

TECHNICAL
REPORT

PEAK MONTHLY ENVIRONMENTAL MONITORING
SUMMARY NOVEMBER 2024



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1. Intent

This monthly environmental summary report is a requirement under section 66(6) of the NSW Protection of the Environment Operations Act 1997 (POEO Act), in which holders of an environment protection licence make their pollution monitoring data publicly available. This report is intended to keep the community, stakeholders, and regulators informed of Peak Gold Mine's (PGM's) environmental performance and to maintain a transparent and accountable reporting system.

2. Scope

This report covers all PGMs environmental monitoring conditions covered for November 2024. These conditions, where applicable, are measured against PGMs Environment Protection Licence (EPL 3596), development consent conditions and Australian Standard to determine PGMs compliance.

These conditions include:

- Weather Conditions
- Surface Water Monitoring results
- Noise Monitoring results
- Air Quality Monitoring results
- Blasting monitoring results
- Haulage Movements

3. Definitions

Term	Definition
mm/s	The peak of the vibration in millimetres per second
Insoluble Solids	The insoluble portion of the dust deposited in dust deposition gauge
Total Lead	Including dissolved lead in the liquid portion and the lead particulates in the filter paper following laboratory analysis
g/m ² /month	Grams per square metre per month
dB (L)	Decibel (linear maximum)
dB LAeq (15 minute)	Decibel (linear weighted average over 15 minutes)
CN Free	Free Cyanide (Hydrogen Cyanide and Cyanide ions in solution)
CN WAD	Weak Acid Dissociable Cyanide (includes Cyanide species liberated at moderate pH of 4.5)
TSS	Total Suspended Solids

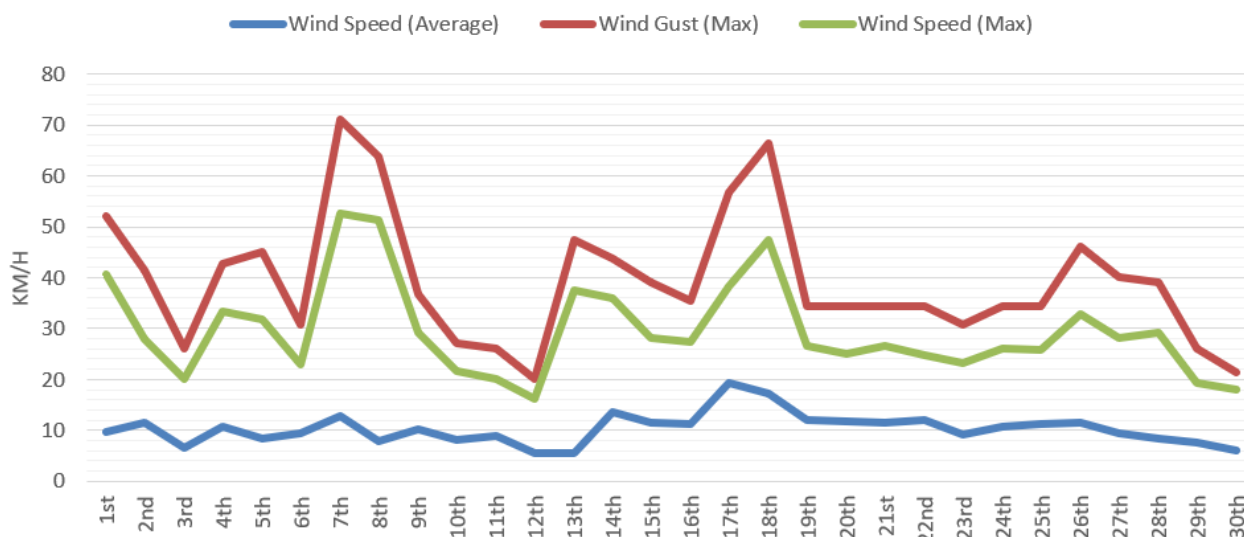
4. Monitoring Results

4.1 Weather

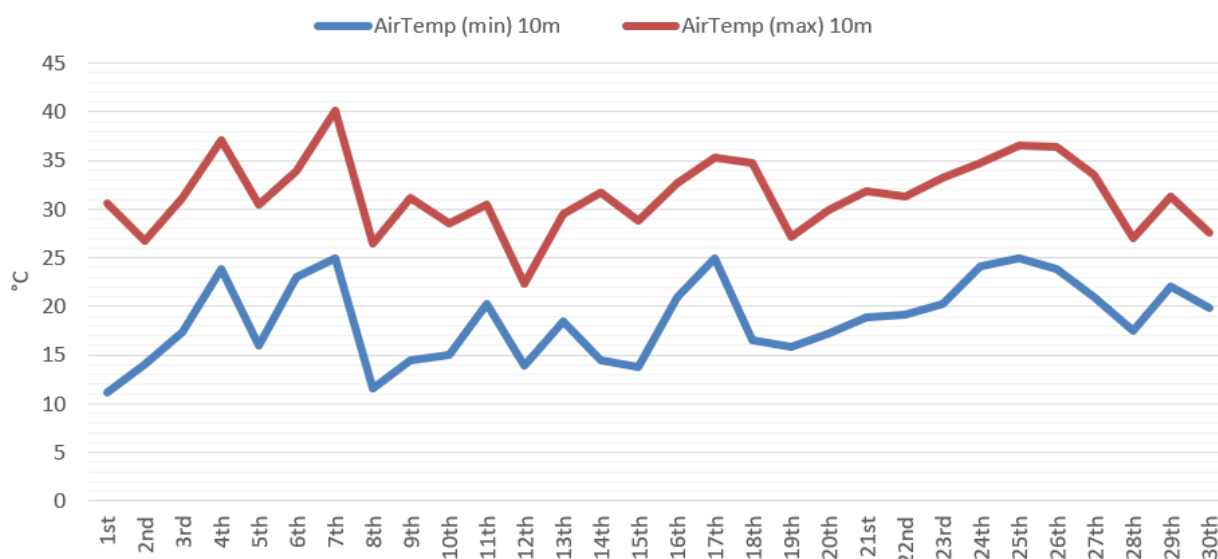
The meteorology monitoring data is acquired through PGM’s weather station located 2km South of Cobar.

The Bureau of Meteorology (BOM) website can also be used as an alternate source for this monitoring data.

WIND SPEED NOVEMBER 2024

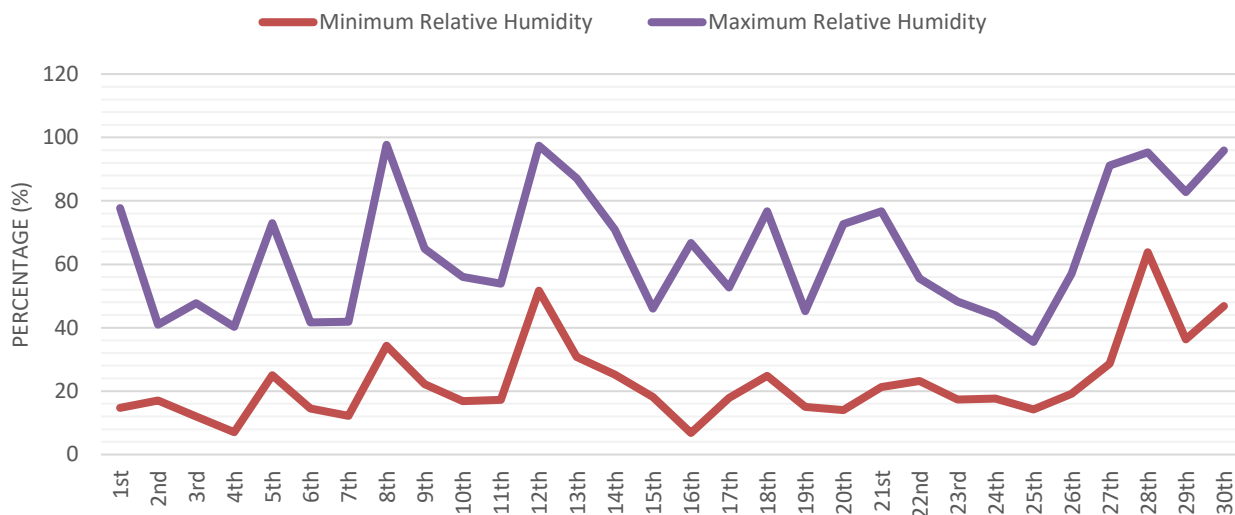


AIR TEMPERATURE NOVEMBER 2024

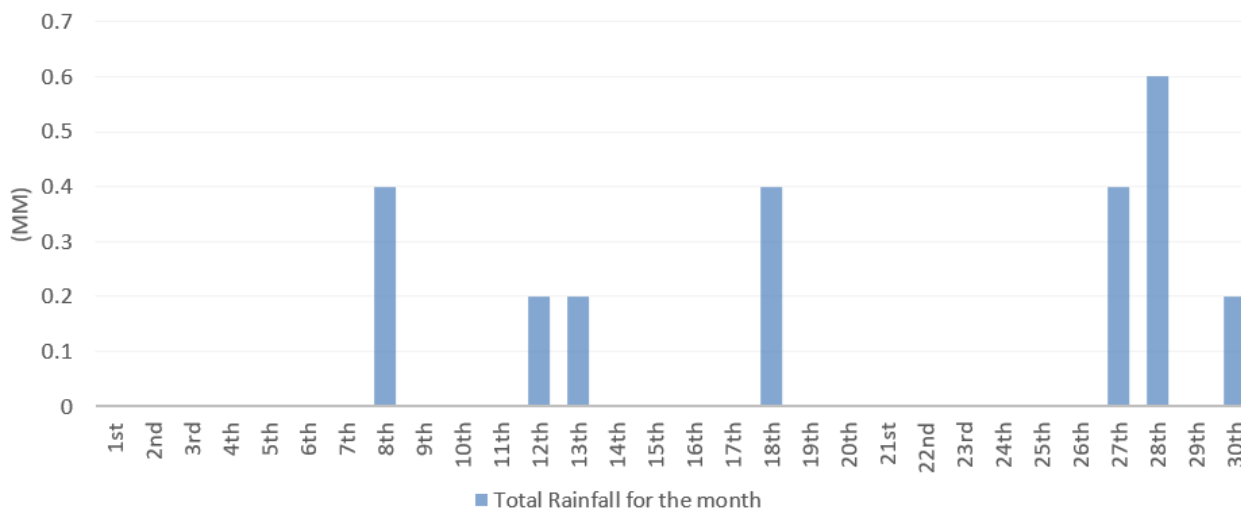


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RELATIVE HUMIDITY NOVEMBER 2024



TOTAL RAINFALL NOVEMBER 2024



Graphs 1-4: Summary of meteorological data for November 2024

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4.2 Surface Water

Surface water monitoring involves collecting water samples from several locations around site. The water samples are submitted to a NATA accredited laboratory for physical and chemical analysis. Analysis of pH and electrical conductivity are obtained in the field using a handheld monitor. Table 1 gives the results as per the PGM EPL requirements.

Table 1: Surface Water monitoring results

EPA identification no.	Location	Sampled	Received	Published	Limit	WAD CN (mg/L)	CN Free (mg/L)	TSS (mg/L)	Oil & Grease
1	Netted Dam overflow to Recycled Water Dam				No Limit	**	**	*	*
2	Decant Dam				No Limit	***	***	*	*
5	TSF feed	12/11/24	21/11/24	25/11/24	No Limit	304	245	*	*
6	Young Australia Complex				No Limit	*	*	**	**
7	Spain's Dam				No Limit	*	*	**	**

*No monitoring required

**No discharge

***No water in dam

4.3 Noise Monitoring

A hand-held monitor is used by PGM employees to monitor noise levels at times set out by the EPL and development consent conditions. Noise monitoring is conducted at the closest residence (Figure 1) and sporadically depending on operational requirements. PGM's closest monitoring point is located at the Dellavale boundary, approximately 400m closer to the mine noise than the residence. To determine the noise level (dB) experienced at the residence, sound intensity I and the inverse square law $1/r^2$ is calculated based on the residences distance from mine noise source.

Noise monitoring results are below in Table 3. Licenced noise limits set by the EPL and development consent conditions are given in Table 2.

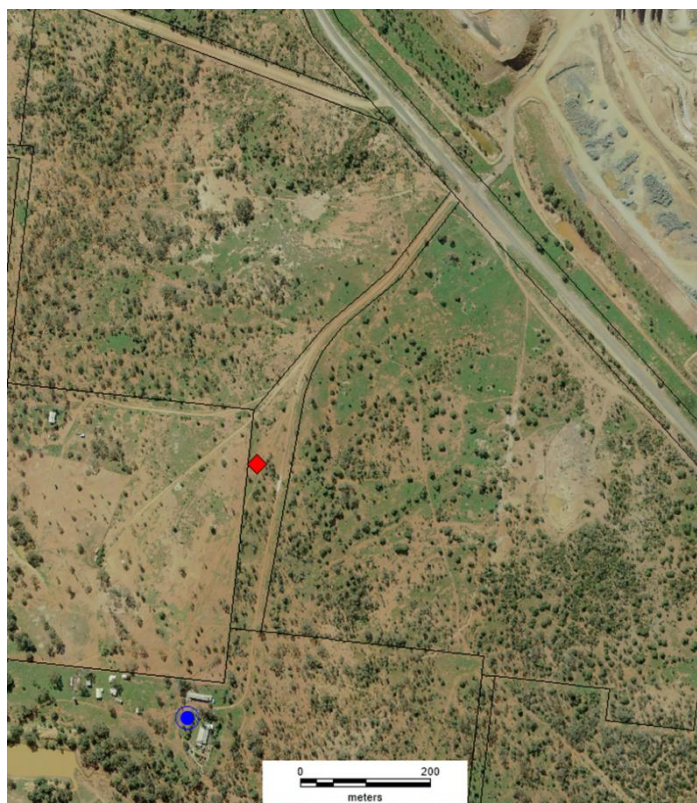


Figure 1: Location of the "Dellavale" properties house (blue circle) and noise monitoring location (red diamond).

Table 2: Noise Monitoring levels

Time Band	Day	Noise Level (dB)
7:00am - 6:00pm	Mon - Fri	45
6:00pm - 10:00pm	Mon - Fri	40
10:00pm - 7:00am	Mon - Fri	35
7:00am - 1:00pm	Sat	45
1.00pm - 7:00am	Sat	35
12:00am - 12:00pm	Sun	35

Table 3: Attended Noise Monitoring Results

Location	Sampled & Obtained	Published	Time	LA 10 (dB) Limit	LA 10 (dB) Monitoring Result at Monitor Location	LA 10 (dB) Calculated Monitoring Result at Residence	Key Noise Source	Complies
Dellavale	13/11/24	25/11/24	16:00	45	37.2	33.2	Traffic/birds	Yes

* Data Invalid due to high wind speed i.e. 3.28-3.55m/s. This is higher than allowable EPL limit of 3m/s.

** It complies due to noise not being emitted by PGM

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4.4 Air Quality

Fall out dust deposition bottles are currently used to monitor air quality. The bottles are positioned in the field (Figure 2) for a period of 30 ± 2 days. Monitoring is required to be undertaken quarterly; however, we conduct monthly monitoring. The bottles are then sent to Australian Laboratory Services (ALS) for external analysis.

PGM has no set limits for air quality monitoring levels. However, PGM takes on board the EPA's best practice limit of $4\text{g}/\text{m}^2/\text{time}$ (limit is applicable to a 12-month averaging period). If the 12-month rolling average of a result is greater than $4\text{g}/\text{m}^2/\text{time}$, the cause will be investigated.



Figure 2: Location of dust gauges on PGM Mining Leases

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Table 4: Air Quality Results

EPA identification no.	Site	Sampled	Received	Published	Australian Standard Limit (g/m ² /month)	Insoluble Solids (g/m ² /month)	Total Lead (g/m ² /month)	Complies
8	DM1	4/12/2024	13-01-2024	14/01/2025	4	1.9	0.000283	Yes
9	DM2	4/12/2024	13-01-2024	14/01/2025	4	2.8	0.000509	Yes
10	DM3	4/12/2024	13-01-2024	14/01/2025	4	11.3	0.0142	No
11	DM4	4/12/2024	13-01-2024	14/01/2025	4	2.0	0.00192	Yes
4	Dellavale	4/12/2024	13-01-2024	14/01/2025	4	2.2	0.000251	Yes
3	Bimbimbie	4/12/2024	13-01-2024	14/01/2025	4	1.2	0.000155	Yes

4.5 Blast Monitoring

The vibration monitoring results displayed in Table 6 represents all blast vibration events that were triggered at the New Occidental, Fort Bourke and/or Dellavale monitors (Figure 3).

As seen in Table 6 blasting events for the month were below PGMs EPL limits. Vibration limits set by the NSW Environmental Protection Authority (EPA) can be viewed in Table 5.

The compliance against the overall 12-month period will be reported in the EPL Annual Return.



Figure 3: Location of Vibration Monitors on PGM's Mining Lease

Table 5: PGM EPL Limits

Peak Particle Velocity (mm/s)	Allowable Exceedance
5.00	<5% of the total number of blasts in a 12-month period are to be above 5mm/s
10.00	NIL

Table 6: Vibration Results

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Location	Sampled & Received	ID	New Occidental (mm/s)	Fort Bourke (mm/s)	Dellavale (mm/s)	Complies
New Cobar	2/11/2024	CHS_10005_STH_365	0.4	0.72	1.72	Yes
New Cobar	5/11/2024	JUB_17_NTH_425	0.07	2.89	triggered	Yes
New Cobar	6/11/2024	HUL_9100_570_975	no trigger	no trigger	no trigger	Yes
Peak	7/11/2024	CRS_9460_765_540-555	no trigger	no trigger	no trigger	Yes
New Cobar	10/11/2024	CHS_10070_ODN	0.04	0.08	0.18	Yes
Peak	11/11/2024	CRS_9460_765_540-555	no trigger	no trigger	no trigger	Yes
New Cobar	11/11/2024	HUL_9100_570_975	no trigger	no trigger	no trigger	Yes
Peak	15/11/2024	CRS_9460_765_540-555	no trigger	no trigger	no trigger	Yes
Peak	16/11/2024	CRS_9770_INC	0.07	0.28	0.48	Yes
Peak	18/11/2024	CRS_9460_765_540-555	no trigger	no trigger	no trigger	Yes
Peak	19/11/2024	KRS_930_DEC	0.04	0.13	0.34	Yes
New Cobar	21/11/2024	JUB_17_NTH_425	0.05	3.58	0.29	Yes
Peak	21/11/2024	S4U_9201_490_735_SDR_A	0.55	0	0.01	Yes
New Cobar	26/11/2024	CHS_10005_STH_365	0.27	1	1.32	Yes
Peak	28/11/2024	KRS_1155-1180_RAR	no trigger	no trigger	no trigger	Yes

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4.6 Haulage Movements

PGM is required to monitor the number of truck loads undertaken from New Cobar to the Peak site as per current consent conditions. In the month of November, 750 truckloads were permitted to be delivered to Peak Gold Mine. In total, 482 truckloads were completed. Table 7 shows a summary of the trucking for the month.

Table 7: Haulage Summary

Date	Truck Loads
1/11/2024	36
2/11/2024	0
3/11/2024	0
4/11/2024	25
5/11/2024	17
6/11/2024	25
7/11/2024	25
8/11/2024	22
9/11/2024	0
10/11/2024	0
11/11/2024	26
12/11/2024	26
13/11/2024	26
14/11/2024	25
15/11/2024	22
16/11/2024	0
17/11/2024	0
18/11/2024	27
19/11/2024	28
20/11/2024	28
21/11/2024	25
22/11/2024	21
23/11/2024	0
24/11/2024	0
25/11/2024	12
26/11/2024	20
27/11/2024	4
28/11/2024	16
29/11/2024	26
30/11/2024	0
Average	16.07