

Company Profile



Integrity Testing Limited & Integrity Testing Pty. Ltd

Integrity

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INTEGRITY TESTING

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Structural Testing Consultants

Integrity fundamentals

Integrity is a specialised structural testing consultancy predominately based in Australia.

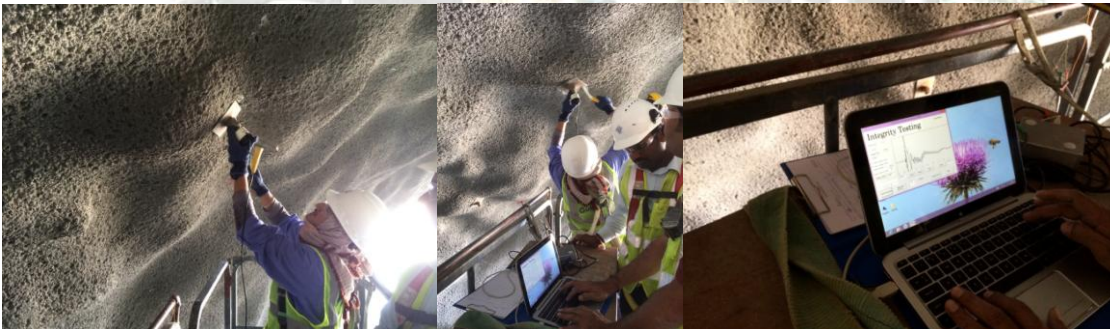
Integrity is in the business of identifying excess capacity in existing structures for clients to maximise the use of their assets.

Integrity has been instrumental worldwide in streamlining construction, reducing program times and physically reduction of construction activities for clients and contractors alike to the benefit of both.

Integrity has a track record of saving well over \$30 million for one individual client and countless others where the savings typically in the 5 to US\$10 million

Integrity is a small efficient company is highly mobile with ambitions to partner in the various countries and continents to expand the business and profit.

Integrity's experience ranges from deep underground mines



through civil tunnels marine structures, building to high rise and towers, structural failures



and possible everything in between.

1. Introduction

a. Company History UK

Integrity's presence in the UK started in late 2013 and continued thru 2014 to 2015, The Company was formed in February 2014 to progress opportunities with BAE and establish a UK base. Integrity was invited by BAE Systems Surface Ships Ltd (BAE) to submit a proposal for the testing and structural assessment of the jetties and wharf structures at HMNB Portsmouth. To date Integrity has successfully completed four contracts for BAE and is in discussion on further contracts.

Australia

Integrity Australia was formed as the Australian office of Materials Consultants Ltd. (MCL), originally founded in Hong Kong in 1978 and expanded to Asia in 1982 specialising in integrity pile testing and instrumentation of buildings and dams. The original founders of MCL being David Tongue (DJT), with over 40 years experience of materials and diagnostic evaluations and John Higgs (JSH), his specialties being the development of NDT testing techniques and research. JSH is a specialist in his field with over 30 years of experience. As Integrity, the Company specialises in "EI" evaluation of structures, integrity, pile testing and Non Destructive Testing (NDT), structural assessments of buildings and engineering structures, pavements runways and slopes. Investigation and supervision of road and rail projects. Supervising building repairs and later transfer of technology to the repair contractors in both Asia and Australia. In excess of 1,000 bridges – including 200 rail under bridges, 160 over rail bridges of varying construction from timber to complex suspension and truss bridges.

b. What the company does

As a technology led company, aimed at the higher end of the market, it carries out evaluation of structures, integrity, pile testing and Non Destructive Testing (NDT), structural assessments of buildings and engineering structures, pavements runways and slopes. Investigation and supervision of road and rail projects. Supervising building repairs and later transfer of technology to the repair contractors both in UK, Asia and Australia

2. Strategy

a. Vision statement

Integrity is a forward looking organisation technology led, that will seek out market opportunities to extend the use of its technology. This will not be confined to existing markets, but on a global basis. Along with this there will be continued enhancements to the technology so that it is accepted as the standard throughout the industry. Integrity will be putting in the building blocks to be able to action this vision.

b. Mission statement

Integrity is an industry leader in Non Destructive Testing of Foundations, Structures and Building Assessments. By using and continually enhancing our proprietary technology we will enable clients to further maximise utility and maintain value of their asset.

c. Values

Preservation and conservation of existing infrastructure, providing a means to build on the existing rather than replace with new.

d. Business goals & objectives

To secure the financial objectives of the Company with greatly improved profits, cash flow and returns to the shareholders. Gain a wider client base, and additional contracts with BAE.

Consolidate the UK position moving turnover from £458k (first year financials) to build a £1M to £1.5M business in year 2. Over the next three to five years we would be aiming for a business with an annual turnover of in excess of £5M.

e. Business strategy

Consolidate and expand the foot print in the UK, then roll out into other markets.

f. Economic intent

Profit making, and reinvestment of profits in further improving the service/technology.

3. Business concept**a. Business concept**

Measurement of excess capacity of existing structures and foundations using NDT methods.

b. Services

Technology

MOD-SHOCK™

This was developed in response to the perceived need for a system capable of measuring defects in structures, measurement of the EI of the various elements of the structures and an estimation of the potential load carrying capacity of these elements. The system was based around vibration testing of piles, which used a forced vibration into the piles and a system to measure its response; in essence a stress wave analysis of the element under test. The system did away with the need for a 50kg vibrator and revisited the technology to make it respond to a hammer blow, making it very portable. The results were validated against known truck loads traversing a bridge validated by “conventional means”. The system became fully operational and accepted in the 1990’s.

This breakthrough meant that building foundations and piles could be measured in situ, to identify and quantify the additional load that they could sustain. The traditional approach was dead weight load testing or PDA testing with the need to mobilise the piles which was not always feasible and very expensive. With a third of the cost of a high rise project in the foundations, the benefits of the system speak for themselves, and have been used to great success on such prestige heritage buildings as Myers and David Jones stores in Melbourne

DBTS™

This technology was developed to test bridges, identifying defects and most important, indicating the safe loading for bridges, in this instance in respect of railway rolling stock. It differs from MOD-SHOCK™ in that it will simultaneously capture data from 16 reference points (channels) to produce “Modal mode shapes” and by measuring the support of the bridge/deck or building floors, you are able to arrive at the allowable loading.

In practice this was first used in the 1980’s on the Jakarta to the major steelworks at Cilegon, where over 200 bridges & structures were tested on behalf of Davy British Rail. With ongoing development, this has been the standard adopted for testing a further 600 bridges and structures in Australia, and applicable to steel, girder and wood. It is particularly effective on the more historical structures where there may not be a record of the original construction.

c. Value chain

A construction/engineering service that sits between a developer and a construction firm operator.

4. Management & Ownership

a. Management structure

UK

Joint Chief Operating Officers (COO) – John Higgs (JSH) and David Tongue (DJT)

Australia

Joint Chief Operating Officers – John Higgs and David Tongue

b. Ownership Structure



UK

JSH – 50%
DJT – 50%

Australia

JSH – 50%
DJT – 50%

c. Directors

UK

JSH and DJT

Australia

JSH, DJT and Rini Tongue

d. Management/MO

UK and Australia

JSH and DJT COOs.

Extensive use of highly skilled and technically competent internal consultants, sub-contractors who review and supervise on site results, sense check them and request re testing where appropriate.. They are supported by operatives who carry out the physical testing.

Once the results have passed this stage they are uploaded and reviewed for consistency etc by DJT and peer reviewed by JSH (and vice versa) Reports and conclusions are produced and signed off by JSH or appropriate experts.

e. Office and administrative personnel

UK and Australia

GM Higgs Administration and Finance

Main company contact:

John S Higgs FIEAust CPEng MICE CEEng NPER RPEQ

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5. Business, Administrative & Contact Information

a. Business name:

UK - Integrity Testing Limited
Australia: Integrity Testing Pty. Ltd

b. Business type:

Private Limited Company

c. Company registration number:

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Australia ABN 66 061 419 985

d. VAT number:

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Australia GST 66 061 419 985

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