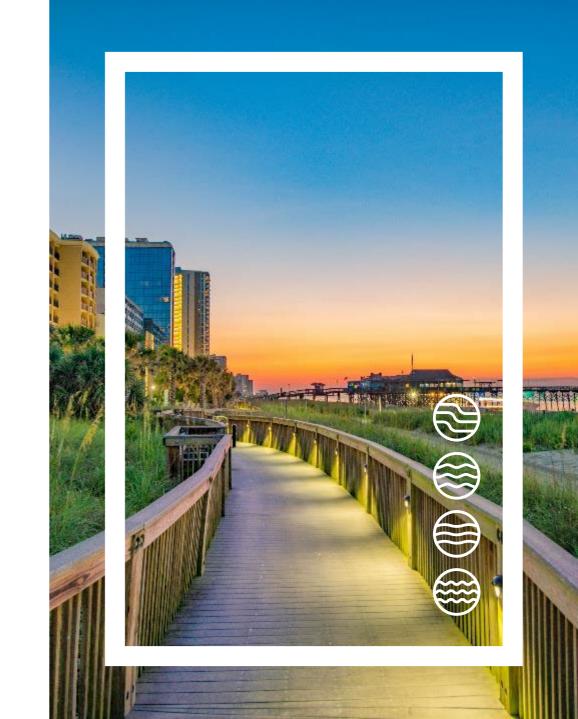
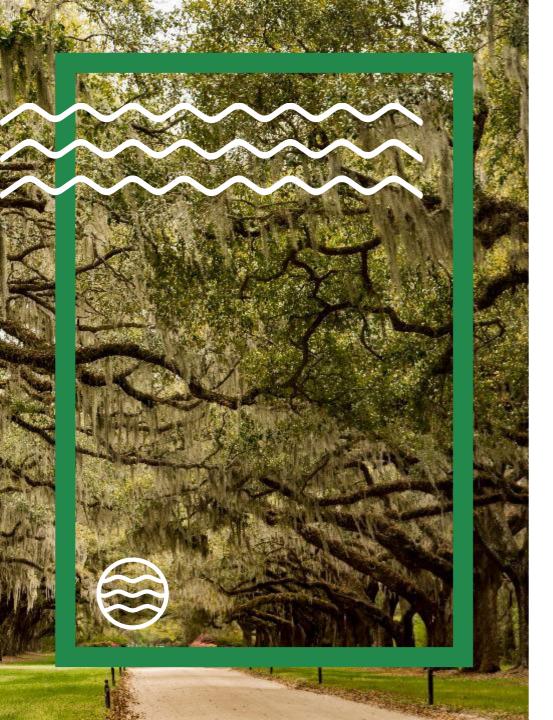


# **South Carolina** Department of Environmental Services Overview - Aiken **Environmental Affairs Office**





# SCDES – Who Are We?

"The South Carolina Department of Environmental Services (SCDES) is a team of environmental subject matter experts whose work impacts every South Carolinian, every day. We use science and data to drive our decisions and actions. Our work supports a resilient and sustainable South Carolina, and our efforts safeguard our air, land, water and coasts for generations to come." –SCDES Website

## **ESOP Overview**

- DOE Funded Grant (Remediation and Environmental Monitoring Grant)
- Monitor the Savannah River Site
- Non-regulatory environmental monitoring
  - Allows DES to review SRS sampling program
  - DES samples provide a second set of data available to the public
- Look for radiological and non-radiological constituents in air, groundwater, drinking water, surface water, sediment, soil, milk, vegetation, fish, and game.

### Radiological Atmospheric Monitoring









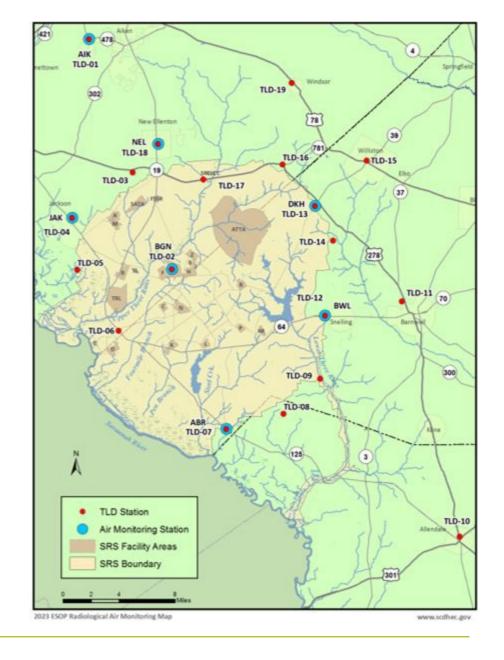




#### 7 Air Stations

- Particulates
- Precipitation
- Atmospheric Moisture

19 TLD's



### **Groundwater Monitoring**



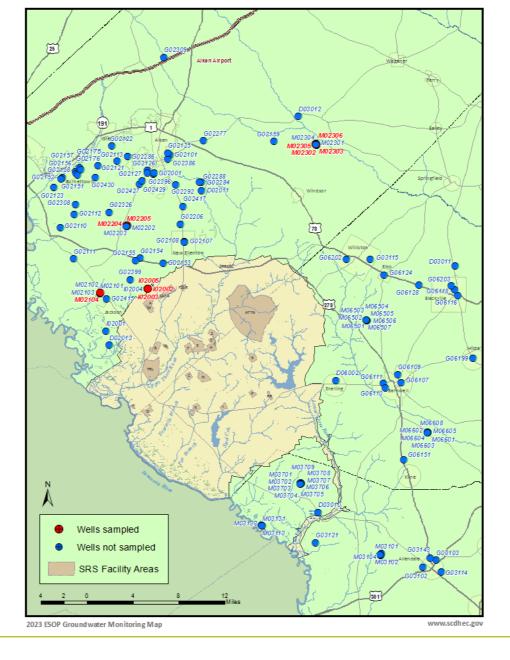




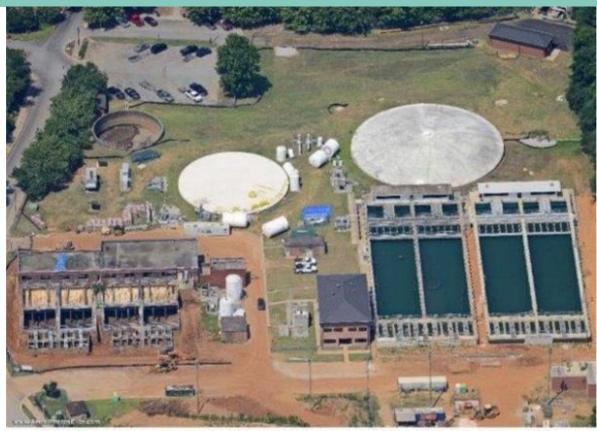








# Radiological Monitoring of Drinking Water Adjacent to the SRS







North Augusta, SC June 25, 2016



#### **Radiological Surface Water Monitoring**





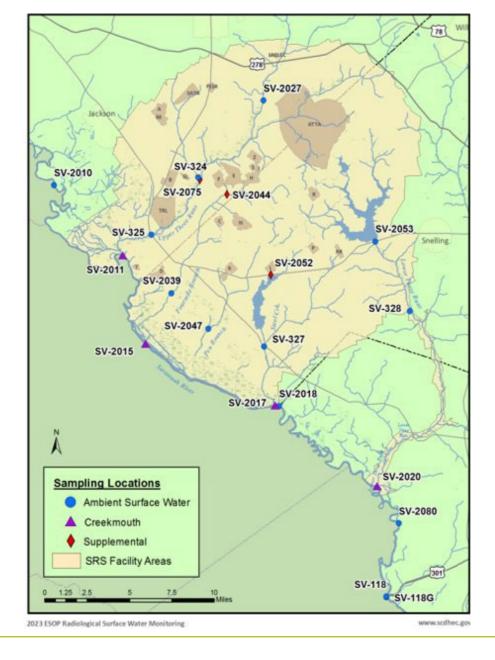












# Non-Radiological Monitoring of Surface Water





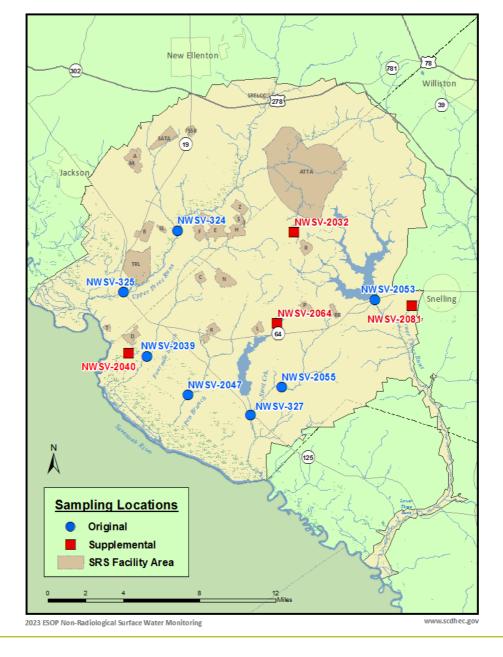




#### **Sample Parameters**

- **♦** Temperature
- ◆ pH
- Dissolved Oxygen
- **♦** BOD
- ♦ Total Suspended Solids
- **♦** Turbidity
- ♦ E. coli
- **♦** Ammonia
- ♦ Nitrate/Nitrite
- ♦ Phosphorus
- **♦ TKN**

- **♦** Alkalinity
- **♦** Cadmium
- **♦** Chromium
- **♦** Iron
- Manganese
- Nickel
- **♦** Lead



### **Sediment Monitoring**







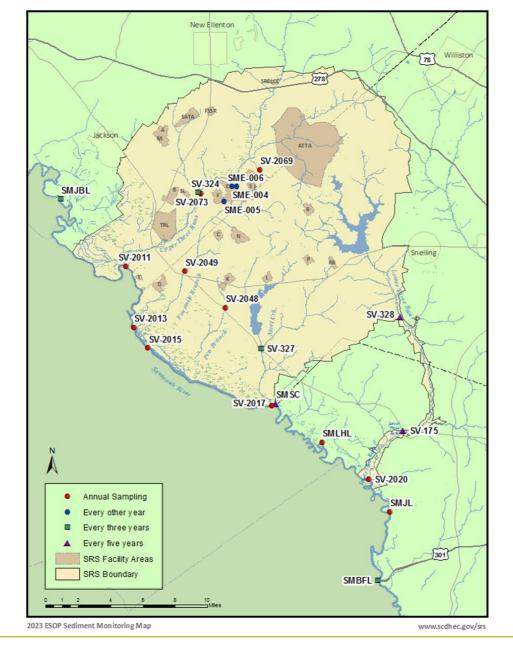












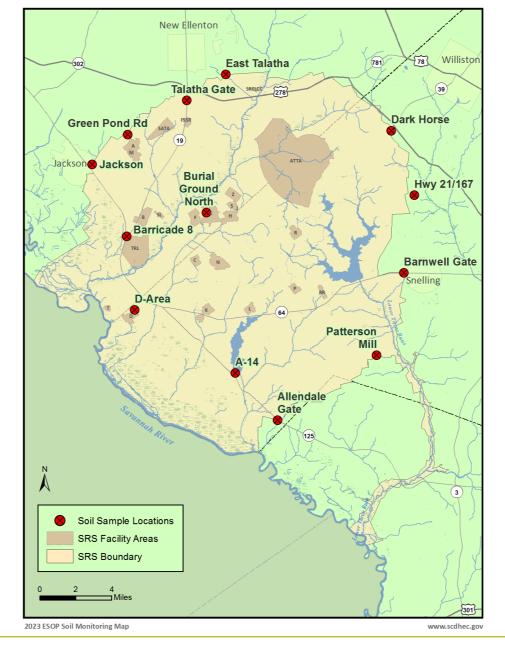
# **Soil Monitoring**











#### **Terrestrial Vegetation Monitoring**

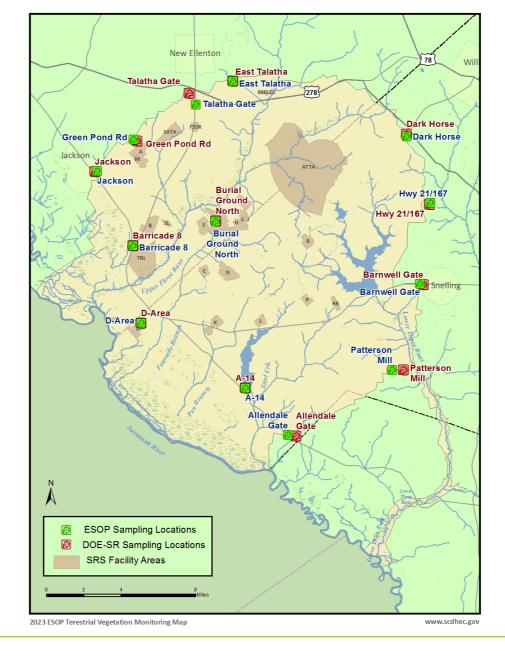








**Bermuda Grass** 



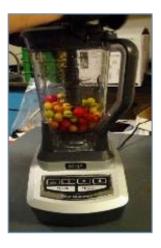
### **Edible Vegetation Monitoring**











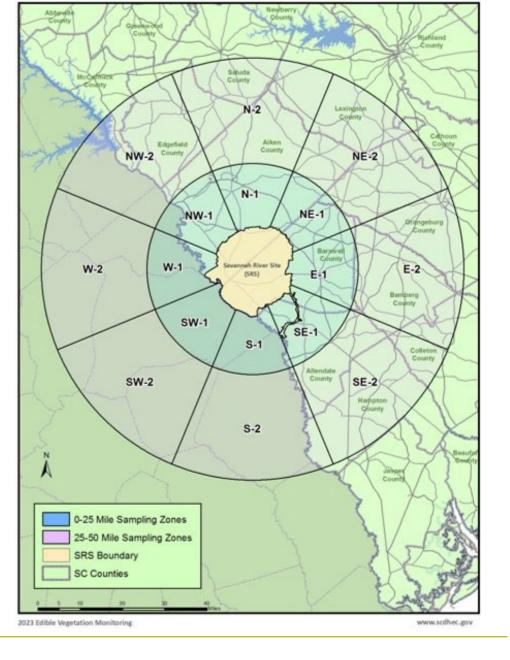






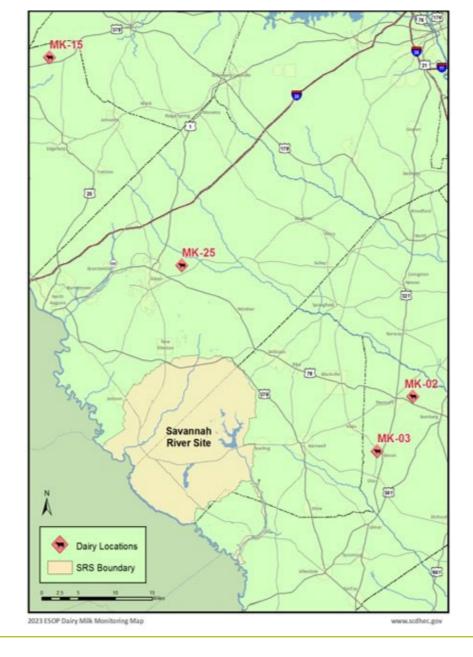






### **Milk Monitoring**





### **Fish Monitoring**















#### Freshwater Species:

#### Channel and Flathead Catfish

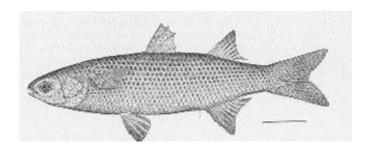


Largemouth Bass

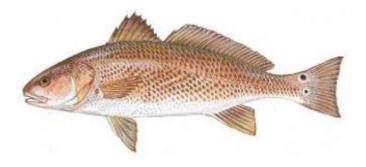


#### Saltwater Species:

Striped Mullet



Red Drum

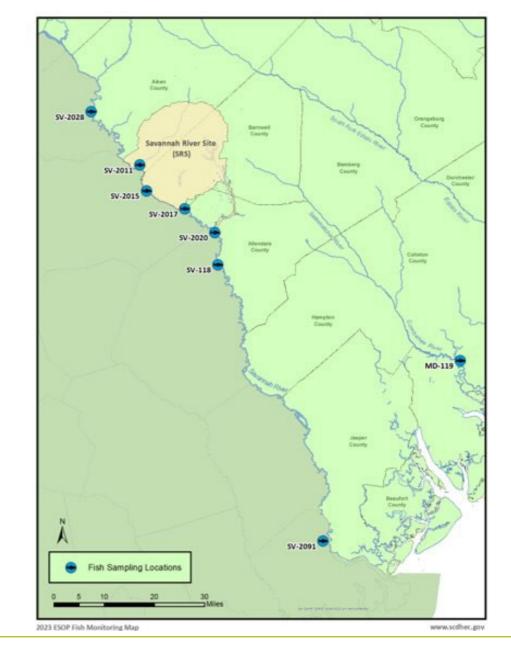


#### **Sampling Locations**

Sample ID	Location
SV- 2028	New Savannah Bluff Lock and Dam (NSBLD)
SV- 2011	Upper Three Runs Creek
SV- 2015	Fourmile Branch
SV- 2017	Steel Creek
SV- 2020	Lower Three Runs Creek
SV-118	Highway 301
SV- 2091	Highway 17 (saltwater)
MD-119	Combahee River between Beaufort and Colleton counties



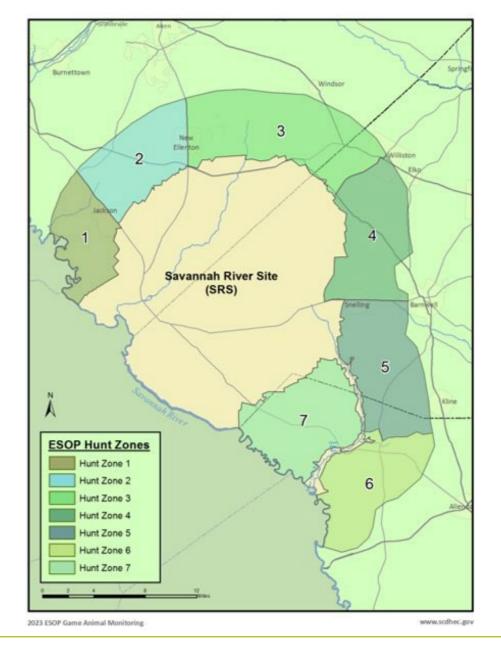




### **Game Monitoring**







#### **Summary**

- Historically, SCDES results are comparable to DOE-SR's data
- SCDES will continue to monitor activity at SRS

#### **Public Outreach**









CR-004111 12/23



206 Beaufort Street, NE









# Get in touch

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