

EDEN NORTH CAROLINA COAL ASH SPILL DRINKING WATER RESULTS

NOTE: The data below represents drinking water samples that were collected on April 11, 2014 by EPA START (Team 1). Water sample measurement are in milligrams per liter (mg/L) and/or micrograms per liter (µg/L) for drinking water samples. The data is being compared to EPA and State Maximum Contaminant Levels (MCLs) and other health based levels. To date, there have been no samples that have exceeded drinking water levels. This sample represents the same water that is being delivered to your tap. Specific qualifiers and footnotes are listed below the summary table.

Analyte	Human Health Screening Standard for Drinking Water Samples ¹		S Boston WTP Lab	
Sample Information				
Sample ID	-		EDEN-SBWTP-FINISH-3-20140411	
Date	-		04/11/2014	
Time	-		0125	
Status	-		Validation Complete	
Type	-		Drinking Water	
Dissolved metals				
Aluminum	47,000	µg/L	31.2J	µg/L
Antimony	6	µg/L	5U	µg/L
Arsenic	5	µg/L	4.5U	µg/L
Barium	2,000	µg/L	27.9	µg/L
Beryllium	4	µg/L	0.65U	µg/L
Boron	9.3	mg/L	0.05U	mg/L
Cadmium	5	µg/L	0.1U	µg/L
Calcium	Essential nutrient		5,340	µg/L
Chromium	3	µg/L	0.397J	µg/L
Cobalt	14	µg/L	5U	µg/L
Copper	1,300	µg/L	2U	µg/L
Iron	33,000	µg/L	100U	µg/L
Lead	15	µg/L	0.5U	µg/L
Magnesium	Essential nutrient		2,060J	µg/L
Manganese	970	µg/L	5U	µg/L
Mercury	0.002	mg/L	0.0002U	mg/L
Molybdenum	78	µg/L	0.217J	µg/L
Nickel	910	µg/L	0.333J	µg/L
Potassium	Essential nutrient		2,420J+	µg/L
Selenium	50	µg/L	4.5U	µg/L
Silver	210	µg/L	0.05U	µg/L
Sodium	Essential nutrient		28,500	µg/L
Thallium	0.5	µg/L	0.2U	µg/L
Vanadium	190	µg/L	0.294J	µg/L
Zinc	14,000	µg/L	8.5J	µg/L
Total Dissolved Solids				
Total Dissolved Solids	-	-	127	mg/L
Total Suspended Solids				
Total Suspended Solids	-	-	5U	mg/L

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Sample Information				
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Date	-		04/11/2014	
Time	-		0125	
Status	-		Validation Complete	
Type	-		Drinking Water	
Total Metals				
Aluminum	47,000	µg/L	24.1J	µg/L
Antimony	6	µg/L	5U	µg/L
Arsenic	5	µg/L	4.5U	µg/L
Barium	2,000	µg/L	27.7	µg/L
Beryllium	4	µg/L	0.65U	µg/L
Boron	9.3	mg/L	0.0659J+	mg/L
Cadmium	5	µg/L	0.1U	µg/L
Calcium	Essential nutrient		5,610	µg/L
Chromium	3	µg/L	2.5U	µg/L
Cobalt	14	µg/L	5U	µg/L
Copper	1,300	µg/L	1.9J	µg/L
Iron	33,000	µg/L	100U	µg/L
Lead	15	µg/L	0.5U	µg/L
Magnesium	Essential nutrient		2,280J	µg/L
Manganese	970	µg/L	5U	µg/L
Mercury	0.002	mg/L	0.0002U	mg/L
Molybdenum	78	µg/L	5U	µg/L
Nickel	910	µg/L	0.374J	µg/L
Potassium	Essential nutrient		2,140J+	µg/L
Selenium	50	µg/L	4.5U	µg/L
Silver	210	µg/L	0.05U	µg/L
Sodium	Essential nutrient		33,700J+	µg/L
Thallium	0.5	µg/L	0.2U	µg/L
Vanadium	190	µg/L	5U	µg/L
Zinc	14,000	µg/L	9.99J	µg/L
Anions				
Bromide	-	-	1U	mg/L
Chloride	250	mg/L	11.2	mg/L
Sulfate	250	mg/L	50.7	mg/L
Wet Chemistry				
Alkalinity, Total (As CaCO ₃)	-	-	60.4	mg/L
Hardness, Calcium/Magnesium (As CaCO ₃)	-	-	23.4	mg/L
Organic Carbon, Dissolved	-	-	2.57	mg/L
pH	6.5 - 9.0	std	7.11J	std

Notes

¹ Value obtained from EPA Maximum Contaminant Level (MCL), Removal Management Levels, Secondary MCL, and Lifetime Health Advisory values

EPA U.S. Environmental Protection Agency

J Value is estimated

J+ Value is estimated with a possible high bias

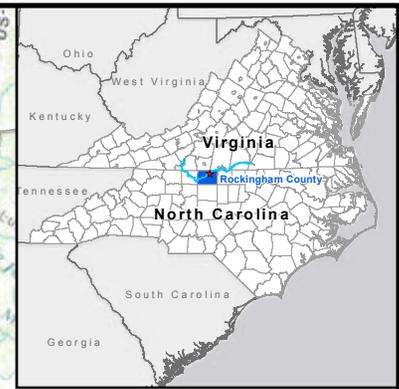
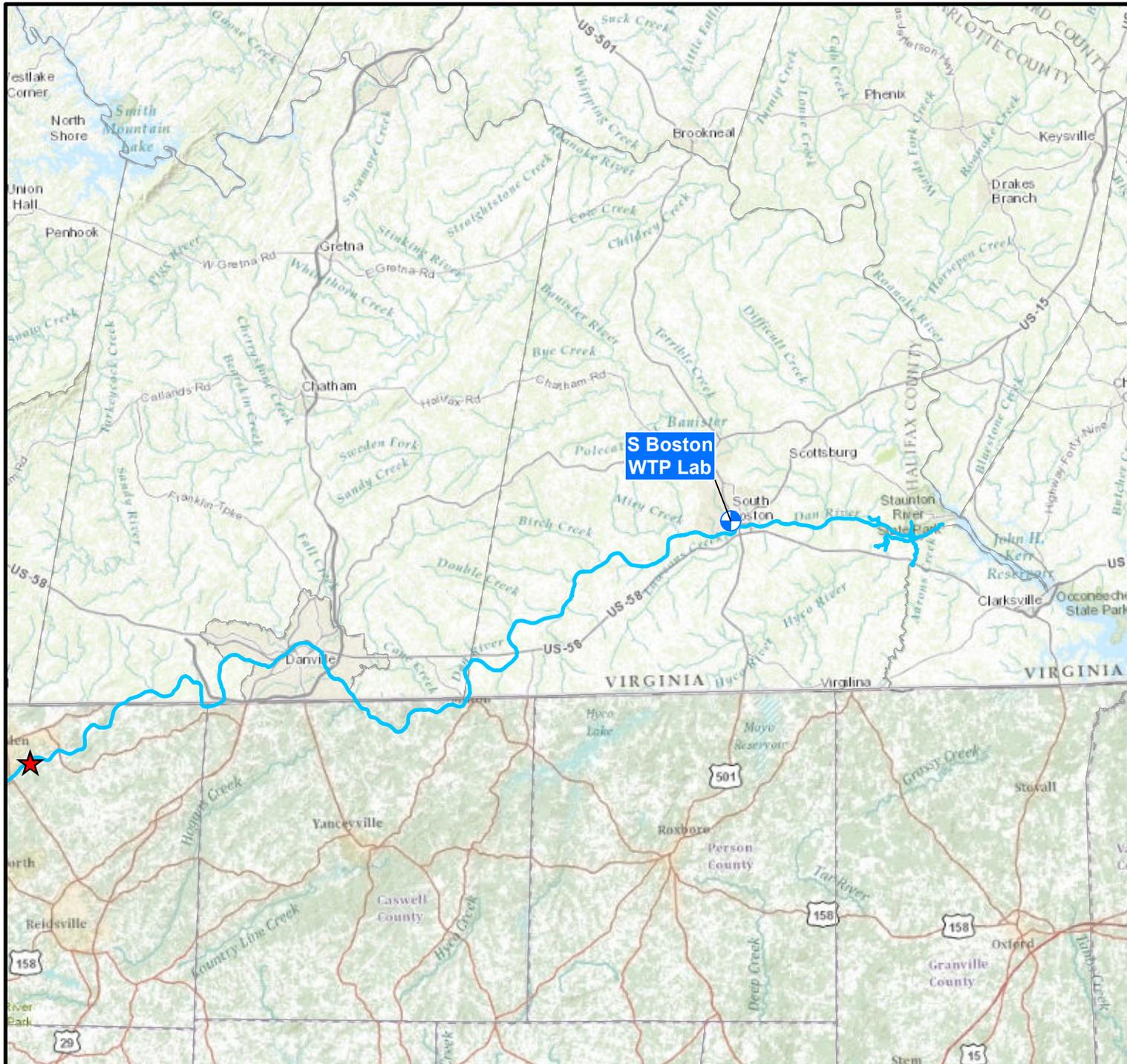
J- Value is estimated with a possible low bias

µg/L micrograms per liter

mg/L milligrams per liter

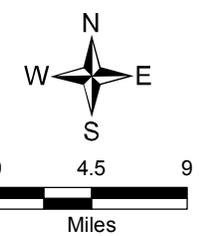
U Analyte was not detected at the listed reporting limit.

UJ Analyte was not detected at the listed reporting limit, which is an estimated quantitation.



Legend

- ★ Approximate Spill Location
- ⊕ Drinking Water Sample Location
- Dan River



Map Source: ArcGIS Online World Map Topo, 2014

Drinking Water Sample Locations
April 11, 2014

