Lismore City Council
43 Oliver Avenue
Goonellabah NSW 2480
Post: PO Box 23A, Lismore NSW 2480
Phone: 1300 87 83 87
Fax: 02 66 250 400
Email: council@lismore.nsw.gov.au
Web: www.lismore.nsw.gov.au

Created By: Eleisha Went

Projection: GDA2020 / MGA zone 56

Date: 30/10/2023 2:14 PM

Blast Monitoring Results Summary

Customer	Blakebrook Quarry	
Date of blast	04/11/2024	
Time of Blast	12.22pm	
Blast number	8	
Monitor Location	Location 2 ([redacted] Kerrong Road, Blakebrook)	
Monitor name/ model details:	Instantel Micromate	
Monitor Serial no	UM10341	
Calibration date	11/06/2024	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard *AS 2187.2-2006.*		Yes
Airblast overpressure result (dB)	88.2dB(L)	
Ground vibration result (PPV)	1.693mm/s	
Licence limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments	Good	

Monitor Location	Location 8 ([redacted] Nimbin Road, Blakebrook)	
Monitor name/ model details:	Instantel Micromate	
Monitor Serial no	UM21716	
Calibration date	03/07/2024	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard *AS 2187.2-2006.*		Yes
Airblast overpressure result (dB)	113.3dB(L)	
Ground vibration result (PPV)	0.047mm/s	
Licence limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments	Good	

Monitor Location	Location 4 ([redacted] Booerie Creek Rd, Booerie Creek)	
Monitor name/ model details:	Instantel Blastmate III	
Monitor Serial no	BA10184	
Calibration date	29/01/2024	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard *AS 2187.2-2006.*		Yes
Airblast overpressure result (dB)	110.2dB(L)	
Ground vibration result (PPV)	1.773mm/s	
Licence limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments	Good	

Monitor Location	Additional Residence ([redacted] Keerrong Road, Blakebrook)	
Monitor name/ model details:	Instantel Micromate	
Monitor Serial no	UM10342	
Calibration date	11/06/2024	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard *AS 2187.2-2006.*		Yes
Airblast overpressure result (dB)	No Trigger Due to under 105dB(L)	
Ground vibration result (PPV)	No Trigger Due to under 0.5mm/s	
Licence limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments	Monitor did not trigger	

Event Report

Date/Time	Tran at 12:20:57 November 4, 2024
Trigger Source	Geo: 0.500 mm/s, Mic: 110.0 dB(L)
Range	Geo: 254.0 mm/s
Record Time	3.0 sec at 2048 sps
Operator/Setup:	Operator/CAVAL RIDGE TEST.mmb

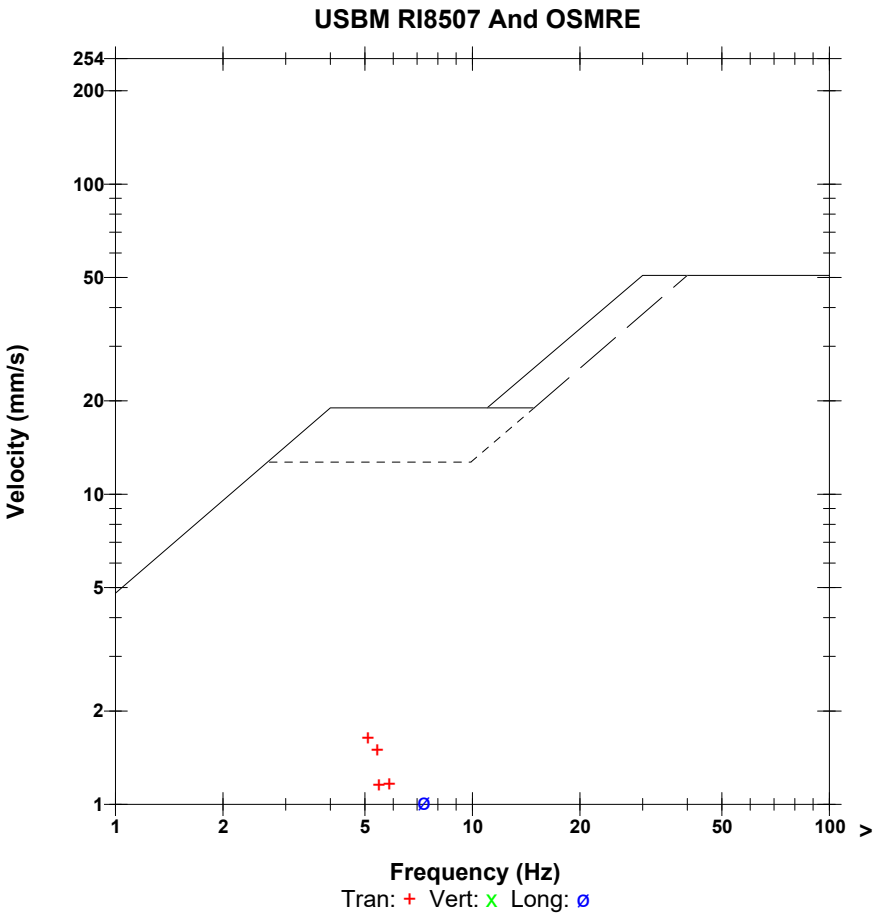
Serial Number	UM10341 V 10-90GC Micromate DIN
Battery Level	3.8 Volts
Unit Calibration	June 11, 2024 by Saros Int
File Name	UM10341_20241104122057.IDFW

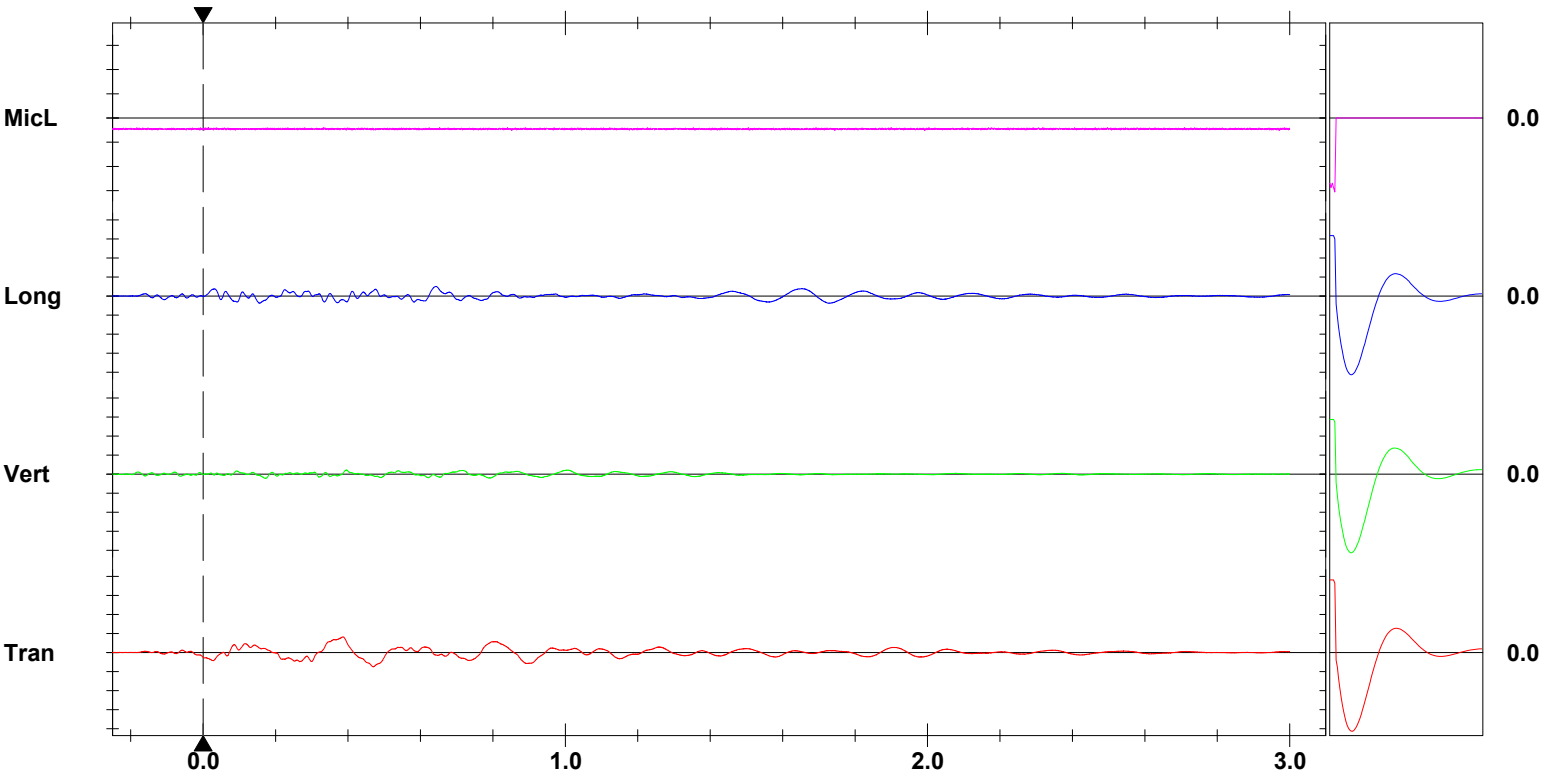
Notes Location 2

Microphone Linear Weighting
PSPL 88.2 dB(L) at 0.852 sec
ZC Freq N/A
Channel Test Check (Freq = 0.0 Hz Amp = 0 mv)

	Tran	Vert	Long	
PPV	1.639	0.449	1.017	mm/s
ZC Freq	5.1	13.1	7.3	Hz
Time (Rel. to Trig)	0.385	0.172	0.643	sec
Peak Acceleration	0.013	0.013	0.025	g
Peak Displacement	0.046	0.008	0.022	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	7.5	Hz
Overswing Ratio	3.2	3.0	3.5	

Peak Vector Sum 1.693 mm/s at 0.387 sec
N/A: Not Applicable





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div Sensor Check
Trigger =

Event Report

Date/Time	Long at 12:21:53 November 4, 2024
Trigger Source	Geo: 0.510 mm/s
Range	Geo: 254.0 mm/s
Record Time	3.0 sec at 1024 sps

Serial Number	BA10184 V 10.72-8.17 BlastMate III
Battery Level	6.2 Volts
Unit Calibration	January 29, 2024 by Saros Int.
File Name	__TEMP.EVT

Notes Location 4

RON SOUTHON P/L
General:

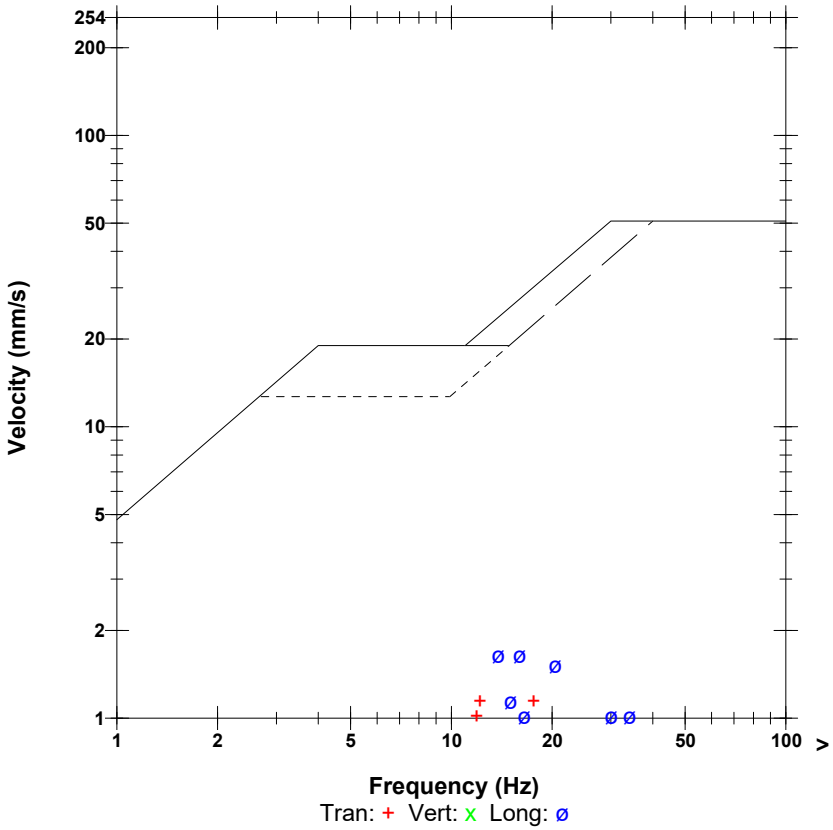
Extended Notes

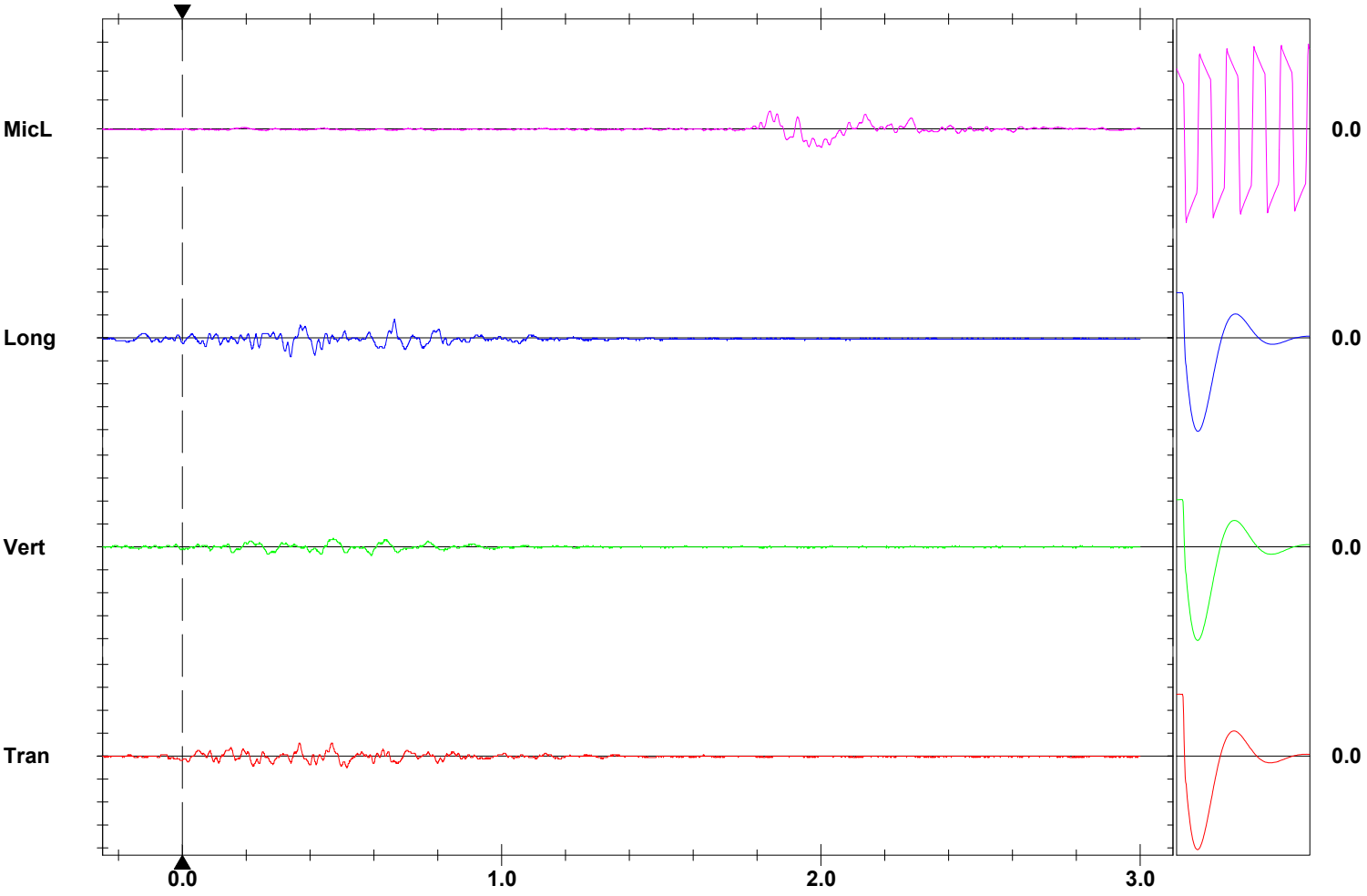
Microphone	Linear Weighting
PSPL	110.2 dB(L) at 2.002 sec
ZC Freq	3.5 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 489 mv)

	Tran	Vert	Long	
PPV	1.143	0.762	1.651	mm/s
ZC Freq	18	11	14	Hz
Time (Rel. to Trig)	0.365	0.472	0.338	sec
Peak Acceleration	0.027	0.027	0.027	g
Peak Displacement	0.013	0.011	0.016	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.5	7.2	Hz
Overswing Ratio	3.7	3.6	3.9	

Peak Vector Sum 1.773 mm/s at 0.340 sec

USBM RI8507 And OSMRE





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 10.000 pa.(L)/div Sensor Check
Trigger =

Event Report

Date/Time MicL at 12:21:55 November 4, 2024
Trigger Source Geo: 0.500 mm/s, Mic: 110.0 dB(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps
Operator/Setup: Operator/factory.mmb

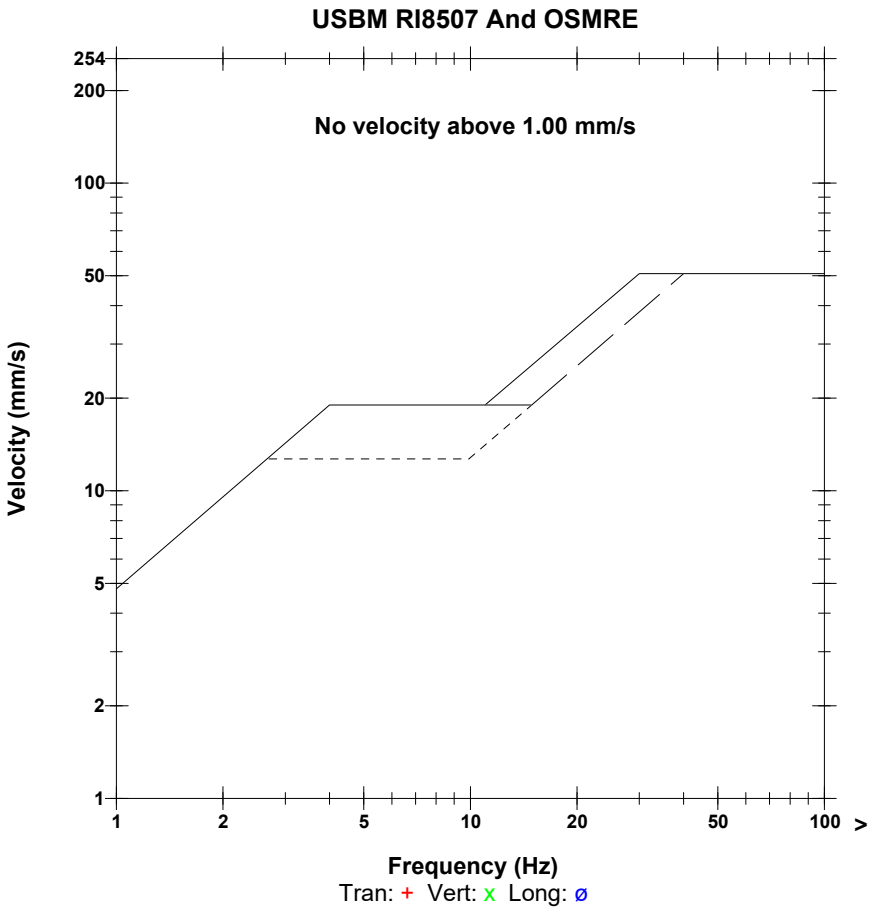
Serial Number UM21716 V 10-90GC Micromate ISEE
Battery Level 3.8 Volts
Unit Calibration July 3, 2024 by Saros Int
File Name UM21716_20241104122155.IDFW

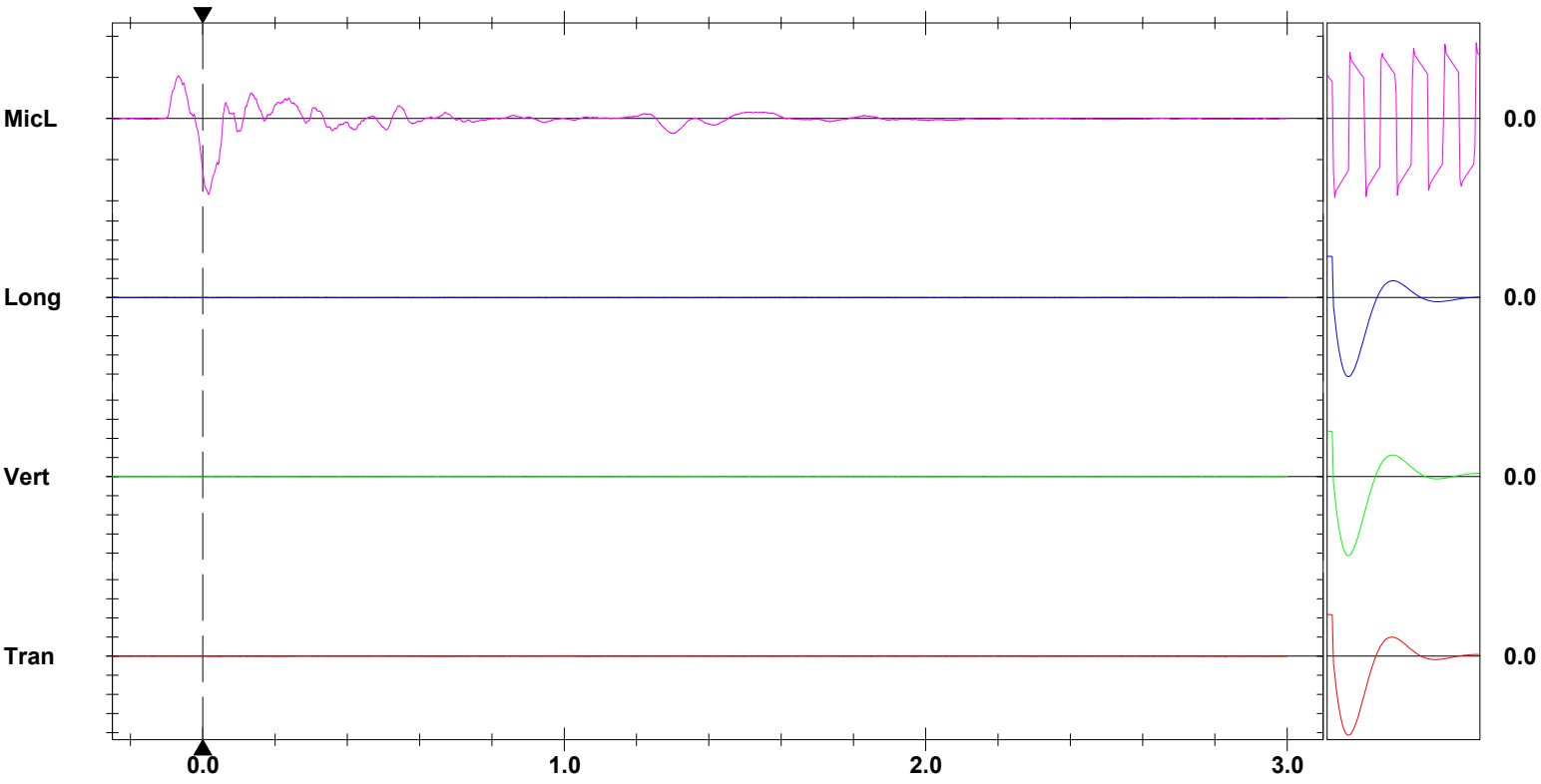
Notes Location 8

Microphone Linear Weighting
PSPL 113.3 dB(L) at 0.016 sec
ZC Freq 6.5 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 1181 mv)

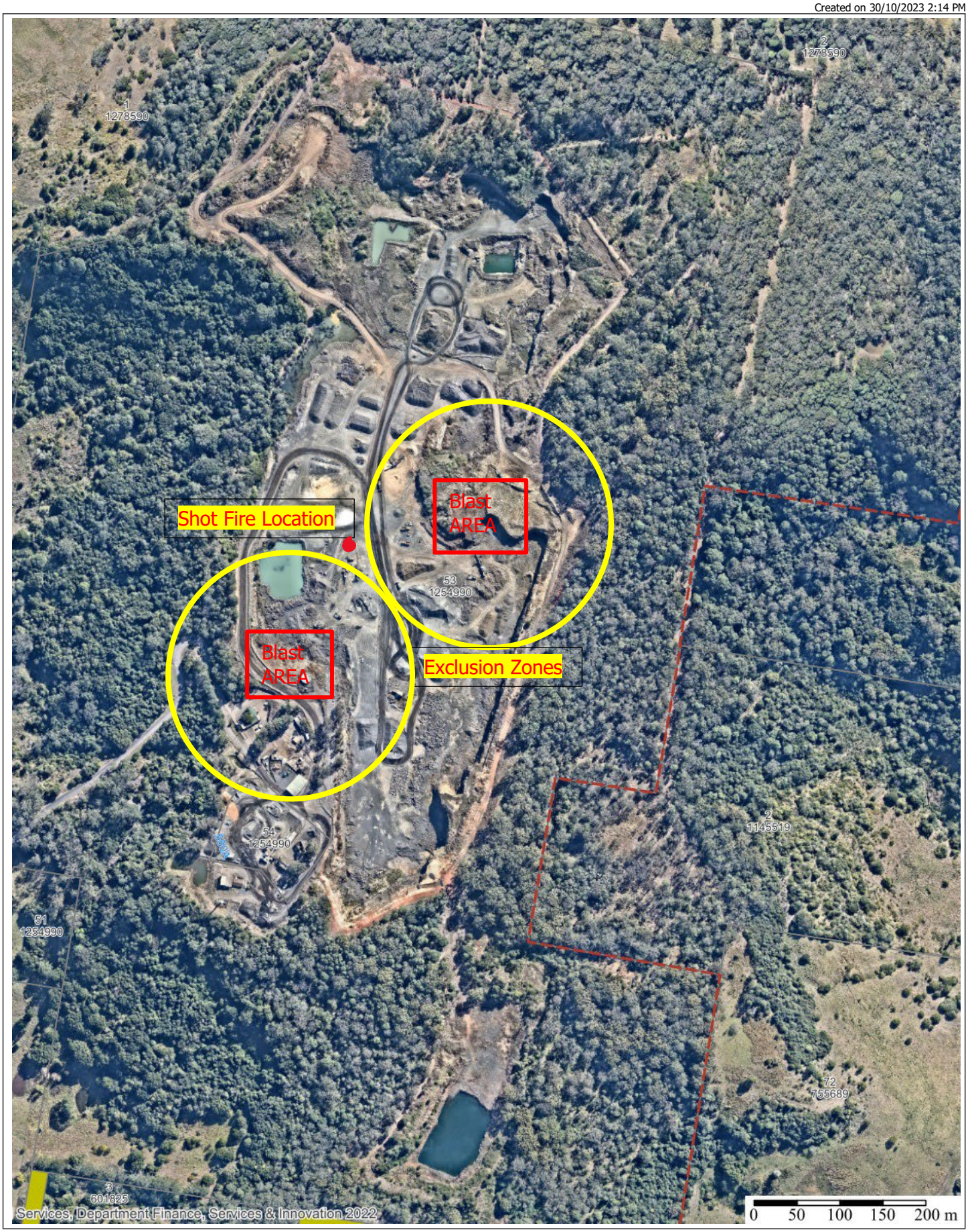
	Tran	Vert	Long	
PPV	0.039	0.039	0.039	mm/s
ZC Freq	>100	>100	>100	Hz
Time (Rel. to Trig)	0.001	0.840	-0.163	sec
Peak Acceleration	0.004	0.007	0.005	g
Peak Displacement	0.000	0.000	0.000	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.5	7.3	Hz
Overswing Ratio	4.2	3.6	4.7	

Peak Vector Sum 0.047 mm/s at 0.644 sec





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 5.000 pa.(L)/div Sensor Check
Trigger =



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43 Oliver Avenue
Goonellabah NSW 2480
Post: PO Box 23A, Lismore NSW 2480
Phone: 1300 87 83 87
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Web: www.lismore.nsw.gov.au

Created By:

Projection: GDA2020 / MGA zone 56

Date: 30/10/2023 2:14 PM

Event Report

Date/Time	Long at 14:29:00 June 17, 2024
Trigger Source	Geo: 0.500 mm/s, Mic: 110.0 dB(L)
Range	Geo: 254.0 mm/s
Record Time	3.0 sec at 2048 sps
Operator/Setup:	Operator/CAVAL RIDGE TEST.mmb

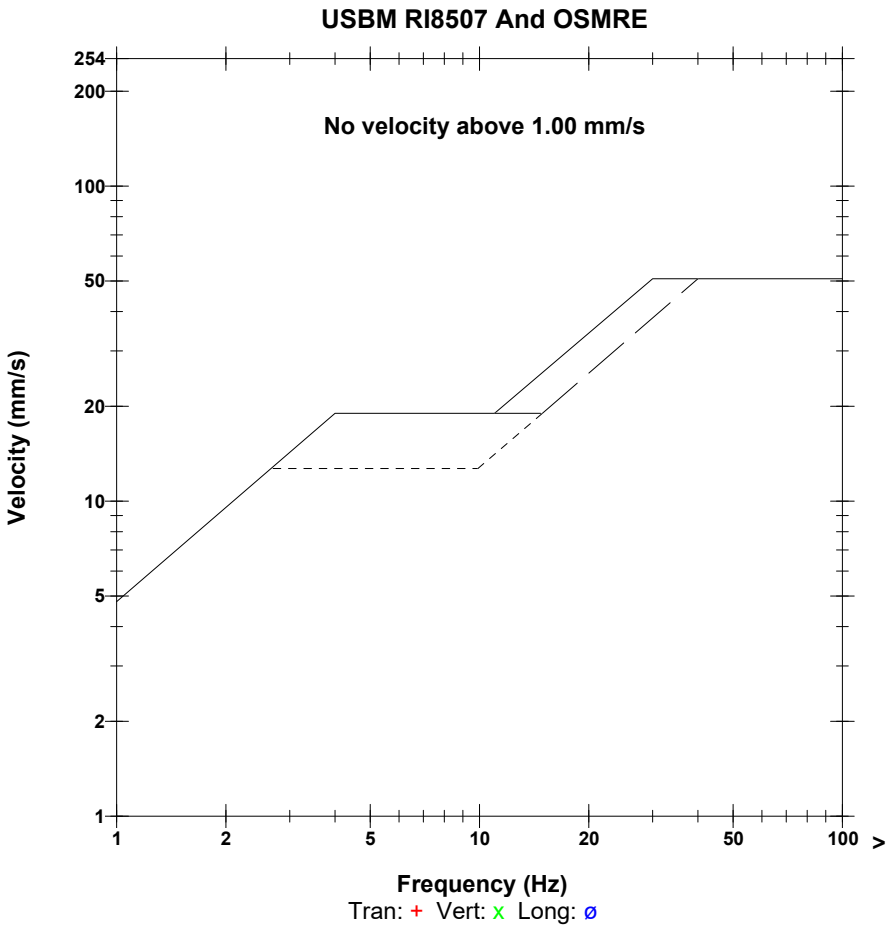
Serial Number	UM10341 V 10-90GC Micromate DIN
Battery Level	3.8 Volts
Unit Calibration	June 11, 2024 by Saros Int
File Name	UM10341_20240617142900.IDFW

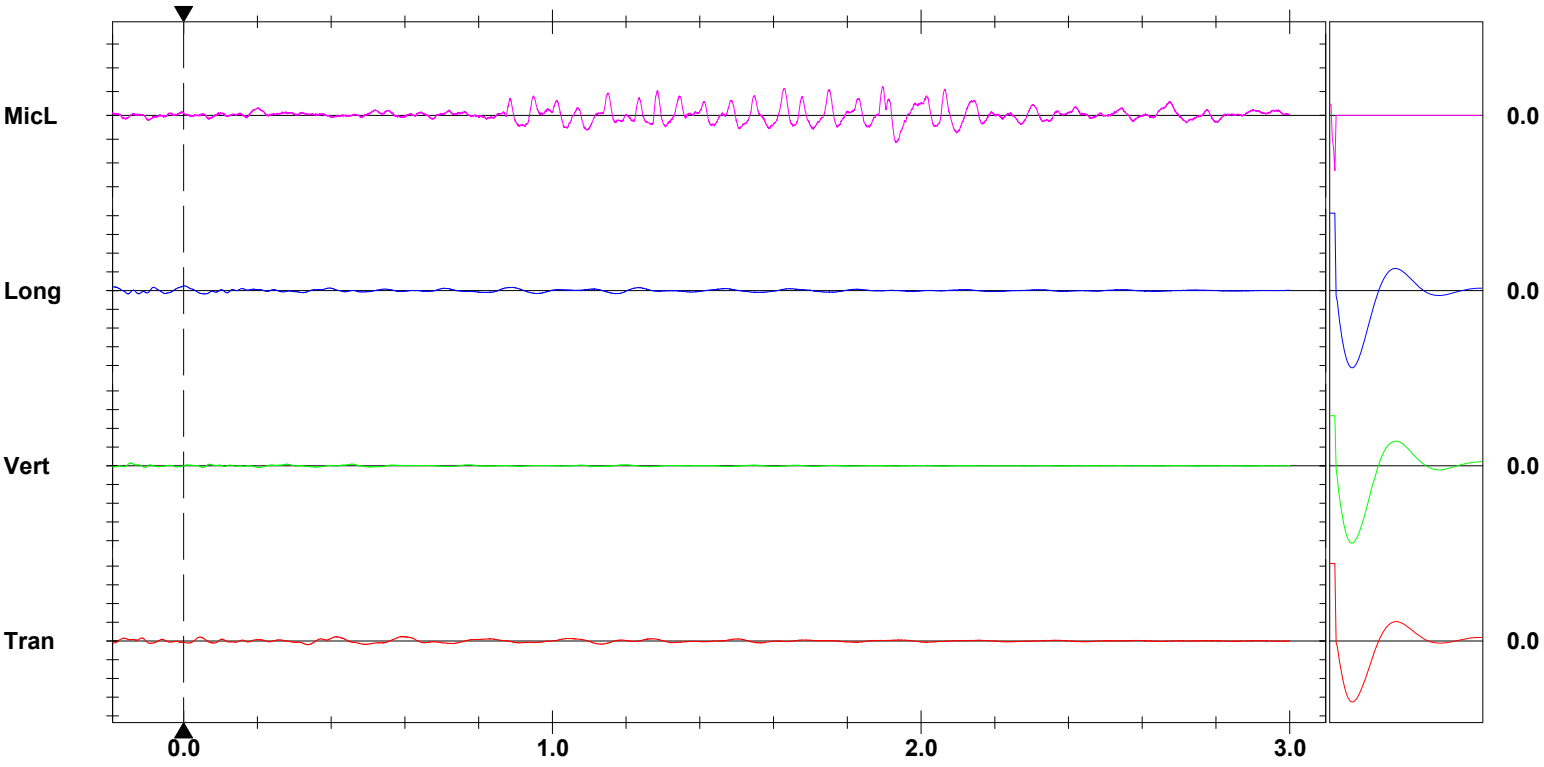
Notes: Location 2 ([redacted] Keerrong Rd Blakebrook)

Microphone	Linear Weighting
PSPL	95.6 dB(L) at 1.896 sec
ZC Freq	13.8 Hz
Channel Test	Check (Freq = 0.0 Hz Amp = 0 mv)

	Tran	Vert	Long	
PPV	0.481	0.331	0.528	mm/s
ZC Freq	6.6	12.5	8.5	Hz
Time (Rel. to Trig)	0.593	-0.143	0.001	sec
Peak Acceleration	0.008	0.010	0.010	g
Peak Displacement	0.012	0.003	0.008	mm
Sensor Check	Check	Passed	Passed	
Frequency	7.5	7.5	7.5	Hz
Overswing Ratio	3.1	3.1	3.5	

Peak Vector Sum 0.552 mm/s at 0.001 sec





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div Sensor Check

Trigger =

Event Report

Date/Time	Tran at 14:26:27 June 17, 2024
Trigger Source	Geo: 0.127 mm/s
Range	Geo: 254.0 mm/s
Record Time	3.0 sec at 2048 sps
Operator/Setup:	Operator/Default Micromate DIN.mmb

Serial Number	UM10342 V 10-90GC Micromate DIN
Battery Level	3.8 Volts
Unit Calibration	June 11, 2024 by Saros Int
File Name	UM10342_20240617142627.IDFW

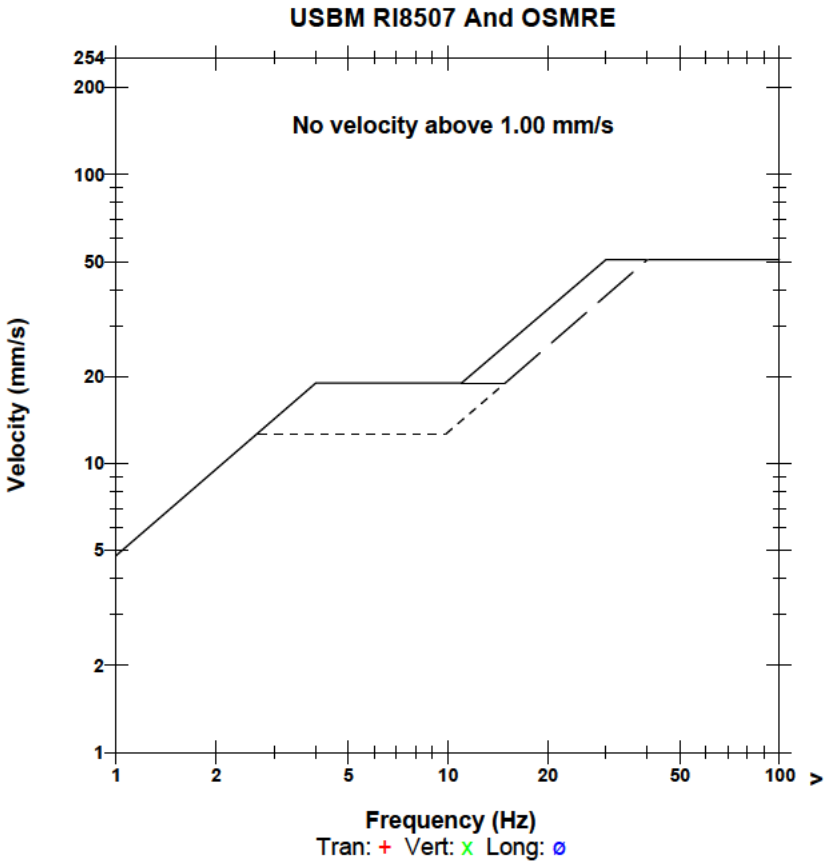
Notes: Additional Residence ([redacted] Keerrong Rd Blakebrook)

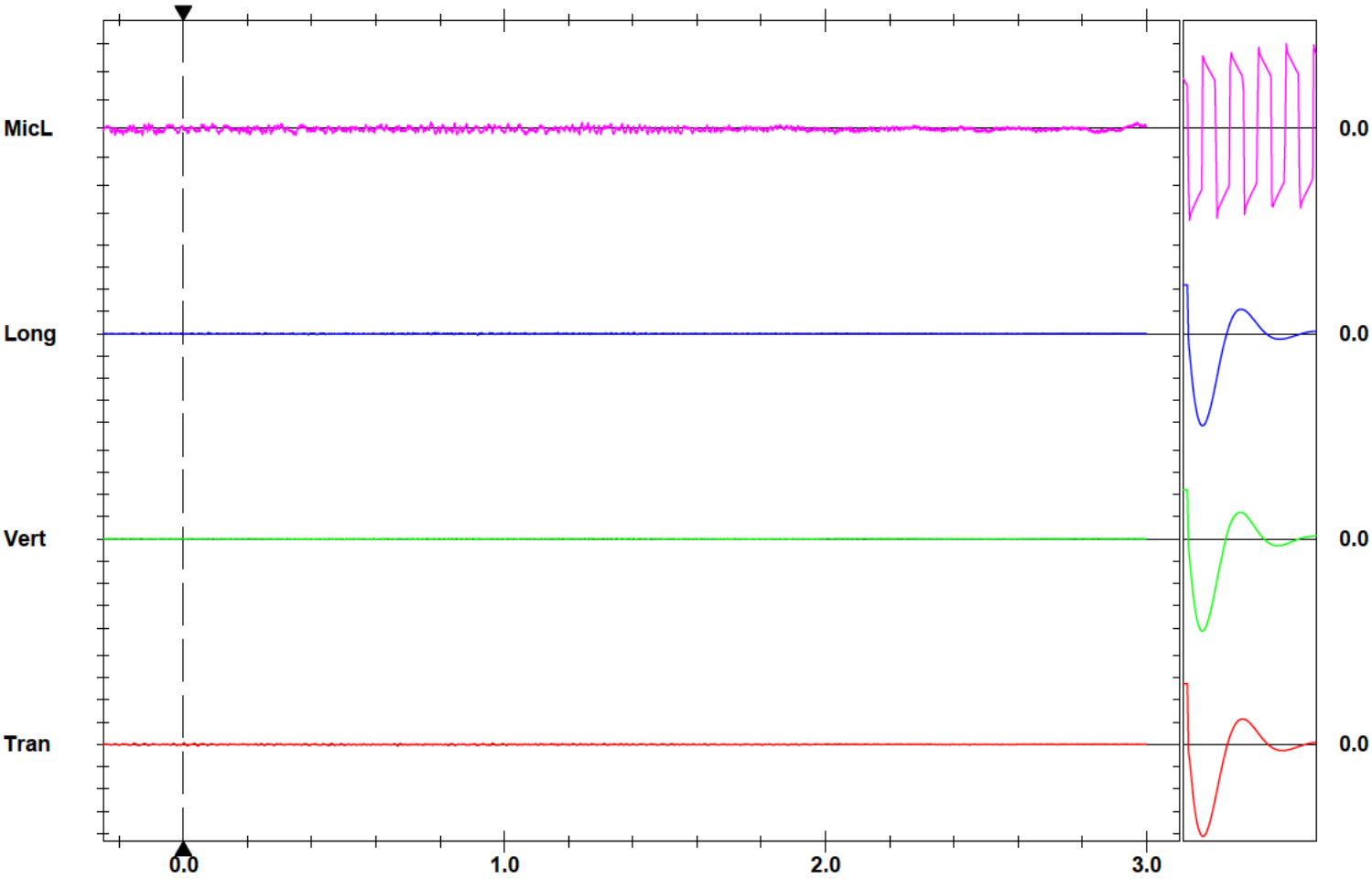
Microphone	Linear Weighting
PSPL	<88 dB(L)
ZC Freq	22 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 1502 mv)

	Tran	Vert	Long	
PPV	0.142	0.071	0.134	mm/s
ZC Freq	51	79	73	Hz
Time (Rel. to Trig)	0.002	1.263	0.917	sec
Peak Acceleration	0.010	0.008	0.010	g
Peak Displacement	0.000	0.000	0.000	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.1	7.5	7.3	Hz
Overswing Ratio	3.6	3.4	3.7	

Peak Vector Sum 0.145 mm/s at 0.002 sec

N/A: Not Applicable





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div Sensor Check

Trigger =

Event Report

Date/Time Tran at 14:28:05 June 17, 2024
Trigger Source Geo: 0.510 mm/s
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps

Serial Number BA17309 V 10.72-8.17 BlastMate III
Battery Level 6.3 Volts
Unit Calibration November 13, 2023 by Saros Int.
File Name __TEMP.EVT

Notes: Location 4 ([redacted] Booerie Creek Rd)

RON SOUTHON P/L
General:

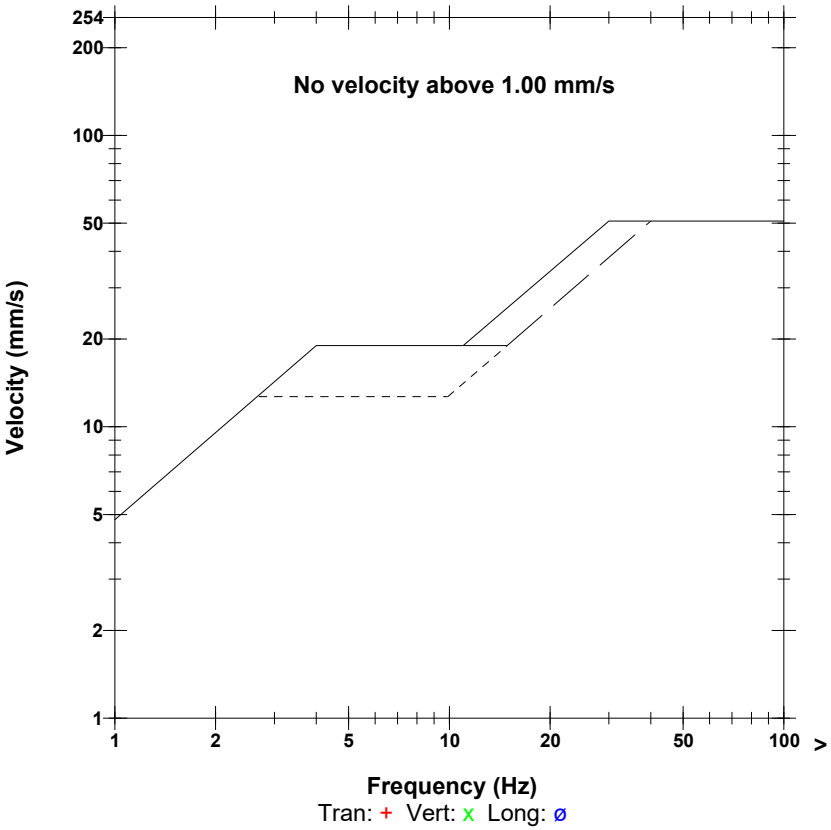
Extended Notes

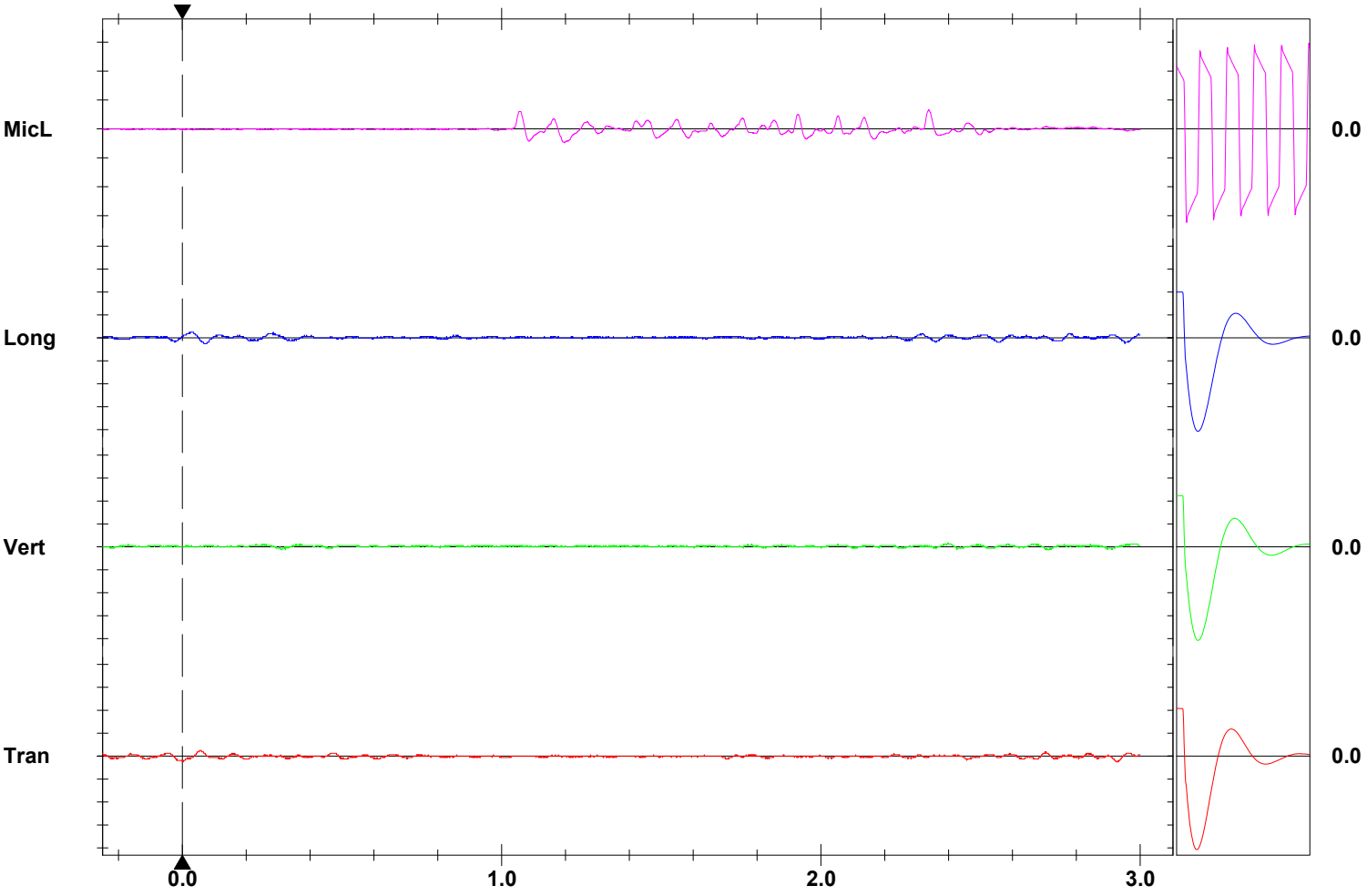
Microphone Linear Weighting
PSPL 110.6 dB(L) at 2.337 sec
ZC Freq 16 Hz
Channel Test Passed (Freq = 20.1 Hz Amp = 601 mv)

	Tran	Vert	Long	
PPV	0.508	0.381	0.508	mm/s
ZC Freq	13	30	11	Hz
Time (Rel. to Trig)	0.000	2.398	0.021	sec
Peak Acceleration	0.027	0.027	0.027	g
Peak Displacement	0.006	0.003	0.008	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.9	7.4	7.2	Hz
Overswing Ratio	3.5	3.3	3.8	

Peak Vector Sum 0.582 mm/s at 0.056 sec

USBM RI8507 And OSMRE





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 10.000 pa.(L)/div Sensor Check
Trigger =

Event Report

Date/Time	Long at 14:28:54 June 17, 2024
Trigger Source	Geo: 0.500 mm/s, Mic: 110.0 dB(L)
Range	Geo: 254.0 mm/s
Record Time	3.0 sec at 1024 sps
Operator/Setup:	Operator/factory.MMB

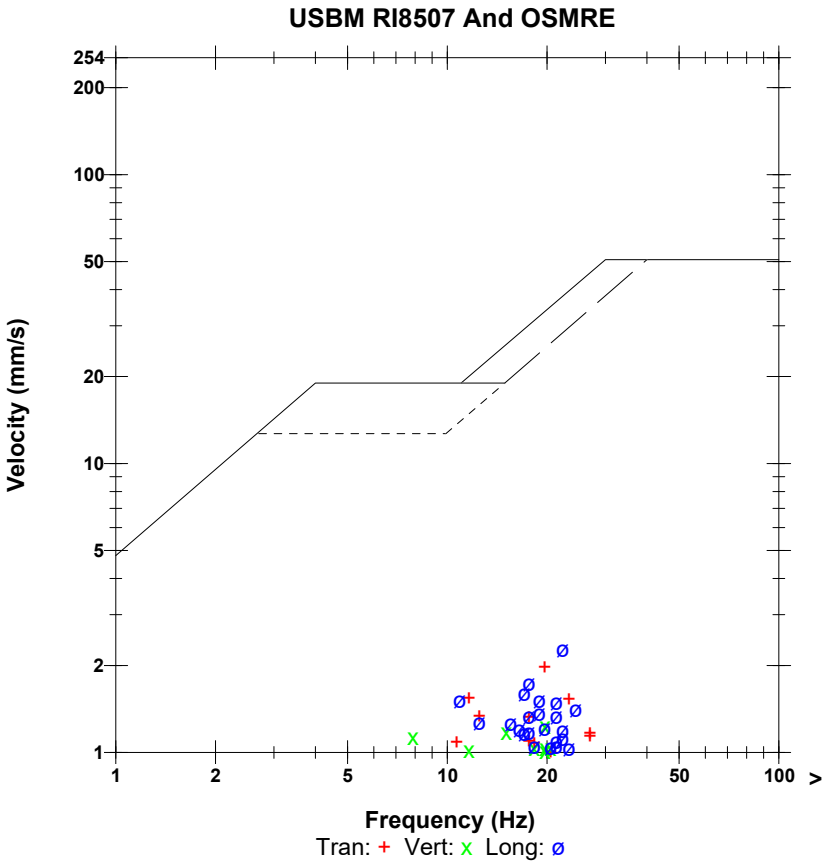
Serial Number	UM21716 V 10-90GC Micromate ISEE
Battery Level	3.8 Volts
Unit Calibration	June 9, 2023 by Instantel
File Name	UM21716_20240617142854.IDFW

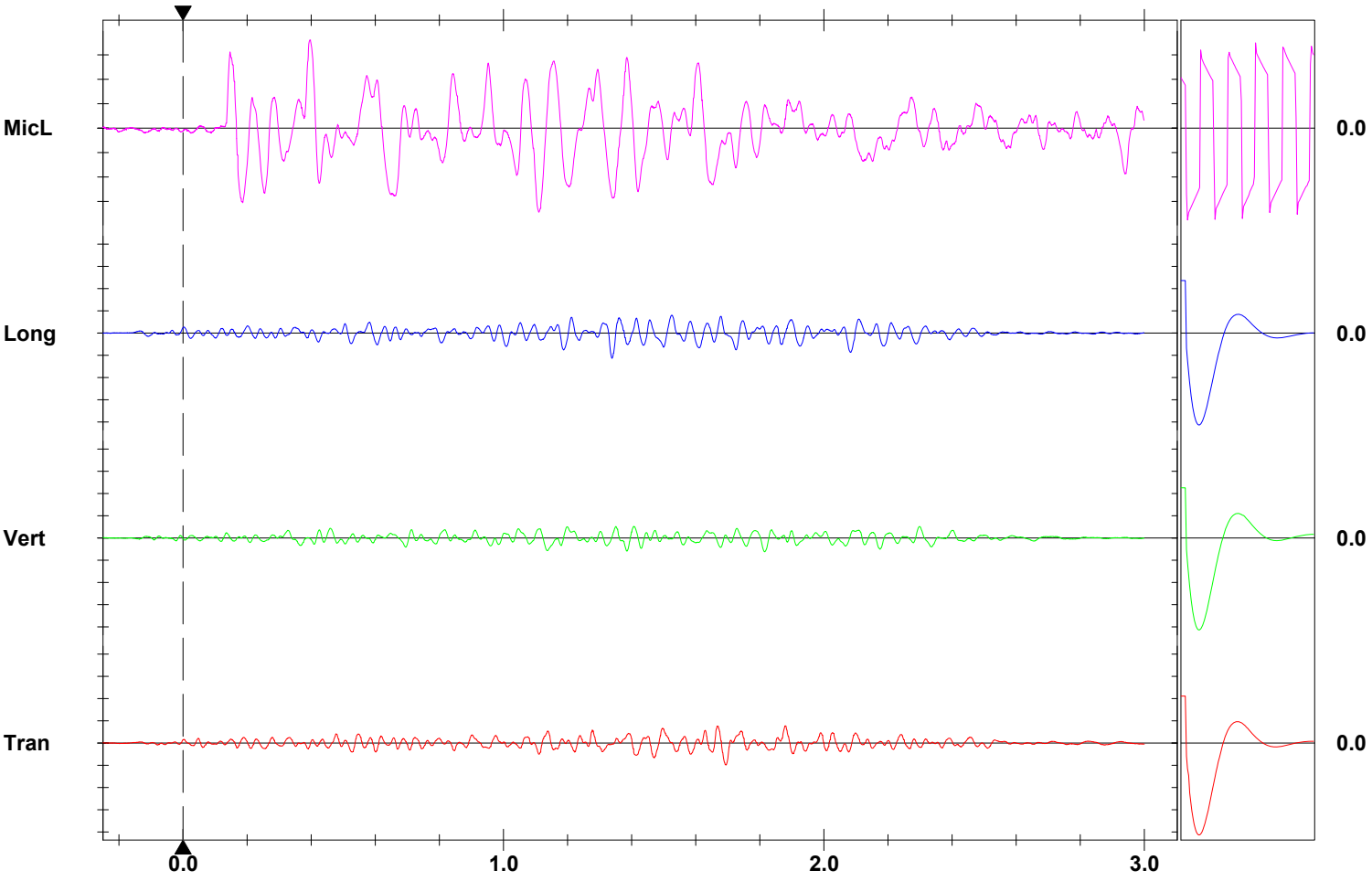
Notes: Location 8 ([redacted] Nimbin Rd Blakebrook)

Microphone	Linear Weighting
PSPL	105.1 dB(L) at 0.396 sec
ZC Freq	7.0 Hz
Channel Test	Passed (Freq = 20.5 Hz Amp = 1349 mv)

	Tran	Vert	Long	
PPV	1.978	1.237	2.278	mm/s
ZC Freq	20	20	22	Hz
Time (Rel. to Trig)	1.693	1.814	1.339	sec
Peak Acceleration	0.043	0.031	0.053	g
Peak Displacement	0.016	0.017	0.016	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.5	7.3	Hz
Overswing Ratio	4.3	3.7	4.9	

Peak Vector Sum 2.284 mm/s at 1.339 sec





Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div Sensor Check
Trigger =

Results Summary Report

Customer	Blakebrook Quarry
Date of blast	17/06/2024
Time of blast	2.28pm
Blast number	07
Monitor Location	**Location 2** ([redacted] Keerrong Rd Blakebrook)
Monitor name/ model details:	Instantel Micromate
Monitor Serial no	UM10341
Time of recording/comments	14.29pm
Calibration date	11-06-2024
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard *AS 2187.2-2006.*	Y
Airblast overpressure result (dB)	95.6dB(L)
Ground vibration result (PPV)	0.552mm/s
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s
Comments	

Monitor Location	**Location 4** ([redacted] Booerie Creek Road Booerie Creek)
Monitor name/ model details:	Instantel Blastmate III
Monitor Serial no	BA17309
Time of recording/comments	14.28pm
Calibration date	14-11-2024
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard *AS 2187.2-2006.*	Y
Airblast overpressure result (dB)	110.6dB(L)
Ground vibration result (PPV)	0.582mm/s
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s
Comments	

Monitor Location	**Location 8**– ([redacted] Nimbin Rd Blakebrook)
Monitor name/ model details:	Instantel Minimate
Monitor Serial no	UM21716
Time of recording/comments	14.28pm
Calibration date	09-06-2024
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard *AS 2187.2-2006.*	Y
Airblast overpressure result (dB)	105.1dB(L)
Ground vibration result (PPV)	2.284mm/s

EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s
Comments	

Monitor Location	**Additional residence (** Keerrong Rd)	
Monitor name/ model details:	Instantel Minimate Plus	
Monitor Serial no	UM10342	
Time of recording/comments	14.26pm	
Calibration date	11-06-2024	
Instrumentation used to measure the airblast overpressure and ground vibration levels meets the requirements of Australian Standard *AS 2187.2-2006.*		Y
Airblast overpressure result (dB)	<88dB(L)	
Ground vibration result (PPV)	0.145mm/s	
EPL limits	Airblast overpressure - 115 dB Ground vibration (PPV) - 5mm/s	
Comments		

Name:	[redacted]	
Signature:	[redacted]	
Position:	**Manager**	**Date: 17/06/2024**

Figure 2: Noise & Blast Monitoring Locations Map