



## Virginia

### Radford Army Ammunition Plant

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#### ***Facility and Location***

Radford Army Ammunition Plant (RFAAP) is a government-owned, contractor-operated (GOCO) facility located in Radford, approximately 40 miles west of Roanoke. Operational since 1941, RFAAP manufactures solid propellants used in small arms (sporting and military), anti-aircraft, tanks, artillery, and small rockets. RFAAP also loads, assembles, and packs medium caliber ammunition and mortar cases. The facility was recently modernized to include a small-scale production facility for insensitive trinitrotoluene or other advanced energetic materials and a fully capable developmental laboratory.

#### ***Media Sampled and Findings***

**Drinking Water** — Prior to 2007, three samples from drinking water intake points reported no detection. Drinking water from raw water intake points at two drinking water plants under the Unregulated Contaminants Monitoring Rule also reported no detection.

**Groundwater** — In 2011, 16 of 22 samples detected perchlorate from 0.24 to 13.8 ppb. In 2010, 8 of 17 samples detected perchlorate from 2.8 to 143 ppb. In 2009, 6 of 16 samples detected perchlorate from 1.3 to 127 ppb. In 2008, 23 of 35 samples detected perchlorate from 0.13 to 81.9 ppb. In 2007, 76 of 112 samples detected perchlorate from 0.07 to 101 ppb. Prior to 2007, 2 of 113 samples detected perchlorate with a high of 140 ppb.

**Surface Water** — In 2011, four of four samples detected perchlorate from 0.21 to 0.22 ppb. In 2007, nine of nine samples detected perchlorate from 0.14 to 5.66 ppb. Prior to 2007, 1 of 28 samples detected perchlorate at 1.71 ppb.

#### ***Appropriate Actions***

Samples were below the EPA and DoD Preliminary Remediation Goal of 15 ppb. RFAAP conducts semi-annual sampling under a Resource Conservation and Recovery Act (RCRA) Open Burning Ground Operating Permit. In August 2007, a permit modification was submitted by RFAAP to add corrective action to address groundwater and source areas. A draft permit was received from the Virginia Department of Environmental Quality in 2011 and efforts continue regarding this permit modification process.