

Peak Gold Mines MONTHLY ENVIRONMENTAL MONITORING SUMMARY REPORT

JULY 2017



MONTHLY ENVIRONMENTAL MONITORING SUMMARY

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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 of PGMs environmental monitoring conditions covered for July 2017. These conditions, where applicable, are measured against PGMs Environmental Protection Licence (EPL), development consent conditions and Australian Standard to determine PGMs compliance. The conditions include;

- Blasting monitoring results;
- Air Quality Monitoring results;
- Noise Monitoring results;
- · Surface Water Monitoring results; and
- · Weather Conditions.

3. DEFINITIONS

mm/s - the peak of the vibration in millimetres per second

Insoluble Solids – the insoluble portion of the dust deposition

Total Lead – Including dissolved lead in the liquid portion and the lead particulates in the filter paper following laboratory analysis

g/m2/month – grams per square meter 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. VIBRATION

The vibration monitoring results displayed in Table 4.1a represents all blast vibration events that were trigged at the New Occidental, Fort Bourke and/or Dellavale monitors. Full dataset for EPL licenced monitoring stations are located on New Gold web page.



As seen in Table 4.1a all 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 4.1b.

The compliance against the overall 12 month period will be reported in the EPL Annual Return and Annual Environmental Management Report (AEMR).

Table 4.1a New Occidental, Fort Bourke and Dellavale Vibration Results

	Date		New	Fort	Dellavale	Complies
Location	Sampled &	ID	Occidental	Bourke	(mm/s)	
	Received		(mm/s)	(mm/s)		(Y/N)
New Cobar	20/7/2017	9795MainS340	Production	No Trigger	No Trigger	1.19

Table 4.1b PGM EPL Limits

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

4.2. AIR QUALITY

Fall out dust deposition bottles are currently used to monitor air quality. The bottles are positioned in the field for a period of 30 \pm 2 days. Monitoring is undertaken quarterly. The bottles are then sent to Australian Laboratory Services (ALS) for external analysis.

PGM has no set limits for air quality monitoring levels. However, takes on board the EPAs best practice limit of 4g/m²/time (limit is applicable to 12 month averaging period). If a single monitoring result is over the EPAs best practice limit of 4g/m²/time, the cause is investigated and reported in the AEMR.

Full dataset for EPL licenced monitoring stations are located on New Gold web page.

No dust monitoring undertaken for July 2017.

4.3. NOISE

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 resident and sporadically depending on operational requirements. PGMs 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 and licenced noise limits set by the EPL and Development Consent Conditions are given in Table 4.3a respectively.

Full dataset for EPL licenced monitoring stations are located on New Gold web page.

No Noise monitoring undertaken for July 2017.



Time Band	Day	Noise Level (dB)
8:00am - 6:00pm	Mon – Fri	45
6:00pm - 10:00pm	Mon – Fri	40
10:00pm - 8:00am	Mon – Fri	35
8:00am - 1:00pm	Sat	45
1.00pm - 8:00am	Sat	35
12:00am - 12:00pm	Sun	35

4.4. WATER

Surface water monitoring involves collecting water samples from a number of locations around site and submitted to external laboratory for physical and chemical analysis, pH and electrical conductivity are obtained using a handheld monitor. Table 4.4 gives the results as per the PGM EPL requirements.

Full dataset for EPL licenced monitoring stations are located on New Gold web page.

No Surface Water Monitoring undertaken for July 2017.

4.5. WEATHER

PGM meteorology monitoring data has been acquired through the Bureau of Meteorology (BOM) weather station located 2km North West of Cobar.

Cobar BOM is currently experiencing technical difficulties and is therefore missing some days of weather data.

The BOM can be used as an alternate source for this monitoring data.









