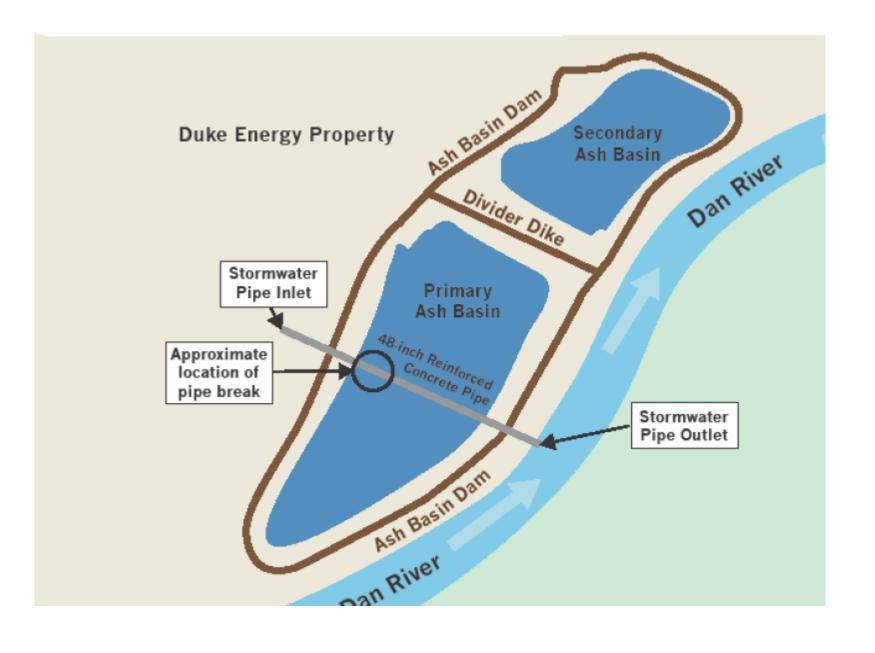
Roanoke River Bi-State Commission Meeting

21 April 2014

<u>Overview</u>

- Dan River site activities
- Dan River remediation efforts
- Dan River sampling & analysis
- Dan River long term monitoring plan

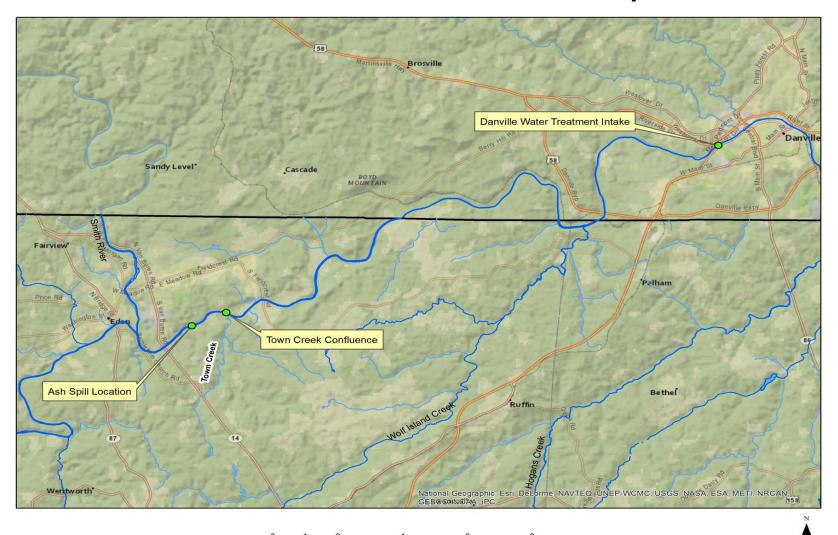


Dan River Site Activities

- 48" stormwater pipe plugged on February 8
- 36" stormwater pipe plugged on February 21
 - 36" pipe was determined to be leaking constituents of coal ash
- Both pipes plugged with grout and concrete
- Outlets of both pipes to be bricked up
 - 48" pipe outlet bricked and 36" pipe outlet should be completed soon

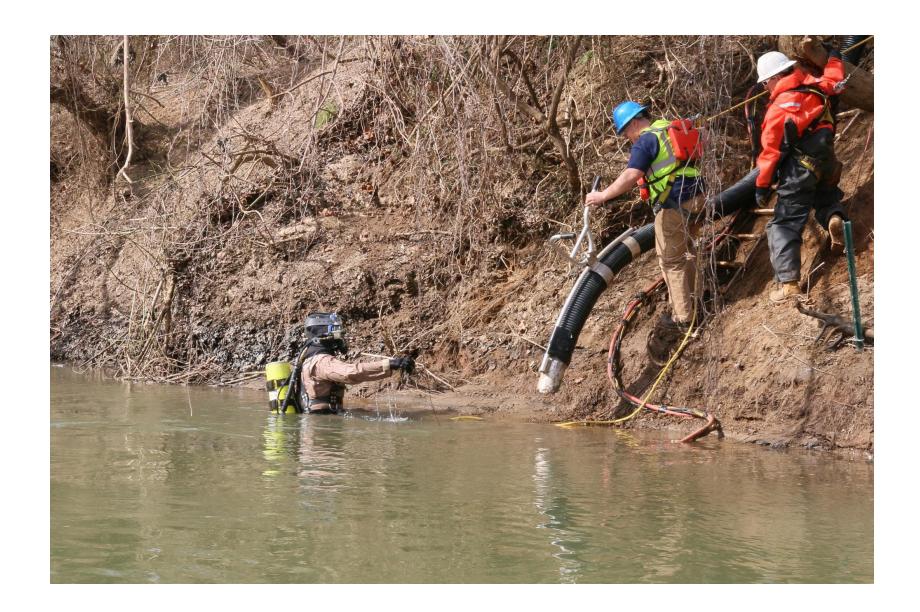


Identified Dan River coal ash deposit sites



Dan River Remediation Activities

- Three ash deposits identified
 - 1) Immediately downstream of 48" stormwater pipe
 - 2) Upstream of Danville WTP (Schoolfield Dam)
 - 3) Near confluence of Town Creek (in NC)
- Ash deposit near 48" pipe removed 11-12 Feb, 2 & 5 March
 - Approximately 22 yds³ removed
- Danville deposit (Schoolfield Dam) approximately 3000 yds³
 - Appropriate Fed/State permits being secured
 - Removal work to begin in late-April
 - Professional dredging contractor has been hired
 - 2 to 3 months in duration



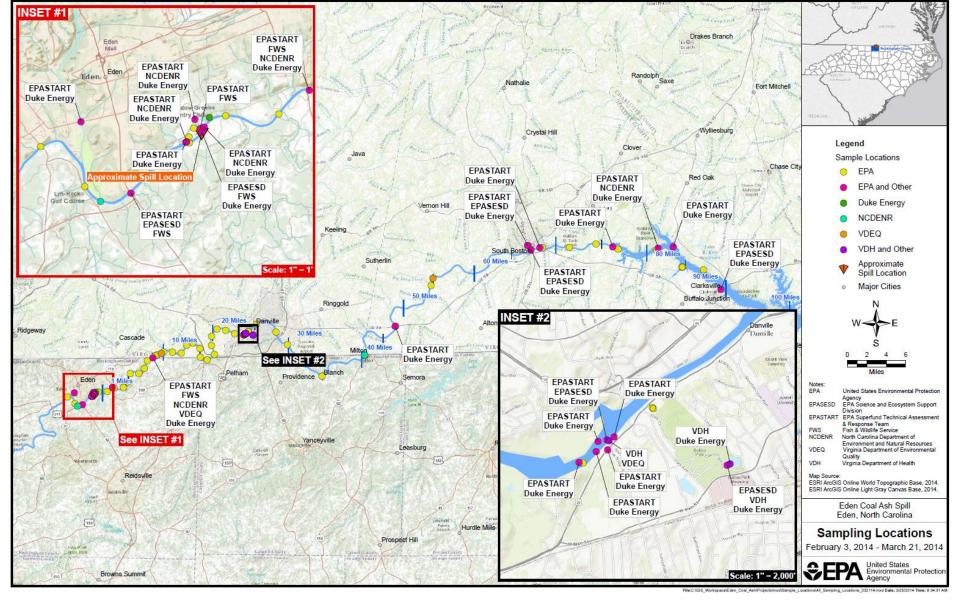
Dan River Remediation Activities

- Town Creek deposit approximately 40-50 yds³
 - 1) to be conducted simultaneously with Danville Schoolfield Dam removal
 - 2) removal method not yet determined
- Duke Energy working with Danville and South Boston to remove sediment/ash in Water Treatment plant filters and properly dispose of material
- Efforts will continue by State & Federal Agencies and Duke Energy to locate/map any other ash deposits that may exist and develop plan for removal

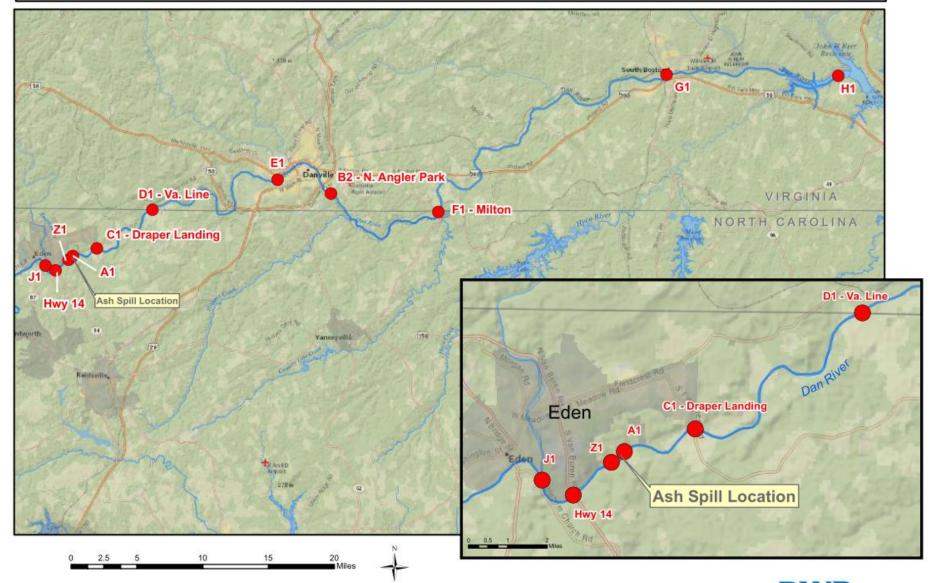
Dan River Long Term Remediation

- Sec. Skvarla requested EPA take role of lead agency under CERCLA for response to Dan River release
- Response crosses state lines
- Long term activities being coordinated by Stakeholders Group consisting of EPA, NC DENR, VA DEQ, US FWS, US Army Corps of Engineers, US Coast Guard, Rockingham County, Danville, South Boston, Clarksville and Duke Energy
- Stakeholders Group meets every Wednesday in Eden, NC
- Stakeholders Group share and discuss sampling results:
 - Chemical analyses, sediment sampling, fish community, benthic data, fish tissue, etc.
- Stakeholders Group coordinate and collaborate to establish long term remediation plan

All Sampling Sites March 21, 2014



Duke Power Eden Coal Ash Spill and Monitoring Locations for Dan River, NC







Current Sampling Plan

- Weekly Sampling at all Four Stations
 - Metals as total and dissolved
 - Hardness
 - Solids
 - pH
 - Temperature
 - Dissolved Oxygen
 - Specific Conductivity
- Reassessing in May



- Surface Water thru 3/22
 - Arsenic has decreased from 40 ug/L to less than
 2.0 ug/L at Draper Landing
 - Aluminum & Iron remain high at all stations due to background contributions

DWR Data to date

- Sediment
 - 100 yards from release:
 - Aluminum, Arsenic, Barium,
 Copper, Iron, Mercury Above EPA
 Screening Values
 - Danville:
 - Aluminum, Boron, Iron & Strontium
 Above EPA Screening Values





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