

NOTE: The data below represents surface water samples that were collected on Feb 9, 2014 by EPA SEDS (Team 2) sampling teams. Water sample measurements are in micrograms per liter (µg/L) for these samples. The data is being compared to EPA ecological risk screening levels (ERSLs) to protect aquatic life in the surface water of the Dan River. Specific qualifiers and footnotes are listed below the summary table. These samples were collected at various locations along the river (refer to map for generalized locations). The detected concentrations in surface water are all below the EPA ERSLs.

		Approximately 1.0 mile downstream of US Hwy 58 Bridge	Approximately 1.0 mile downstream of US Hwy 58 Bridge	Approximately 2.0 mile downstream of US Hwy 58 Bridge	Approximately 2.0 mile downstream of US Hwy 58 Bridge
Location	Ecological Screening Standard for Surface Water Samples ²	DR20	DR20	DR21	DR21
Sample ID		DR20A-0214SW	DR20B-0214SW	DR21A-0214SW	DR21B-0214SW
Date Collected		2/9/2014	2/9/2014	2/9/2014	2/9/2014
Time Collected		1332	1348	1445	1507
Status		Validation Complete	Validation Complete	Validation Complete	Validation Complete
Type		Surface Water	Surface Water	Surface Water	Surface Water
Units		µg/L	µg/L	µg/L	µg/L
Total Metals					
Aluminum	-	660	680	640	620
Antimony	5.6 µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Arsenic	10 µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	220 µg/L	28	28	28	28
Beryllium	0.66 µg/L	3.0 U	3.0 U	3.0 U	3.0 U
Boron		170	170	170	170
Cadmium	2 µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Calcium	-	7600	7400	7600	7600
Chromium	29 µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Cobalt	24 µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Copper	3 µg/L	10 U	10 U	10 U	10 U
Iron	-	840	860	820	840
Lead	0.6 µg/L	0.54	0.54	0.52	0.51
Magnesium	-	2900	2800	2900	2900
Manganese	200 µg/L	22	21	23	23
Mercury	0.012 µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Molybdenum	-	10 U	10 U	10 U	10 U
Nickel	17 µg/L	10 U	10 U	10 U	10 U
Potassium	53000 µg/L	1300	1300	1300	1300
Selenium	-	2.0 U	2.0 U	2.0 U	2.0 U
Silver	0.06 µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	680000 µg/L	4700	4700	4700	4700
Strontium	NA	48	48	48	48
Thallium	0.24 µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Tin	-	15 U	15 U	15 U	15 U
Titanium	NA	31	32	29	27
Vanadium	27 µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Yttrium	-	3.0 U	3.0 U	3.0 U	3.0 U
Zinc	39 µg/L	10 U	10 U	10 U	10 U

		Approximately 15.5 mile downstream of Hwy 700 Bridge	Approximately 15.5 mile downstream of Hwy 700 Bridge	Approximately 16.5 mile downstream of Hwy 700 Bridge, 500 yards downstream of Hwy 58 bridge	Approximately 16.5 mile downstream of Hwy 700 Bridge, 500 yards downstream of Hwy 58 bridge
Location	Ecological Screening Standard for Surface Water Samples ²	DR18	DR18	DR19	DR19
Sample ID		DR18A-0214SW	DR18B-0214SW	DR19A-0214SW	DR19B-0214SW
Date Collected		2/9/2014	2/9/2014	2/9/2014	2/9/2014
Time Collected		1500	1500	1605	1605
Status		Validation Complete	Validation Complete	Validation Complete	Validation Complete
Type		Surface Water	Surface Water	Surface Water	Surface Water
Units		µg/L	µg/L	µg/L	µg/L
Total Metals					
Aluminum	-	620	600	630	640
Antimony	5.6 µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Arsenic	10 µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	220 µg/L	26	26	26	26
Beryllium	0.66 µg/L	3.0 U	3.0 U	3.0 U	3.0 U
Boron		180	170	170	170
Cadmium	2 µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Calcium	-	7400	7400	7500	7600
Chromium	29 µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Cobalt	24 µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Copper	3 µg/L	10 U	10 U	10 U	10 U
Iron	-	800	810	830	840
Lead	0.6 µg/L	0.56	0.54	0.56	0.58
Magnesium	-	2800	2800	2900	2900
Manganese	200 µg/L	20	21	27	27
Mercury	0.012 µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Molybdenum	-	10 U	10 U	10 U	10 U
Nickel	17 µg/L	10 U	10 U	10 U	10 U
Potassium	53000 µg/L	1200	1200	1300	1300
Selenium	-	2.0 U	2.0 U	2.0 U	2.0 U
Silver	0.06 µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	680000 µg/L	4600	4500	4600	4700
Strontium	NA	47	47	47	47
Thallium	0.24 µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Tin	-	15 U	15 U	15 U	15 U
Titanium	NA	28	28	28	33
Vanadium	27 µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Yttrium	-	3.0 U	3.0 U	3.0 U	3.0 U
Zinc	39 µg/L	10 U	10 U	10 U	10 U

LEGEND	
2	Value obtained from the GL Tier 2 Values; National Recommended Water Quality Criteria; Suter and Tsao (1996); Reference condition for EcoRegion XI (25 percentile); NCDNER State Standards for surface water. If the compound was not detected, a screening value may not be indicated.
µg/L	microgram per liter
NA	Not available
U	The analyte was not detected at or above the reporting limit.