



ENVIRONMENTAL MONITORING DATA

2024

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	16/01/24	14/03/24	31/03/24	Nil Trigger	Nil Trigger	-
	31/01/24	01/05/24	31/03/24	99.5dB, 1.15mm/s	Nil Trigger	-
February	09/02/24	01/05/24	31/03/24	104.8dB, 1.12mm/s	Nil Trigger	-
	21/02/24	01/05/24	31/03/24	101.2dB, 0.62mm/s	Nil Trigger	-
March	04/03/24	05/04/24	31/03/24	93.7dB, 1.33mm/s	Nil Trigger	-
	18/03/24	05/04/24	31/03/24	94.7dB, 1.33mm/s	102.1dB, 0.53mm/s	-
April	04/04/24	01/05/24	30/06/24	96.4dB, 0.71mm/s	Nil Trigger	-
May	08/05/24	09/05/24	30/06/24	97.5dB, 1.74mm/s	Nil Trigger	-
	14/05/24	20/05/24	30/06/24	94.1dB, 4.64mm/s	103.3dB, 0.35mm/s	-
June	04/06/24	11/06/24	30/06/24	101.2dB, 2.18mm/s	Nil Trigger	-
July	03/07/24	09/07/24	20/08/24	97.6dB, 1.36mm/s	104.3dB, 0.55mm/s	-
	17/07/24	22/07/24	20/08/24	97.7dB, 1.25mm/s	Nil Trigger	-
August	14/08/24	20/08/24	15/11/24	103.8dB, 0.8mm/s	Nil Trigger	-
September	03/09/24	06/09/24	15/11/24	93.7dB, 0.79mm/s	Nil Trigger	-
	25/09/24	30/09/24	15/11/24	96.5dB, 0.66mm/s	Nil Trigger	-
October						

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry	R3 – ENE of Quarry R4 – Due E of Quarry
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Month	Date Sampled	Date Obtained	Date Published	R1	R2	Comments
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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WATER	
Monitored on overflow at Dam 3	
Parameter	Limit
pH	6.5 – 8.5
Total Suspended Solids (mg/L)	50
Oil and Grease (mg/L)	10mg/L or non-visible

Month	Date Sampled	Date Obtained	Date Published	pH	TSS	Oil & Grease	
January	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-
May	13/05/24	27/05/24	30/06/24	7.5	15	<5	First overflow since 06 July 2022
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 2024				Day LA _{eq} (15min) (dBA)				
				Evening LA _{eq} (15min) (dBA)				
				Night LA _{eq} (15min) (dBA)				

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 2020-2021	08/07/20	15/07/20	30/09/20	43	-
Biennial 2022-2023	25/08/22	28/09/22	30/09/22	46	-
	12/11/23	03/11/23	31/12/23	41	-

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/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
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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