



# ENVIRONMENTAL MONITORING DATA

## 2018

<b>EPL</b>	<b>3393</b>
<b>Licensee Name</b>	<b>Pacific Blue Metal Pty Ltd</b>
<b>Facility Address</b>	<b>113 Possum Brush Road POSSUM BRUSH NSW 2430</b>

<b>BLAST</b>		
Monitored when blasting at R1 and R2		
Parameter	Limit R1	Limit R2
Airblast Overpressure	120dB at any time & 115dB for no more than 5% of blasts	
Peak Particle Velocity	10mm/s at any time & 5mm/s for no more than 5% of blasts	

Month	Date Sampled	Date Obtained	Date Published	R1	R2	Comments
January	24/01/18	13/03/18	23/04/18	102.5dB 3.30mm/s	101.7dB 0.32mm/s	-
February	-	-	-	-	-	No blast
March	-	-	-	-	-	No blast
April	06/04/18	09/04/18	23/04/18	100.3dB 1.63mm/s	No trigger No trigger	-
May	-	-	-	-	-	No blast
June	08/06/18	04/09/18	07/09/18	104.2dB 3.32mm/s	No trigger No trigger	-
July	-	-	-	-	-	No blast
August	-	-	-	-	-	No blast
September	-	-	-	-	-	No blast
October	24/10/18	10/12/18	12/12/18	100.4dB 1.34mm/s	113.4dB 0.27mm/s	-
November	-	-	-	-	-	No blast
December	-	-	-	-	-	No blast

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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<b>DUST</b> Monitored Monthly at R1 and R2		
<b>Parameter</b>	<b>Limit R1 g/m<sup>2</sup>/month</b>	<b>Limit R2 g/m<sup>2</sup>/month</b>
Deposited dust	4	4

<b>Month</b>	<b>Date Sampled</b>	<b>Date Obtained</b>	<b>Date Published</b>	<b>R1 mg/m<sup>2</sup>/month</b>	<b>R2 mg/m<sup>2</sup>/month</b>	<b>Comments</b>
January	02/02/18	13/02/18	23/04/18	0.6	1.4	-
February	02/03/18	14/03/18	23/04/18	0.3	1.2	-
March	03/04/18	18/04/18	23/04/18	0.1	0.6	-
April	04/05/18	18/05/18	07/09/18	0.4	0.8	-
May	01/06/18	15/06/18	07/09/18	0.4	0.7	-
June	02/07/18	13/07/18	07/09/18	0.2	0.3	-
July	02/08/18	14/08/18	07/09/18	0.1	0.4	-
August	03/09/18	13/09/18	12/12/18	0.4	0.6	-
September	3/10/18	12/11/18	12/12/18	0.7	0.7	-
October	2/11/18	12/11/18	12/12/18	0.4	0.8	-
November	n/a	n/a	n/a	n/a	n/a	Monitoring not undertaken
December	02/01/19	14/01/19		1.5	1.3	R1 – high combustible materials – organic matter R2 – high ash content – soil dust.

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<b>WATER</b>	
Monitored on overflow at Dam 3	
Parameter	Limit
pH	6.5 – 8.5
Total Suspended Solids (mg/L)	50
Oil and Grease	None visible

Month	Date Sampled	Date Obtained	Date Published	pH	TSS	Oil & Grease	
January	-	-	-	-	-	-	No overflow occurred at Dam 3
February	-	-	-	-	-	-	No overflow occurred at Dam 3
March	22/03/18	28/03/18	23/04/18	7.3	6.0	None Visible	First dam overflow since 15/03/17
April	-	-	-	-	-	-	No overflow occurred at Dam 3
May	-	-	-	-	-	-	No overflow occurred at Dam 3
June	-	-	-	-	-	-	No overflow occurred at Dam 3
July	-	-	-	-	-	-	No overflow occurred at Dam 3
August	-	-	-	-	-	-	No overflow occurred at Dam 3
September	-	-	-	-	-	-	No overflow occurred at Dam 3
October	-	-	-	-	-	-	No overflow occurred at Dam 3
November	-	-	-	-	-	-	No overflow occurred at Dam 3
December	-	-	-	-	-	-	No overflow occurred at Dam 3

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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<b>NOISE</b>		Monitored Quarterly at R1, R2 and R3		
Parameter		Limit R1	Limit R2	Limit R3
Day	LA <sub>eq(15min)</sub> (dBA)	39	38	37
Evening	LA <sub>eq(15min)</sub> (dBA)	39	38	37
Night	LA <sub>eq(15min)</sub> (dBA)	39	38	37
Night	LA <sub>max</sub> (dBA)	45	45	45

The above noise criteria apply under all meteorological conditions except the following:

- Wind speeds greater than 3 metres/second at 10 meters above ground level; or
- Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 meters above ground level; or
- Stability category G temperature inversion conditions.

Sampling Period	Date Sampled	Date Obtained	Date Published	Parameter	R1	R2	R3	Comments
<b>1<sup>st</sup> Quarter (Jan-Mar)</b>	28/03/18	14/04/18	23/04/18	Day LA <sub>eq(15min)</sub> (dBA)	28	<25	<20	-
	28/03/18	14/04/18	23/04/18	Evening LA <sub>eq(15min)</sub> (dBA)	inaudible	inaudible	inaudible	-
	29/03/18	14/04/18	23/04/18	Night LA <sub>eq(15min)</sub> (dBA)	inaudible	<25	25	-
	29/03/18	14/04/18	23/04/18	Night LA <sub>max</sub> (dBA)	inaudible	30	28	-
<b>2<sup>nd</sup> Quarter (Apr-Jun)</b>	28/06/18	19/07/18	07/09/18	Day LA <sub>eq(15min)</sub> (dBA)	29	<20	<25	-
	28/06/18	19/07/18	07/09/18	Evening LA <sub>eq(15min)</sub> (dBA)	inaudible	31	inaudible	-
	29/06/18	19/07/18	07/09/18	Night LA <sub>eq(15min)</sub> (dBA)	inaudible	<25	inaudible	-
	29/06/18	19/07/18	07/09/18	Night LA <sub>max</sub> (dBA)	Inaudible	<30	<30	-

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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Sampling Period	Date Sampled	Date Obtained	Date Published	Parameter		R1	R2	R3	Comments
<b>3<sup>rd</sup> Quarter (Jul-Sep)</b>	15/08/18	24/08/18	07/09/18	Day	LA <sub>eq(15min)</sub> (dBA)	32	<20	<20	Evening operations only occurred from 9:35pm-10:00pm on 15 <sup>th</sup> August. Therefore, only one site was able to be monitored. As per Condition L4.3 of PBM's Environment Protection Licence, the noise criteria do not apply when wind speeds are greater than 3m/s at 10m above ground level. Such wind speeds occurred at R1 & R3 at night and at R3 in the day.
	15/08/18	24/08/18	07/09/18	Evening	LA <sub>eq(15min)</sub> (dBA)	38	n/a	n/a	
	15/08/18	24/08/18	07/09/18	Night	LA <sub>eq(15min)</sub> (dBA)	38	<20	33	
	15/08/18	24/08/18	07/09/18	Night	LA <sub>max</sub> (dBA)	45	37	0	
<b>4<sup>th</sup> Quarter (Oct-Dec)</b>	10/12/18	15/01/19	14/03/19	Day	LA <sub>eq(15min)</sub> (dBA)	<20	<20	<20	-
	10/12/18	15/01/19	14/03/19	Evening	LA <sub>eq(15min)</sub> (dBA)	28	<20	<20	-
	10/12/18	15/01/19	14/03/19	Night	LA <sub>eq(15min)</sub> (dBA)	<20	<20	<20	-
	10/12/18	15/01/19	14/03/19	Night	LA <sub>max</sub> (dBA)	<20	<20	<20	-

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<b>NOISE</b>		<b>Monitored Biennially at R4</b> To determine the noise level of Quarry trucks travelling along Possum Brush Road during night time operations.
<b>Parameter</b>	<b>Limit R4</b>	
Night LA <sub>eq(1hour)</sub> (dBA)	50	

Sampling Period	Date Sampled	Date Obtained	Date Published	R4 Night LA <sub>eq(1hour)</sub> (dBA)	Comments
Biennial 2016-2017	18/07/17	31/07/17	28/09/17	43	Monitoring required mid 2019.

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