Well Location and Setting

- Location (Figure 1)
 - Top of ridge ~ 2,030 ft mean sea level
 - 2,500 ft east of New River floodpain at RAAP (Rolled Powder Area)
 - 4,200 ft east/southeast of New River
 - 4,600 ft east/southeast of RAAP Horseshoe Area (HSA)
 - Not Downgradient from RAAP

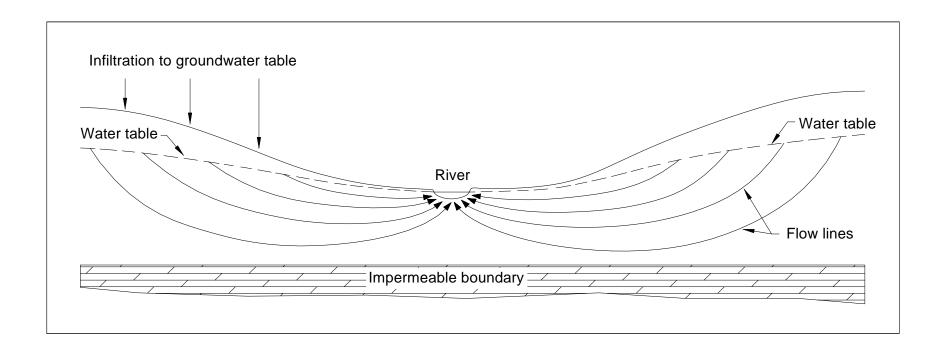
Well

- Depth 430 ft intake at 400 ft
- 72 ft to bedrock
- Bedrock Lithology red shale

General Hydrogeology

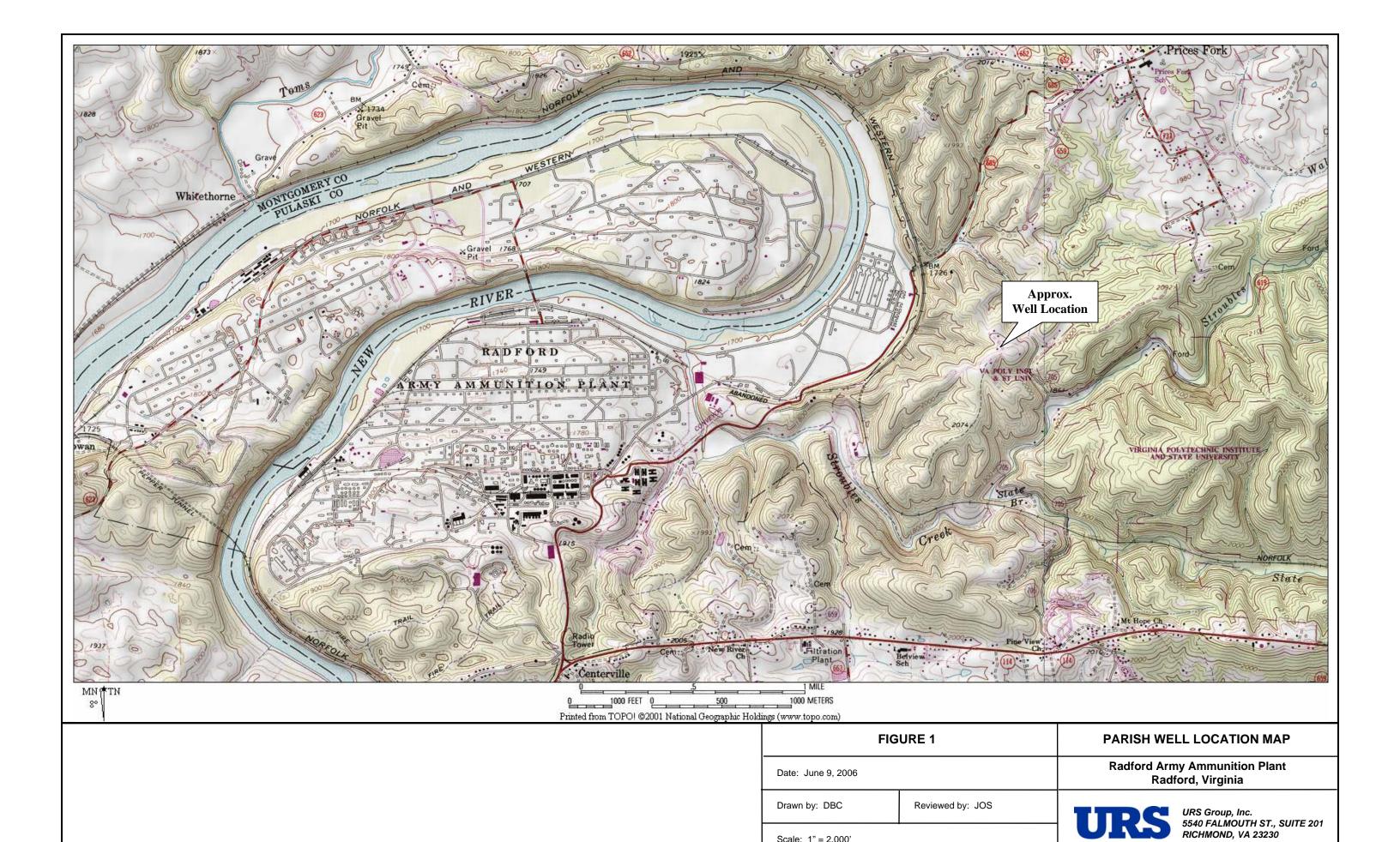
- New River is local and regional discharge area for groundwater and acts as hydraulic barrier
- Groundwater flow generally from ridges to valleys
 - Typically in local isolated flow systems rather than regional
- Groundwater gradient and flow direction at RFAAP toward river both in Main Manufacturing Area (MMA) and Horseshoe Area (HSA)
- Preferential flow paths to valleys can occur, particularly in karst terrane via permeable fractures zones, dissolution zones, etc.

Typical Groundwater Discharge to River



Geology and Hydrogeology of Well Area

- Well located in fault block (Price Mountain Window – Figure 3-6) isolated from RAAP
 - No identified structural features (photolineaments, fractures, etc.) connecting RAAP with well area
 - Bedrock is Price Formation shale, siltstone, and sandstone – not karst terrane found at RAAP
 - Well not downgradient from RAAP
 - Groundwater flow in well area from ridge northeast toward New River
 - New River will act as hydraulic barrier for groundwater flow from RAAP



Scale: 1" = 2,000'

