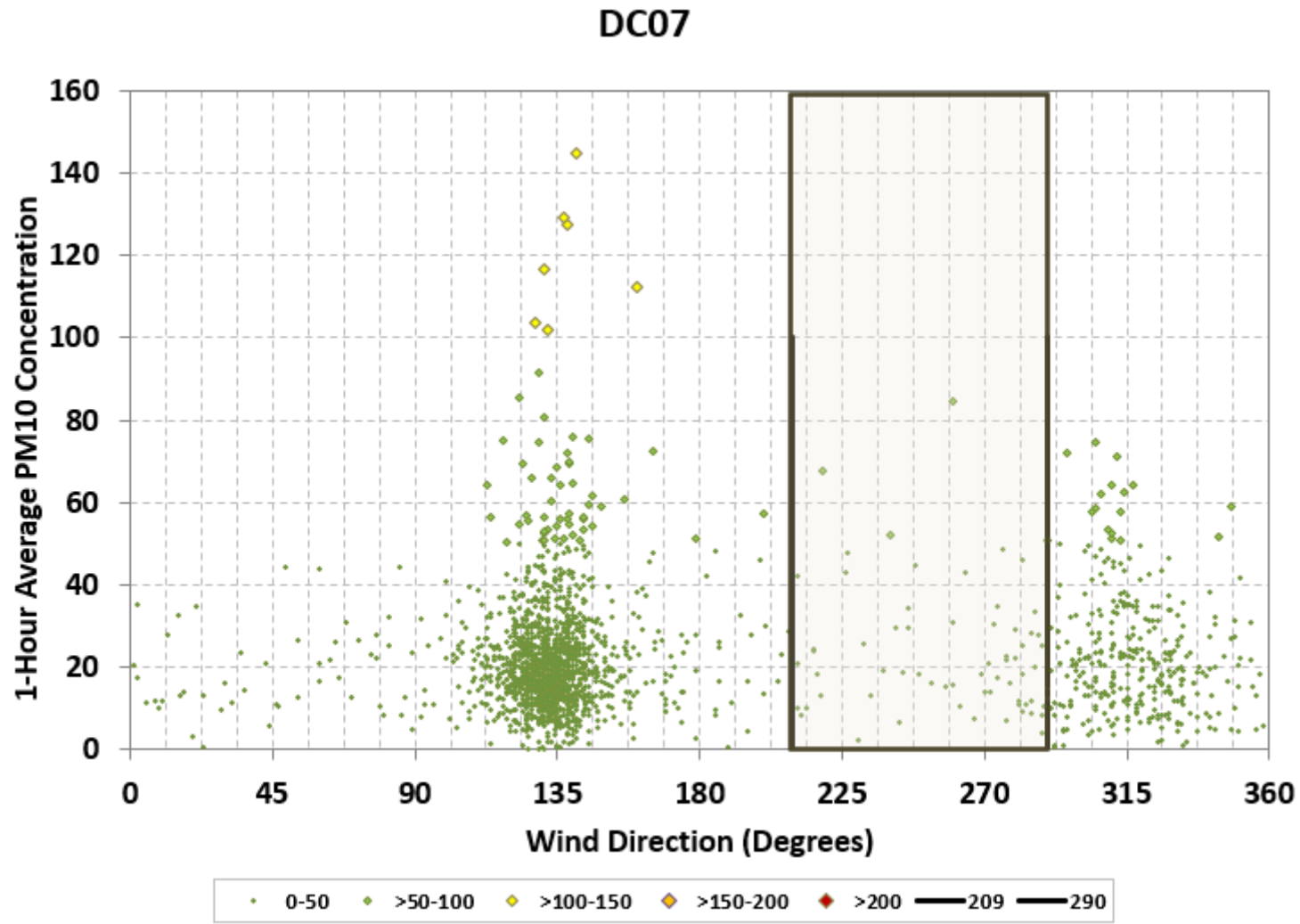


Antiene - DC07

Data capture – 100%

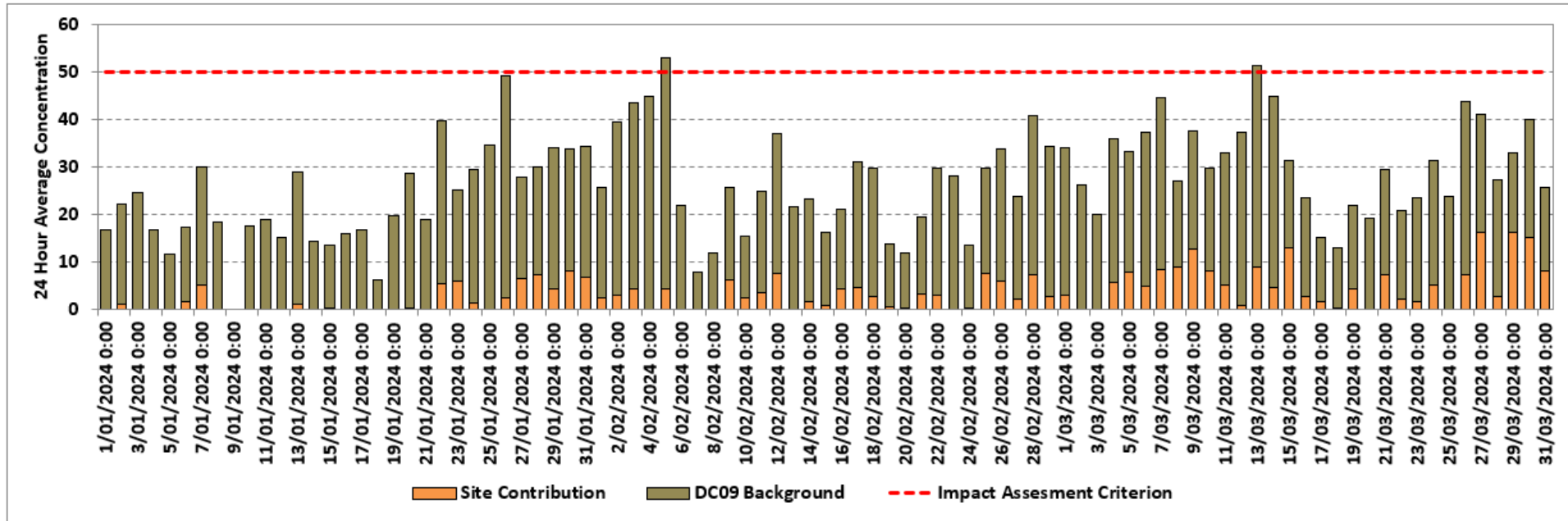


Antiene - DC07

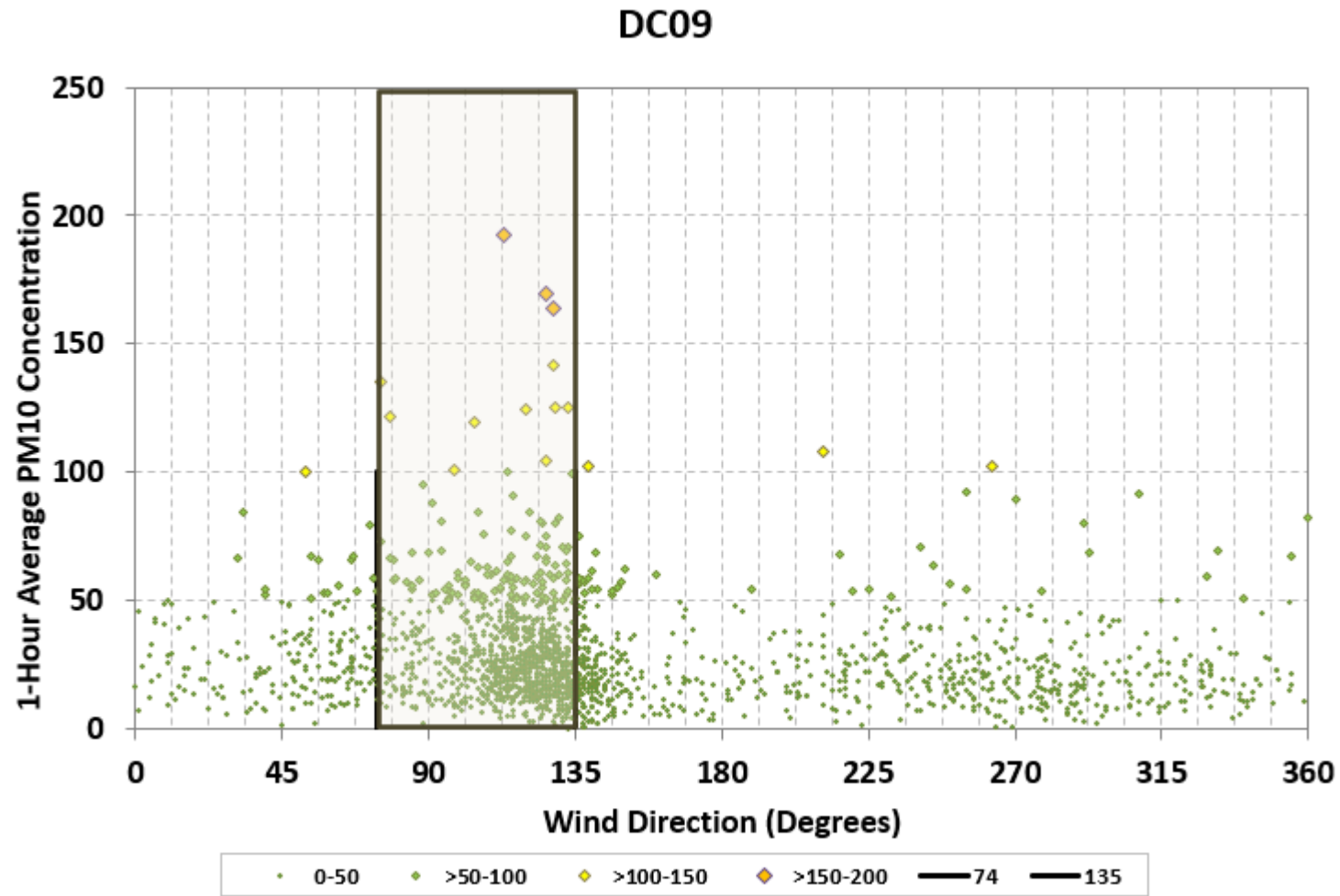


Wellbrook – DC09

Data capture – 98.9%

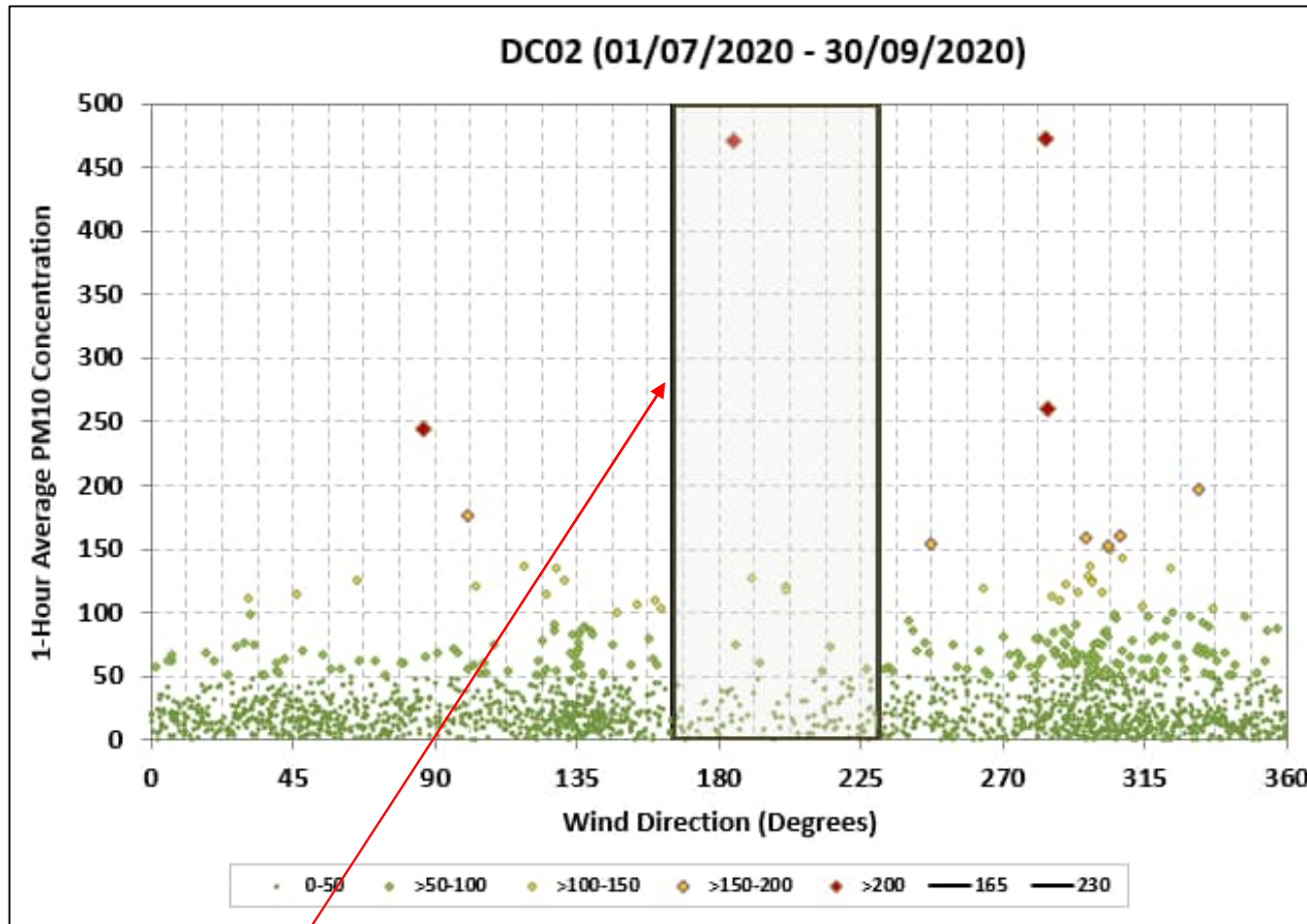


Wellbrook – DC09



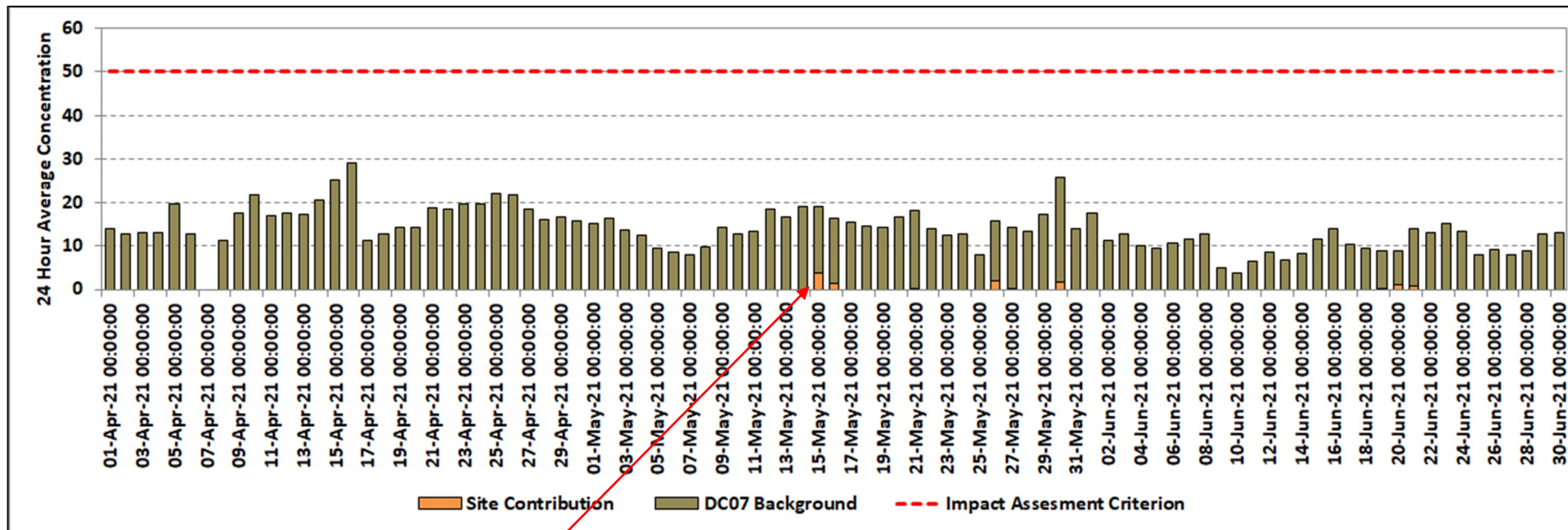
Air Quality Monitoring Interpretation Guidance

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.

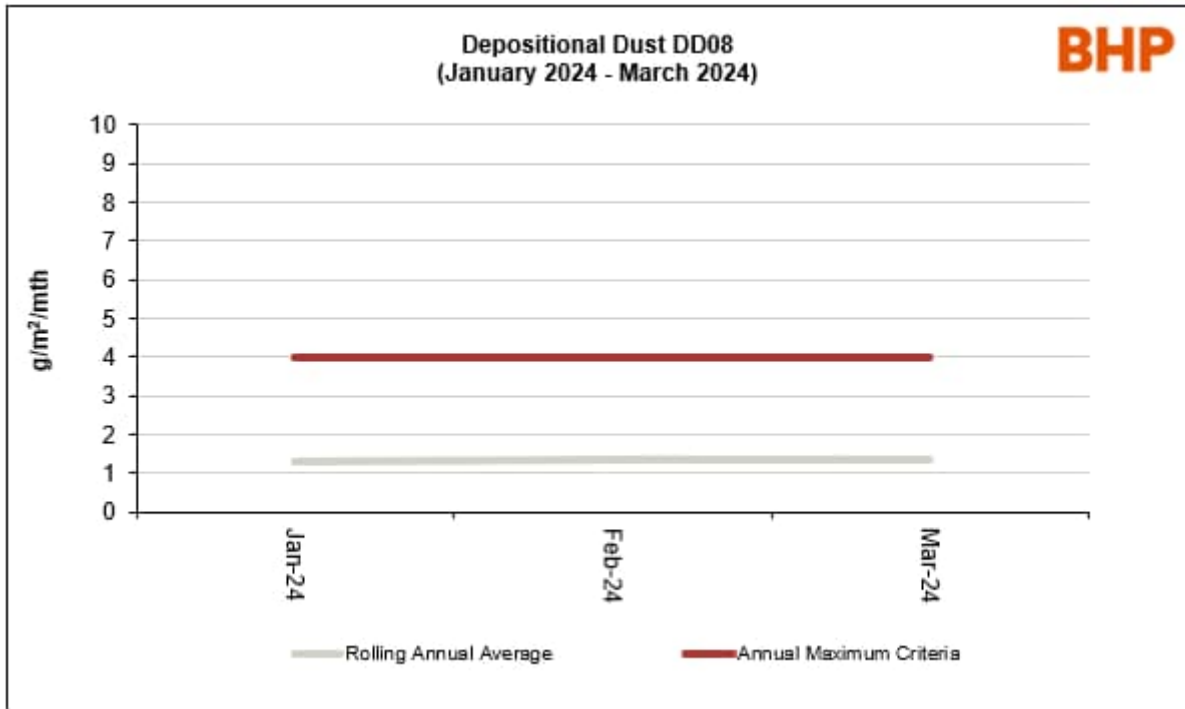
Air Quality Monitoring Interpretation Guidance continued



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.

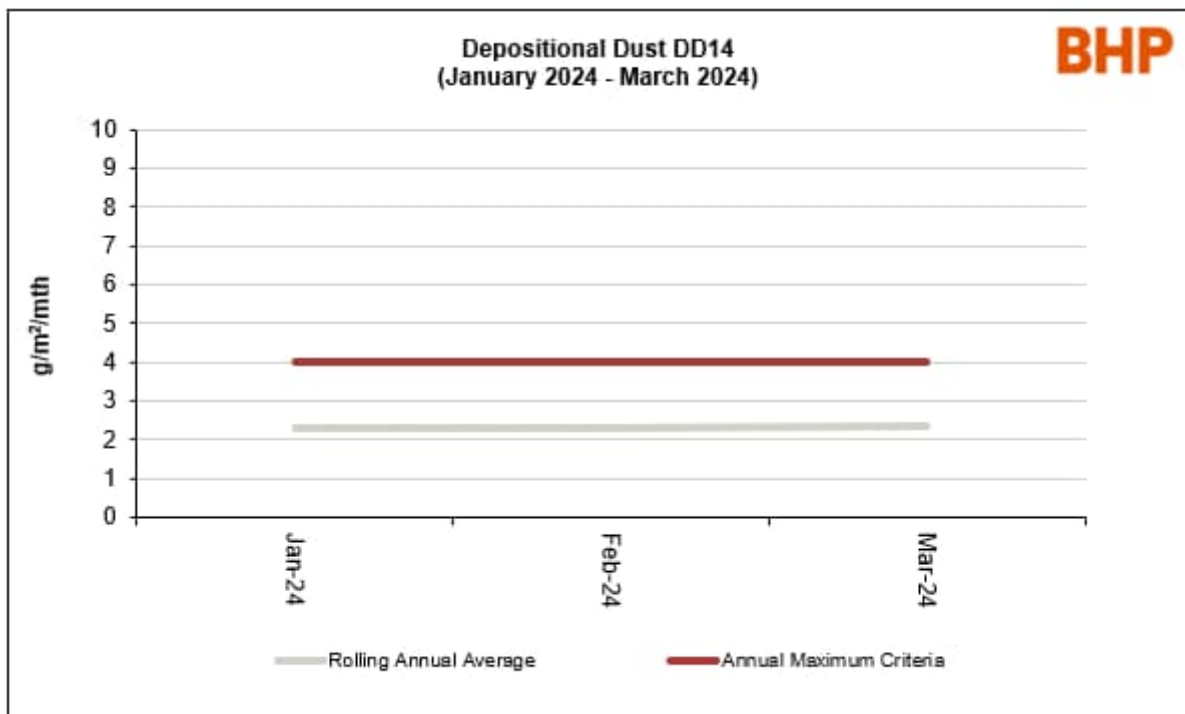
**Deposited Dust
DD08**

Data capture – 100%



DD14

Data capture – 100%



Water Monitoring (1 January 2024 to 31 March 2024)

Groundwater

Groundwater monitoring was undertaken in March 2024 with results currently being analysed. Results from the March 2024 monitoring round will be communicated at the next CCC. The groundwater monitoring that was undertaken in December 2023 has been analysed with level exceedances detected at VWP07_418 AND VWP X1_S-2 and a pH exceedance at X14MB-2D. These exceedances were all reported to DPE and are awaiting a response.

Surface water

Surface water monitoring was conducted monthly during the three-month period. An exceedance of Electrical Conductivity (EC) was recorded at SW12 monitoring site in the January 2024 monitoring round. An investigation was undertaken and this investigation report satisfied the reporting requirements of the consent and the approved WMP, with DPE advising that no further information or action is required.

Blast Monitoring (1 January 2024 to 31 March 2024)

There were no exceedances of the upper or lower vibration limits or upper or lower overpressure limits during the reporting period.

Operational Noise Monitoring (1 January 2024 to 31 March 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 January 2024 to 31 March 2024)

Surface Water Exceedance

There was one occurrence within the reporting period whereby a surface water monitoring site (SW12) exceeded the electrical conductivity (EC) Stage 2 trigger level. This event was investigated accordingly, resulting in the determination that MAC operations was not a contributing factor. It was deemed that the current period of low rainfall, and subsequent low/absent flow events were contributing factors to the elevated EC levels at SW12. The investigation was provided to the DPE with the event closed out and no further action required.

Groundwater Exceedance

The groundwater monitoring that was undertaken in December 2023 has been analysed with level exceedances detected at VWP07_418 AND VWP X1_S-2 and a pH exceedance at X14MB-2D. These exceedances were all reported to DPE and are awaiting a response.

Dust Level Exceedances

HVEC recorded 12 exceedances of the impact assessment criteria on 10 separate days throughout the period. Detailed investigation reports were provided to DPE 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
22/01/2024	DC05	52.3	16.8	No complaints. Appropriate actions taken by OCEs. Exceedance report closed out by the DPE with no further information required.
02/02/2024	DC05	50.2	7.4	No complaints. Appropriate actions taken by OCEs. Exceedance report closed out by the DPE with no further information required.
03/02/2024	DC05	62.5	24.4	No complaints. Appropriate actions taken by OCEs. Exceedance report closed out by the DPE with no further information required.
04/02/2024	DC06	56.7	6.4	No complaints. Appropriate actions taken by OCEs. Exceedance report closed out by the DPE with no further information required.
05/02/2024	DC06	53.7	0.0	No complaints. Appropriate actions taken by OCEs. Exceedance report closed out by the DPE with no further information required.
	DC09	52.9	4.4	
17/02/2024	DC05	53	8.4	No complaints. Appropriate actions taken by OCEs. Exceedance report closed out by the DPE with no further information required.
03/03/2024	DC02	68.4	35.8	No complaints. Appropriate actions taken by OCEs. Exceedance report closed out by the DPE with no further information required.
07/03/2024	DC05	64.8	15.4	No complaints. Appropriate actions taken by OCEs.
13/03/2024	DC05	68.6	13.6	No complaints. Appropriate actions taken by OCEs.
	DC06	52.7	1.0	
	DC09	51.3	9.0	
26/03/2024	DC05	54.9	11.0	No complaints. Appropriate actions taken by OCEs.

Environmental Reporting (1 January 2024 to 31 March 2024)

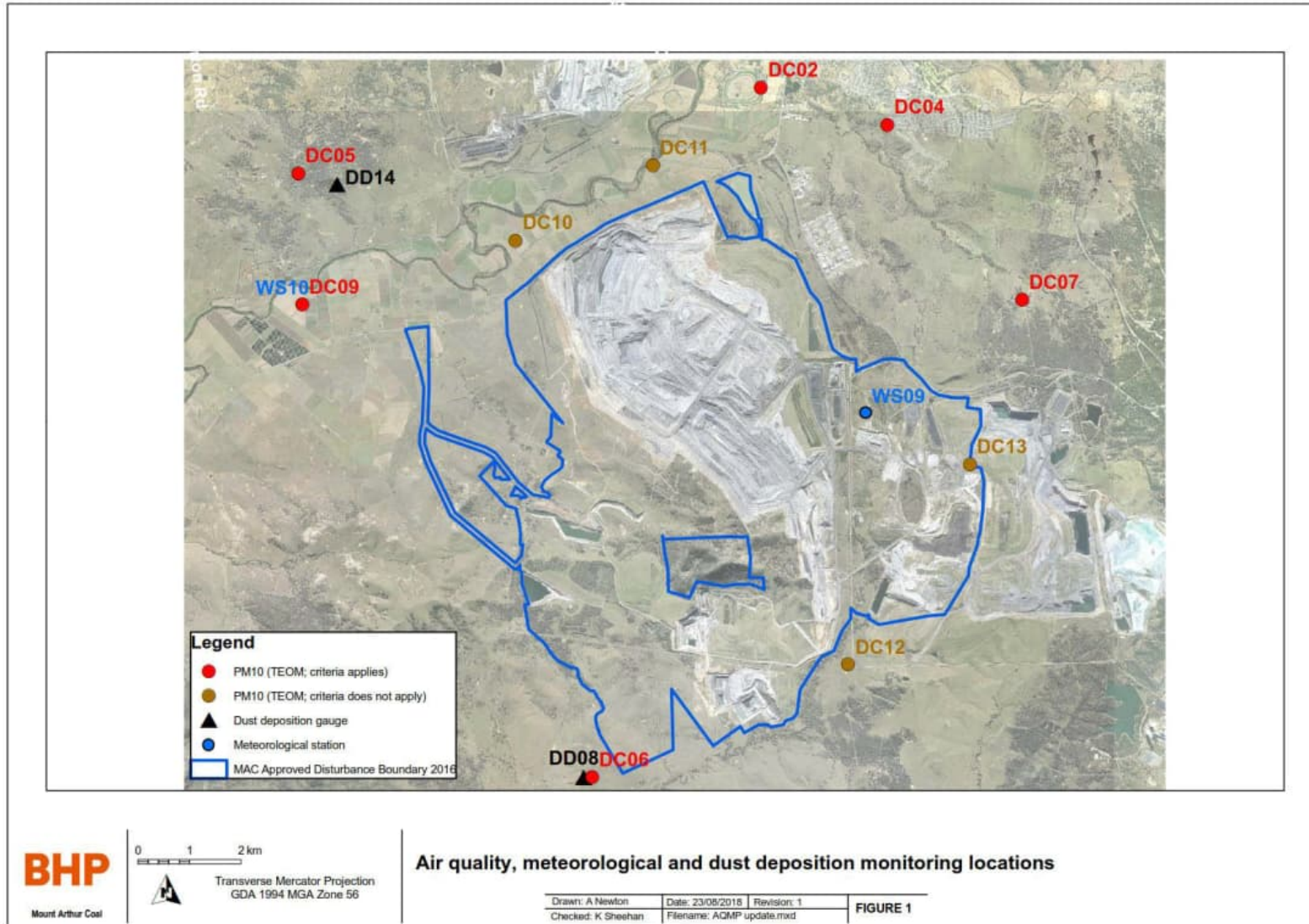
Monthly Reporting

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

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

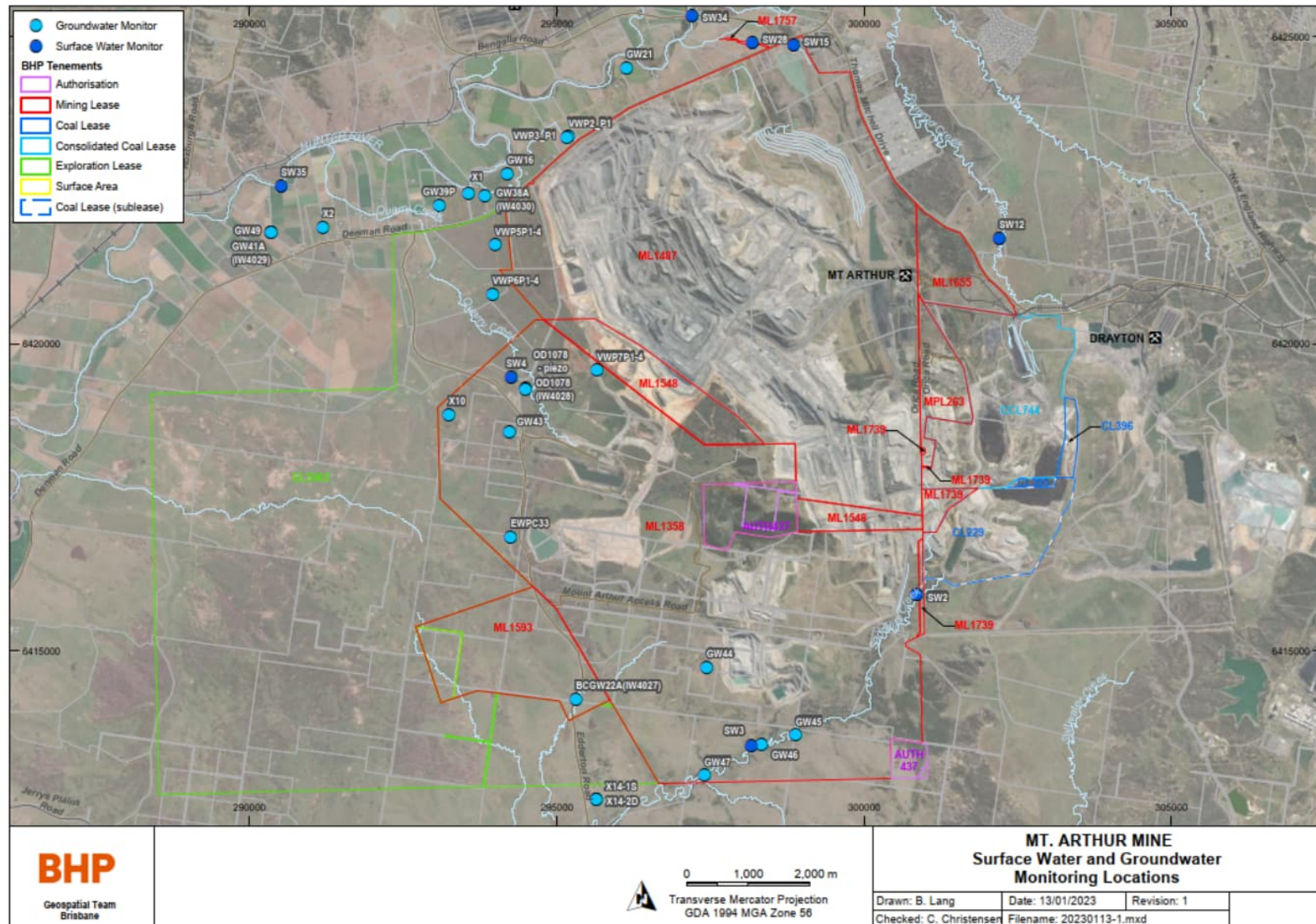
Environmental Monitoring Plans (for reference)

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



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

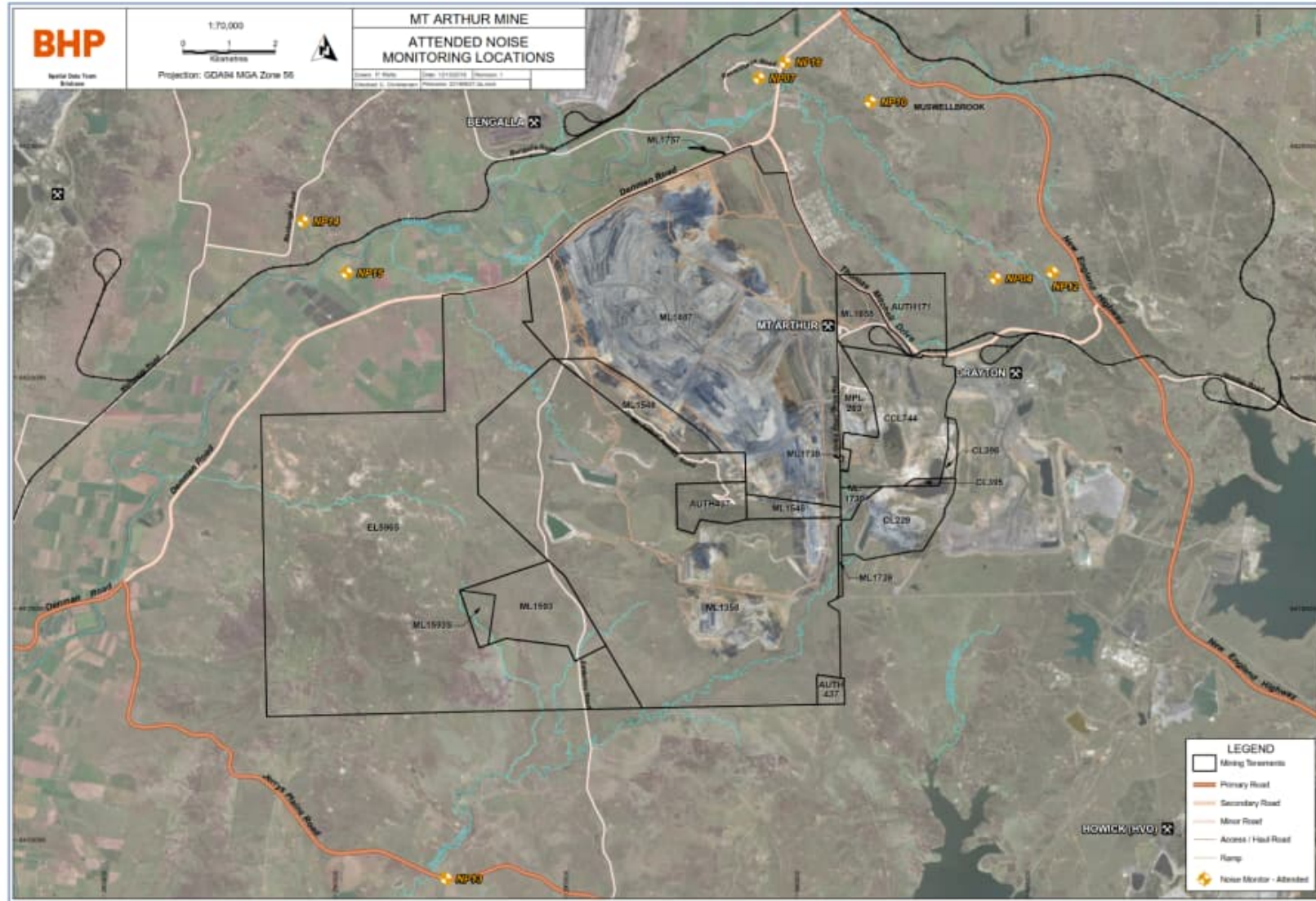
Surface Water and Ground Water Monitoring Locations:



Blast Monitoring Locations (Source: Blast Management Plan)

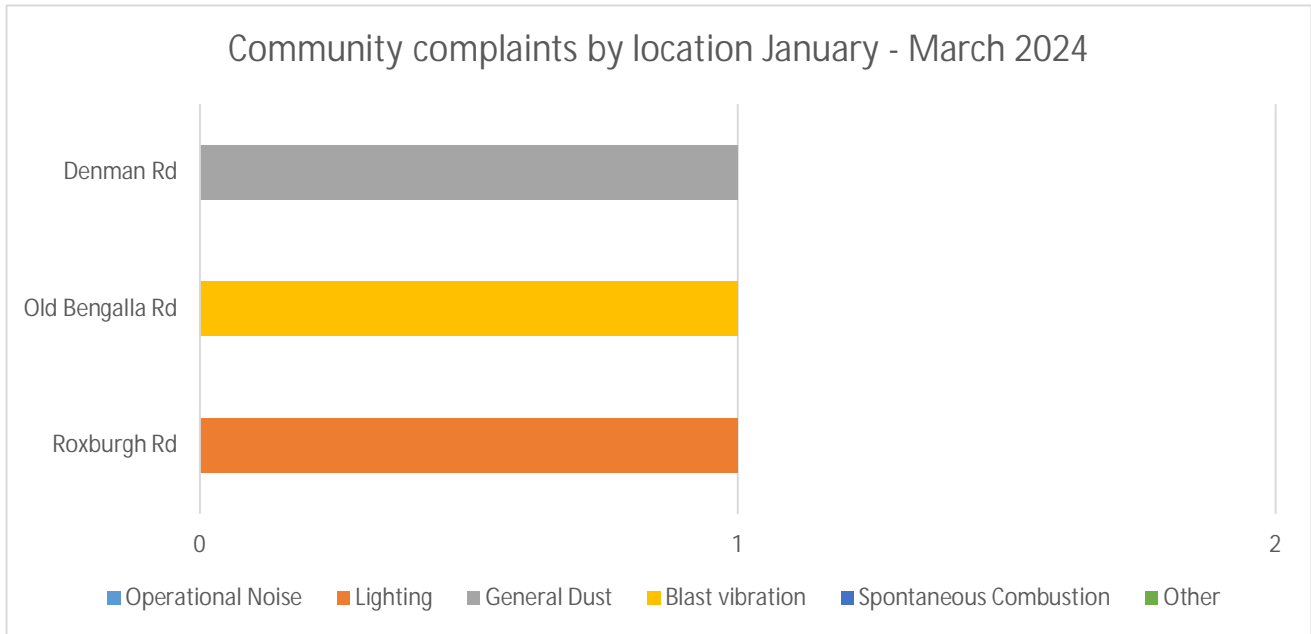


Operational Noise Monitoring (attended) Locations (Source: Noise Management Plan)

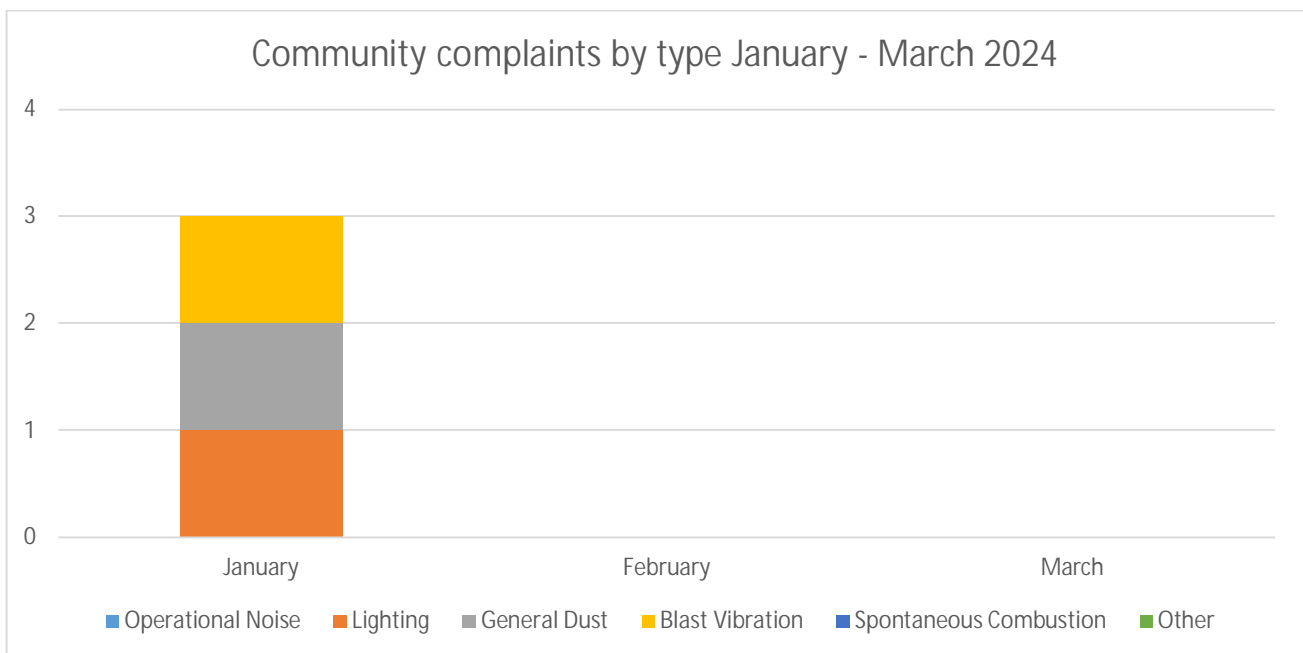


Community Complaints

The Community Complaints included in this report are for the period 1 January 2024 to 31 March 2024. Mt Arthur Coal received three (3) operational complaints during this period.



Of the three complaints, one (1) was for lighting, one (1) was for blast vibration and one (1) was for dust. All three complaints were received in January, with no complaints recorded for February or March.



Community Complaints Summary: 1 January to 31 March 2024*

Date	Time	From	Issue	Lodgement type	Investigation and response to caller
03/01/24	10:00pm	Roxburgh Road	Lighting	In Person	Lighting procedure reviewed.
15/01/24	11:39am	Old Bengalla Road	Blast Vibration	Community Response Line	Investigation revealed the blast was within the limits.
23/01/24	2:58pm	Denman Road	Dust	Community Response Line	Investigation revealed the blast was within the limits.

* No complaints recorded for February or March 2024

Actions arising from previous meeting

ACTION 1: AW to prepare an advertisement calling for Community and Stakeholder representatives for the MAC CCC. WP to provide this to the Chamber of Commerce.

ACTION 2: AW to confirm MAC's official company representatives for the CCC.

ACTION 3: MAC to advise the CCC when the Public Exhibition period is known for the EPBC Referral documentation.

ACTION 4: MAC to share insights into feedback from employees regarding remaining within the mining industry and/or potential career changes post 2030.