



ENVIRONMENTAL MONITORING DATA

2020

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	15/01/20	16/01/20	09/04/20	101.7 dB 2.76 mm/s	105.3 dB 0.56 mm/s	-
February	-	-	-	-	-	-
March	-	-	-	-	-	-
April	17/04/20	21/04/20	30/06/20	102.8 dB 3.00 mm/s	Nil Trigger Nil Trigger	-
May	-	-	-	-	-	-
June	23/06/20	26/06/20	30/06/20	102.3 dB 4.82 mm/s	111.1 dB 0.51 mm/s	-
July	03/07/20	03/07/20	30/09/20	97.2 dB 0.76 mm/s	Nil Trigger	-
August	19/08/20	31/08/20	30/09/20	100.7dB 4.93 mm/s	Nil Trigger	-
September	-	-	-	-	-	-
October	28/10/20	29/10/20	31/12/20	Nil Trigger	Nil Trigger	-
November	04/11/20	05/11/20	31/12/20	Nil Trigger	Nil Trigger	-
December	04/12/20	04/12/20	31/12/20	Nil Trigger	Nil Trigger	-
	17/12/20	22/12/20	31/12/20	103.2dB 1.8ms	Nil Trigger	-

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	10/02/20	21/02/20	09/04/20	7.4	23	<5	First water flow since March 2018, in which time the area has experienced drought and severe bushfires.
March	27/03/20	07/04/20	09/04/20	7.5	23	<5	-
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 Annually 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
Winter 2020	08/07/20	15/07/20	30/09/20	Day	LA _{eq(15min)} (dBA)	<20	27	<20	-
	08/07/20	15/07/20	30/09/20	Evening	LA _{eq(15min)} (dBA)	26	<20	25	-
	08/07/20	15/07/20	30/09/20	Night	LA _{eq(15min)} (dBA)	<20	<20	<20	-
	08/07/20	15/07/20	30/09/20	Night	LA _{max} (dBA)	<20	<20	<20	-

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 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	-
Biennial 2020-2022	08/07/20	15/07/20	30/09/20	43	-

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 on request.		
Parameter	Limit R1 g/m ² /month	Limit R2 g/m ² /month
Deposited dust	4	4

Month	Date Sampled	Date Obtained	Date Published	R1 mg/m ² /month	R2 mg/m ² /month	Comments
n/a						No Sampling Required

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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