Event Summary

- A summary of the ground vibration event, including type of event i.e. Production Blast, Development Blast or Seismic Event, time and date of event, location of event and distance below surface.
- If the event is a seismic event, the Moment Magnitude will also be included.

Map

- Location of event and surface ground vibration monitoring network.
- Monitoring locations where a ground vibration response has registered will be shown as a solid triangle.

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Ground Vibration Report

Summary

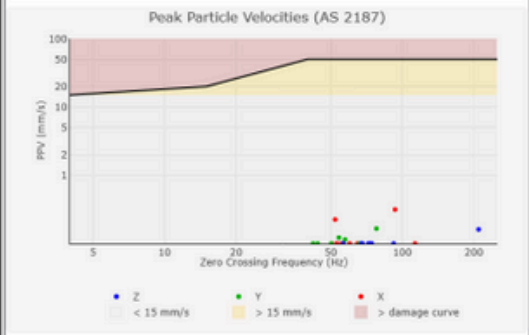
Event Type	Production Blast
Magnitude	N/A
Event Date	2025/07/12
Event Time	18:29:22 Australia/Melbourne
Location	P3912 DD
Distance Below Surface	1380 m
Notes	Manually Rejected Blast Event, located near P3912 DD, approximately 1380m below surface level

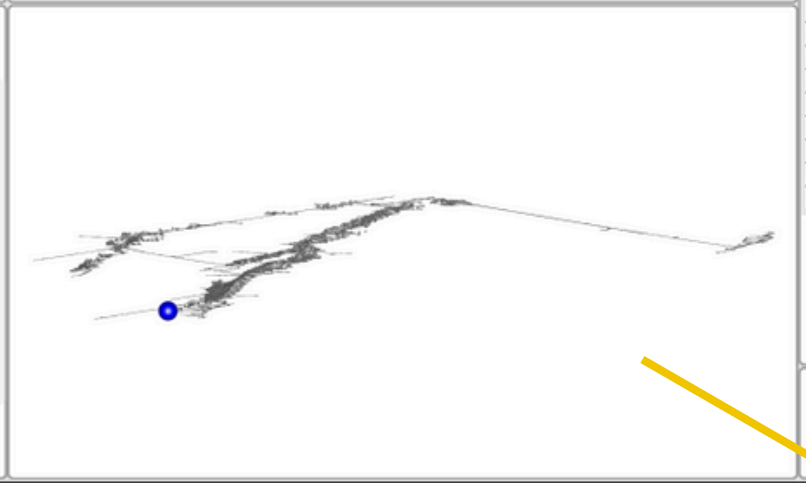
PPV Measurements

Site ID	X Component PPV (mm/s)	X Component Freq (Hz)	Y Component PPV (mm/s)	Y Component Freq (Hz)	Z Component PPV (mm/s)	Z Component Freq (Hz)	Vector PPV (mm/s)
FGV2	0.32	93.3	0.17	77.9	0.16	209.6	**0.32**
FGV7	0.23	52.2	0.12	54.1	< 0.10	92.0	**0.26**
FGV1	< 0.10	50.5	0.11	57.5	< 0.10	73.3	**0.12**
FGV3	0.10	55.5	< 0.10	44.1	0.10	67.3	**0.11**
FGV11	< 0.10	60.1	< 0.10	42.1	< 0.10	56.5	**0.10**
FGV5	< 0.10	64.8	< 0.10	50.3	< 0.10	74.4	**0.10**
FGV4	< 0.10	113.2	< 0.10	66.2	< 0.10	68.0	**< 0.10**
FGV16	< 0.10	53.0	< 0.10	74.2	< 0.10	72.0	**< 0.10**
FGV6	-	-	-	-	-	-	-
FGV8	-	-	-	-	-	-	-
FGV9	-	-	-	-	-	-	-
FGV10	-	-	-	-	-	-	-
FGV12	-	-	-	-	-	-	-
FGV13	-	-	-	-	-	-	-
FGV14	-	-	-	-	-	-	-
FGV15	-	-	-	-	-	-	-
FGV17	-	-	-	-	-	-	-
FGV18	-	-	-	-	-	-	-
FGV19	-	-	-	-	-	-	-
FGV20	-	-	-	-	-	-	-
FGV21	-	-	-	-	-	-	-
FGV22	-	-	-	-	-	-	-
FGV23	-	-	-	-	-	-	-
FGV24	-	-	-	-	-	-	-
FGV25	-	-	-	-	-	-	-

Per-component Peak Particle Velocities (PPV) vs. Zero Crossing Frequencies.
Line indicates cosmetic damage guidelines
(residential buildings, Fig. J4.4.2.1, AS 2187.2:2006).

Legend: Below detection threshold | Below 15 mm/s | Above 15 mm/s | Above damage curve





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Reviewed time 2025/07/14 13:32:25

Approved time -

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Ground Vibration Results (PPV)

This table presents the ground vibration (PPV) recorded at each monitoring location.

- **Site ID: t**he monitor identifier
- **Vector:** PPV (Peak Particle Velocity) is the maximum ground vibration recorded in mm/s at each location. This is the reportable figure.
- **X, Y, Z Components:** are the three directional PPV's and their associated frequencies which provide the Vector PPV.
- **PPV:** the size of the ground vibration
- **Frequency:** the speed of the vibration

Cosmetic Damage Threshold

- The graph depicts the damage curve for the potential for cosmetic damage to structures described in the Australian Standard 2187.
- Below 15mm/s cosmetic damage is unlikely, above 15mm/s cosmetic damage is possible.
- The blue, green and red dots depict the ground vibration results (PPV) recorded by the monitoring network and where they sit in relation to this curve.

Location

- The black lines show the underground tunnels.
- The blue circle shows the location of the ground vibration event.