EDEN NORTH CAROLINA COAL ASH SPILL
DRINKING WATER RESULTS

NOTE: The data below represents drinking water samples that were collected on Feb 11, 2014 by EPA SESD (Team 2). Water sample measurement are in milligrams per liter (mg/L), micrograms per liter (ug/L), and nanograms per liter (ng/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]		Danville Water Plant Finished Water collected at their compliance sampling location		South Boston Finished Water, collected from the tap in the plant lab	
Sample Information						
Sample ID	-		DVF02		SBF02	
Date	-		02/11/2014		02/11/2014	
Time	-		1410		1040	
Status	-		Validation Complete		Validation Complete	
Media	-		Drinking Water		Drinking Water	
Volatile Organics						
(m- and/or p-)Xylene	-	-	-	-	1U	µg/L
1,1,1,2-Tetrachloroethane	-	-	-	-	0.5U	µg/L
1,1,1-Trichloroethane	-	-	-	-	2U	µg/L
1,1,2,2-Tetrachloroethane	-	-	-	-	0.5U	µg/L
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	-	-	-	-	0.5U	µg/L
1,1,2-Trichloroethane	-	-	-	-	2U	µg/L
1,1-Dichloroethane	-	-	-	-	0.5U	µg/L
1,1-Dichloroethene (1,1-Dichloroethylene)	-	-	-	-	0.5U	µg/L
1,1-Dichloropropene	-	-	-	-	0.5U	µg/L
1,2,3-Trichlorobenzene	-	-	-	-	0.5U	µg/L
1,2,3-Trichloropropane	-	-	-	-	2U	µg/L
1,2,4-Trichlorobenzene	-	-	-	-	0.5U	µg/L
1,2,4-Trimethylbenzene	-	-	-	-	0.5U	µg/L
1,2-Dibromo-3-Chloropropane (DBCP)	-	-	-	-	4U	µg/L
1,2-Dibromoethane (EDB)	-	-	-	-	2U	µg/L
1,2-Dichlorobenzene	-	-	-	-	0.5U	µg/L
1,2-Dichloroethane	-	-	-	-	0.5U	µg/L
1,2-Dichloropropane	-	-	-	-	0.5U	µg/L
1,3,5-Trimethylbenzene	-	-	-	-	0.5U	µg/L
1,3-Dichlorobenzene	-	-	-	-	0.5U	µg/L
1,3-Dichloropropane	-	-	-	-	0.5U	µg/L
1,4-Dichlorobenzene	-	-	-	-	0.5U	µg/L
2,2-Dichloropropane	-	-	-	-	2U	µg/L
Acetone	-	-	-	-	4U	µg/L
Benzene	-	-	-	-	0.5U	µg/L
Bromobenzene	-	-	-	-	0.5U	µg/L
Bromochloromethane	-	-	-	-	0.5U	µg/L
Bromodichloromethane	80	µg/L	-	-	8.2	µg/L
Bromoform	-	-	-	-	4U	µg/L
Bromomethane	-	-	-	-	2U	µg/L
Carbon disulfide	-	-	-	-	2U	µg/L
Carbon Tetrachloride	-	-	-	-	2U	µg/L
Chlorobenzene	-	-	-	-	0.5U	µg/L
Chloroethane	-	-	-	-	2U	µg/L
Chloroform	80	µg/L	-	-	5.6	µg/L
Chloromethane	-	-	-	-	0.5U	µg/L
cis-1,2-Dichloroethene	-	-	-	-	0.5U	µg/L
cis-1,3-Dichloropropene	-	-	-	-	0.5U	µg/L
Cyclohexane	-	-	-	-	0.5U	µg/L
Dibromochloromethane	80	µg/L	-	-	4.6	µg/L
Dibromomethane	-	-	-	-	0.5U	µg/L
Dichlorodifluoromethane (Freon 12)	-	-	-	-	2U	µg/L
Ethyl Benzene	-	-	-	-	0.5U	µg/L
Hexachlorobutadiene	-	-	-	-	0.5U	µg/L
Isopropylbenzene	-	-	-	-	0.5U	µg/L
Methyl Acetate	-	-	-	-	4U	µg/L
Methyl Butyl Ketone	-	-	-	-	1U	µg/L
Methyl Ethyl Ketone	-	-	-	-	4U	µg/L
Methyl Isobutyl Ketone	-	-	-	-	1U	µg/L
Methyl T-Butyl Ether (MTBE)	-	-	-	-	0.5U	µg/L
Methylcyclohexane	-	-	-	-	0.5U	µg/L
Methylene Chloride	-	-	-	-	0.5U	µg/L
n-Butylbenzene	-	-	-	-	0.5U	µg/L
n-Propylbenzene	-	-	-	-	0.5U	µg/L
o-Chlorotoluene	-	-	-	-	0.5U	µg/L
o-Xylene	-	-	-	-	0.5U	µg/L
p-Chlorotoluene	-	-	-	-	0.5U	µg/L
p-Isopropyltoluene	-	-	-	-	0.5U	µg/L
sec-Butylbenzene	-	-	-	-	0.5U	µg/L
Styrene	-	-	-	-	0.5U	µg/L
tert-Butylbenzene	-	-	-	-	0.5U	µg/L
Tetrachloroethene (Tetrachloroethylene)	-	-	-	-	0.5U	µg/L
Toluene	-	-	-	-	0.5U	µg/L
trans-1,2-Dichloroethene	-	-	-	-	0.5U	µg/L
trans-1,3-Dichloropropene	-	-	-	-	0.5U	µg/L
Trichloroethene (Trichloroethylene)	-	-	-	-	0.5U	µg/L
Trichlorofluoromethane (Freon 11)	-	-	-	-	0.5U	µg/L
Vinyl chloride	-	-	-	-	0.5U	µg/L

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Sample Information						
Sample ID	-		DVF02		SBF02	
Semi Volatile Organics						
Acenaphthene	-	-	1U	µg/L	1U	µg/L
Acenaphthylene	-	-	1U	µg/L	1U	µg/L
Anthracene	-	-	1U	µg/L	1U	µg/L
Benzo(a)anthracene	-	-	1U	µg/L	1U	µg/L
Benzo(a)pyrene	-	-	0.2U	µg/L	0.21U	µg/L
Benzo(b)fluoranthene	-	-	1U	µg/L	1U	µg/L
Benzo(g,h,i)perylene	-	-	1U	µg/L	1U	µg/L
Benzo(k)fluoranthene	-	-	1U	µg/L	1U	µg/L
Benzyl butyl phthalate	-	-	1U	µg/L	1U	µg/L
Bis-(2-Ethylhexyl) Adipate	-	-	1U,J,QL-1	µg/L	1U,J,QL-1	µg/L
Bis(2-ethylhexyl) phthalate	-	-	1U	µg/L	1U	µg/L
Chrysene	-	-	1U	µg/L	1U	µg/L
Dibenz(a,h)anthracene	-	-	1U	µg/L	1U	µg/L
Diethyl phthalate	-	-	1U	µg/L	1U	µg/L
Dimethyl phthalate	-	-	1U	µg/L	1U	µg/L
Di-n-butylphthalate	-	-	1U	µg/L	1U	µg/L
Di-n-octylphthalate	-	-	1U	µg/L	1U	µg/L
Fluoranthene	-	-	1U	µg/L	1U	µg/L
Fluorene	-	-	1U	µg/L	1U	µg/L
Hexachlorobenzene (HCB)	-	-	1U,J,QL-1	µg/L	1U,J,QL-1	µg/L
Indeno (1,2,3-cd) pyrene	-	-	1U	µg/L	1U	µg/L
Naphthalene	-	-	1U	µg/L	1U	µg/L
Phenanthrene	-	-	1U	µg/L	1U	µg/L
Pyrene	-	-	1U	µg/L	1U	µg/L
Total Metals						
Aluminum	47,000	µg/L	100U	µg/L	100U	µg/L
Antimony	6	µg/L	1U	µg/L	1U	µg/L
Arsenic	5	µg/L	1U	µg/L	1U	µg/L
Barium	2,000	µg/L	25	µg/L	23	µg/L
Beryllium	4	µg/L	0.5U	µg/L	0.5U	µg/L
Boron	9,300	µg/L	150	µg/L	120	µg/L
Cadmium	5	µg/L	0.5U	µg/L	0.5U	µg/L
Calcium	Essential nutrient		11,000	µg/L	7,200	µg/L
Chromium	3	µg/L	1.1U,J	µg/L	1.1U,J	µg/L
Cobalt	14	µg/L	5U	µg/L	5U	µg/L
Copper	1,300	µg/L	3.8	µg/L	3.8	µg/L
Iron	33,000	µg/L	100U	µg/L	100U	µg/L
Lead	15	µg/L	0.4U	µg/L	0.4U	µg/L
Magnesium	Essential nutrient		2,600	µg/L	2,700	µg/L
Manganese	970	µg/L	5U	µg/L	5U	µg/L
Mercury	2,000	ng/L	0.1U	µg/L	0.1U	µg/L
Molybdenum	78	µg/L	10U	µg/L	10U	µg/L
Nickel	910	µg/L	10U	µg/L	10U	µg/L
Potassium	Essential nutrient		1,600	µg/L	1,600	µg/L
Selenium	50	µg/L	2U	µg/L	2U	µg/L
Silver	210	µg/L	0.013U,J	µg/L	0.013U,J	µg/L
Sodium	Essential nutrient		5,100	µg/L	30,000	µg/L
Strontium	-	-	49	µg/L	78	µg/L
Thallium	0.5	µg/L	0.2U	µg/L	0.2U	µg/L
Tin	-	-	15U	µg/L	15U	µg/L
Titanium	-	-	5U	µg/L	5U	µg/L
Vanadium	190	µg/L	5U	µg/L	5U	µg/L
Yttrium	-	-	3U	µg/L	3U	µg/L
Zinc	14,000	µg/L	10U	µg/L	76	µg/L
Classical/Nutrient Analyses						
Cyanide (total)	200	µg/L	15U,J,QM-1	µg/L	15U	µg/L
Nitrate as N	10	mg/L	0.31J,H-1	mg/L	0.36J,H-1	mg/L
Nitrate/Nitrite as N	-	-	0.31	mg/L	0.36	mg/L
Nitrite as N	1	mg/L	0.05U,J,H-1	mg/L	0.05U,J,H-1	mg/L
Total Dissolved Solids	-	-	82J,QR-1	mg/L	140J,QR-1	mg/L
Total Organic Carbon	-	-	1U	mg/L	1U	mg/L
Total Suspended Solids	-	-	4U	mg/L	4U	mg/L

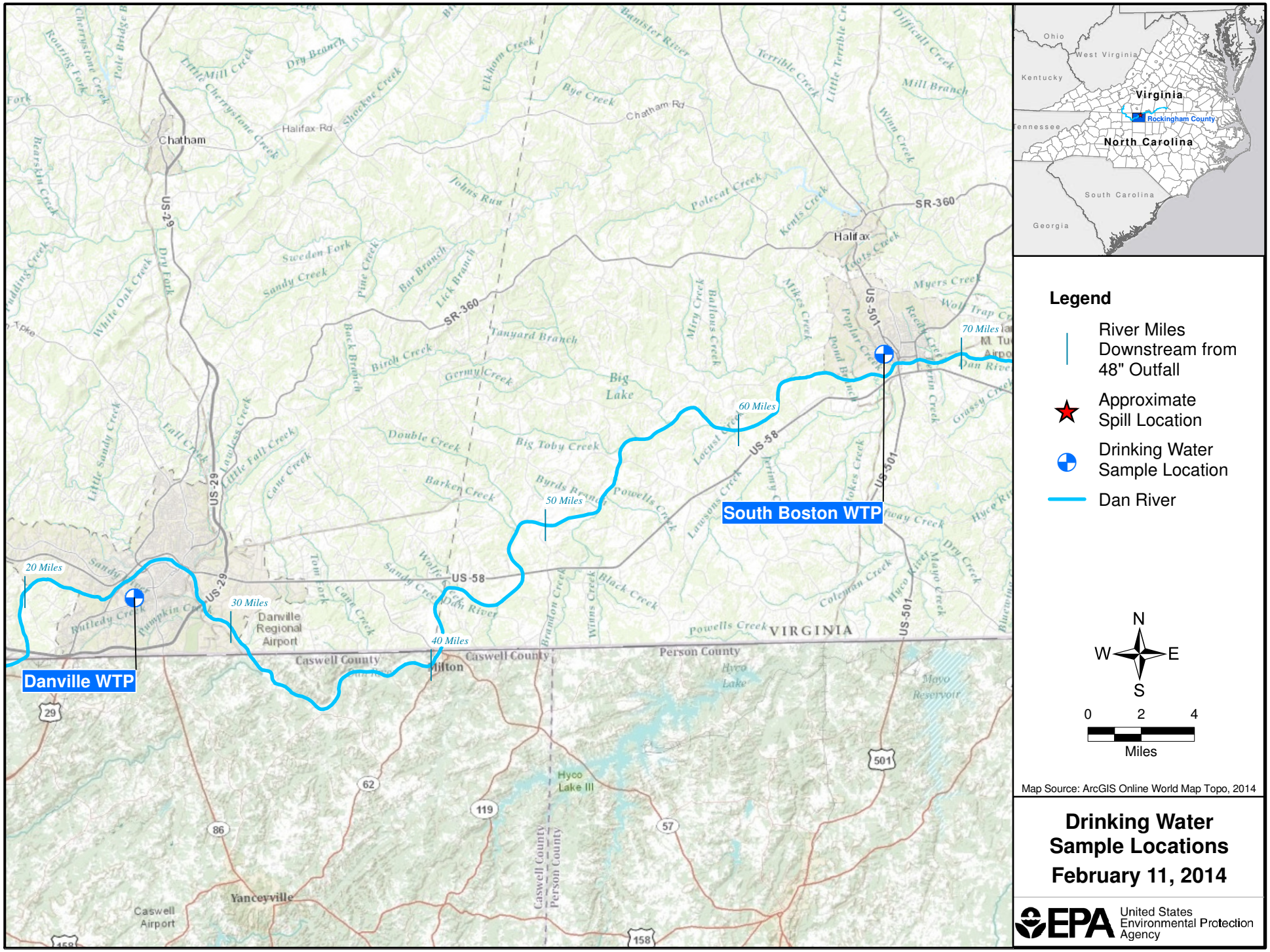
Notes

[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
µg/L micrograms per liter
mg/L milligrams per liter
ng/L nanograms 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



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