

**EDEN NORTH CAROLINA COAL ASH SPILL
SURFACE WATER RESULTS**

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Approximately 16.5 mile downstream of Hwy 700 Bridge, 500 yds downstream of Hwy 58 bridge		Approximately 6.0 mile downstream of US Hwy 58 Bridge		Approximately 6.0 mile downstream of US Hwy 58 Bridge	
Sample Information								
Sample ID	-		DR19A-F1914SW		DR25A-F1914SW		DR25B-F1914SW	
Date	-		02/19/2014		02/19/2014		02/19/2014	
Time	-		1100		1130		1140	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Media	-		Surface Water		Surface Water		Sediment-Water Interface	
Dissolved metals								
Aluminum	87	µg/L	280	µg/L	290	µg/L	310	µg/L
Antimony	5.6	µg/L	1U	µg/L	1U	µg/L	1U	µg/L
Arsenic	10	µg/L	1U	µg/L	1U	µg/L	1U	µg/L
Barium	220	µg/L	21	µg/L	22	µg/L	22	µg/L
Beryllium	0.66	µg/L	0.5U	µg/L	0.5U	µg/L	0.5U	µg/L
Boron	360	µg/L	100	µg/L	120	µg/L	120	µg/L
Cadmium	0.1	µg/L	0.5U	µg/L	0.5U	µg/L	0.5U	µg/L
Calcium	-	-	6,000	µg/L	6,000	µg/L	6,000	µg/L
Chromium	25	µg/L	1.1U,J	µg/L	1.1U,J	µg/L	1.1U,J	µg/L
Cobalt	3	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Copper	3	µg/L	1	µg/L	1U	µg/L	1U	µg/L
Iron	1,000	µg/L	400	µg/L	410	µg/L	440	µg/L
Lead	0.59	µg/L	0.4U	µg/L	0.4U	µg/L	0.4U	µg/L
Magnesium	-	-	2,400	µg/L	2,400	µg/L	2,400	µg/L
Manganese	200	µg/L	12	µg/L	13	µg/L	14	µg/L
Mercury	12	ng/L	0.88	ng/L	1.1	ng/L	1.2	ng/L
Molybdenum	800	µg/L	10U	µg/L	10U	µg/L	10U	µg/L
Nickel	17	µg/L	10U	µg/L	10U	µg/L	10U	µg/L
Potassium	53,000	µg/L	1,600	µg/L	1,600	µg/L	1,600	µg/L
Selenium	5	µg/L	2U	µg/L	2U	µg/L	2U	µg/L
Silver	0.06	µg/L	0.013U,J	µg/L	0.013U,J	µg/L	0.013U,J	µg/L
Sodium	680,000	µg/L	5,800	µg/L	5,800	µg/L	5,700	µg/L
Strontium	1,500	µg/L	44	µg/L	45	µg/L	45	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Tin	73	µg/L	15U	µg/L	15U	µg/L	15U	µg/L
Titanium	-	-	12	µg/L	12	µg/L	13	µg/L
Vanadium	27	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Yttrium	-	-	3U	µg/L	3U	µg/L	3U	µg/L
Zinc	39	µg/L	10U	µg/L	10U	µg/L	10U	µg/L

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Time	-		1100		1130		1140	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Media	-		Surface Water		Surface Water		Sediment-Water Interface	
Total Metals								
Aluminum	2,000	µg/L	2,000	µg/L	1,500	µg/L	1,800	µg/L
Antimony	5.6	µg/L	1U	µg/L	1U	µg/L	1U	µg/L
Arsenic	10	µg/L	1.3	µg/L	1U	µg/L	1U	µg/L
Barium	220	µg/L	42	µg/L	36	µg/L	39	µg/L
Beryllium	0.66	µg/L	0.5U	µg/L	0.5U	µg/L	0.5U	µg/L
Boron	360	µg/L	98	µg/L	120	µg/L	120	µg/L
Cadmium	2	µg/L	0.5U	µg/L	0.5U	µg/L	0.5U	µg/L
Calcium	-	-	6,100	µg/L	6,100	µg/L	6,000	µg/L
Chromium	29	µg/L	3.1J,Q-2	µg/L	2.2J,Q-2	µg/L	2.6J,Q-2	µg/L
Cobalt	24	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Copper	3	µg/L	3.8	µg/L	3.1	µg/L	3.3	µg/L
Iron	2,300	µg/L	2,400	µg/L	1,700	µg/L	1,800	µg/L
Lead	0.6	µg/L	1.8	µg/L	1.4	µg/L	1.6	µg/L
Magnesium	-	-	2,600	µg/L	2,500	µg/L	2,500	µg/L
Manganese	200	µg/L	55	µg/L	32	µg/L	34	µg/L
Mercury	12	ng/L	2.1	ng/L	4.4	ng/L	5.6	ng/L
Molybdenum	-	-	10U	µg/L	10U	µg/L	10U	µg/L
Nickel	17	µg/L	10U	µg/L	10U	µg/L	10U	µg/L
Potassium	53,000	µg/L	1,800	µg/L	1,700	µg/L	1,700	µg/L
Selenium	5	µg/L	2U	µg/L	2U	µg/L	2U	µg/L
Silver	0.06	µg/L	0.013U,J	µg/L	0.013U,J	µg/L	0.013U,J	µg/L
Sodium	680,000	µg/L	5,700	µg/L	5,800	µg/L	5,700	µg/L
Strontium	1,500	µg/L	51	µg/L	51	µg/L	53	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Tin	73	µg/L	15U	µg/L	15U	µg/L	15U	µg/L
Titanium	-	-	110	µg/L	73	µg/L	93	µg/L
Vanadium	27	µg/L	6.1	µg/L	5U	µg/L	5.5	µg/L
Yttrium	-	-	3U	µg/L	3U	µg/L	3U	µg/L
Zinc	39	µg/L	10U	µg/L	10U	µg/L	10U	µg/L
Classical/Nutrient Analyses								
Total Dissolved Solids	-	-	69	mg/L	68	mg/L	69	mg/L
Total Suspended Solids	-	-	57	mg/L	39	mg/L	41	mg/L

Notes

¹ Value obtained from the GL Tier 2 Values; National Recommended Water Quality Criteria; Suter and Tsao (1996); Reference condition for EcoRegion XI (25 percentile); NCDENR State Standards for surface water

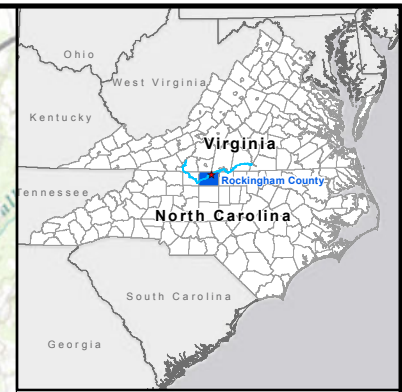
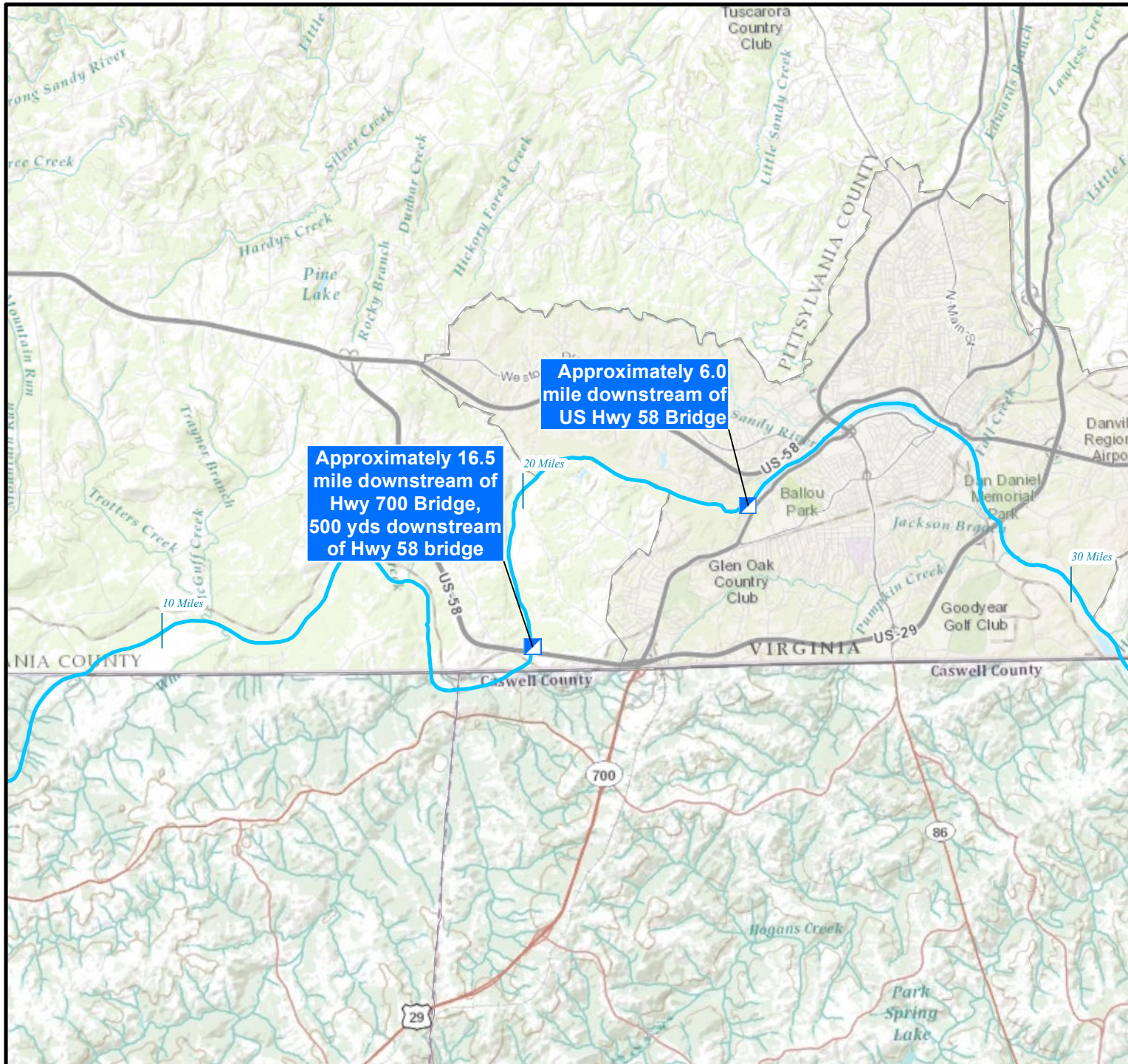
EPA U.S. Environmental Protection Agency

µg/L micrograms per liter





mg/L milligrams per liter

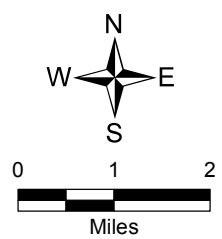
DATA QUALIFIER DEFINITIONS

B-2	Reporting level elevated due to trace amounts of analyte present in the method blank
B-3	Level in blank does not impact data quality
B-4	Level in blank impacts MRLs
B-5	Qualitative evidence of contamination in the blank at a concentration less than the MDL
C-2	Improper sample container used
H-1	Recommended holding time exceeded
J	The identification of the analyte is acceptable; the reported value is an estimate
MRL-1	MRL verification for Potable Water matrix (Drinking Water)
MRL-2	MRL verification for Non-Potable Water matrix
MRL-3	MRL verification for Soil matrix
MRL-6	MRL verification for Waste matrix
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification
NA-5	Not Analyzed. Cannot exceed TCLP regulatory levels based on Total Scan analyses
NA-9	Not Analyzed. No sample container received.
NJ	Presumptive evidence that the analyte is present; reported as a tentative identification with an estimated value
P-6	Incorrect reagent or technique used to preserve sample
Q-2	Result greater than MDL but less than MRL
QC-1	Analyte concentration low in continuing calibration verification standard
QC-2	Analyte concentration high in continuing calibration verification standard
QC-5	Calibration check standard less than method control limits
QC-6	Calibration check standard greater than method control limits
QI-1	Internal standard was outside of method control limits
QL-1	Laboratory Control Spike Recovery less than method control limits
QL-2	Laboratory Control Spike Recovery greater than method control limits
QL-3	Laboratory Control Spike Precision outside of method control limits
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-3	Matrix Spike Precision outside method control limits
QR-1	MRL verification recovery less than lower control limits
QR-2	MRL verification recovery greater than upper control limits
TIC	Tentatively Identified Compound - AN analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.
U	The analyte was not detected at or above the reporting limit
XD-2	Duplicate results less than 5X MRL
XM-1	Sample background/spike ratio higher than method evaluation criteria



Legend

-  River Miles Downstream from 48" Outfall
-  Surface Water Sample Location
-  Approximate Spill Location
-  Dan River



Map Source: ArcGIS Online World Map Topo, 2014

**Surface Water Sample Locations
February 19, 2014**

