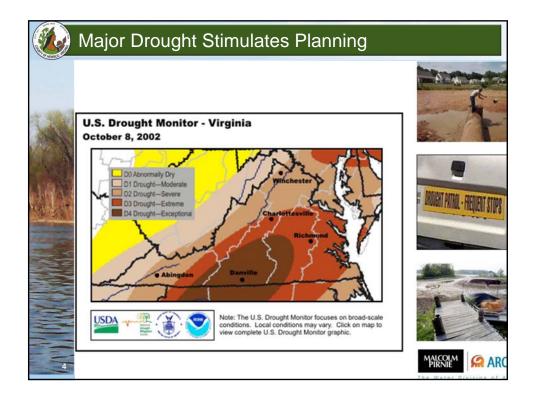


- Energy company and its legal representative met with Cumberland BOS to determine feasibility of natural gas plant in Cumberland.
- Project did not go forward as water supply (7 mgd needed) was not available
- Cumberland BOS member inquired on how to permit a water withdrawal
- Legal representative went to DEQ and meet with some interest groups concerned with low river flows, aquatic life, etc., and came up with idea of a side stream reservoir using the James River as a conduit to downstream users
- Through Cumberland County, Richmond and then Henrico approached to determine interest





## **Project Timeline Highlights**

- 09/19/2002 Cumberland, Henrico, DEQ, Malcolm Pirnie, Troutman Sanders met to discuss concept
- 08/27/2003 Henrico commits \$100,000 (previously) Cumberland acquired \$650,000 through Tobacco Commission and VDH)
- 12/20/2003 Reservoir team meets with USACE
- 09/2004 Powhatan as a potential team member
- 06/2004 to 01/2005 Cumberland hosts 3 public meetings
- 04/2005 Henrico and Powhatan BOS pass resolutions supporting the Cumberland County Reservoir Joint Permit Application





### Project Timeline Highlights

- 06/2005 Draft Articles of Incorporation and Bylaws distributed for a three county authority
- 10/2006 initial concept of Henrico as sole owner of project
- 10/2007 USACE issues permit
- 12/2007 Cumberland explores sole ownership of project
- 08/28/2008 Cumberland introduces cost sharing MOU to be signed prior to reservoir project MOU
- 05/2009 Henrico and Powhatan withdraw from project
- 07/24/2009 DEQ letter to all 3 counties Governor aware of impasse and offers his counselor as mediator





## **Project Timeline Highlights**

- 08-11/2009 mediation
- 04/14/2010 DEQ letter to Cumberland BOS stating DEQ's intent to terminate VWP Permit
- 07/2010 Negotiations between Cumberland and Henrico result in a draft MOU with Henrico as sole owner, reimbursement to Cumberland for
  - 1) \$2,104,646 in expended project costs
  - 2) \$550,383 for wetlands mitigation bank costs
  - 3) Henrico's annual payment to Cumberland of
  - \$1,131,900 for 50 years (converts to PILT in 51st year)
- 08/2010 Cumberland and Henrico BOS approve MOU

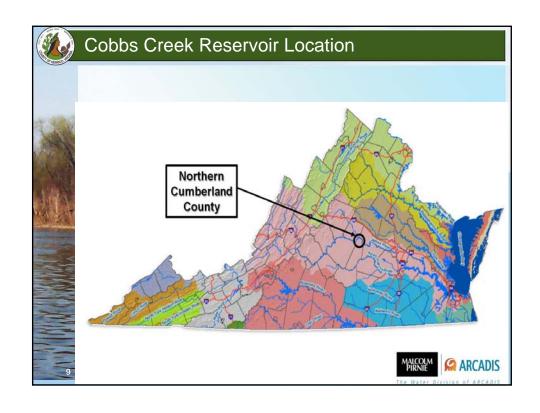


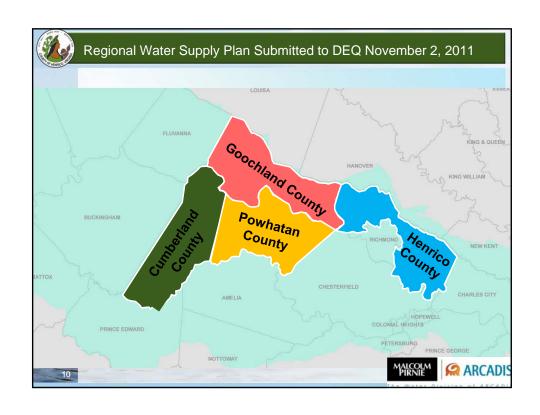


### **Project Timeline Highlights**

- 01/2011 all permits transferred to Henrico
- 03/2011 Arcadis begins engineering services for Henrico reservoir project
- 05/2011 Henrico letters requesting property access sent to all Cumberland property owners for land surveying, archeological investigations and stream and wetland delineation.
- 06/2013 SWCB approves Mitigation Plan
- 11/15/2013 USACE approves Mitigation Plan
- 11/2014 Henrico completes all land acquisition and easements (1830 acres, 22 property owners)









#### Importance of Cobbs Creek Reservoir

- Necessary for the future business and residential water supply needs for Henrico, Goochland, Powhatan and Cumberland counties
- Fulfills the requirements of the State Water Supply Plan
- Reduce environmental stress on James River during low flows through releases from reservoir

MALCOLM PIRNIE

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# 2055 Water Supply Deficit

Henrico Demand\* - 110 MGD

Henrico Supply - <u>80 MGD</u>

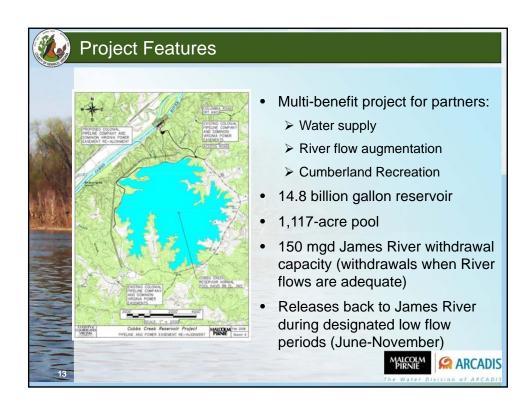
Deficit - 30 MGD

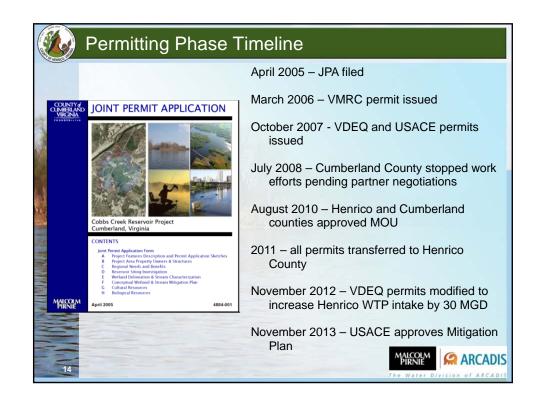
Powhatan Water Supply Need - 10 MGD

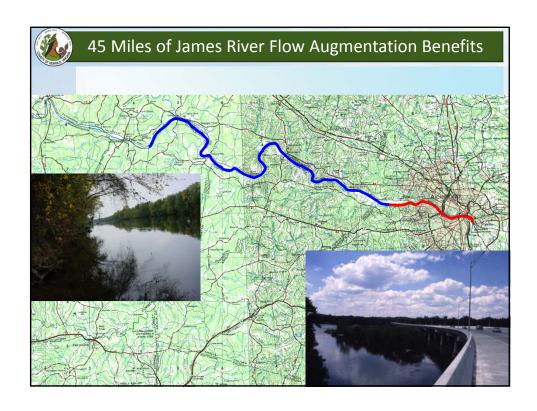
Cumberland Water Supply Need - <u>7 MGD</u>
Total Water Supply Need 47 MGD

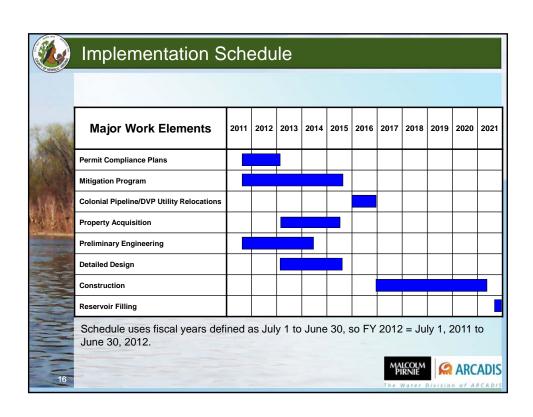
\*includes Goochland

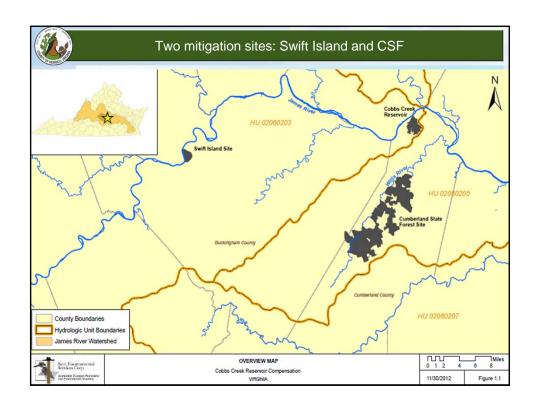














- Reservoir construction inspection (Henrico) staffing plan approved - temporary and permanent positions
- Reservoir operations (Henrico) staffing plan under formulation
- Designs to relocate Colonial Pipeline petroleum pipes and DVP overhead power lines are 98% complete
- Design of reservoir intake structure, pump station and two dams is 90% complete





# **Future Milestones**

- Property acquisitions completed pending Henrico BOS approval for final two properties
- Clear the utility corridor, construct some facility roads and install some piping commencing summer, 2015
- Relocate petroleum and electric utilities in 2016
- Construction of reservoir facilities 2017 2021
- Reservoir full and ready for use by 2022





## Thoughts

- While the negotiations where arduous at times, the reservoir concept was sound and through the perseverance of local, state and regulatory parties, the outcome was successful
- Establishing Henrico DPU and Real Property staff as direct contacts with the impacted Cumberland property owners (one-on-one and in public meetings) was key to the property acquisition without condemnation
- The reservoir "team" (and later Henrico) had excellent legal and engineering firms that knew how to navigate the state and federal regulatory permitting process
- DEQ's permit modification of an additional 30 mgd for Henrico WTF river withdrawal was the commitment needed for Henrico to expend further funds

