

Table 1
Sample Media Information

Matrix	Analytical Parameter	Representative Aliquot	Analytical Method
Surveillance/Effluent Air			
	Gamma, I-129	1400 m3	Gamma Spectroscopy
	Gross alpha-beta	1400 m3	Gas-Flow Proportional Counting
	Tritium	3 m3	Liquid Scintillation Counting
	Strontium-89,90	1400 m3	Gas-Flow Proportional Counting
	Actinides	1400 m3	Alpha Spectroscopy
Effluent Water			
	Gamma, I-129	1 L	Gamma Spectroscopy
	Gross alpha-beta	1 L	Gas-Flow Proportional Counting
	Tritium	10 mL	Liquid Scintillation Counting
	Carbon-14	150 mL	Liquid Scintillation Counting
	Strontium-89,90	1 L	Gas-Flow Proportional Counting
	Actinides	1 L	Alpha Spectroscopy
	Technetium-99	500 mL	Liquid Scintillation Counting
Stream Water			
	Gamma	1 L	Gamma Spectroscopy
	I-129	1500 mL	Gamma Spectroscopy
	Gross alpha-beta	1 L	Gas-Flow Proportional Counting
	Tritium	10 mL	Liquid Scintillation Counting
	Carbon-14	150 mL	Liquid Scintillation Counting
	Strontium-89,90	1 L	Gas-Flow Proportional Counting
	Actinides	1 L	Alpha Spectroscopy
	Technetium-99	500 mL	Liquid Scintillation Counting
River Water			
	Gamma	7.0 L	Gamma Spectroscopy
	Gross alpha-beta	500 mL	Gas-Flow Proportional Counting
	Tritium	10 mL	Liquid Scintillation Counting
	Strontium-89,90	500 mL	Gas-Flow Proportional Counting
	Actinides	500 mL	Alpha Spectroscopy
	Technetium-99	500 mL	Liquid Scintillation Counting
Drinking Water			
	Gamma	1 L	Gamma Spectroscopy
	Gross alpha-beta	1 L	Gas-Flow Proportional Counting
	Tritium	10 mL	Liquid Scintillation Counting
	Strontium-89,90	1 L	Gas-Flow Proportional Counting
	Actinides	1 L	Alpha Spectroscopy
Wet/Dry Deposition (Rainwater)			
	Gamma	0.37 m2	Gamma Spectroscopy
	Gross alpha-beta	0.093 m2 (1/4 sample)	Gas-Flow Proportional Counting
	Tritium	10 mL	Liquid Scintillation Counting
	Strontium-89,90	0.139 m2 (3/8 sample)	Gas-Flow Proportional Counting
	Actinides	0.031 m2 (1/12 sample)	Alpha Spectroscopy
Soil			
	Gamma	650 g	Gamma Spectroscopy
	Gross alpha-beta	0.2 g	Gas-Flow Proportional Counting
	Strontium-89,90	5 g	Gas-Flow Proportional Counting
	Actinides	5 g	Alpha Spectroscopy

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Sediment			
	Gamma	650 g	Gamma Spectroscopy
	Gross alpha-beta	0.2 g	Gas-Flow Proportional Counting
	Strontium-89,90	5 g	Gas-Flow Proportional Counting
	Actinides	5g	Alpha Spectroscopy
Vegetation			
	Gamma	200 g	Gamma Spectroscopy
	Gross alpha-beta	0.5 g	Gas-Flow Proportional Counting
	Tritium	75 g	Liquid Scintillation Counting
	Neptunium-237	10 g	Alpha Spectroscopy
	Strontium-89,90	10 g	Gas-Flow Proportional Counting
	Actinides	10 g	Alpha Spectroscopy
Fish - edible			
	Gamma	500 g (a)	Gamma Spectroscopy
	Iodine-129	500 g (a)	Gamma Spectroscopy
	Gross alpha-beta	5 g	Gas-Flow Proportional Counting
	Tritium	60 g	Liquid Scintillation Counting
	Strontium-89,90	200 g (b)	Gas-Flow Proportional Counting
	Actinides	200 g (b)	Alpha Spectroscopy
	Technetium-99	25 g	Liquid Scintillation Counting
a -200 g for panfish			
b-100 g for panfish			
Fish - nonedible			
	Strontium-89,90	25 g	Gas-Flow Proportional Counting
Oysters/Crabs			
	Gamma	500 g	Gamma Spectroscopy
	Iodine-129	500 g	Gamma Spectroscopy
	Gross alpha-beta	5 g	Gas-Flow Proportional Counting
	Strontium-89,90	100 g	Gas-Flow Proportional Counting
	Actinides	100 g	Alpha Spectroscopy
	Technetium-99	25 g	Liquid Scintillation Counting
Deer/Hogs - muscle			
	Gamma	200 g	Gamma Spectroscopy
	Strontium-89,90	100 g	Gas-Flow Proportional Counting
	Gross alpha-beta	5 g	Gas-Flow Proportional Counting
Deer/Hogs - bone			
	Strontium-89,90	10 g	Gas-Flow Proportional Counting
Foods - watermelon			
	Gamma	1000 g	Gamma Spectroscopy
	Strontium-89,90	100 g	Gas-Flow Proportional Counting
	Gross alpha-beta	0.5 g	Gas-Flow Proportional Counting
	Tritium	100 g	Liquid Scintillation Counting
	Neptunium-237	100 g	Alpha Spectroscopy
	Technetium-99	50 g	Liquid Scintillation Counting
	Actinides	100 g	Alpha Spectroscopy
Foods - rotational crops			
	Gamma	750 g	Gamma Spectroscopy
	Strontium-89,90	10 g	Gas-Flow Proportional Counting
	Gross alpha-beta	0.5 g	Gas-Flow Proportional Counting
	Neptunium-237	10 g	Alpha Spectroscopy

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	Tritium	100 g	Liquid Scintillation Counting
	Technetium-99	10 g	Liquid Scintillation Counting
	Actinides	10 g	Alpha Spectroscopy
Foods - collards			
	Gamma	200 g	Gamma Spectroscopy
	Strontium-89,90	10 g	Gas-Flow Proportional Counting
	Neptunium-237	10 g	Alpha Spectroscopy
	Gross alpha-beta	0.5 g	Gas-Flow Proportional Counting
	Tritium	100 g	Liquid Scintillation Counting
	Technetium-99	10 g	Liquid Scintillation Counting
	Actinides	10 g	Alpha Spectroscopy
Milk			
	Gamma	1 L	Gamma Spectroscopy
	Tritium	5 mL	Liquid Scintillation Counting
	Strontium-90	500 mL	Gas-Flow Proportional Counting
Beef			
	Gamma	200 g	Gamma Spectroscopy
	Strontium-89,90	100 g	Gas-Flow Proportional Counting
	Tritium	60 g	Liquid Scintillation Counting
	Technetium-99	25 g	Liquid Scintillation Counting
	Neptunium-237	100 g	Alpha Spectroscopy
	Actinides	100 g	Alpha Spectroscopy
	Gross alpha-beta	5 g	Gas-Flow Proportional Counting