**Mineral Assemblages with Moderate to High Acid-Neutralizing Potential:**

**Tintic Mining District, Utah and Juab Counties, Utah**

**High-altitude AVIRIS Mapping Results**

**Phyllosilicates, Carbonates, Sulfates, and Sorosilicates**

- **Sulfate Minerals (*)**
  - alunite
  - alunite + kaolinite +/- sericite
  - kaolinite (75%) + alunite (25%)
  - alunite + pyrophyllite +/- sericite

- **Kaolinite Group Minerals**
  - kaolinite + illite/muscovite or smectite
  - kaolinite (well-crystallized)
  - kaolinite (poorly crystallized and/or impure float)
  - halloysite
  - dickite (*)
  - pyrophyllite
  - kaolinite + pyrophyllite

- **Carbonate Minerals**
  - calcite
  - calcite + muscovite
  - dolomite
  - calcite + dolomite +/- montmorillonite
  - calcite + kaolinite
  - epidote (usually occurs with calcite)

* Mapped minerals and mineral mixtures which often occur with pyrite and other sulfide minerals, indicating moderate to high potential for acid generation.