Over the past 50 years, Terracon has compiled nearly $1 billion of subsurface characterization data. The dramatic enhancement of accessibility to GIS-based information in the public domain provides our clients even more value when using Expected Geotechnical Conditions consulting to help in project feasibility studies, site selection, and preliminary budgeting.

Geotechnical Data Mining and Conditions Reporting is an essential step of a 5-Step program that Terracon has developed for Geotechnical Site Characterization in the 21st century. This integrated approach solves our clients’ needs in a unique manner with emphasis on technological innovation.

After this initial step, our team works on Step 2-Methods Consulting. This is a process that takes our awareness of the site conditions that will be encountered, incorporates our client’s project plans, and develops a smart exploration plan to safely gather field and laboratory data for the project.

With geopractioners located in more than 150 locations across the country, Terracon is leading our profession into this new way of exploration before we ever get on site.

**Introduction**

Terracon has developed processes for compiling, managing, and using GIS methods to analyze and present the following data:

Publically available information related to:
- Soil survey
- Surface geology
- Glacial geology
- Bedrock topography
- Hydrography/floodplains
- Topography
- Corrosivity
- Wetlands
- Landslides
- Surface and underground mines
- Karst features and regions

Terracon Information related to:
- Geotechnical engineering reports
- Soil borings and CPT soundings
- In-situ and laboratory test results
- Geophysical surveys
- Groundwater information
- Load test results

**Expected Geotechnical Conditions Reporting**

Resources are then reviewed by local geotechnical practitioners to develop a Report of Expected Geotechnical Conditions (REGC). The REGC may contain the following:

- Description of the planned construction
- A clear and vivid explanation of the preliminary nature of the expected geotechnical conditions.
- Description of the means used to collect, assimilate and manage the data
- A listing of the public and private information sources used in the evaluation.
- Graphical presentation of the data collected.
- A delineation of area(s) for the specific project that are expected to exhibit similar geotechnical conditions.
- Description of exploration methods that would be necessary to develop the geotechnical parameters necessary for design.
- Risk analysis for landslide susceptibility, ground subsidence, trench constructability, and others.
WHY TERRACON?

**Resourceful.** Terracon enables you to evaluate sites for proposed developments prior to performing any field explorations, saving you time and money.

**Responsive.** Through our national network of offices, drilling and CPT fleets, geophysical capabilities, and accredited laboratories, Terracon can act quickly to develop a “SMART” exploration and testing program providing you the most cost-effective manner to compile and synthesize data.

**Reliable.** We deliver high-quality, expert soil and rock characterization using diverse exploration methods and software. This ensures the accurate and precise results you need to be successful.

“Understanding geotechnical site characterizations is essential for establishing the most cost-effective foundation for any successful project.”

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**Services available in all 50 states**

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**ENGINEERING SUCCESS**

2015 *Engineering News-Record* Ranking
Top 500 Design Firms  #35

2014 *Engineering News-Record* Rankings
- General Building  #15
- Hazardous Waste  #19
- Top 200 Environmental  #69
- Top 100 Pure Designers  #17

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