

EDEN NORTH CAROLINA COAL ASH SPILL ASH RESULTS

The attached data represents a composite sample that was collected from the ash pond on February 12, 2014 by EPA START (Team 1). Ash sample measurements are shown in milligrams per kilogram (mg/kg), milligrams per liter (mg/L) and micrograms per kilogram (mg/kg). Specific qualifiers and footnotes are listed below the summary table. This sample represents the chemical profile of the source material and will aid in determining what analytes to look for in down stream samples (water and sediment). It is not being compared to a risk based screening level.

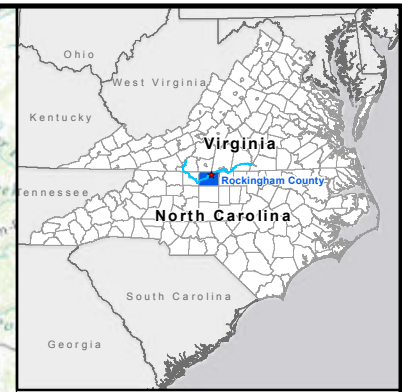
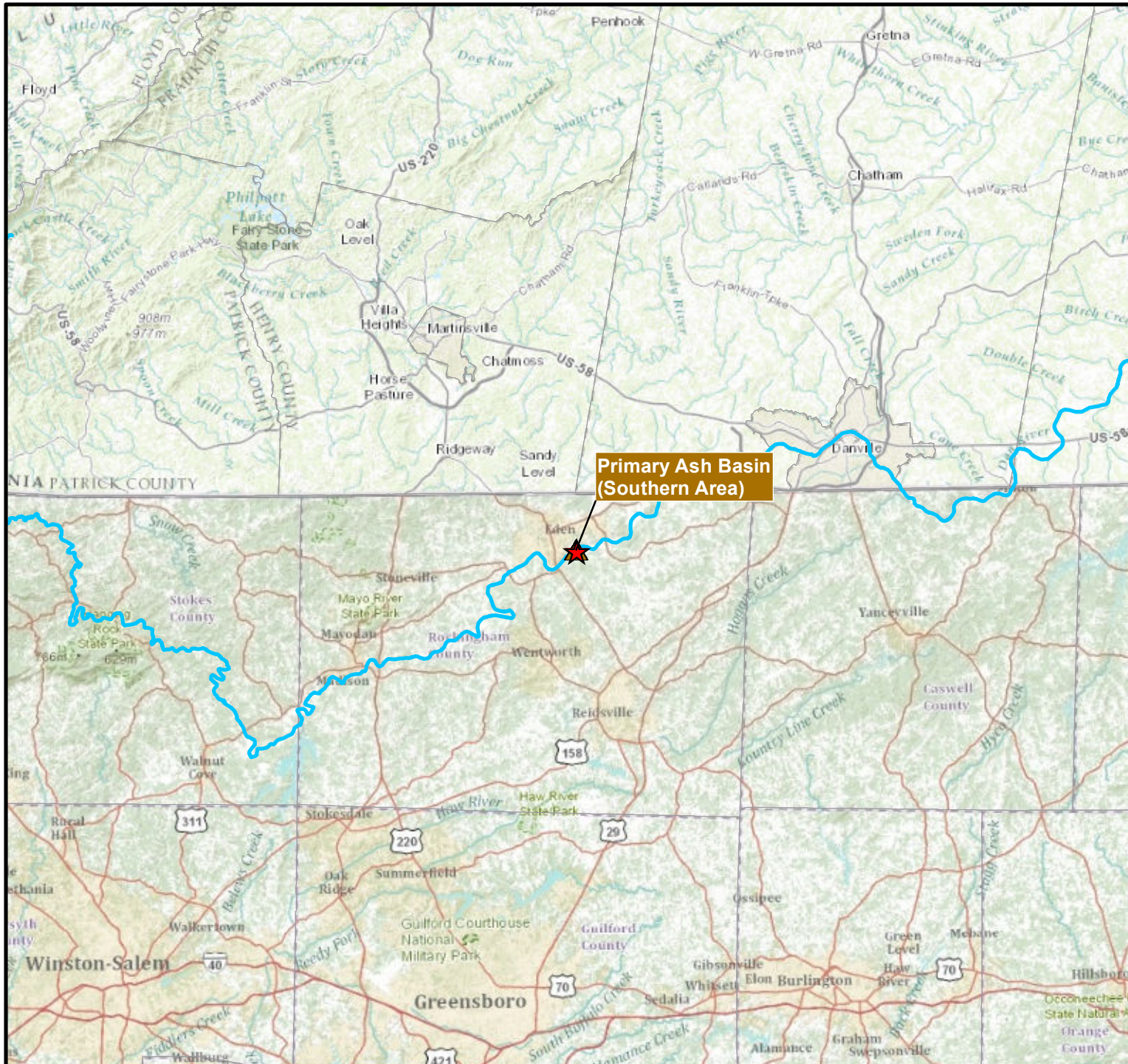
Analyte	Primary Ash Basin	Primary Ash Basin
Sample Information		
Sample ID	EDEN-BASIN1-ASH3-20140212	EDEN-BASIN1-ASH3-20140212-DUP
Date	2/12/2014	2/12/2014
Time	1120	1125
Status	Validation Complete	Validation Complete
Type	Ash	Ash
Total Metals		
Aluminum	9,460 mg/kg	9,350 mg/kg
Antimony	1.03J mg/kg	0.796J mg/kg
Arsenic	57.7 mg/kg	55.5 mg/kg
Barium	1,030 mg/kg	1,110 mg/kg
Beryllium	3.58 mg/kg	3.67 mg/kg
Boron	33U mg/kg	31U mg/kg
Cadmium	0.237J mg/kg	0.294J mg/kg
Calcium	3,590 mg/kg	4,340 mg/kg
Chromium	13.2 mg/kg	14.0 mg/kg
Cobalt	11.6 mg/kg	12.2 mg/kg
Copper	49.4 mg/kg	50.0 mg/kg
Iron	16,200 mg/kg	20,600 mg/kg
Lead	12.4 mg/kg	11.9 mg/kg
Magnesium	958 mg/kg	935 mg/kg
Manganese	134 mg/kg	169 mg/kg
Mercury	0.191 mg/kg	0.236 mg/kg
Molybdenum	1.79J mg/kg	2.35J mg/kg
Nickel	19.2 mg/kg	19.9 mg/kg
Potassium	2,310 mg/kg	2,300 mg/kg
Selenium	5.64J mg/kg	6.38 mg/kg
Silver	3.26U mg/kg	3.14U mg/kg
Sodium	472 mg/kg	448 mg/kg
Thallium	6.52U mg/kg	6.27U mg/kg
Vanadium	44.8 mg/kg	44.8 mg/kg
Zinc	20.4 mg/kg	20.1 mg/kg

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Analyte	Primary Ash Basin		Primary Ash Basin	
Sample Information				
Sample ID	EDEN-BASIN1-ASH3-20140212		EDEN-BASIN1-ASH3-20140212-DUP	
TCLP Metals				
Arsenic	0.0304J	mg/L	0.25U	mg/L
Barium	0.500U	mg/L	0.500U	mg/L
Cadmium	0.025U	mg/L	0.025U	mg/L
Chromium	0.050U	mg/L	0.050U	mg/L
Lead	0.050U	mg/L	0.050U	mg/L
Mercury	0.004U	mg/L	0.004U	mg/L
Selenium	0.124	mg/L	0.108	mg/L
Silver	0.025U	mg/L	0.025U	mg/L
BTEX				
Benzene	1.3UJ	µg/kg	1.3UJ	µg/kg
Ethylbenzene	1.3UJ	µg/kg	1.3UJ	µg/kg
m,p-Xylene	1.3UJ	µg/kg	1.3UJ	µg/kg
o-Xylene	1.3UJ	µg/kg	1.3UJ	µg/kg
Toluene	1.3UJ	µg/kg	1.3UJ	µg/kg

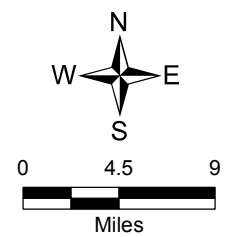
Notes

EPA	U.S. Environmental Protection Agency
J	Value is estimated
J-	Value is estimated with a possible low bias
µg/kg	micrograms per kilogram
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
-  Ash Sample Location
-  Dan River



Map Source: ArcGIS Online World Map Topo, 2014

**Ash
Sample Locations
February 12, 2014**

