## PhilBest313@gmail.com

From:	Phil Best <philbest313@gmail.com></philbest313@gmail.com>
Sent:	Monday, 4 April 2016 9:07 PM
То:	pollutionhotline@ehp.qld.gov.au
Cc:	Steven Miles - Labor for Mt Coot-tha (steven.miles@queenslandlabor.org); John
	Higgins (jhiggin2@bigpond.net.au); Helen Sutherland (hjsuther@bigpond.net.au);
	'Mtcoottha Electorate Office'
Subject:	RE: False Blast Vibration Recordings as directed by MCQ-SSE
Attachments:	QG-BlastMonitorProcess.PNG; InstatelMinimate.JPG

Further to my email to the Pollution Hotline where I advised that the MCQ-SSE was forcing the Heilig Technicians to monitor using only a soil spike instead of the standard concrete block method - which ensures accurate coupling and mounting of the (larger) tri-axial transducer.

Please see the attached documents.

I would be grateful if you could acknowledge receipt of my complaint and what action will be taken to ensure that all future readings use the standard method.

Please also note that there is a belief in some circles that the soil spike can sometimes give a higher reading.

- 1. Clearly soil aeration will reduce coupling.
- 2. Soil Spike method gives inconsistency which results in high variability. This makes is much harder for the published results to be accurately interpreted.

Yours Sincerely, Philip Best.

Philip Best - Electrical Engineer ABN: 64 056 607 713 3 Sir Samuel Griffith Drive Mt Coot-tha Toowong Qld 4066

p: 0411 123400 e: <u>PhilBest313@gmail.com</u> e: <u>Phil@StrategyKpi.com</u> w: <u>www.StrategyKpi.com</u> L: <u>http://au.linkedin.com/pub/phil-best/3/8b4/3a4</u>

From: Phil Best [mailto:PhilBest313@gmail.com]
Sent: Tuesday, 22 March 2016 12:49 PM
To: pollutionhotline@ehp.qld.gov.au
Cc: Benjamin Mulcahy (Benjamin.Mulcahy@bcc.qld.gov.au); Steven Miles - Labor for Mt Coot-tha (steven.miles@queenslandlabor.org); John Higgins (jhiggin2@bigpond.net.au); Helen Sutherland (hjsuther@bigpond.net.au)
Subject: False Blast Vibration Recordings as directed by MCQ-SSE
Importance: High

Further to my email of the 8<sup>th</sup> March I spoke to the Heilig people again about my request that standard block or epoxy transducer mounting be used instead of just placing the transducer into a mound of lose soil. They said that they cannot do this because Robert Bell has specifically directed John Heilig NOT to monitor using the concrete block/epoxy method.

For permanent monitoring points, it is standard practice to use the (small) semi-permanent concrete block or to glue a nut to a piece of concrete/rock using epoxy. Unless specifically directed by the customer this would normally be done because the particle attenuation would show a reduced and inconsistent blast monitor reading.

It is common sense that a piece of lose soil will have reduced density and hence lower connectivity to the blast vibrations.

We therefore submit that all readings be regarded as significantly lower than the true reading.

Yours sincerely, Phil Best.

Philip Best - Electrical Engineer ABN: 64 056 607 713 3 Sir Samuel Griffith Drive Mt Coot-tha Toowong Qld 4066

p: 0411 123400 e: <u>PhilBest313@gmail.com</u> e: <u>Phil@StrategyKpi.com</u> w: <u>www.StrategyKpi.com</u> L: <u>http://au.linkedin.com/pub/phil-best/3/8b4/3a4</u>