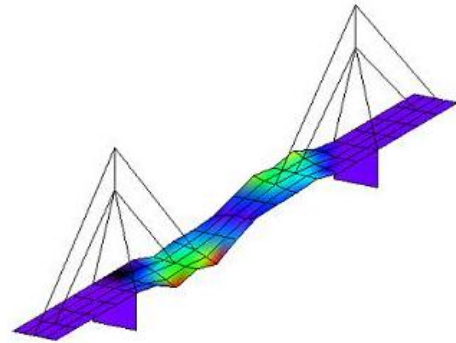


Vibration Monitoring & Analysis

We have the expertise and the equipment to perform a number of vibration monitoring tasks for your project. Starting from frequency and amplitude evaluation of pile driving or excavation work to vibration monitoring of superstructures, Metro Testing is capable to do the work.



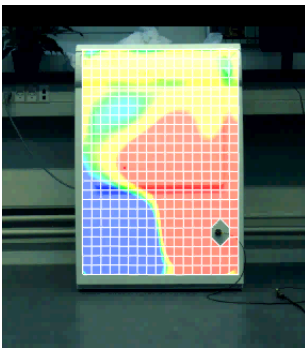
Vibration Monitoring for Construction Works



Effects and influences on people, equipment and buildings, resulting of heavy construction activity is a great concern for owners and municipalities. Our engineering team of specialists are able to deploy a number of wired and wireless sensors which are able to monitor and to log vibration levels within the proximity of active construction sites, evaluate the findings and provide immediate feedback to contractors and owners if threshold levels are observed. This will make your jobsite not only safer but also reduces the risk of liability.

Vibration Analysis of Equipment

Noise can be generated through vibrating sheet metal or faulty bearings. Our non-contact Laser based equipment allows us to determine vibration levels and scan areas of interest up to 200m in distance without the need to attach a sensor. Hazardous or inaccessible areas for humans can be evaluated and vibration levels or machinery, supports and equipment can be reported.

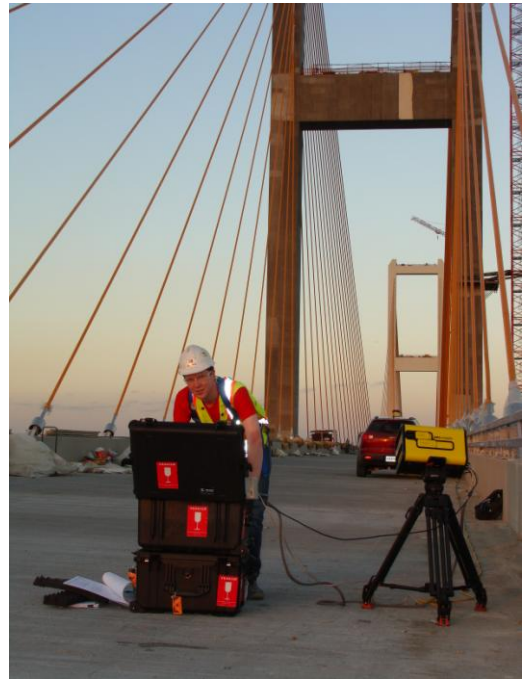


VIBRATION MONITORING



Vibration Analysis of Bridge Structures

Dynamic analysis of bridge structures is a field of significant interest. Our team of specialized non-destructive testing engineers provide measurement techniques and technical know-how to determine allowable vibration levels of new and existing bridges based on CAN CSA S6-06 and ASHTO requirements. We are able to dynamically determine deflections and vibration frequencies with technological solutions, which are non disturbing to traffic and cost effective.



Dynamic Analysis of Stay Cables

Stay cables are the most critical element of a cable stay bridge. We are capable to provide value added services to bridge designers, bridge engineers and owners to determine damping coefficients and tension forces, measured without lifting off cables or strands off the anchorage. Measurements are done via wired or wireless accelerometers systems or via Laser based vibrometer equipment. The results we obtain are reliable and accurate and our approach is more cost effective than traditional methods.



VIBRATION MONITORING

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