

Table 3
Nonradiological Environmental Surveillance Detection/Report Limits

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Parameter	Units	Quantitation Value	Report Value Round to the nearest:
<i>Note: "NA" denotes "not applicable."</i>			
<u>WSRC/EMS Laboratory</u>			
Field Measurements			
Temperature	°C	NA	0.1
pH	SU	NA	0.1
Dissolved Oxygen (DO)	mg/L	1.0	0.1
Total Residual Chlorine	mg/L	0.05	0.01
General Water Quality Parameters			
Chemical Oxygen Demand (COD)	mg/L	20	1
Conductivity	µmhos/cm	NA	1
Total Suspended Solids (TSS)	mg/L	1	1
Metals			
Aluminum (Al)	mg/L	0.03	0.00001
Cadmium (Cd)	mg/L	0.0020	0.0001
Chromium (Cr)	mg/L	0.0050	0.0001
Copper (Cu)	mg/L	0.0007	0.000001
Iron (Fe)	mg/L	0.050	0.001
Lead (Pb)	mg/L	0.003	0.001
Manganese (Mn)	mg/L	0.003	0.001
Mercury in Water	mg/L	0.01	0.00001
Nickel (Ni)	mg/L	0.02	0.001
Zinc (Zn)	mg/L	0.025	0.0001
<u>WSRC/Site Utilities Department</u>			
General Water Quality Parameters			
Biological Oxygen Demand (BOD)	mg/L	2	0.1
Total Suspended Solids (TSS)	mg/L	0.1	0.1
pH	SU	0.1	0.1
Dissolved Oxygen (DO)	mg/L	1.0	0.1
Fecal Coliform	Colonies/100 mL	1	1

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<u>Shealy Environmental Services</u>			
General Water Quality Parameters			
Ammonia as Nitrogen [AN]	mg/L	0.10	0.01
Biological Oxygen Demand [BOD]	mg/L	2.0	0.1
Bromide [Br-]	mg/L	1.0	1
Chemical Oxygen Demand [COD]	mg/L	10	1
Cyanide [CN]	mg/L	0.01	0.01
Hardness (total)	mg/L	10	1
Nitrate [NO ₃]	mg/L	0.02	0.01
Nitrite [NO ₂]	mg/L	0.02	0.01
NO ₂ ,NO ₃	mg/L	0.02	0.01
Phenol [PHE]	mg/L	0.006	0.001
Phosphate Phosphorus [PO ₄ -P]	mg/L	0.01	0.01
Sulfate [SO ₄]	mg/L	1.0	0.1
Total Dissolved Solids [TDS]	mg/L	10	1
Total Kjeldahl Nitrogen [TKN]	mg/L	0.10	0.01
Total Phosphorus	mg/L	0.01	0.01
Total Organic Carbon[TOC]	mg/L	1.0	0.1
Total Oil and Grease	mg/L	1.0	0.1
% Solids	%	0.0	0.1
Metals			
Aluminum [Al]	mg/L	0.05	0.01
Antimony [Sb]	mg/L	0.05	0.01
Arsenic [As]	mg/L	0.005	0.001
Arsenic [As]	mg/kg	0.25	0.01
Barium [Ba]	mg/L	0.005	0.001
Boron [B]	mg/L	0.05	0.01
Cadmium [Cd]	mg/L	0.0020	0.0001
Cadmium [Cd]	mg/kg	0.1	0.1
Chromium [Cr]	mg/L	0.0050	0.0001
Chromium [Cr]	mg/kg	0.25	0.01
Copper [Cu]	mg/L	0.0050	0.0001
Copper [Cu]	mg/kg	0.25	0.01
Iron [Fe]	mg/L	0.02	0.01

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<u>Shealy Environmental Services (cont.)</u>			
Metals (cont.)			
Lead [Pb]	mg/L	0.0030	0.0001
Lead [Pb]	mg/kg	0.25	0.01
Magnesium [Mg]	mg/L	0.05	0.01
Manganese [Mn]	mg/L	0.005	0.001
Mercury [Hg]	mg/L	0.000010	0.00001
Mercury [Hg]	mg/kg	0.2	0.1
Molybdenum [Mo]	mg/L	0.5	0.1
Molybdenum [Mo]	mg/kg	2.0	0.1
Nickel [Ni]	mg/L	0.010	0.001
Nickel [Ni]	mg/kg	2.0	0.1
Potassium [K]	mg/L	0.1	0.1
Potassium [K]	mg/kg	250	1
Selenium [Se]	mg/L	0.005	0.001
Selenium [Se]	mg/kg	0.25	0.01
Silver [Ag]	mg/L	0.0050	0.0001
Silver [Ag]	mg/kg	0.25	0.01
Sodium [Na]	mg/L	0.1	0.1
Tin [Sn]	mg/L	0.05	0.01
Uranium [U]	mg/L	0.5	0.1
Zinc [Zn]	mg/L	0.0050	0.0001
Zinc [Zn]	mg/kg	2.5	0.1
Organochlorine Pesticides and PCBs			
Aldrin	µg/L	0.026	0.001
Alpha-BHC	µg/L	0.026	0.001
Aroclor 1016	µg/L	0.26	0.01
Aroclor 1221	µg/L	0.26	0.01
Aroclor 1232	µg/L	0.26	0.01
Aroclor 1242	µg/L	0.26	0.01
Aroclor 1248	µg/L	0.26	0.01
Aroclor 1254	µg/L	0.26	0.01
Aroclor 1260	µg/L	0.26	0.01
Beta-BHC	µg/L	0.026	0.001

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<u>Shealy Environmental Services (cont.)</u>			
Organochlorine Pesticides and PCBs (cont.)			
Delta-BHC	µg/L	0.026	0.001
Gamma-BHC (Lindane)	µg/L	0.026	0.001
Chlordane	µg/L	0.053	0.001
4,4'-DDD	µg/L	0.026	0.001
4,4'-DDE	µg/L	0.026	0.001
4,4'-DDT	µg/L	0.026	0.001
Dieldrin	µg/L	0.026	0.001
Endosulfan I	µg/L	0.026	0.001
Endosulfan II	µg/L	0.026	0.001
Endosulfan sulfate	µg/L	0.026	0.001
Endrin	µg/L	0.026	0.001
Endrin aldehyde	µg/L	0.026	0.001
Heptachlor	µg/L	0.026	0.001
Heptachlor epoxide	µg/L	0.026	0.001
Toxaphene	µg/L	0.26	0.01
<u>Herbicides</u>			
2,4-D	µg/L	2.0	0.1
2,4,5-TP [Silvex]	µg/L	0.5	0.01
Volatile Organic Compounds			
Benzene	µg/L	0.50	0.01
Cis-1,2-Dichloroethene	µg/L	2.0	0.1
Tetrachloroethene (PERCL)	µg/L	2.0	0.1
1,1,1-Trichloroethane	µg/L	2.0	0.1
Trichloroethene (TRICL)	µg/L	2.0	0.1
Vinyl Chloride (VC)	µg/L	2.0	0.1
Ethylene Glycol	mg/L	50	1