# Lime Based Mix Designs for Various Soil Types

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>Well-graded gravels and gravel-sand mixtures</th>
<th>Poorly-graded gravels and gravel-sand mixtures</th>
<th>Silty, gravelly-sand-silt mixtures</th>
<th>Clayey, gravelly-sand-clay mixtures</th>
<th>Silty sands and sand-clay mixtures</th>
<th>Clayey sands and silt-clay mixtures</th>
<th>Inorganic silts, very fine sands, rock flour, silt or clayey fine sands</th>
<th>Inorganic clays of low plasticity</th>
<th>Inorganic clays of medium to high plasticity</th>
<th>Inorganic clays of high plasticity, fat clays</th>
<th>Organic clays of medium to high plasticity</th>
<th>Peat, muck, and other highly organic soils</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unified Group Symbol</td>
<td>GW</td>
<td>GP</td>
<td>GM</td>
<td>GC</td>
<td>SW</td>
<td>SP</td>
<td>SM</td>
<td>SC</td>
<td>ML</td>
<td>CL</td>
<td>OL</td>
<td>MH</td>
</tr>
<tr>
<td>AASHTO Group Classification</td>
<td>A-1-a</td>
<td>A-1-a</td>
<td>A-1-b</td>
<td>A-1-b</td>
<td>A-1 or A-3</td>
<td>A-2-4 or A-2-5</td>
<td>A-2-6 or A-2-7</td>
<td>A-4</td>
<td>A-6</td>
<td>A-4</td>
<td>A-5</td>
<td>A-7-6</td>
</tr>
</tbody>
</table>

## Recommended Additives

1. **LIME or EnviroLime (Soil Drying)**
   - Lime
   - Lime Kiln Dust
2. **LIME or EnviroLime² (Stabilization² & Modification)**
   - Lime or Lime Kiln Dust
   - Pozzolanic Material
3. **LIME Blended with a Pozzolanic Material (Stabilization³)**

## Notes:
1. Hatched areas indicate soil classification ranges that may be less reactive with the suggested additive or not the typical "first choice" additive within that soil range.
2. The available oxides in EnviroLime² (Lime Kiln Dust) may fluctuate resulting in varying degrees of stabilization potential.
3. Geotechnical laboratory testing is highly recommended for any soil to be stabilized with any additive.