

Table 3
Nonradiological Environmental Surveillance Detection/Report Limits

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Parameter	Units	Reporting Limit
<i>Note: "NA" denotes "not applicable."</i>		
<u>WSRC/EMS Laboratory</u>		
Field Measurements		
Temperature	°C	NA
pH	SU	NA
Total Residual Chlorine	mg/L	0.05
<u>WSRC/EB Laboratory</u>		
Inorganic Nonmetals (aqueous)		
Chemical Oxygen Demand (COD)	mg/L	20
Total Suspended Solids (TSS)	mg/L	1
Metals (aqueous)		
Aluminum (Al)	mg/L	0.3
Beryllium (Be)	mg/L	0.001
Cadmium (Cd)	mg/L	0.001
Chromium (Cr)	mg/L	0.009
Copper (Cu)	mg/L	0.005
Iron (Fe)	mg/L	0.04
Lead (Pb)	mg/L	0.03
Manganese (Mn)	mg/L	0.003
Mercury in Water	mg/L	0.0001
Nickel (Ni)	mg/L	0.04
Thallium (Tl)	mg/L	0.06
Zinc (Zn)	mg/L	0.10
<u>WSRC/Site Utilities Department</u>		
Inorganic Nonmetals (aqueous)		
Biological Oxygen Demand (BOD)	mg/L	2.0
Total Suspended Solids (TSS)	mg/L	1.0
pH	SU	NA
Dissolved Oxygen (DO)	mg/L	1.0
Fecal Coliform	col/100 mL	1
<u>Shealy Environmental Services</u>		
Inorganic Nonmetals (aqueous)		
Ammonia as Nitrogen [AN]	mg/L	0.10
Biological Oxygen Demand [BOD]	mg/L	2.0
Bromide [Br-]	mg/L	1.0
Chemical Oxygen Demand [COD]	mg/L	10
Cyanide [CN]	mg/L	0.010
Hardness (total)	mg/L	10
Heterotrophic Plate Count	col/mL	1

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<u>Shealy Environmental Services (cont.)</u>		
Inorganic Nonmetals (aqueous, cont.)		
Nitrate [NO ₃]	mg/L	0.020
Nitrite [NO ₂]	mg/L	0.020
Nitrate–Nitrite–N	mg/L	0.020
Phenol [PHE]	mg/L	0.0060
Phosphate Phosphorus [PO ₄ -P]	mg/L	0.01
Sulfate [SO ₄]	mg/L	10
Total Suspended Solids [TSS]	mg/L	1.0
Total Kjeldahl Nitrogen [TKN]	mg/L	0.50
Total Phosphorus	mg/L	0.010
Total Organic Carbon [TOC]	mg/L	1.0
Total Oil and Grease	mg/L	1.0
% Solids	%	0.0
Metals (aqueous and solid)		
Aluminum [Al]	mg/L	0.050
Antimony [Sb]	mg/L	0.0050
Arsenic [As]	mg/L	0.0050
Arsenic [As]	mg/kg (solid) ^a	0.25
Barium [Ba]	mg/L	0.005
Boron [B]	mg/L	0.05
Cadmium [Cd]	mg/L	0.0020
Cadmium [Cd GFAA]	mg/L	0.00010
Cadmium [Cd]	mg/kg (solid) ^a	0.1
Chromium [Cr]	mg/L	0.0050
Chromium [Cr]	mg/kg (solid) ^a	0.25
Copper [Cu]	mg/L	0.0050
Copper [Cu]	mg/kg (solid) ^a	0.25
Iron [Fe]	mg/L	0.020
Lead [Pb]	mg/L	0.0030
Lead [Pb]	mg/kg (solid) ^a	0.25
Magnesium [Mg]	mg/L	0.050
Manganese [Mn]	mg/L	0.0050
Mercury [Hg]	mg/L	0.00010
Mercury [Hg]	mg/kg (solid) ^a	0.2
Molybdenum [Mo]	mg/kg (solid) ^a	2.0
Nickel [Ni]	mg/L	0.010

a The nondetect value will vary, depending on the dilution factor.

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Metals (aqueous and solid, cont.)		
Nickel [Ni]	mg/kg (solid) ^a	2.0
Potassium [K]	mg/L	0.2
Potassium [K]	mg/kg	250
Selenium [Se]	mg/L	0.005
Selenium [Se]	mg/kg (solid) ^a	0.25
Silver [Ag]	mg/L	0.0050
Silver [Ag]	mg/kg (solid) ^a	0.25
Sodium [Na]	mg/L	0.09
Tin [Sn]	mg/L	0.05
Uranium [U]	mg/L	0.5
Zinc [Zn]	mg/L	0.0050
Zinc [Zn]	mg/kg (solid) ^a	2.5
Organochlorine Pesticides and PCBs (aqueous)^a		
Aldrin	∞g/L	0.026
Alpha-BHC	∞g/L	0.026
Aroclor 1016	∞g/L	0.26
Aroclor 1221	∞g/L	0.26
Aroclor 1232	∞g/L	0.26
Aroclor 1242	∞g/L	0.26
Aroclor 1248	∞g/L	0.26
Aroclor 1254	∞g/L	0.26
Aroclor 1260	∞g/L	0.26
Beta-BHC	∞g/L	0.026
Delta-BHC	∞g/L	0.026
Gamma-BHC (Lindane)	∞g/L	0.026
Chlordane	∞g/L	0.053
4,4'-DDD	∞g/L	0.026
4,4'-DDE	∞g/L	0.026
4,4'-DDT	∞g/L	0.026
Dieldrin	∞g/L	0.026
Endosulfan I	∞g/L	0.026
Endosulfan II	∞g/L	0.026
Endosulfan sulfate	∞g/L	0.026
Endrin	∞g/L	0.026
Endrin aldehyde	∞g/L	0.026

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<u>Shealy Environmental Services (cont.)</u>		
Organochlorine Pesticides and PCBs (aqueous, cont.)^a		
Heptachlor	∞g/L	0.026
Heptachlor epoxide	∞g/L	0.026
Toxaphene	∞g/L	0.26
Herbicides (aqueous)		
2,4-D	∞g/L	2.0
2,4,5-TP [Silvex]	∞g/L	0.5
Volatile Organic Compounds (aqueous)		
Benzene	∞g/L	0.50
Tetrachloroethene (PERCL)	∞g/L	2.0
1,1,1-Trichloroethane	∞g/L	2.0
Trichloroethene (TRICL)	∞g/L	2.0
Ethylene Glycol	mg/L	50

a The nondetect value will vary, depending on the dilution factor.