

Table 3
Nonradiological Environmental Surveillance Practical Quantitation Limits (PQLs)

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Parameter	Units	PQL
WSRC Environmental Permitting & Monitoring Field Laboratory		
Field Measurements		
pH	SU	As recorded
Chlorine, total residual	µg/L	50.0
WSRC Environmental Bioassay Laboratory		
Inorganic Nonmetals (aqueous)		
Total Suspended Solids (TSS)	mg/L	1
Metals (aqueous, primary)		
Aluminum (Al)	mg/L	0.05
Arsenic (As)	mg/L	0.005
Barium (Ba)	mg/L	0.05
Beryllium (Be)	mg/L	0.001
Chromium (Cr)	mg/L	0.005
Copper (Cu)	mg/L	0.01
Iron (Fe)	mg/L	0.02
Lead (Pb)	mg/L	0.002
Manganese (Mn)	mg/L	0.01
Mercury (Hg)	µg/L	0.02
Nickel (Ni)	mg/L	0.01
Silver (Ag)	mg/L	0.005
Zinc (Zn)	mg/L	0.01
WSRC Infrastructure & Services Department Laboratory		
Inorganic Nonmetals (aqueous)		
Biological Oxygen Demand (BOD)	mg/L	2.0
Total Suspended Solids (TSS)	mg/L	1.0
pH	SU	As recorded
Dissolved Oxygen (DO)	mg/L	1.0
Fecal Coliform	col/100 mL	1.8
Shealy Environmental Services Laboratory		
Inorganic Nonmetals (aqueous)		
Ammonia-Nitrogen [Total as N]	mg/L	0.10
Biological Oxygen Demand [BOD]	mg/L	2.0
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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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
Sulfate [SO ₄]	mg/L	1.0
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, primary)		
Aluminum [Al]	mg/L	0.050
Arsenic [As]	mg/L	0.0050
Arsenic [As]	mg/kg (solid) ^a	0.25
Barium [Ba]	mg/L	0.0050
Boron [B]	mg/L	0.050
Cadmium [Cd]	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	0.0020
Lead [Pb]	mg/L	0.0010
Lead [Pb]	mg/kg (solid) ^a	0.25
Manganese [Mn]	mg/L	0.0050
Mercury [Hg]	mg/L	0.00010
Low Level Mercury [LL Hg]	ng/L	0.500
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, primary, cont.)		
Nickel [Ni]	mg/kg (solid) ^a	2.0
Potassium [K]	mg/kg	250
Selenium [Se]	mg/L	0.0050
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
Uranium [U]	mg/L	0.50
Zinc [Zn]	mg/L	0.0050
Zinc [Zn]	mg/kg (solid) ^a	2.5
Organochlorine Pesticides and PCBs (aqueous)^a		
Aldrin	µg/L	0.026
Alpha-BHC	µg/L	0.026
Aroclor 1016	µg/L	0.26
Aroclor 1221	µg/L	0.26
Aroclor 1232	µg/L	0.26
Aroclor 1242	µg/L	0.26
Aroclor 1248	µg/L	0.26
Aroclor 1254	µg/L	0.26
Aroclor 1260	µg/L	0.26
Beta-BHC	µg/L	0.026
Delta-BHC	µg/L	0.026
Gamma-BHC (Lindane)	µg/L	0.026
Chlordane	µg/L	0.053
4,4'-DDD	µg/L	0.026
4,4'-DDE	µg/L	0.026
4,4'-DDT	µg/L	0.026
Dieldrin	µg/L	0.026
Endosulfan I	µg/L	0.026
Endosulfan II	µg/L	0.026
Endosulfan sulfate	µg/L	0.026
Endrin	µg/L	0.026
Endrin aldehyde	µg/L	0.026

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Organochlorine Pesticides and PCBs (aqueous, cont.)^a		
Heptachlor	µg/L	0.026
Heptachlor epoxide	µg/L	0.026
Toxaphene	µg/L	0.26
Herbicides (aqueous)^a		
2,4-D	µg/L	2.0
2,4,5-TP [Silvex]	µg/L	0.53
Volatile Organic Compounds (aqueous)		
Benzene	µg/L	0.50
Tetrachloroethylene/Tetrachloroethene (PERCL)	µg/L	2.0
Trichloroethylene/Trichloroethene (TRICL)	µg/L	2.0
Ethylene Glycol	mg/L	50

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