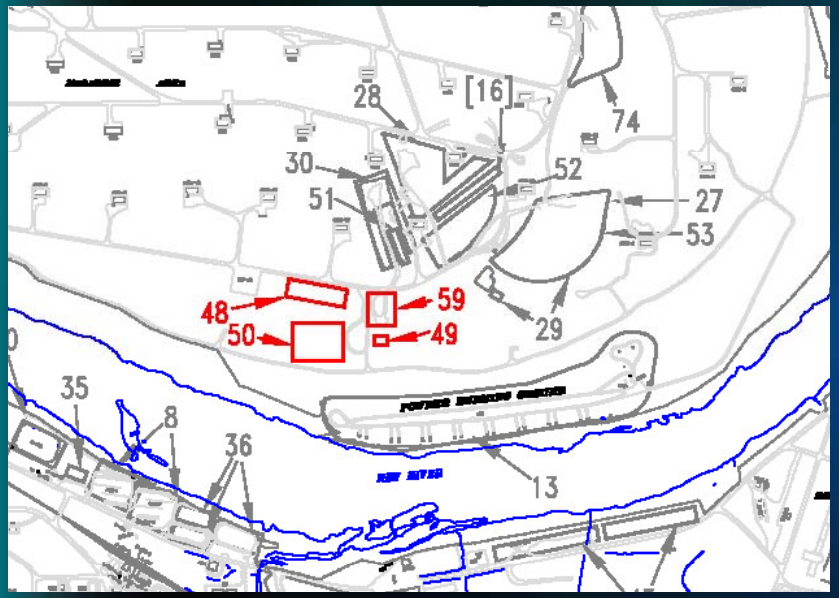
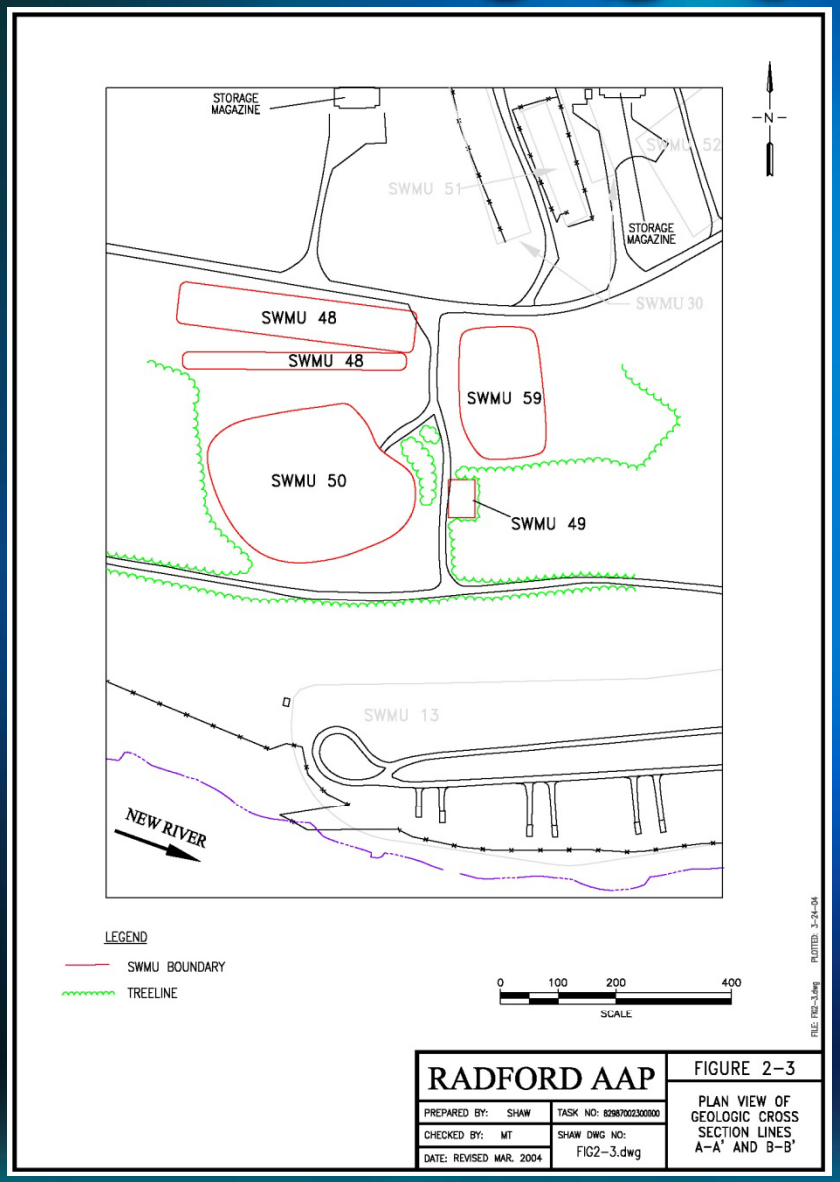
SWMU 48/49 Site Map





SWMU 48/49

- Consists of two unlined trenches identified as the northern and southern trenches where an estimated 200,000 gallons of oily wastewater was reportedly disposed
  - Northern trench area is approximately 65 ft wide by 375 ft long
  - Southern trench area is approximately 30 ft wide by 375 ft long
- Soil sample results indicate that red water ash associated with SWMU 49 was disposed in the SWMU 48 disposal trenches
  - 1998 RFI test pit indicates burial of black pellet-like material and light colored fibrous material buried in the southern trench area
  - Shaw believes SWMUs 48 and 49 were mislabeled/identified
- Site is located on a long, narrow, grassy hill that trends east to west next to an asphalt road. SWMU 50 is located immediately south of the site. The topography descends to the New River, forming a ridge crest approximately 450 ft south of the SWMU and sloping steeply down about 120 ft to the river
- Southern trench area is very apparent due to subsidence of its soil cover

Shaw®

SWMU 48/49 Interim Measures Soil Excavation

- In 2011, Interim Measures were approved to address elevated constituents of metals in soil at SWMU 48.
- Approximately 3,392.99 CY of non-hazardous soil and 101.61 tons of hazardous soil was excavated from SWMU 48.
- The southern trench of SWMU 48 was backfilled with certified clean fill, returning it to existing grade.
- An additional Interim Measures Work Plan is currently under review, addressing the groundwater monitored natural attenuation planned for the sites.

ARSAR Site Map

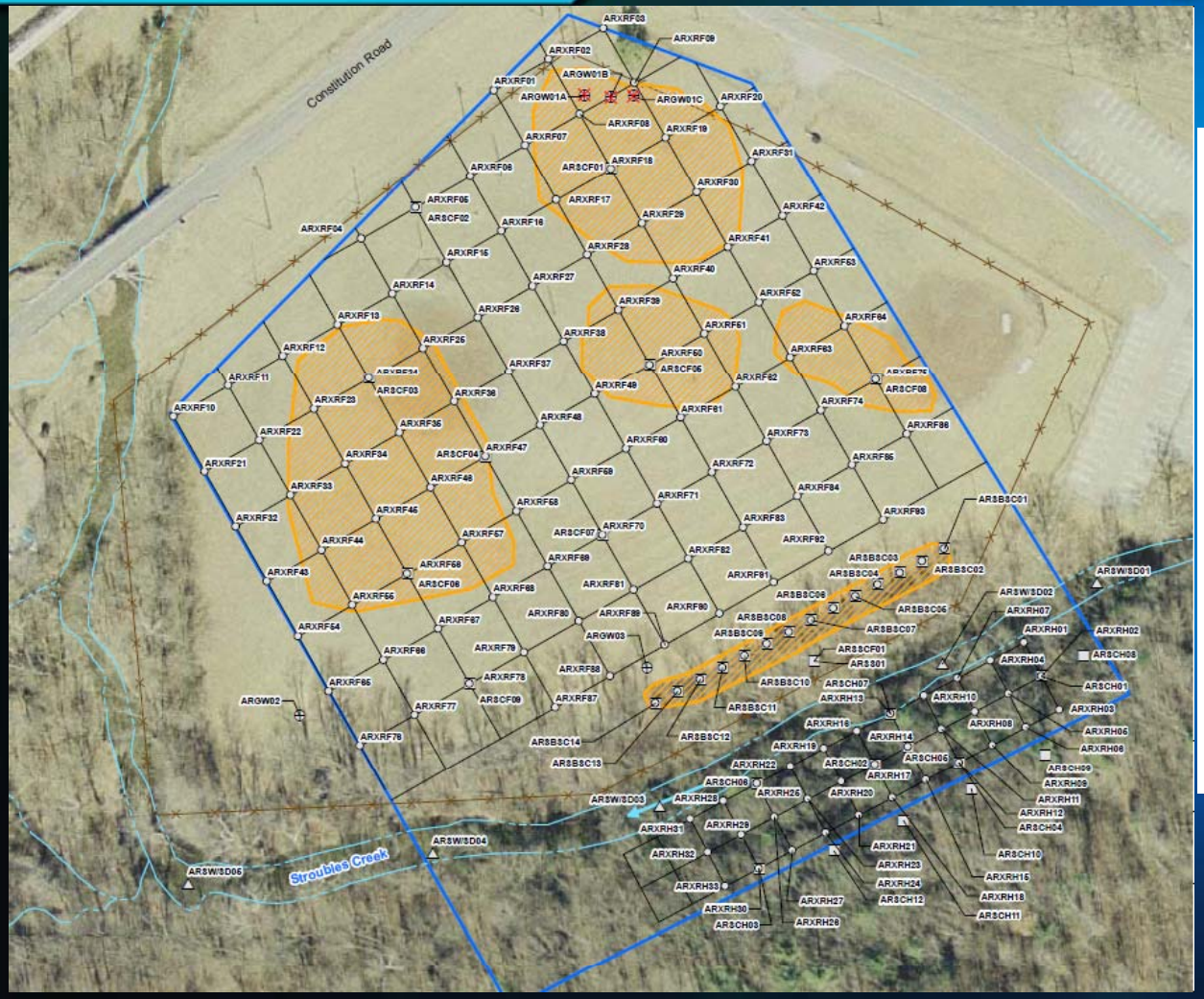
Shaw®

ARSAR RFI/Interim Measures

- ARSAR is an approximately 7.6-acre area located along the southeastern boundary of the Main Manufacturing Area.
- The ARSAR was a .30 caliber small arms firing ranged in operation from 1941 to 1968 consisting of an approximately 10-foot-high berm and four firing areas.
- An RFI/Interim measures investigation was performed in 2011.
- XRF soil screening was performed in uncharacterized areas of the site to determine areas of elevated antimony, arsenic, and lead.
- Lead contaminated soil along the berm was excavated until RGs were reached.

Shaw®

ARSAR Sample Location Map



LEGEND

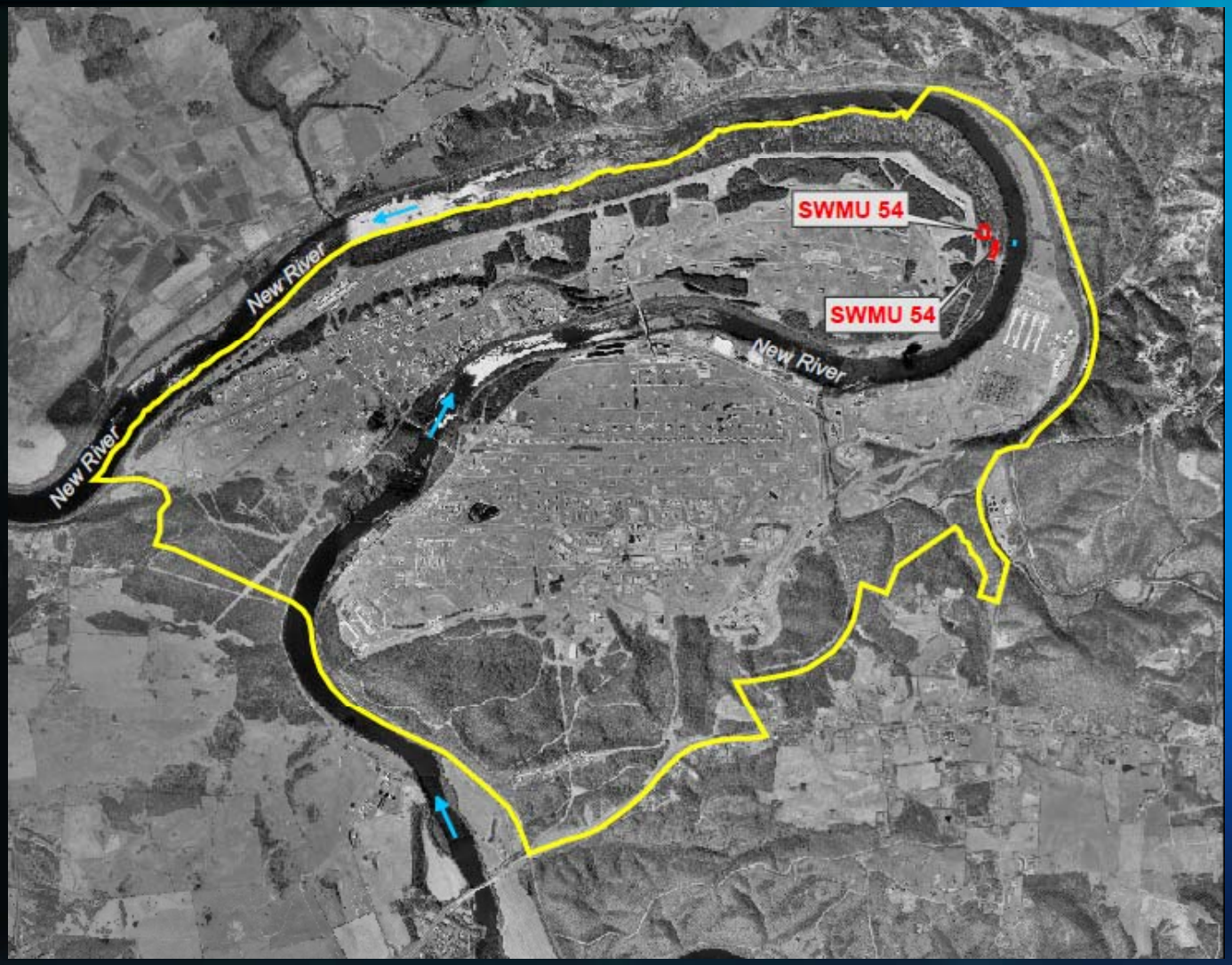
- Soil XRF Sample Location
- Soil Lab Confirmation Sample Location
- Soil XRF & Lab Confirmation Sample Location
- Surface Water/Sediment Sample Location
- Direct Push Groundwater Sample Location
- Direct Push Groundwater Sample Location (Not Sampled; Failed to Encounter Groundwater)
- Water Feature
- Surface Water Flow Direction
- Fence Line
- XRF Sample Grid
- Historic Feature
- MRS Boundary

Notes:
1) Aerial photo, dated 2005, was obtained from Montgomery County Planning, VA Planning & GIS Services.
2) Historic features and MRS boundary were obtained from Final Site Screening Process Report (URS, 2009).

N

Shaw®

SWMU 54 Site Map



Shaw®

SWMU 54 Interim Measures & MNA

- SWMU 54 consists of two non-contiguous disposal areas.
- Excavation of soil, off-site disposal, and MNA of groundwater was selected as the primary remediation process to achieve corrective measures objectives.
- Approximately 12,678.65 tons of explosives and metal contaminated soil was removed from the combined disposal areas.
- Monitored Natural Attenuation is currently being performed at SMWU 54.

Shaw®

SWMU 54 MNA Sampling Network

LEGEND

- Proposed Monitoring Well
- Existing Monitoring Well
- Surface Water and Pore Water Sample Location Proposed for Resampling
- Dirt Road
- Paved Road
- Railroad
- Fence
- SWMU 54 Boundary

Notes:
1) Aerial photo, dated 2005, was obtained from Montgomery County Planning, VA Planning & GIS Services.

N

Shaw®