

Ground Improvement

- **VIBRO TECHNIQUES**
Design solutions for vibro stone columns and vibro compaction.
- **SOIL MIXING**
Both wet and dry deep soil mixing solutions.
- **RIGID INCLUSIONS**
Design of rigid inclusions for settlement control.
- **GROUTING**
Compaction grouting for void filling and compensation grouting for settlement control.

Ground Improvement

Ground improvement is an economic option to strengthen the ground and provide enhanced settlement control. Ground improvement covers a wide range of geotechnical techniques from vibro stone columns, through vibro compaction, soil mixing, ridged inclusions and certain grouting techniques.

With our practical experience and analytical expertise we can guide you through the selection, design and validation of the ground improvement solution that most suits your project.

CASE STUDY

Stevens Croft 44MW bio-mass energy plant supported on 2,000 vibro stone columns installed through interbedded saturated sand and silt. The design called for a settlement limit of 20mm under a maximum foundation pressure of 250kPa. Validation of ground improvement performance included execution of a 234t zone load test. (Work undertaken with Keller)

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