

Role of South Fork Rivanna Reservoir in Adopted 50-Year Community Water Supply Plan

Summarized for South Fork Rivanna Stewardship
Task Force
October 13, 2008

SFRR in Community Water Plan

- “ Vital source (99% of total water supply watershed area drains through SFRR)
- “ Is the source of water for new pipeline to fill Ragged Mountain Reservoir; new intake proposed in future phase
- “ Development of maintenance plan is encouraged; with dredging as potential option

SFRR in Community Water Plan

“ Dredging can enhance SFRR water supply resource, but not vital to 50-year water supply need

- . 2055 Total Useable Storage Required = 2,714 MG (SFRR Provided 800 MG in 2002; CWP Requires 200 MG in 2055)
- . From Gahagan & Bryant (May 2008): SFRR sediment not short-term threat to physical operation of water supply withdrawal

SFRR in Community Water Plan

- “ If maintenance dredging commitment is made ÷
 - . Maximum dredging with maintenance does not meet 50-yr safe yield target in CWP (14.3 mgd short of 18.7 mgd target)
 - . Dredging can increase storage from SFRR
 - “ Dredge 2.0 MCY = Raise RMR pool 40 feet instead of 45 feet (net 5 feet) from current total dam height of 67 feet
 - “ Permit Status if Reduce Height of RMR? . would need to discuss with agencies