

EDEN NORTH CAROLINA COAL ASH SPILL DRINKING WATER RESULTS

NOTE: The data below represents drinking water samples that were collected on March 12, 2014 by EPA sampling teams. 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		Danville WTP		S Boston WTP		Clarksville WTP	
Sample Information								
Sample ID	-		EDEN-DWTP-FINISH-3-20140312		EDEN-SBWTP-FINISH-3-20140312		EDEN-CWTP-FINISH-1-20140312	
Date	-		03/12/2014		03/12/2014		03/12/2014	
Time	-		0645		1030		2200	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Drinking Water		Drinking Water		Drinking Water	
Dissolved metals								
Aluminum	47,000	µg/L	12.4U	µg/L	16.7U	µg/L	-	-
Antimony	6	µg/L	5U	µg/L	5U	µg/L	-	-
Arsenic	5	µg/L	4.5U	µg/L	0.139J	µg/L	-	-
Barium	2,000	µg/L	20.7	µg/L	25.7J	µg/L	-	-
Beryllium	4	µg/L	0.65U	µg/L	0.65U	µg/L	-	-
Boron	9.3	mg/L	0.0945U	mg/L	0.0567U	mg/L	-	-
Cadmium	5	µg/L	0.1U	µg/L	0.1U	µg/L	-	-
Calcium	Essential nutrient		5,720	µg/L	5,290	µg/L	-	-
Chromium	3	µg/L	0.217J	µg/L	0.476J	µg/L	-	-
Cobalt	14	µg/L	5U	µg/L	0.108J	µg/L	-	-
Copper	1,300	µg/L	4.72	µg/L	2U	µg/L	-	-
Iron	33,000	µg/L	100U	µg/L	100U	µg/L	-	-
Lead	15	µg/L	0.5U	µg/L	0.5U	µg/L	-	-
Magnesium	Essential nutrient		2,340J	µg/L	2,140J	µg/L	-	-
Manganese	970	µg/L	5U	µg/L	5U	µg/L	-	-
Mercury	0.002	mg/L	0.0002U	mg/L	0.0002U	mg/L	-	-
Molybdenum	78	µg/L	5U	µg/L	5U	µg/L	-	-
Nickel	910	µg/L	0.195J	µg/L	0.392J	µg/L	-	-
Potassium	Essential nutrient		1,820J	µg/L	2,130J	µg/L	-	-
Selenium	50	µg/L	4.5U	µg/L	4.5U	µg/L	-	-
Silver	210	µg/L	0.05U	µg/L	0.0243J	µg/L	-	-
Sodium	Essential nutrient		5,540	µg/L	26,600	µg/L	-	-
Thallium	0.5	µg/L	0.2U	µg/L	0.2U	µg/L	-	-
Vanadium	190	µg/L	0.234J	µg/L	0.321J	µg/L	-	-
Zinc	14,000	µg/L	10U	µg/L	22	µg/L	-	-
Total Dissolved Solids								
Total Dissolved Solids	-	-	43	mg/L	70	mg/L	-	-
Total Suspended Solids								
Total Suspended Solids	-	-	1J	mg/L	4.5J	mg/L	-	-

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Sample Information								
Sample ID	-		EDEN-DWTP-FINISH-3-20140312		EDEN-SBWTP-FINISH-3-20140312		EDEN-CWTP-FINISH-1-20140312	
Total Metals								
Aluminum	47,000	µg/L	22.1U	µg/L	21.4U	µg/L	364	µg/L
Antimony	6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	5	µg/L	4.5U	µg/L	4.5U	µg/L	0.292J	µg/L
Barium	2,000	µg/L	21	µg/L	23.1J	µg/L	26.1	µg/L
Beryllium	4	µg/L	0.65U	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	9.3	mg/L	0.129U	mg/L	0.07U	mg/L	0.0815U	mg/L
Cadmium	5	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	Essential nutrient		6,050	µg/L	5,480	µg/L	9,560	µg/L
Chromium	3	µg/L	2.5U	µg/L	2.5U	µg/L	2.5U	µg/L
Cobalt	14	µg/L	5U	µg/L	5U	µg/L	0.162J	µg/L
Copper	1,300	µg/L	4.88	µg/L	1.46J	µg/L	2U	µg/L
Iron	33,000	µg/L	16.4J	µg/L	100U	µg/L	100U	µg/L
Lead	15	µg/L	0.5U	µg/L	0.5U	µg/L	0.5U	µg/L
Magnesium	Essential nutrient		2,330J	µg/L	2,160J	µg/L	3,770J	µg/L
Manganese	970	µg/L	5U	µg/L	5U	µg/L	24.7	µg/L
Mercury	0.002	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	78	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Nickel	910	µg/L	5U	µg/L	5U	µg/L	0.549J	µg/L
Potassium	Essential nutrient		5,000U	µg/L	2,110J	µg/L	1,950J	µg/L
Selenium	50	µg/L	4.5U	µg/L	4.5U	µg/L	0.327J	µg/L
Silver	210	µg/L	0.026J	µg/L	0.05U	µg/L	0.05U	µg/L
Sodium	Essential nutrient		5,620	µg/L	28,000	µg/L	11,800	µg/L
Thallium	0.5	µg/L	0.2U	µg/L	0.2U	µg/L	0.239U	µg/L
Vanadium	190	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Zinc	14,000	µg/L	10U	µg/L	27	µg/L	13.2U	µg/L
Anions								
Bromide	-	-	1U	mg/L	1U	mg/L	-	-
Chloride	250	mg/L	9.44	mg/L	11.9	mg/L	-	-
Sulfate	250	mg/L	12.4	mg/L	46	mg/L	-	-
Wet Chemistry								
Alkalinity, Total (As CaCO ₃)	-	-	9.4J	mg/L	109	mg/L	-	-
Hardness, Calcium/Magnesium (As CaCO ₃)	-	-	24.7	mg/L	22.6	mg/L	-	-
Organic Carbon, Dissolved	-	-	1.1	mg/L	2.2	mg/L	-	-
pH	6.5 - 9.0	std	6.08J	std	6.46J	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.

