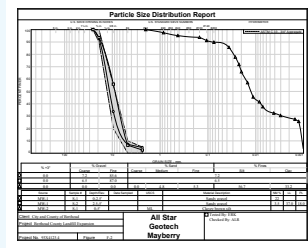


## Classification Suite

Combines Grain Size, Atterberg Limits and Classifications

### Grain Size Test Standards

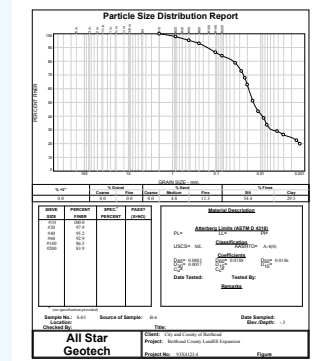
- ▷ ASTM Standards:
  - C 136 Concrete Aggregate
  - D 422 Mechanical and Hydrometer Particle Size
  - D 1140 Material Finer than #200 Sieve
- ▷ AASHTO Standards:
  - T 11 Material Finer than #200 Sieve
  - T 27 Sieve Analysis of Fine and Coarse Aggregate
  - T 88 Particle Size Analysis of Soils
- ▷ Other Standards:
  - Many state specific DOT standards
  - Australian AS 1141.11, 1289.3.6.1



One of many grain size report formats

### What is Calculated for You:

- ▷ Sieve percentages (i.e., percent finer) and conformance to specification
- ▷ Fractional percentages (e.g., percent gravel, coarse, medium and fine sand, etc.)
- ▷ Calculated diameters and various percentages (e.g., D10, D30, D60)
- ▷ Fineness modulus
- ▷ Multiple sample splits for sieve tests
- ▷ Hydrometer results
- ▷ Coefficients of concavity and uniformity (C<sub>c</sub> and C<sub>u</sub>)
- ▷ Natural moisture
- ▷ Index values (liquid and plastic limit, plasticity and liquidity index, liquidity index)
- ▷ ASTM D 2487 including group name
- ▷ Burmister descriptions



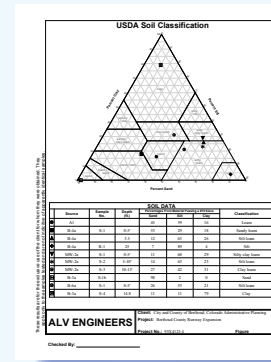
One of many grain size report formats

### Atterberg Limits Test Standards

- ▷ ASTM D 4318 Liquid and Plastic Limits
- ▷ AASHTO Standards:
  - T 89 Liquid Limit of Soils
  - T 90 Plastic Limit of Soils
- ▷ Australian Standards:
  - AS 1289 3.1.1, 3.2.1, 3.3.1

### Easily Learned Interface for You and Your Staff

- ▷ All data entry screens have a tabs - easily move from one to another with a quick mouse click
- ▷ Choose from pre-defined grain size sieve nests saving you data entry time
- ▷ Container weight database: The software can be set up to keep a list of IDs and weights for sample containers
- ▷ Distribution curve shown directly on the data entry screen



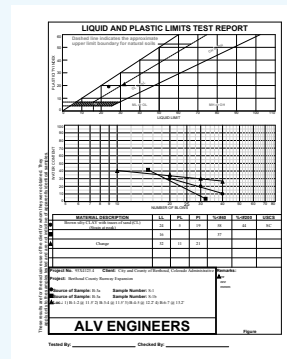
USDA Textural Chart

### Your Comprehensive Data Management Solution

- ▷ The Classification Suite is one of 5 modules that are connected to the GEOSYSTEM Boring Log (LD4) program or the Data Manager (GDM) program. LD4 and GDM manage data by project, sample source (such as boring or stockpile) and sample.
- ▷ Other GDM modules are available for consolidation, shear, CBR, R-Value, and compaction QC reports.
- ▷ Connect to other software through export of XML

### Classifications Standards

- ▷ ASTM Standards:
  - D 2487 Standard Classification of Soils
  - D 3282 Standard Classification for Highway Construction
- ▷ AASHTO Standard
  - M 145 Classification for Highway Construction
- ▷ Other Standards:
  - USDA
  - Australian AS 1726
  - Burmister



One of many Atterberg limits report formats

### Report Your Test Data Confidently

- ▷ Create PDF files to post to private client web pages
- ▷ Include any corporate policy note in margin of reports
- ▷ Grain sizes can be reported on semi-log, x<sup>0.45</sup>, Wentworth (Phi scale), or log-probability (filter media)
- ▷ Set margin widths and may include signature line
- ▷ Shaded, multiple specification grain size envelopes
- ▷ Grain size curves may be plotted in color
- ▷ USDA textural triangle chart report
- ▷ Selectable particle size chart scales

More information on the Classification Suite and the entire line of **GEOSYSTEM®** Software at our website.