### Uniform Soil Groups for Pipe Installation

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<th>Soil Class</th>
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| **Class I**<sup>2</sup> | Crushed Rock  
100% passing 1-1/2 in. sieve,  
\(\leq 15\%\) passing #4 sieve,  
\(\leq 25\%\) passing 3/8 in. sieve,  
\(\leq 12\%\) passing #200 sieve | | |
| **Class II**<sup>3</sup> | Clean, Coarse Grained Soils  
Or any soil beginning with one of these symbols (can contain up to 12% fines)  
Uniform fine sands (SP) with more than 50% passing a #100 sieve should be treated as Class III material | GW, GP, SW, SP |
| **Class III** | Coarse Grained Soils With Fines  
Or any soil beginning with one of these symbols | GM, GC, SM, SC |
| **Class IV** | Sandy or Gravelly Fine Grained Soils  
Or any soil beginning with one of these symbols, with \(\geq 30\%\) retained on #200 sieve | ML, CL |
| **Class V**<sup>4</sup> | Fine-Grained Soils  
Or any soil beginning with one of these symbols, with \(< 30\%\) retained on a #200 sieve | ML, CL |
| **Class V**<sup>4</sup> | Fine-Grained Soils, Organic Soils  
High compressibility silts and clays, organic soil | MH, CH, OL, OH, Pt |

1 Soil Classification descriptions and symbols are in accordance with ASTM D2487 and ASTM D2488  
2 For Class I, all particle faces shall be fractured.  
3 Materials such as broken coral, shells, slag, and recycled concrete (with less than 12% passing a #200 sieve) should be treated as Class II soils.  
4 Class V soil is not suitable for use as a bedding or initial backfill material.

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Table 6-1 from NCPI's Vitrified Clay Pipe Engineering Manual. See Chapter 6 for a full discussion of soil groups and bedding classes.