**Contact**

A, away from observer

**WORLD ROCK MAJOR AND TRACE ELEMENT COMPOSITIONS**

**PLANAR FEATURES**

- **contacts**
  - regional contact
  - internal contact
- **pockets**
  - regional pocket
  - internal pocket
- **inclusions**
  - regional inclusion
  - internal inclusion
- **inclusions**
  - regional inclusion
  - internal inclusion
- **grins**
  - regional grin
  - internal grin
- **poles**
  - regional pole
  - internal pole
- **axes**
  - regional axis
  - internal axis
- **cross sections**
  - regional cross section
  - internal cross section

**EXPLANATION OF MAP SYMBOLS**

- **contacts**
  - regional contact
  - internal contact
- **pockets**
  - regional pocket
  - internal pocket
- **inclusions**
  - regional inclusion
  - internal inclusion
- **grins**
  - regional grin
  - internal grin
- **poles**
  - regional pole
  - internal pole
- **axes**
  - regional axis
  - internal axis
- **cross sections**
  - regional cross section
  - internal cross section

**REFERENCES**

- Blake, D. E. 1994, Intrusive and deformed relationships of the Crabtree Creek Pluton in western Raleigh, North Carolina: Intraplane Units: Easternmost Carolina Terrane. [Further information is provided in Blake et al., 2001.]

**MAP LOCATION**

- **Scale**: 1:7,500
- **Geologic Map**: Digital representation by Blake et al., 2001
- **URL**: http://www.ncgsonline.info

**DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES**

- **Division of Land Resources**
  - **James O. Smoak, State Geologist**
  - **North Carolina Geological Survey**
  - **Geologic Map Series 15**

**GEOLOGIC MAP OF THE RALEIGH WEST 7.5-MINUTE QUADRANGLE, WAKE COUNTY, NORTH CAROLINA**

**BY DAVID E. BLAKE**

- **Digital representation by Blake et al., 2001**
- **2008**

**Description of Map Units**

- **Granite**: Coarse-grained, bright pink and red, porphyritic granite, with large feldspar and quartz phenocrysts. Commonly foliated and banded. Occurs as large batholiths and dikes. Also found as small veins and veins within other rocks. Good for construction and road building.
- **Diabase**: Dark green, fine-grained, gabbroic diabase, with small olivine and pyroxene phenocrysts. Moderately foliated and banded. Found as dikes and sills. Good for road building and construction.
- **Quartzite**: White, fine-grained, quartzite, with large quartz phenocrysts. Moderately foliated and banded. Found as dikes and sills. Good for road building and construction.

**Geologic Time Periods**

- **Precambrian**: Contains early and late Precambrian rocks. Early Precambrian rocks are gray, medium-grained, and quartz-rich, while late Precambrian rocks are pink, fine-grained, and feldspar-rich.
- **Proterozoic**: Contains early and late Proterozoic rocks. Early Proterozoic rocks are dark green, fine-grained, gabbroic diabase, while late Proterozoic rocks are white, fine-grained, quartzite.

**Geologic Maps**

- **Map Area**: Raleigh West 7.5-Minute Quadrangle, Wake County, North Carolina.
- **Scale**: 1:7,500
- **Date**: 2008

**Contact Information**

- **For more information, visit**: http://www.ncgsonline.info

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- **Thanks to**: Edward F. Stoddard, Matt Heller, and Kevin Stewart for reviewing the map.