

Riva 400, Eroded outfall restoration project  
Anne Arundel County Government  
Department of Public Works  
Watershed, Ecosystem, and Restoration Services



Before Restoration  
Severely degraded perennial gully  
Photo take by KCI during stream assessment  
South River Watershed Study (March 2006)



After Restoration  
Step Pool Storm Conveyance System  
During rain event  
Photos taken by: Chris Victoria (March 10/2011)

Riva 400 – Before Construction  
Looking upstream at pipe outfall



Riva 400 – Before Construction  
Looking upstream at pipe



Riva 400 – Before Construction  
At the pipe outfall looking downstream



Riva 400 – Before Construction  
200 ft downstream of pipe outfall



Riva 400 – After Construction  
Looking upstream at pipe outfall



Riva 400 – After Construction  
200 ft downstream of pipe outfall



Riva 400 – After Construction  
Looking upstream toward Riva Rd.





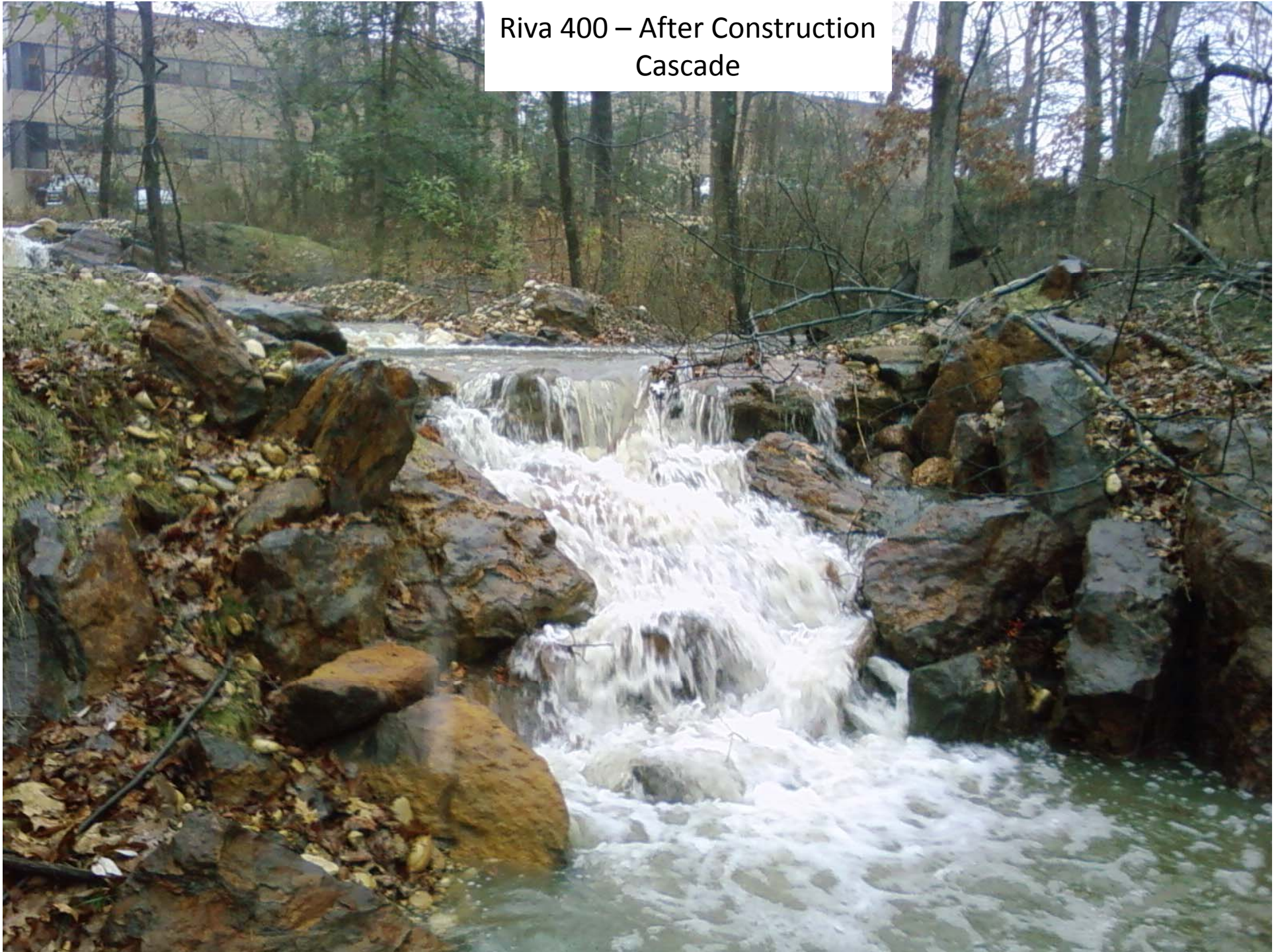
Riva 400 – After Construction  
Upstream of cascade



Riva 400 – After Construction  
Looking upstream at Cascade



Riva 400 – After Construction  
Cascade



Riva 400 – After Construction  
Downstream of cascade looking at cascade



Riva 400 – After Construction  
Most downstream end of the project connecting to wetland

