<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Description</th>
<th>Location</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>T203</td>
<td>Fresh quartz porphyry with minor feldspar</td>
<td>Site A</td>
<td>Mature granite contact</td>
</tr>
<tr>
<td>T204</td>
<td>Felsic granitoid with quartz phenocrysts</td>
<td>Site B</td>
<td>Immature granite contact</td>
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<tr>
<td>T205</td>
<td>quartz monzonite with minor feldspar</td>
<td>Site C</td>
<td>Late-stage mineral alteration</td>
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<tr>
<td>T206</td>
<td>Pegmatoid granitoid with quartz megacrysts</td>
<td>Site D</td>
<td>Post-magmatic hydrothermal alteration</td>
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</table>

**Rocks and Minerals**

- Quartz: Abundant in all samples, with varying grain size.
- Feldspar: Present in minor amounts, showing oscillatory zonation.
- Micas: Fine-grained, typically occurring in interstitial positions.

**Mineralogy**

- Quartz: High purity, with significant variation in crystal size.
- Feldspar: Monocrystalline to polycrystalline, with typical soda-rich composition.
- Micas: Hornblende and biotite, showing typical cleavage patterns.

**Textural Features**

- Porphyritic texture: Characteristic of fresh quartz porphyry samples.
- Micaceous: Common in pegmatoid samples, indicating late-stage crystallization.
- Pegmatitic: Present in quartz monzonite, showing complex mineral assemblages.

**Alteration**

- Hydrothermal alteration: Observed in pegmatoid samples, affecting feldspar and quartz.
- Contact metasomatism: Marked in quartz monzonite, with significant mineralogical changes.

**Geochemistry**

- Alkali elements: Predominantly Na and K, with Fe and Mg in minor quantities.
- Trace elements: Variably enriched, with notable anomalies in U and Th.

**Sample Preparation**

- Samples were crushed and sieved to ensure accurate mineralogical assessment.
- Chemical analysis conducted using standard ICP-MS techniques.