

Table 1
Sample Media Information

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Matrix	Analytical Parameter	Representative Aliquot	Analytical Method
<u>Surveillance Air</u>			
	Gamma, I-129	1415 m ³	Gamma Spectroscopy
	Gross alpha-beta	1415 m ³	Gas-Flow Proportional Counting
	Tritium	3 m ³	Liquid Scintillation Counting
	Strontium-89,90	1415 m ³	Gas-Flow Proportional Counting
	Actinides	1415 m ³	Alpha Spectroscopy
<u>Effluent Water</u>			
	Gamma	1 L	Gamma Spectroscopy
	Gross alpha-beta	1 L	Gas-Flow Proportional Counting
	Tritium	5 mL	Liquid Scintillation Counting
	Strontium-89,90	1 L	Gas-Flow Proportional Counting
	Actinides	1 L	Alpha Spectroscopy
<u>Stream Water</u>			
	Gamma	1 L	Gamma Spectroscopy
	I-129	1500 mL	Gamma Spectroscopy
	Gross alpha-beta	1 L	Gas-Flow Proportional Counting
	Tritium	5 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
<u>River Water</u>			
	Gamma	7.0 L	Gamma Spectroscopy
	Gross alpha-beta	500 mL	Gas-Flow Proportional Counting
	Tritium	5 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
<u>Drinking Water</u>			
	Gamma	1 L	Gamma Spectroscopy
	Gross alpha-beta	1 L	Gas-Flow Proportional Counting
	Tritium	5 mL	Liquid Scintillation Counting
	Strontium-89,90	1 L	Gas-Flow Proportional Counting
	Actinides	1 L	Alpha Spectroscopy

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<u>Wet/Dry Deposition (Rainwater)</u>			
	Gamma	0.37 m ²	Gamma Spectroscopy
	Gross alpha-beta	0.093 m ² (1/4 sample)	Gas-Flow Proportional Counting
	Tritium	5 mL	Liquid Scintillation Counting
	Strontium-89,90	0.139 m ² (3/8 sample)	Gas-Flow Proportional Counting
	Actinides	0.031 m ² (1/12 sample)	Alpha Spectroscopy
<u>Soil</u>			
	Gamma	650 g	Gamma Spectroscopy
	I-129	5 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
<u>Sediment</u>			
	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
<u>Vegetation</u>			
	Gamma	200 g	Gamma Spectroscopy
	Gross alpha-beta	0.5 g	Gas-Flow Proportional Counting
	Tritium	75 g	Liquid Scintillation Counting
	Strontium-89,90	10 g	Gas-Flow Proportional Counting
	Actinides	10 g	Alpha Spectroscopy
<u>Fish - edible</u>			
	Gamma	500 g ^a	Gamma Spectroscopy
	Iodine-129	500 g ^a	Gamma Spectroscopy
	Gross alpha-beta	1.5 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
<u>Fish - nonedible</u>			
	Gamma	500 g ^a	Gamma Spectroscopy
	Iodine-129	500 g ^a	Gamma Spectroscopy
	Gross alpha-beta	0.5 g	Gas-Flow Proportional Counting

a 200 g for panfish

b 100 g for panfish

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<u>Fish – nonedible (cont.)</u>			
	Strontium-89,90	25 g	Gas-Flow Proportional Counting
	Actinides	25 g	Alpha Spectroscopy
	Technetium-99	25 g	Liquid Scintillation Counting
<u>Oysters/Crabs</u>			
	Gamma	200 g	Gamma Spectroscopy
	Iodine-129	200 g ^a	Gamma Spectroscopy
	Gross alpha-beta	1.5 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
<u>Deer/Hogs - muscle</u>			
	Gamma	200 g	Gamma Spectroscopy
	Strontium-89,90	100 g	Gas-Flow Proportional Counting
	Actinides	100 g	Alpha Spectroscopy
<u>Deer/Hogs - bone</u>			
	Strontium-89,90	2 g	Gas-Flow Proportional Counting
<u>Foods - watermelon</u>			
	Gamma	1000 g	Gamma Spectroscopy
	Strontium-89,90	100 g	Gas-Flow Proportional Counting
	Tritium	100 g	Liquid Scintillation Counting
	Actinides	100 g	Alpha Spectroscopy
<u>Foods - corn/nuts</u>			
	Gamma	750 g	Gamma Spectroscopy
	Strontium-89,90	5 g	Gas-Flow Proportional Counting
	Tritium	100 g	Liquid Scintillation Counting
	Actinides	5 g	Alpha Spectroscopy
<u>Foods - collards</u>			
	Gamma	200 g	Gamma Spectroscopy
	Strontium-89,90	10 g	Gas-Flow Proportional Counting
	Tritium	100 g	Liquid Scintillation Counting
	Actinides	10 g	Alpha Spectroscopy
<u>Milk</u>			
	Gamma	1 L	Gamma Spectroscopy
	Tritium	5 mL	Liquid Scintillation Counting
	Strontium-90	500 mL	Gas-Flow Proportional Counting

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<u>Beef</u>	Gamma	200 g	Gamma Spectroscopy
	Strontium-89,90	200 g	Gas-Flow Proportional Counting
	Tritium	60 g	Liquid Scintillation Counting
	Actinides	200 g	Alpha Spectroscopy
	Gross alpha-beta	1.5 g	Gas-Flow Proportional Counting