



ENVIRONMENTAL MONITORING DATA

2019

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

BLAST		
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	-	-	-	-	-	-
February	-	-	-	-	-	-
March	-	-	-	-	-	-
April	11/04/19	11/04/19	19/04/19	105.0 dB 0.59mm/s	Nil trigger Nil trigger	-
May	-	-	-	-	-	-
June	-	-	-	-	-	-
July	01/07/19	02/07/19	06/09/19	97.9 dB 1.91mm/s	Nil trigger Nil trigger	-
August	-	-	-	-	-	-
September	04/09/19	05/09/19	06/09/19	94.4 dB 2.79mm/s	Nil trigger Nil trigger	-
October	-	-	-	-	-	-
November	-	-	-	-	-	-
December	-	-	-	-	-	-

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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DUST		
Monitored Monthly July 2017 to May 2019 at R1 and R2 Monitored on request from May 2019		
Parameter	Limit R1 g/m²/month	Limit R2 g/m²/month
Deposited dust	4	4

Month	Date Sampled	Date Obtained	Date Published	R1 mg/m²/month	R2 mg/m²/month	Comments
January	01/02/19	12/02/19	19/04/19	1.1	0.3	-
February	04/03/19	18/03/19	19/04/19	2.0	3.3	Insoluble material is almost all ash content (soil dust) attributable to dust storms. 80% and 85% ash.
March	04/04/19	12/04/19	19/04/19	1.0	1.7	-
April	02/05/19	15/05/19	06/09/19	0.1	1.7	
May	31/05/19	12/06/19	06/09/19	0.3	0.8	13/05/19 DPE approval to amend dust monitoring from monthly to upon receipt of a dust related complaint.

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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WATER	
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	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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NOISE		Monitored Quarterly July 2017 – May 2017 at R1, R2 and R3 Monitored Annually from May 2017 at R1, R2 & R3		
Parameter		Limit R1	Limit R2	Limit R3
Day	LA _{eq(15min)} (dBA)	39	38	37
Evening	LA _{eq(15min)} (dBA)	39	38	37
Night	LA _{eq(15min)} (dBA)	39	38	37
Night	LA _{max} (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.

Month	Date Sampled	Date Obtained	Date Published	Parameter	R1	R2	R3	Comments	
April	02/04/19	02/05/19	06/09/19	Day	LA _{eq(15min)} (dBA)	28	<25*	36*	DPE approval granted to monitor in April to coincide with night works. *includes noise from quarry trucks on Possum Brush Road ** Plant hum
	02/04/19	02/05/19	06/09/19	Evening	LA _{eq(15min)} (dBA)	<25	inaudible	inaudible	
	02/04/19	02/05/19	06/09/19	Night	LA _{eq(15min)} (dBA)	Inaudible	<25	<25	
	02/04/19	02/05/19	06/09/19	Night	LA _{max} (dBA)	Inaudible	<30**	<30**	
September	24/09/19	19/10/19	17/12/19	Day	LA _{eq(15min)} (dBA)	<20	<20	<20	13/05/19 DPE approval to amend noise monitoring from quarterly to annual to align with Environment Protection Licence.
	24/09/19	19/10/19	17/12/19	Evening	LA _{eq(15min)} (dBA)	<20	30	<20	
	24/09/19	19/10/19	17/12/19	Night	LA _{eq(15min)} (dBA)	<20	<20	<20	
	24/09/19	19/10/19	17/12/19	Night	LA _{max} (dBA)	<20	<20	<20	

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NOISE		Monitored Biennially at R4 To determine the noise level of Quarry trucks travelling along Possum Brush Road during night time operations.
Parameter	Limit R3	
Night LA _{eq(1hour)} (dBA)	50	

Sampling Period	Date Sampled	Date Obtained	Date Published	R3 Night LA _{eq(1hour)} (dBA)	Comments
Biennial 2016-2017	18/07/17	31/07/17	28/09/17	43	
Biennial 2018-2019	24/09/19	19/10/19	17/12/19	45	

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