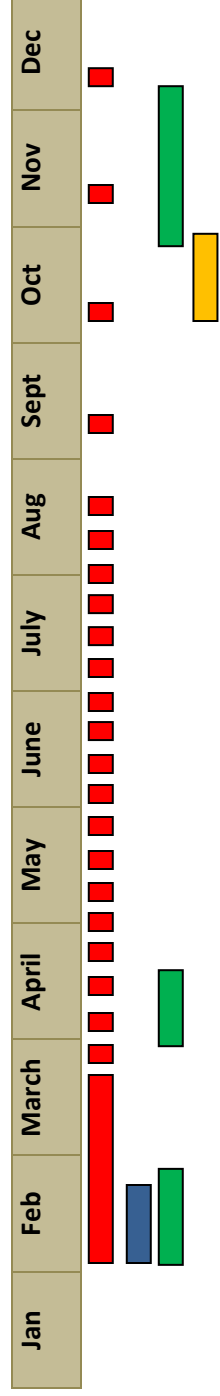


# NC DWR Activities Related to Dan River Coal Ash Spill

## 2014 Monitoring

<p><b>Surface Water</b></p> <p># of analysis = 7290</p> <p>Daily through March, Weekly through July, Monthly now</p>	<p><b>River Sediment</b></p> <p># of analysis = 588</p> <p>Initial assessment to determine distribution /concentration</p>	<p><b>Fish Tissue</b></p> <p># of analysis = 3408</p> <p>Initial sampling for background levels, long term monitoring for bioaccumulation</p>	<p><b>Benthic Community</b></p> <p># of analysis = 2</p> <p>Comparative evaluations of upstream/downstream areas.</p>
--	--	---	---



## Results

### Surface Water

Winston Salem Regional Office and Water Sciences Staff

Arsenic decreased from 40µg/L to <2.0µg/L by mid March 5 miles downstream of spill. Aluminum and iron remain high due to natural watershed conditions.

### River Sediment

Water Sciences Staff

*100yds downstream of spill* Aluminum, arsenic, barium, copper, iron and mercury were above EPA screening values.

*Danville* Aluminum, boron, iron, and strontium were above EPA screening values.

### Fish Tissue

Water Sciences Staff

First round of background monitoring showed nothing above state guidelines.

Second round of extended background monitoring showed

10% of samples exceeded background monitoring showed

12% of samples exceeded mercury fish consumption advisory action levels (NCDPH)

Third round of tissue collection is under way.

Total # of analysis = 3408

### Benthic Community

Water Sciences Staff

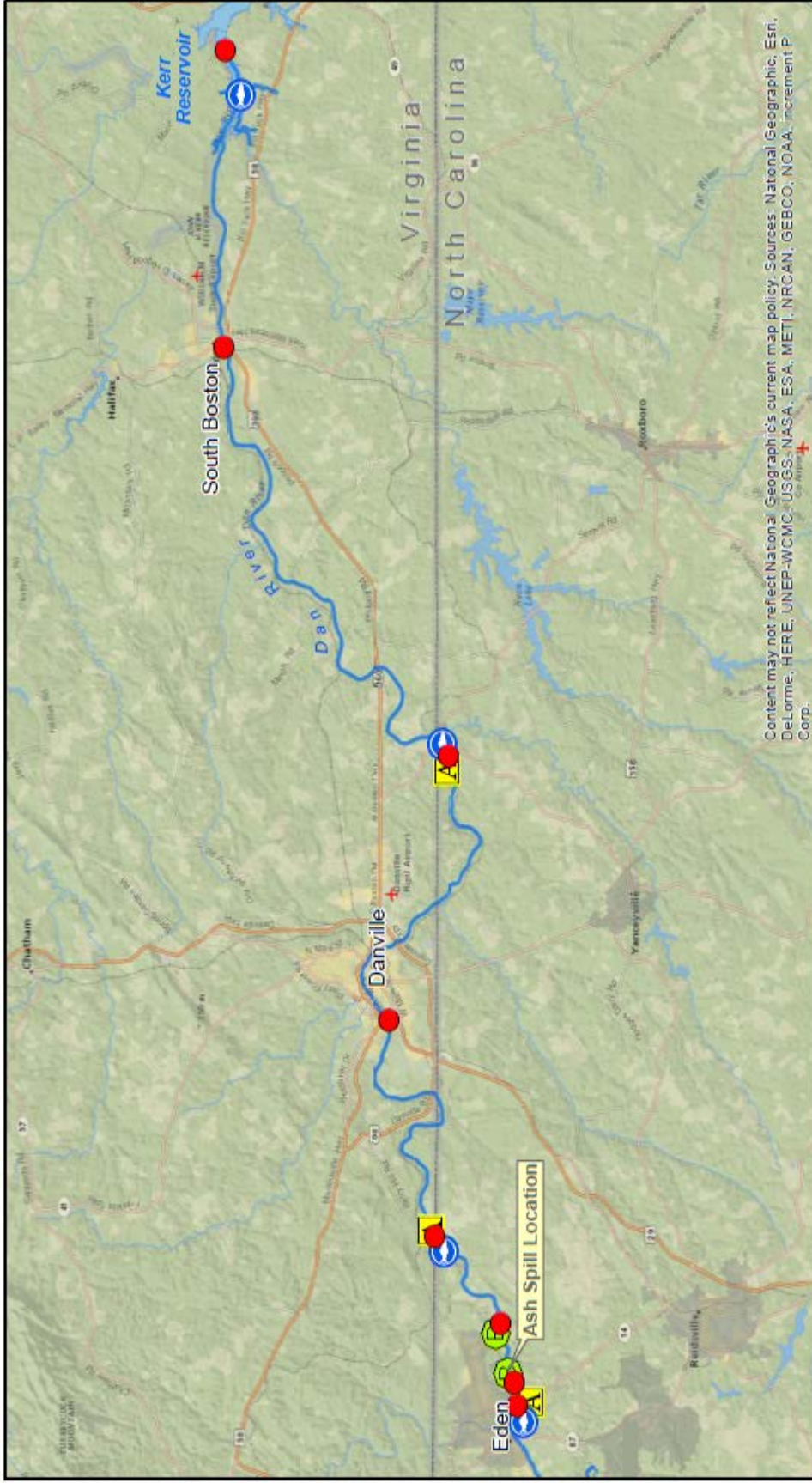
Data suggest no significant difference between upstream of spill site and downstream of spill site benthic communities.

### Plan Development/Public Information

Winston Salem Regional Office and Water Sciences Staff

DWR staff represented NCDENR during all phases of the Dan River event through participating in and/or presenting information at Public Information Sessions, weekly/monthly interagency meetings, and initial response daily/hourly situation briefings (approx 65).

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



Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, DeLorme, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.

- DWR Sediment and Water Sample Stations
- B Macroinvertebrate Stations
- 🐟 Fish Tissue Station
- A Ambient Water Quality Station

