

PEAK GOLD MINES

MONTHLY ENVIRONMENTAL SUMMARIES

April 2015

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Date	20/04/2015
Distribution	New Gold Internet www.newgold.com

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1. INTENT

This monthly environmental summary report is a requirement under section 66(6) of the *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 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 April 2015. 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;
- 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 Monitoring Results

The vibration monitoring results displayed in Table 4.1a represents all blast vibration events that were triggered at the New Occidental and/or Fort Bourke monitors. The New Gold Internet link on the cover page contains the full dataset for EPL licenced monitoring locations.

As seen in Table 4.1a all blasting events for the month were below PGMs EPL limits. Vibration limits set by the 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 and Fort Bourke Vibration Result

Location	Date Sampled & Received	Blast ID	Development / Production	New Occidental (mm/s)	Fort Bourke (mm/s)	Complies (Y/N)
New Cobar	3/04/2015	48StpMainN320	Production	No Trigger	3.2	Yes
New Cobar	10/04/2015	48StpMainN320	Production	No Trigger	2.84	Yes
New Cobar	15/04/2015	51StpMainN240	Production	No Trigger	0.89	Yes
New Cobar	18/04/2015	51StpMainN240	Production	No Trigger	1.82	Yes
New Cobar	25/04/2015	46StpMainS120	Production	No Trigger	2.75	Yes

Table 4.1b PGMs EPL Limits for Vibration

Peak Particle Velocity (mm/s)	Allowable Exceedance
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 Monitoring Results

Fall out dust deposition bottles are currently used to monitor air quality. The bottles are positioned in the field for a period of 30 ± 2 days. Monitoring is undertaken every second month. 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 EPA's best practice limit of $4\text{g}/\text{m}^2/\text{time}$ (limit is applicable to 12 month averaging period). If a single monitoring result is over the EPA's best practice limit of $4\text{g}/\text{m}^2/\text{time}$, the cause is investigated and reported in the AEMR.

No dust monitoring was conducted during April.

The New Gold Internet link on the cover page contains the full dataset for EPL licenced monitoring locations.

4.3 Attended Noise Monitoring Results

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. Noise monitoring results and licenced noise limits set by the EPL and Development Consent Conditions are given in Table 4.3a and Table 4.3b respectively.

The New Gold Internet link on the cover page contains the full dataset for EPL licenced monitoring locations.

Table 4.3a Attended Noise Monitoring Results

Location	Date		Time	Limit	Noise Level (LAeq15)	Key Noise Source	Complies
	Sampled & Obtained	Published					
Dellavale	29/04/2015	11/05/2015	15:05	45	46	Birds, haul truck, mine noise, non-mine vehicle on HWY, wind gust.	Yes*

Table 4.3b Attended Noise Monitoring Limits

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

*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. The result is then 41.92 thus achieving compliance.

4.4 Water Monitoring Results

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 in as per the PGM EPL requirements.

The New Gold Internet link on the cover page contains the full dataset for EPL licenced monitoring locations.

Table 4.4 Surface Water Monitoring Results

Monitoring Point	Date			Limit	CN WAD	CN Free	Complies
	Sampled	Received	Published		mg/L	mg/L	
Tailings Feed	11/04/2015	30/04/2015	30/04/2015	No Limit	344	202	Yes
Tailings Feed	23/04/2015	7/05/2015	7/05/2015	No Limit	426	279	Yes
Recycled Water Dam Feed	27/04/2015	7/05/2015	11/05/2015	No Limit	745	330	Yes

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4.5 Weather Data Results

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

PGMs onsite weather station is currently undergoing a system upgrade.

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



